ARPOZA

From: Hollywood FL Public Records Center <hollywoodfl@mycusthelp.net>
Sent: Tuesday, January 7, 2020 2:53 PM
To: arpoza@comcast.net
Subject: Public Records Request :: W012423-101619

Attachments:
1201_N_Southlake_Dr.pdf
1201_N_Southlake_Dr_B0303226.pdf
1201_N_Southlake_Dr_B0405651.pdf
B13-105839_PLAN_2.pdf
b13-105839_plans.pdf
B13-105839_PLANS_3.pdf
B13-105839_PLANS_4.pdf
B13-105839_PLANS_5.pdf
B13-105839_PLANS_6.pdf
B13-105839_PLANS_7.pdf

--- Please respond above this line ---

City of Hollywood
www.hollywoodfl.org

1/07/2020

Dear Albert Poza,

The City of Hollywood has received your request for public information, in which you asked for:

"1201 North South Lake Drive.

Copies of original plans or any permitted remodeling or addition plans (Large scale drawings are not necessary)."

The City has reviewed its files and has located responsive records to your request (see attachments). These are the only records that we have within our collection. If you have any questions, please contact our office at 954-921-3545.

Sincerely,

Aynna Cameron

Records and Archives Manager

JOB CARD

OWNER	JOB ADDRESS
MALCOLM FLASH	1201 North South Lake dr.

LEGAL DESCRIPTION	LOT NUMBER	BLOCK	SUBDIVISION OR ADDITION

MICROFILM NO.	ARCHITECT	FEE	VALUATION
		$ 12.00	$ 500

DESCRIPTION OF CONSTRUCTION: Change Windows 9 Gate Type to Awnings

☐ SEPTIC TANK
☐ SEWER TAP

TYPE PERMIT	NUMBER	DATE	CONTRACTOR	TYPE PERMIT	NUMBER	DATE	CONTRACTOR
BUILDING	48125	6/9/78	Seaa Ind.	SEPTIC/SEWER			
ROOF				AIR/CONDITION			
ELECTRIC-BASIC				MECHANICAL			
ELECTRIC-SUPP.				SCREEN			
PLUMBING NO. FIX.				POOL			
L-P-DRY WALL				DRIVEWAY			
FENCE				PATIO or WALK			

NOTES:

NAME OF OWNER M FLASH

ADDRESS 1201 N. S. LAKE DR

LEGAL DESCRIPTION 6X1250.00

DESCRIPTION OF CONST.

ARCHITECT:

PERMIT TYPE	NO.	DATE	TO WHOM	INT. or OUT.
BLDG.				
ROOF				
ELECTRICAL				
PLUMBING				
GAS				
SEPTIC, SEWER				
A/C DUCTS	1885	7-3-68	JOHNS AC	1 TON AC
SCREEN ENCL.	482	5-6-70	Corrected	
POOL				
DRIVEWAY				
FENCE				

JOB CARD

OWNER	JOB ADDRESS
M. M. Flash	1201 North Southlake Drive

LEGAL DESCRIPTION	LOT NUMBER	BLOCK	SUBDIVISION OR ADDITION

MICROFILM NO.	ARCHITECT	FEE	VALUATION
		$ 2.50	$ 200.00

DESCRIPTION OF CONSTRUCTION: one 1 ton window/wall ac unit

☐ SEPTIC TANK
☐ SEWER TAP

TYPE PERMIT	NUMBER	DATE	CONTRACTOR	TYPE PERMIT	NUMBER	DATE	CONTRACTOR
BUILDING				SEPTIC/SEWER			
ROOF				AIR/CONDITION	5252	5/5/75	John's AC
ELECTRIC-BASIC				MECHANICAL			
ELECTRIC-SUPP.				SCREEN			
PLUMBING NO. FIX.				POOL			
L-P-DRY WALL				DRIVEWAY			
FENCE				PATIO or WALK			

NOT _____

FORM 1164-13

JOB CARD

OWNER	JOB ADDRESS
MALCOLM FLASH	1201 N S Lake Dr.

LEGAL DESCRIPTION	LOT NUMBER	BLOCK	SUBDIVISION OR ADDITION

MICROFILM NO.	ARCHITECT	FEE	VALUATION
		$ 3.00	$ 300

DESCRIPTION OF CONSTRUCTION: 1-1 ton Window Unit

☐ SEPTIC TANK
☐ SEWER TAP

TYPE PERMIT	NUMBER	DATE	CONTRACTOR
BUILDING			
ROOF			
ELECTRIC-BASIC			
ELECTRIC-SUPP.			
PLUMBING NO. FIX.			
L-P-DRY WALL			
FENCE			

TYPE PERMIT	NUMBER	DATE	CONTRACTOR
SEPTIC/SEWER			
AIR/CONDITION	9787	11/9/78	Reliable Ref.
MECHANICAL			
SCREEN			
POOL			
DRIVEWAY			
PATIO & WALK			

NOTES:

JOB CARD

OWNER	JOB ADDRESS
FLASH	1201 N S. Lake Dr.

LEGAL DESCRIPTION	LOT NUMBER	BLOCK	SUBDIVISION OR ADDITION

MICROFILM NO.	ARCHITECT	FEE	VALUATION
		$ 12.00	$ 300

DESCRIPTION OF CONSTRUCTION: Fumigation

☐ SEPTIC TANK
☐ SEWER TAP

TYPE PERMIT	NUMBER	DATE	CONTRACTOR	TYPE PERMIT	NUMBER	DATE	CONTRACTOR
BUILDING	53346	3/29/79	Southern Fumigation	SEPTIC/SEWER			
ROOF				AIR/CONDITION			
ELECTRIC-BASIC				MECHANICAL			
ELECTRIC-SUPP.				SCREEN			
PLUMBING NO. FIX.				POOL			
L-P-DRY WALL				DRIVEWAY			
FENCE				PATIO or WALK			

NOTES:

JOB CARD

OWNER	JOB ADDRESS
Malcolm Flash	1201 North South Lake Drive

LEGAL DESCRIPTION	LOT NUMBER	BLOCK	SUBDIVISION OR ADDITION
	10-11	27	Hollywood Lakes

MICROFILM NO.	ARCHITECT	FEE	VALUATION
		$10.00	$ 430

DESCRIPTION OF CONSTRUCTION: 160' of 5' chain link fence in rear

☐ SEPTIC TANK
☐ SEWER TAP

TYPE PERMIT	NUMBER	DATE	CONTRACTOR	TYPE PERMIT	NUMBER	DATE	CONTRACTOR
BUILDING				SEPTIC/SEWER			
ROOF				AIR/CONDITION			
ELECTRIC-BASIC				MECHANICAL			
ELECTRIC-SUPP.				SCREEN			
PLUMBING NO. FIX.				POOL			
L-P-DRY WALL				DRIVEWAY			
FENCE	70048	7/16/81	Crescent Fenc	PATIO or WALK			

NOTES:
county surcharge $.16

Permit Search Results

Search > Properties located at/on/near '...1201 n...'

25 permits were found for
1201 N SOUTHLAKE DR

View	Process #	Permit #	Description	Appl. Date	Permit Date
Details		**B19-104723**	FENCE-MASONRY/CONCRETE/PVC	7/16/2019	**10/1/2019**
Details		**P15-102950**	PLUMBING WORK	12/5/2016	
Details		**P16-100638**	TEMPORARY TOILET	3/23/2016	
Details		**B15-104674**	DRIVEWAY	2/19/2016	**2/19/2016**
Details		**B15-103740**	DRIVEWAY	7/22/2015	**1/5/2016**
Details		**B14-105111**	WINDOW &/OR DOOR REPLACEMENT	10/29/2014	**10/29/2014**
Details		**P14-101500**	LP TANK AND PIPING	8/21/2014	**8/21/2014**
Details		**E14-101234**	ELECTRICAL WORK	8/18/2014	**8/19/2014**
Details		**E14-101195**	LOW VOLTAGE (MUSIC SYSTEM)	8/5/2014	**8/5/2014**
Details		**P14-000002**	PLUMBING WORK	7/25/2014	**7/29/2014**
Details		**M14-100886**	A/C CENTRAL (NEW)	7/24/2014	**7/25/2014**
Details		**E14-100863**	LOW VOLTAGE (CAMERA/SECURITY SYSTEM)	6/3/2014	**7/15/2014**
Details		**B13-105839**	ADDITION & ALTERATIONS	12/20/2013	**7/15/2014**
Details		**E11-100862**	ALARM - RESIDENTIAL - BURGLAR/ROBBERY	5/3/2011	**5/6/2011**
Details		**B09-102258**	WINDOW &/OR DOOR REPLACEMENT	6/8/2009	**6/17/2009**
Details	14317	**B0607285**	RE-ROOF FLAT	6/14/2006	**6/27/2006**
Details	23812	**M0601391**	A/C - CENTRAL - REPLACEMENT	3/10/2004	**10/17/2006**
Details	79380	**E0402490**	TELEPHONE SYSTEM	3/10/2004	**10/25/2004**
Details	79378	**E0402491**	ANTENNAE-SATELLITE DISH-ELECTRICAL	3/10/2004	**10/25/2004**
Details	79377	**M0401593**	MECHANICAL WORK	3/10/2004	**10/25/2004**
Details	79375	**P0401338**	PLUMBING WORK	3/10/2004	**10/25/2004**
Details	78894	**E0402421**	ELECTRICAL WORK	3/10/2004	**10/18/2004**
Details	66066	**B0405651**	ADDITION & ALTERATIONS	3/10/2004	**10/18/2004**
Details	50166	**B0303226**	REPAIRS-STRUCTURAL	5/28/2003	**6/17/2003**
Details		**M9200375**	A/C-WINDOW/WALL UNIT		**4/6/1992**

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

SCANNED MAY 29 2003 BUILDING DIVISION

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3300 • Fax: (954) 921-3037

Date: 5/28/03

Process Number: 501666

Project/Reference: _____

For Review By: (check ☑ all applicable spaces)

Division: ☑ Building ☑ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☑ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: Snapp Industries

Addres: 2302 NW 22nd St
Pompano Fla.

Contact: Dennis Epps

Phone: 786 367 6843 Fax: 305 638-2131
305-635-0687 305-595-5230

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #_____	☐ Fire sheet #_____
☐ Structural sheet #_____	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☑ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

WE ARE SUBMITTING TO YOU (check ☑)

Via ☐ hand delivery ☐ Postal delivery
☑ special delivery ☐ fax copy

☑ initial (original) sets of plans
☐ corrected (non-permitted) plans
☐ revised (permitted) plans
☐ shop drawings: ☐ structural steel
☐ wood trusses
☐ glass/glazing
☐ product approvals
☐ fire protection

☐ spot survey
☐ final survey
☐ energy (insulation) certification
☐ special inspector letter
☐ soil report
☐ inspection reports
☐ energy calcs
☐ site plans
☐ other _____

Special Instructions:

For Departmental Use Only:

Received by: _____ Date: 5/28/03

17-65 (Rev 03/99)

CITY OF HOLLYWOOD, FLORIDA

512/2 PE MIT APPLICATI(N

ALL OF THE FOLLOWING MUST BE FILLED IN BY APPLICANT, ACCORDING TO FS 713.135

DATE _____ TAX FOLIO # 5142.1401 4670

DESCRIPTION: LOT 10 & 11 BLOCK 27 SUBDIVISION Hollywood Lakes

JOB NAME James Bullock PHONE # 954-924-1132

JOB ADDRESS 1201 ~~Jackson St.~~ (Jackson St) CITY OF HOLLYWOOD STATE FL ZIP _____

DETAILED WORK DESCRIPTION: Gunite REPAIR to SPALLED CONCRETE On underside of house

SQ.FT. 1500 ESTIMATED VALUE: $ 86000.00

CONTRACTOR'S NAME Snapp Industries PHONE # 305-635-0687

CONTRACTOR'S ADDRESS 2902 NW 22nd St. CITY Miami STATE FLA ZIP 33142

CERTIFICATE OF COMPETENCY # 85-3949-GU-X FAX # 305-638-2131

CONTRACTOR'S STATE CERTIFICATION OR REGISTRATION NO. _____

OWNER OR FEE SIMPLE TITLE HOLDER'S NAME James Bullock

OWNER OR FEE SIMPLE TITLE HOLDER'S ADDRESS 1201 N. South Lake Dr.

BONDING COMPANY _____

BONDING COMPANY ADDRESS _____

ARCHITECT/ENGINEER'S NAME Stan Sways/And. PHONE # 954-473-6043

ARCHITECT/ENGINEER'S ADDRESS 1459 S. University Dr. CITY Plantation STATE Fla ZIP 33324

MORTGAGE LENDER'S NAME _____

MORTGAGE LENDER'S ADDRESS _____

ELECTRICAL CONTRACTOR: _____

Phone # _____ LICENSE # _____

Sworn before me this _____ of _____, 19____. _____ Notary Public

_____ Value $ _____

Notarized Signature of Qualifier

MECHANICAL CONTRACTOR: _____

Phone # _____ LICENSE # _____

Sworn before me this _____ of _____, 19____. _____ Notary Public

_____ Value $ _____

Notarized Signature of Qualifier

FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM

O.M.B. No. 3067-0077
Expires July 31, 2002

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1 - 7.

SECTION A - PROPERTY OWNER INFORMATION

For Insurance Company Use:
Policy Number
Company NAIC Number

BUILDING OWNER'S NAME: James M. Bullock
BUILDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO.: 1201 South Lake Drive
CITY: Hollywood STATE: FL ZIP CODE:
PROPERTY DESCRIPTION (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
BUILDING USE (e.g., Residential, Non-residential, Addition, Accessory, etc. Use Comments section if necessary.)
LATITUDE/LONGITUDE (OPTIONAL) (##° - ##' - ##.##" or ##.#####°) HORIZONTAL DATUM: ☐ NAD 1927 ☐ NAD 1983 SOURCE: ☐ GPS (Type): ☐ USGS Quad Map ☐ Other:

SCANNED MAY 29 2002 BUILDING OWNER

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP COMMUNITY NAME & COMMUNITY NUMBER	B2. COUNTY NAME	B3. STATE
125113 Hollywood	BROWARD	FLORIDA

B4. MAP AND PANEL NUMBER	B5. SUFFIX	B6. FIRM INDEX DATE	B7. FIRM PANEL EFFECTIVE/REVISED DATE	B8. FLOOD ZONE(S)	B9. BASE FLOOD ELEVATION(S) (Zone AO, use depth of flooding)
0317	G	7/21/95	10/2/97	AE	6.0

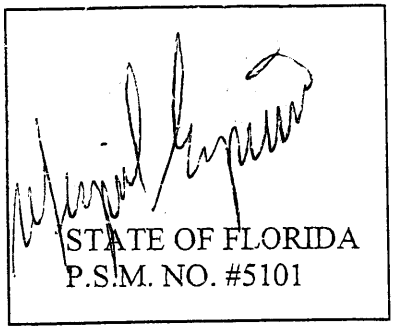
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other (Describe):
B11. Indicate the elevation datum used for the BFE in B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe):
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date:

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
C2. Building Diagram Number 1 (Select the building diagram most similar to the building for which this certificate is being completed - see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)
C3. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO
Complete Items C3a-i below according to the building diagram specified in Item C2. State the datum used. If the datum is different from the datum used for the BFE in Section B, convert the datum to that used for the BFE. Show field measurements and datum conversion calculation. Use the space provided or the Comments area of Section D or Section G, as appropriate, to document the datum conversion.
Datum _____ Conversion/Comments _____
Elevation reference mark used _____ Does the elevation reference mark used appear on the FIRM? ☐ Yes ☐ No

☐ a) Top of bottom floor (including basement or enclosure)	6.41	ft.(m)
☐ b) Top of next higher floor	N/A	ft.(m)
☐ c) Bottom of lowest horizontal structural member (V zones only)	N/A	ft.(m)
☐ d) Attached garage (top of slab)	4.47	ft.(m)
☐ e) Lowest elevation of machinery and/or equipment servicing the building	N/A	ft.(m)
☐ f) Lowest adjacent grade (LAG)	4.37	ft.(m)
☐ g) Highest adjacent grade (HAG)	4.53	ft.(m)
☐ h) No. of permanent openings (flood vents) within 1 ft. above adjacent grade	0	
☐ i) Total area of all permanent openings (flood vents) in C3h	0	sq. in. (sq. cm)

License Number, Embossed Seal, Signature, and Date



SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information.
I certify that the information in Sections A, B, and C on this certificate represents my best efforts to interpret the data available.
I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME: MIGUEL ESPINOSA LICENSE NUMBER: 5101
TITLE: PROFFESSIONAL SURVEYOR & MAPPER COMPANY NAME: MIGUEL ESPINOSA LAND SURVEYING, INC.
ADDRESS: 6494 S.W. 24 Street CITY: MIAMI STATE: FL ZIP CODE: 33155
SIGNATURE: DATE: 4/27/01 TELEPHONE: 305-740-3319

SCANNED
MAY 29 2008
BUILDING DIVISION

FORM FOR "SPECIAL INSPECTOR"
SECTION 105.10 – CHAPTER 71-575 FLORIDA BUILDING CODE

NOTICE TO PROPERTY OWNER:
You are hereby directed in accordance with Section 105.10 of the Florida Building Code, to retain a Special Structural Inspector (A Florida Registered Professional Engineer or Architect) to perform the following mandatory or discretionary inspections, as outlined in Sections 105.1 and 1805.12, 1818.2, 1927.12.1, 1927.12.2 and 2122.4, 2218.2, 2223.11.1 of the Florida Building Code and submit progress reports, inspection reports and a certificate of Compliance to the Building Official as per Sections 105.10.1 and 2 of the Florida Building Code. **Note:** The Building Official determines which discretionary inspections are required to be performed.

DATE: 5-27-03
Identification, Control or BUILDING PERMIT # : _____
PROJECT NAME: BULLOCK RESIDENCE
JOB ADDRESS: 1201 N. SOUTHLAKE DRIVE
CITY: HOLLYWOOD, FLORIDA ZIP CODE: 33019
LEGAL DESCRIPTION: (See attached, if necessary)) _____
FOLIO #: _____

MANDATORY INSPECTION TYPE BY CODE;

1) Precast Concrete Units – Section 1927.12.1
   Yes /__/ No /X/
2) Precast Concrete Units – Section 1927.12.2
   Yes /__/ No /X/
3) Engineered Unit Masonry – Section 2122.4 Florida Building Code (All Groups except Group R3)
   Yes /__/ No /X/
4) Connections – Section 2218.2 Florida Building Code
   Yes /__/ No /X/
5) Metal Systems Building – Section 2223.11.1 Florida Building Code
   Yes /__/ No /X/

DISCRETIONARY INSPECTION TYPE BY BUILDING OFFICIAL:

1) Building Structures or part thereof of Unusual Size, Height, Design or Method of Construction and Critical Structural Connections – Section 105.10 Florida Building Code
   Yes /X/ No /__/
2) Windows, Glass Doors and Curtain Walls on buildings over two (2) stories – Section 105.10 Florida Building Code
   Yes /__/ No /X/
3) Pile Driving Only – Section 1805.12 Florida Building Code
   Yes /__/ No /X/
4) Precast Concrete Units – Section 1927.12.2 (Group R3 Occupancy).
   Yes /__/ No /X/
5) Engineered Unit Masonry – Section 2122.4 Florida Building Code (Group R3 Occupancy).
   Yes /__/ No /X/

MANDATORY DOCUMENTATION

1) Inspection schedule stating the specific inspections that will be made and at what phase of construction must be submitted with this application.
2) Progress Reports/Inspection Reports during construction in accordance with Section 105.10.4
3) Certificate of Compliance must be submitted prior to the scheduling of the final building inspection, Section 105.10.5

ACKNOWLEDGMENT

Owner's Signature: James Bullock

Printed Name: James Bullock

Permit Holder's Signature: _____

Printed Name: _____

License # (if applicable) _____

Stanley R. Swaysland 5-27-03
Signature of Special Inspector 105.10 FBC
Embossed Seal and Date

SPECIAL INSPECTOR:
Registered
/ __ / Architect or / X / Engineer

STANLEY R. SWAYSLAND, P.E.
Printed Name of Special Inspector

1459 S. UNIVERSITY DR.
PLANTATION FL 33324
Address of Special Inspector

SI 1055
State of Florida Registration # PE 29241

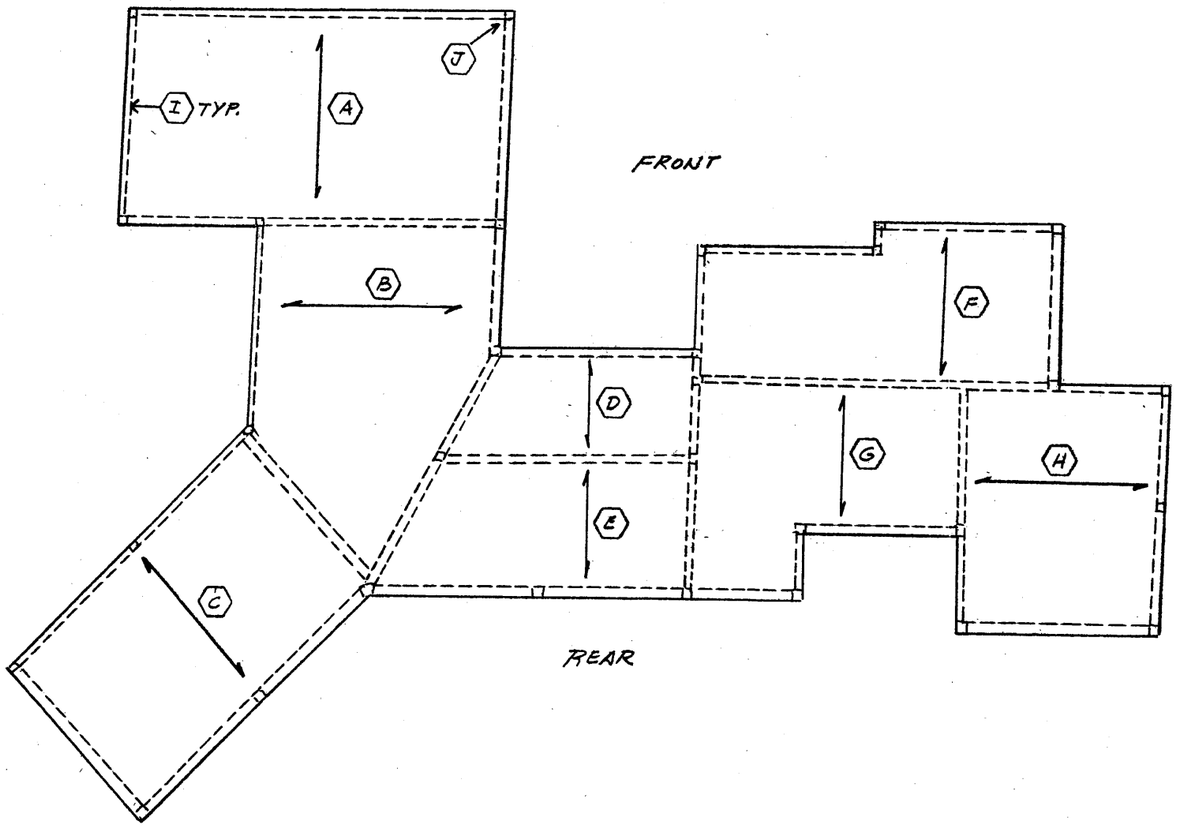
Telephone # 954-473-0043

Fax # 954-473-0063

_____
Building Official (or designated representative)

_____
Date

***** BE ADVISED THIS DOES NOT PRECLUDE YOU FROM OTHER MANDATORY INSPECTIONS IN THE CODE *****



FOUNDATION PLAN
NO SCALE

MAY 29 2003

LEGEND:

A. 14 precast concrete joists at approximate 18'-6" span.
B. 8 precast concrete joists at approximate 20'-0" span.
C. 12 precast concrete joists at approximate 18'-0" span.
D. 9 precast concrete joists at approximate 12'-0" span.
E. 10 precast concrete joists at approximate 12'-0" span.
F. 14 precast concrete joists at approximate 13'-0" span.
G. 12 precast concrete joists at approximate 12'-0" span.
H. 10 precast concrete joists at approximate 18'-0"span.
I. Cast in place concrete beam.
J. Cast in place concrete column.

ESTIMATED REPAIR QUANTITIES:

A. Precast concrete joist repair = 350 cubic feet.
B. Cast in place concrete beam repair = 100 cubic feet
C. Cast in place concrete column = 100 cubic feet

SCANNED MAY 29 2003 BUILDING DIVISION

REPAIR PROCEDURE:

A. Install shoring as needed to temporarily support the deteriorated concrete framing members.
B. Remove all unsound concrete to expose the entire circumference of the corroded reinforcing bars. Provide ¾ inch minimum clearance around all bars.
C. Replace all reinforcing bars that have lost more than 10% of their original cross sectional area. Lap splice new reinforcing bars a minimum of 48 bar diameters. Alternatively, dowel new reinforcing bars 8 inches into existing concrete and set with epoxy gel adhesive.
D. Sandblast all exposed reinforcing bars to remove all corrosion.
E. Coat all exposed reinforcing bars with a rust-inhibitive coating.
F. Install forms at the repair areas as needed.
G. Pre-wet the existing concrete surfaces to be bonded to the new gunite.
H. Apply pneumatically applied concrete (gunite) to the void areas to build out the repair areas to their original shapes.
I. Remove all concrete rubble, steel bars, gunite rebound, forms and other construction debris from beneath the house and dispose of legally.

GENERAL NOTES:

A. Gunite shall have a minimum 28-day compressive strength of 4,000 psi.
B. New reinforcing bars shall be ASTM A615, Grade 60.
C. Rust-inhibitive coating shall be Sonneborn Sonoprep or equal.
D. Epoxy gel adhesive shall be Sonneborn Epogel or equal.

CONCRETE FOUNDATION PLAN

BULLOCK RESIDENCE
1201 N. SOUTHLAKE DRIVE
HOLLYWOOD, FLORIDA

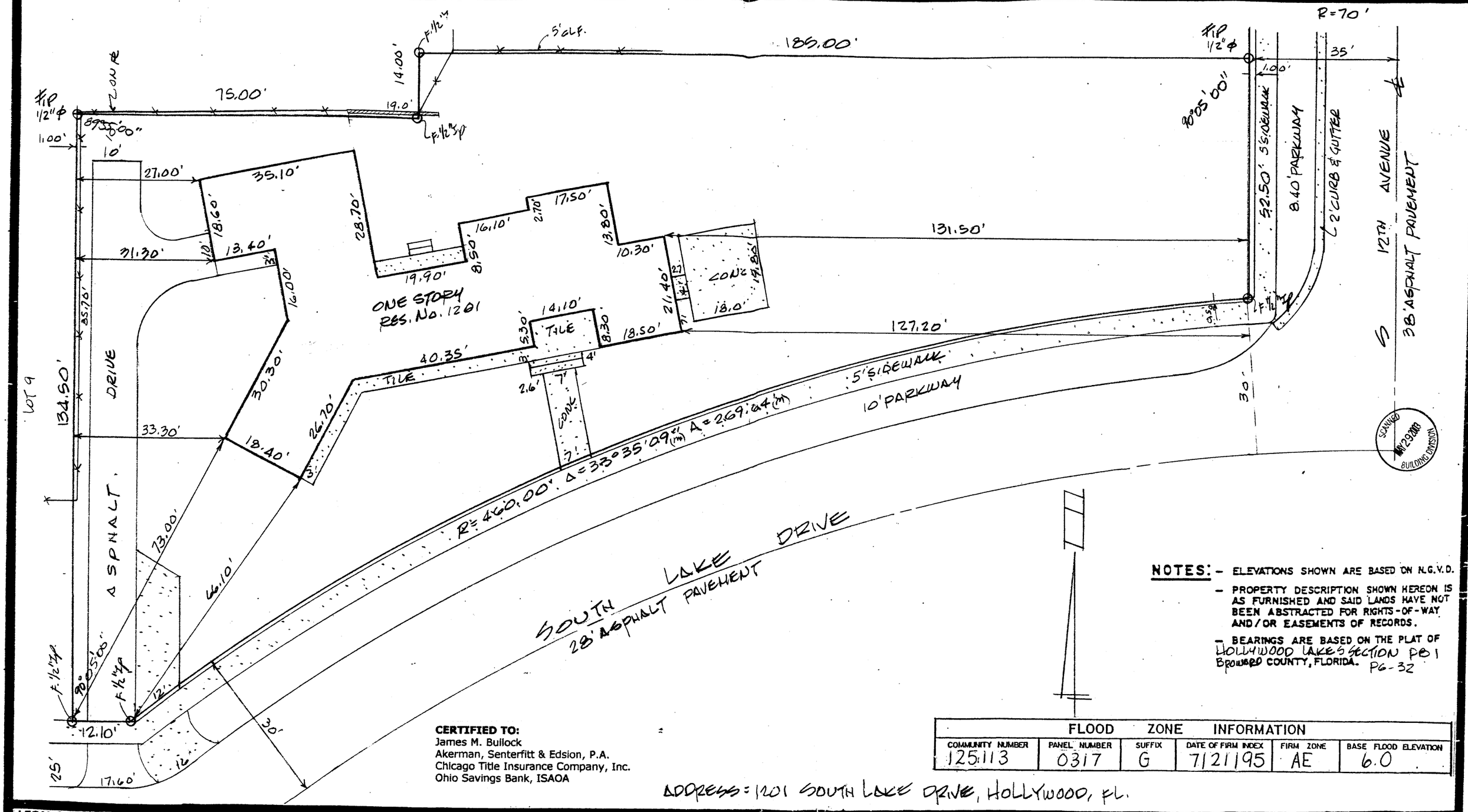
SPEC
Swaysland Professional Engineering Consultants, Inc.
1459 S. University Drive, Plantation, FL 33324
(954) 473-0043 Fax (954) 473-0063

PROJECT DATA:	
DATE:	1-20-03
JOB NUMBER:	02181
DESIGNED BY:	SRS
DRAWN BY:	SRS
CHECKED BY:	
CAD NAME:	

DATE:	ISSUED FOR	BY:

SEAL: Stanley R. Swaysland 5-27-03

SHT. 1 OF 1



NOTES: – ELEVATIONS SHOWN ARE BASED ON N.G.V.D.

– PROPERTY DESCRIPTION SHOWN HEREON IS AS FURNISHED AND SAID LANDS HAVE NOT BEEN ABSTRACTED FOR RIGHTS-OF-WAY AND/OR EASEMENTS OF RECORDS.

– BEARINGS ARE BASED ON THE PLAT OF HOLLYWOOD LAKES SECTION PB 1 BROWARD COUNTY, FLORIDA. PG-32

CERTIFIED TO:
James M. Bullock
Akerman, Senterfitt & Edsion, P.A.
Chicago Title Insurance Company, Inc.
Ohio Savings Bank, ISAOA

FLOOD ZONE INFORMATION					
COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM INDEX	FIRM ZONE	BASE FLOOD ELEVATION
125113	0317	G	7/21/95	AE	6.0

ADDRESS: 1201 SOUTH LAKE DRIVE, HOLLYWOOD, FL.

LEGAL DESCRIPTION:
Lots 10 and 11, Block 27 of HOLLYWOOD LAKES SECTION, Plat Book 1, Page 32, Broward County, Florida (Folio No.514214014640) and the East 185 feet of the alley in Block 27 of Hollywood Lakes Section, measured from the westerly line of South 12th Avenue, Block 27 (Folio No.514214014650)

CERTIFICATION:

I HEREBY CERTIFY THAT THIS SKETCH OF SURVEY REPRESENTS A TRUE AND CORRECT SURVEY RECENTLY MADE UNDER MY DIRECTION AND THAT IT IS IN COMPLIANCE WITH THE MINIMUN TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS PERSUANT TO SECTION 472.027 FLORIDA STATUES.

BY _____ FOR THE FIRM
MIGUEL ESPINOSA
P.L.S. No. 5104
STATE OF FLORIDA
NOT VALID WITHOUT EMBOSSED SEAL.

BOUNDARY SURVEY
PREPARED FOR: JAMES M. BULLOCK
DATE: 4-27-2001
JOB No. 01-326
SCALE: 1" = 20'

MIGUEL ESPINOSA LAND SURVEYING, INC.
6494 S.W. 24 STREET
MIAMI, FLORIDA 33155
PHONE: (305) 740-3319
BEEPER: (305) 859-1503

SCANNED MAY 29 2003 BUILDING DIVISION

me JAMES Bullock
ldress 1201 N SOUTH LAKE DR.
nit # Folio # 5142130A1A40

NOTICE OF COMMENCEMENT

INSTR # 103055051
OR BK 35459 Pages 47 - 47
RECORDED 06/25/03 08:16:38
BROWARD COUNTY COMMISSION
DEPUTY CLERK 2005
#2, 1 Pages

50164

te of Florida
, of Broward
e undersigned hereby gives notice that improvement will be made to
tain real property, and in accordance with Chapter 713, Florida Statutes,
e following information is provided in this Notice of Commencement:

Property Legal Description [ ]Lot [ ]Unit [1411] [ ]Block [ ]Bldg 27
Subdivision/Condominium HOLLYWOOD LAKES

( ) Lengthy Legal, please see description attached hereto

space above reserved for use of recording office.

General Description of Improvement: GUNITE REPAIR TO UNDERSIDE OF HOUSE

Property Owner Name: JAMES Bullock
Mailing Address: 1201 N South Lake Dr Hollywood, FLA.
and interest in property: FEE SIMPLE
Name/mailing address of fee simple title holder if other than owner:

Contractor name: SNAPP Industries Inc.
Address: 2902 NW 22nd St. Miami, FLA. 33142
Phone Number: 305-635-0687 Fax#: (optional- if service by fax is acceptable) 305-638-2131

If Surety Bond, Name:
...l address of Surety:
mid amount of Bond: $ (Copy of bond must be attached to this Notice at time of recording)
Phone Number: Fax#: (optional- if service by fax is acceptable)

Lender name:
Address:
Phone Number: Fax#: (optional- if service by fax is acceptable)

Persons within the State of Florida (names and addresses) designated by property owner upon whom Notices o other documents may be served as provided by Section 713.13(1)(A)7., Florida Statutes:
Name:
Address:
Phone Number: Fax#: (optional- if service by fax is acceptable)

In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provide by Section 713.13(1)(B), Florida Statutes:
Name:
Address:
Phone Number: Fax#: (optional- if service by fax is acceptable)

Expiration date of this Notice: (Expires one year from date recorded unless a different date is specifie

wner signature: Owner signature:
inted name: James A. Bullock Printed name:

SWORN TO AND SUBSCRIBED before me this 28th day of May, 2003, by:

rsonally known to me or produced DL# 420-453-44-296-0 as identificatio

otary signature: Ginny Doobay Raymond
inted name: My commission expires:
eal:

GINNY DOOBAY RAYMOND
MY COMMISSION #CC 994138
EXPIRES: Dec 14, 2003
1-800-NOTARY, Fla. Notary Service & Bonding Co.

2003 JUL -1 A 11:37

BUILDING DIVISION
CITY OF HOLLYWOOD

space above this line reserved for use of the recording office

Name

50166

SPEC

Swaysland Professional Engineering Consultants, Inc.
1459 South University Drive
Plantation, Florida 33324
(954) 473-0043 • Fax (954) 473-0063
Toll Free 888-264-7732

October 1, 2003

CITY COPY

2003 OCT -9 P 3:15
CITY OF HOLLYWOOD
BUILDING DIVISION

City of Hollywood
Building Division/Code Compliance
2600 Hollywood Blvd.
Hollywood, Florida 33022-9045

Re: Permit No. B0303226
Owner: Mr. James Bullock
Project: Foundation Repair
Contractor: Snapp Industries, Inc.

Dear Sir or Madam:

We made inspections of the structural foundation concrete repair work at the Bullock Residence located at 1201 N. Southlake Drive, Hollywood, beginning in May 2003 and ending in September, 2003 in the capacity of Special/Threshold Engineer. The purpose of the inspections was to confirm that the foundation concrete repair work was performed in accordance with the outline specifications prepared by Swaysland Professional Engineering Consultants, Inc. and approved by the City of Hollywood Building Department.

To the best of our knowledge, information and belief, the structural concrete repair work was completed in accordance with the approved plans and specifications and the requirements of the Florida Building Code.

If you have any questions or need additional information, please do not hesitate to contact us.

Sincerely,

SWAYSLAND PROFESSIONAL ENGINEERING CONSULTANTS, INC.

By: Stanley R. Swaysland 10-2-03
Stanley R. Swaysland, P.E.
Florida Registration No. 29241
Special/Threshold Inspector No. 1055

Cc: Mr. James Bullock
Snapp Industries, Inc.

RECEIVED
2003 OCT - 8 AM
BUILDING DIVISION

APPROVED
OCT 7 2003
CITY OF HOLLYWOOD FLA.
STRUCTURAL

James Bullock (954-924-1132)
1201 N. South Lake Dr. (Jackson St)
Hollywood, Fl. 33019

Permit # B0303226

issued June 17, 2003

Expired Dec. 17, 2003

CITY OF HOLLYWOOD
BUILDING DIVISION
2003 OCT -9 P 3:16

Donnt Egan
786-367-6843

Snapp Industries
305-635-0687

SWAYSLAND PROFESSIONAL ENGINEERING CONSULTANTS, INC.
1459 S. University Drive
Plantation, Florida 33324
Ph. 954-473-0043 Fax 954-473-0063
Toll Free 1-888-264-7732

By: Stanley R Swaysland 10-2-03
Stanley R. Swaysland, P.E.
FL Registration No. 29241
Threshold Inspector No. 1055

To: James Bullock
P.O. Box 664
West Redding, CT 06896

Permit No. 0303226
Date: 9-15-03
Job No. 02181
Project: Foundation Repair
Location: Southwest Area
Contractor: Snapp Industries, Inc.
Weather: Partly Cloudy Temp. 88
Time: 10:45 AM
Present: Ed Salzano, SPEC
Rick Wessel, Contractor

Cc: City of Hollywood Bldg. Dept.
Snapp Industries, Inc.

1. The purpose of the inspection was to check on the completed concrete beam and joist restoration at the underside of the structure.

2. The final details of stuccowork are being added to the perimeter of the home at the base of the exterior walls to complete the beam restoration that was accomplished with the gunite application.

3. The crew was working on clearing out the site and applying the back fill where required to cover up the perimeter of the home.

4. The north side of the garage area was also excavated to expose the beams in this area and they were found to be intact. The Contractor was instructed to replace the fill material in these areas.

5. There was considerable amount of gravel and debris which will be back filled into the excavation at the perimeter of the house. This will provide a acceptable degree of percolation around the perimeter of the house.

2003 OCT -9 P 3:16
CITY OF HOLLYWOOD
BUILDING DIVISION

SWAYSLAND PROFESSIONAL ENGINEERING CONSULTANTS, INC.
1459 S. University Drive
Plantation, Florida 33324
Ph. 954-473-0043 Fax 954-473-0063
Toll Free 1-888-264-7732

By: Stanley R Swaysland 9-3-03
Stanley R. Swaysland, P.E.
FL Registration No. 29241
Threshold Inspector No. 1055

Permit No.)303226
Date: 8-25-03
Job No. 02181
Project: Foundation Repair
Location: Southwest Area
Contractor: Snapp Industries, Inc.
Weather: Partly Cloudy Temp. 89
Time: 1:50 PM
Present: Ed Salzano, SPEC
Rick Wessel, Contractor

To: James Bullock
P.O. Box 664
West Redding, CT 06896

Cc: City of Hollywood Bldg. Dept.
Snapp Industries, Inc.

1. The purpose of the inspection was to review the completed sandblasting and the installation of the gunite.

2. The Contractor was given the approval earlier today to begin the installation of the gunite on the piles supporting the beams, since these will have to be built up first before beginning the application on the joist and beams.

3. The sandblasting was inspected and found to be satisfactory, although there were a few areas which were not approved adjacent to where additional demolition is required. Several of the piles were not excavated to avoid removing all of the support in a given area. Four by four shoring posts have been installed throughout the crawl space.

4. The additional demolition will be required at the southeast corner of the structure, In addition to the piles described above, the beam at the access ramp at the west side of the structure will be demolished.

5. The equipment for gunite is running well today and the crew should be able to apply to more than 60% of the current area prepared.

2003 OCT -9 P 3:16
CITY OF HOLLYWOOD
BUILDING DIVISION

SWAYSLAND PROFESSIONAL ENGINEERING CONSULTANTS, INC.
1459 S. University Drive
Plantation, Florida 33324
Ph. 954-473-0043 Fax 954-473-0063
Toll Free 1-888-264-7732

By: Stanley R Swaysland 8-25-03
Stanley R. Swaysland, P.E.
FL Registration No. 29241
Threshold Inspector No. 1055

Permit No.)303226
Date: 8-13-03
Job No. 02181
Project: Foundation Repair
Location: Southwest Area
Contractor: Snapp Industries, Inc.
Weather: Partly Cloudy Temp. 91
Time:
Present: Ed Salzano, SPEC

To: James Bullock
P.O. Box 664
West Redding, CT 06896

Cc: City of Hollywood Bldg. Dept.
Snapp Industries, Inc.

1. The crew was not on the site today, although an inspection was completed on the north, east and south elevations.

2. Several areas were marked where additional demolition was needed to the underside of the beam and many of the piles. There are at least two piles which will have to be removed and the soil around the pile excavated to chase the corroded reinforcing steel down until good reinforcing is found.

3. The Contractor has excavated around the northeast and south sides of the north wing of the home and exposed corroded steel and spalling concrete in most of these locations. The early stages of demolition have been competed in these locations and the Contractor will be back to continue with detail work in the next few days.

4. It was necessary to remove a considerable amount of the gunite applied to the beam on the east side of the garage area where numerous cavities developed against the form board when the beam was shot with the gunite from the underside of the structure. The Contractor has already started to remove these loose areas to gain access to the cavities. Additional areas were marked that should be removed in order to completely fill the beam solid.

2003 OCT -9 P 3:19
CITY OF HOLLYWOOD
BUILDING DIVISION

SWAYSLAND PROFESSIONAL ENGINEERING CONSULTANTS, INC.
1459 S. University Drive
Plantation, Florida 33324
Ph. 954-473-0043 Fax 954-473-0063
Toll Free 1-888-264-7732

By: Stanley R. Swaysland 8-15-03
Stanley R. Swaysland, P.E.
FL Registration No. 29241
Threshold Inspector No. 1055

To: James Bullock
P.O. Box 664
West Redding, CT 06896

Permit No. 0303226
Date: 8-7-03
Job No. 02181
Project: Foundation Repair
Location: Southwest Area
Contractor: Snapp Industries, Inc.
Weather: Cloudy Temp. 93
Time: 2:20 PM
Present: Ed Salzano, SPEC
Rick Wessel, Contractor
Jackson, Contractor

Cc: City of Hollywood Bldg. Dept.
Snapp Industries, Inc.

1. The purpose of the inspection was to check on the progress of the gunite work in the crawl space under the home.

2. The Contractor was advised to check around the entire perimeter of the house to determine if the perimeter beam displays spalling only visible from the outside of the structure and occurring below grade. This means that the earth will have to be excavated on the east, south and portions of the north side in order to completely expose the outside edge of the beam.

3. The Contractor is in the process of applying the gunite to the beams and joists inspected two days ago for the sandblasting and coating of the reinforcing steel. The work is approximately 60% complete and the Contractor is in the process of shooting gunite onto the final few beams in the far northwest corner. Thus far they have shot over fifty bags of material today and only have about 6 more left before they complete the day.

4. The columns opened up a couple of days ago have been repaired first, in order to provide the needed support and to prevent over spray from getting on the unrepaired columns during the application to the joist and beams.

2003 OCT -9 P 3:19
CITY OF HOLLYWOOD
BUILDING DIVISION

SWAYSLAND PROFESSIONAL ENGINEERING CONSULTANTS, INC.
1459 S. University Drive
Plantation, Florida 33324
Ph. 954-473-0043 Fax 954-473-0063
Toll Free 1-888-264-7732

By: Stanley R Swaysland 8-13-03
Stanley R. Swaysland, PE
FL Registration No. 29241
Threshold Inspector No. 1055

To: James Bullock
P.O. Box 664
West Redding, CT 06896

Permit No. 0303226
Date: 8-5-03
Job No. 02181
Project: Foundation Repair
Location: Southwest Area
Contractor: Snapp Industries, Inc.
Weather: Cloudy Temp. 88
Time: 2:30 PM
Present: Ed Salzano, SPEC
Rick Wessel, Contractor
Jackson, Contractor

Cc: City of Hollywood Bldg. Dept.
Snapp Industries, Inc.

1. The purpose of the inspection was to check on the readiness of the central portion of the main structural foundation for the placement of the gunite materials.

2. There was additional demolition needed at the north entrance door where the Contractor stated that he would terminate the gunite approximately 4 to 6 feet to the west allowing for this additional work to be completed with the next round of demolition.

3. At the base of the central column there will be additional demolition required to remove large fragments that are below grade within this space and allow for a wider base on the column.

4. All of the reinforcing steel has been sandblasted and coated with the Sto Rust Inhibitive Coating.

CITY OF HOLLYWOOD
BUILDING DIVISION
2003 OCT -9 P 3:16

SWAYSLAND PROFESSIONAL ENGINEERING CONSULTANTS, INC.
1459 S. University Drive
Plantation, Florida 33324
Ph. 954-473-0043 Fax 954-473-0063
Toll Free 1-888-264-7732

By: Stanley R. Swaysland 7-30-03
Stanley R. Swaysland, PE
FL Registration No. 29243
Threshold Inspector No. 1055

To: James Bullock
1201 South Lake Drive
Hollywood, Florida 33019-1503

Permit No. 0303226
Date: 7-17-03
Job No. 02181
Project: Foundation Repair
Location: Southwest Area
Contractor: Snapp Industries, Inc.
Weather: Cloudy Temp. 86
Time: 1:00 PM
Present: Ed Salzano, SPEC
Rick Wessel, Contractor
Jackson, Contractor

Cc: City of Hollywood Bldg. Dept.
Snapp Industries, Inc.

1. The purpose of the inspection was to check on the final preparation of the bottom steel in the floor slab visible between the joists underneath the southwest portion of the structure.

2. The crew was given permission to begin the installation of the gunite to the columns in this particular area before the inspection began and in fact this gunite operation began during the inspection.

3. All of the exposed reinforcing visible on the underside of the slab has been sandblasted and will be coated before the application of the gunite.

4. The gunite will be applied to all of the columns in the area before addressing the beam bottoms, the joists and the underside of the slab.

5. The columns and beam bottoms will be built out about 10 to 20% larger than they were before to ensure adequate concrete coverage.

2003 OCT -9 P 3:19
CITY OF HOLLYWOOD
BUILDING DIVISION

SWAYSLAND PROFESSIONAL ENGINEERING CONSULTANTS, INC.
1459 S. University Drive
Plantation, Florida 33324
Ph. 954-473-0043 Fax 954-473-0063
Toll Free 1-888-264-7732

By: Stanley R Swaysland 7-25-03
Stanley R. Swaysland, P.E.
FL Registration No. 29241
Threshold Inspector No. 1055

To: James Bullock
1201 South Lake Drive
Hollywood, Florida 33019-1503

Permit No.)303226
Date: 7-16-03
Job No. 02181
Project: Foundation Repair
Location: Southwest Area
Contractor: Snapp Industries, Inc.
Weather: Partly Cloudy Temp. 90
Time: 1:30 PM
Present: Ed Salzano, SPEC
Rick Wessel, Contractor
Jackson, Contractor

Cc: City of Hollywood Bldg. Dept.
Snapp Industries, Inc.

1. The purpose of the inspection was to check on the progress of the concrete restoration at the southwest area of the foundation crawl space.

2. The Contractor has performed demolition on the bottom of every joist in the southwest area of the house and has also removed concrete from the perimeter of half of the piles, which extend up into the beams.

3. The Contractor was advised to double the number of shoring posts under the house, since several of the piles have been opened up with the demolition.

4. All of the steel that was exposed has been satisfactorily sandblasted and is ready for the application of the gunite.

5. Contractor was advised to also completely expose the rebar causing spalling concrete in the underside of the slab between the joists, since when the gunite is applied all of these areas will be covered and it will not be possible to address them later.

6. A follow up inspection will be required on Friday morning in order to inspect the demolition of the bars in the underside of the slab.

7. In a couple of instances additional demolition was required to chase reinforcing steel into a beam or column where a joist intersects. These areas will be left open, since they primarily occur where the restoration work will continue into other areas of the crawl space.

2003 OCT -9 P 3:19
CITY OF HOLLYWOOD
BUILDING DIVISION

T H E C I T Y O F H O L L Y W O O D, F L 1201_004
JOB RECORD REPORT

PERMIT # CONTRACTOR OWNER NAME
TRANSFERED FROM ARCHITECT JOB ADDRESS
TRANSFERED TO ENGINEER IMPROVEMENT DESCRIPTION
MASTER PERMIT #

B0405651 77CGC269C BULLOCK,JAMES M
***** COMPLETE HOME REPAIR & REMODEL 1201 N SOUTHLAKE DR _004
***** ADDITION & ALTERATIONS
B0405651 ADDITION & ALTERATIONS INT & EXT
X IMPROVEMENT VALUE....$ 48,000.00
PERMIT FEE.....$ 985.00
COUNTY SURCHARGE.....$ 16.80
GEORGE HERNANDEZ STATE SURCHARGE(RADON)..$ 2.99
PERMIT FEE DISCOUNT.....$ 0.00
PROCESS NUMBER..... 66066
JOB: BULLOCK DATE ISSUED..... 10/18/04
BUILDING- FLOORS: 0 UNITS: 0 C/D: N C OF O DATE..... 09/05/08
SQ-FT- BLDG: 299 ROOF: 340 MICROFILM NUMBER..... 0803353
WATER- GALN: 0 FEES: 0.00 OCCUPANCY GROUP..... R3
SEWER- GALN: 0 FEES: 0.00 CONSTRUCTION TYPE REQUIRED..... 6UNP
ASSEMBLY CAPACITY..... 0
TEMPORARY DAYS..... 0
FOLIO # 514214014640 LOT 10 BLOCK 27 SUBDIVISION- HOLLYWOOD LAKES SECTION

---------- I N S P E C T I O N H I S T O R Y ----------

INSPECTION DESCRIPTION	FLOOR	FULL PART	PASS FAIL	INSP DATE	INSP INITL	CODE SEC
DOOR/WINDOW BUCK ATTACHMENT	1	FULL	UNAC	01/27/05	RG	104.8
NO PAPERWORK-NO CONTRACTOR ON JOB--RG						
DOOR/WINDOW BUCK ATTACHMENT	1	FULL	PASS	02/02/05	RG	0
DR/WINDOW ATTACHMENT (ENG/PROD.APPR REQ)	1	FULL	PASS	02/08/05	RG	0
REINF STEEL-GRADE BEAM &/OR PILE CAP	1	FULL	PASS	06/28/05	RG	0
REINF STEEL-SLAB(SOIL POISONING?)	1	FULL	PASS	06/28/05	RG	0
PILING/PILE LOG	1	FULL	PASS	06/28/05	RG	0
REINF STEEL-TIE COLUMNS/TIE DOWNS	1	FULL	PASS	09/01/05	RG	0
REINF STEEL-TIE BEAMS(AS-BUILT SURVEY)	1	FULL	PASS	09/01/05	RG	0
FRAMING-ROOF(SHOP DRWGS APPROVED)	1	FULL	PASS	03/10/06	RG	0
ROOF SHEATHING(ROOFING PERMIT ISSUED)	1	FULL	PASS	03/10/06	RG	0
INFO-STRUCTURAL	0	FULL	PASS	04/17/07	MLS	0
OK TO EXT						
INSULATION	1	FULL	PASS	07/19/07	RG	0
FRAMING-WALL(EL,ME,PL APPROVED)	1	FULL	UNAC	08/10/07	RG	109.6
DRAFTSTOPPING IS INCOMPLETE--RG						
FRAMING-WALL(EL,ME,PL APPROVED)	1	FULL	PASS	08/21/07	RG	0
DRYWALL/LATHING	1	FULL	PASS	08/24/07	RG	109 6
NO PAPERWORK--NO ONE ANSWERS DOOR--RG						
WIRE LATH	1	FULL	PASS	03/10/08	RG	0
SITE GRADING(BEFORE LANDSCAPING)-ENG	1	FULL	PASS	05/12/08	DCS	0
LIMEROCK BASE-ENGINEERING	1	FULL	UNAC	05/12/08	ECF	155.
NO PLAN OR PERMIT POSTED.						

T H E C I T Y O F H O L L Y W O O D, F L 1201_004
JOB RECORD REPORT

PERMIT # CONTRACTOR OWNER NAME
TRANSFERED FROM ARCHITECT JOB ADDRESS
TRANSFERED TO ENGINEER IMPROVEMENT DESCRIPTION
MASTER PERMIT #

P0401338 CFC053929 BULLOCK,JAMES M
***** ALL STATE PLUMBING INC 1201 N SOUTHLAKE DR _004
***** PLUMBING WORK
B0405651 ADDITION & ALTERATIONS INT & EXT
X IMPROVEMENT VALUE....$ 1,000.00
PERMIT FEE.....$ 45.00
COUNTY SURCHARGE.....$ 0.35
X STATE SURCHARGE(RADON)..$ 0.00
PERMIT FEE DISCOUNT.....$ 0.00
PROCESS NUMBER..... 79375
JOB: BULLOCK DATE ISSUED..... 10/25/04
BUILDING- FLOORS: 0 UNITS: 0 C/D: N C OF O DATE..... 09/05/08
SQ-FT- BLDG: 0 ROOF: 0 MICROFILM NUMBER..... 0803353
WATER- GALN: 0 FEES: 0.00 OCCUPANCY GROUP.....
SEWER- GALN: 0 FEES: 0.00 CONSTRUCTION TYPE REQUIRED.....
ASSEMBLY CAPACITY..... 0
TEMPORARY DAYS..... 0
FOLIO # 514214014640 LOT 10 BLOCK 27 SUBDIVISION- HOLLYWOOD LAKES SECTION

---------- I N S P E C T I O N H I S T O R Y ----------

INSPECTION DESCRIPTION	FLOOR	FULL PART	PASS FAIL	INSP DATE	INSP INITL	CODE SEC
GROUND ROUGH-PLUMBING	0	PART	PASS	05/24/06	VS	0
NO CHANGE TO BATHROOM PLBG. ROUGH FOR						
GROUND ROUGH-PLUMBING	0	FULL	UNAC	04/23/08	VS	106.9
NO APPROVED PLUMBING DRAWINGS ON SITE.						
GROUND ROUGH-PLUMBING	0	FULL	PASS	05/01/08	CLB	0
NO PLBG DONE EXCEPT KITCHEN SINK RESET C						
TOP OUT-PLUMBING	1	FULL	PASS	05/01/08	CLB	0
NO WORK DONE EXCEPT KIT RESET CLB						
BACK FLOW-PLUMBING	1	FULL	PASS	05/01/08	CLB	0
NO PLBG DONE EXCEPT KIT SINK RESET CLB						
FINAL INSPECTION-PLUMBING	1	FULL	PASS	05/09/08	CB	0

T H E C I T Y O F H O L L Y W O O D, F L 1201_004
JOB RECORD REPORT

PERMIT # CONTRACTOR OWNER NAME
TRANSFERED FROM ARCHITECT JOB ADDRESS
TRANSFERED TO ENGINEER IMPROVEMENT DESCRIPTION
MASTER PERMIT #

M0401593 CAC057069 BULLOCK,JAMES M
***** THOMAS ARTHUR HANSEN 1201 N SOUTHLAKE DR _004
***** MECHANICAL WORK
B0405651 ADDITION & ALTERATIONS INT & EXT
X IMPROVEMENT VALUE....$ 8,000.00
PERMIT FEE.....$ 185.00
COUNTY SURCHARGE.....$ 2.80
X STATE SURCHARGE(RADON)..$ 0.00
PERMIT FEE DISCOUNT.....$ 0.00
PROCESS NUMBER..... 79377
JOB: BULLOCK DATE ISSUED..... 10/25/04
BUILDING- FLOORS: 0 UNITS: 0 C/D: N C OF O DATE..... 09/05/08
SQ-FT- BLDG: 0 ROOF: 0 MICROFILM NUMBER..... 0803353
WATER- GALN: 0 FEES: 0.00 OCCUPANCY GROUP.....
SEWER- GALN: 0 FEES: 0.00 CONSTRUCTION TYPE REQUIRED.....
ASSEMBLY CAPACITY..... 0
TEMPORARY DAYS..... 0
FOLIO # 514214014640 LOT 10 BLOCK 27 SUBDIVISION- HOLLYWOOD LAKES SECTION

---------- I N S P E C T I O N H I S T O R Y ----------

INSPECTION DESCRIPTION	FLOOR	FULL PART	PASS FAIL	INSP DATE	INSP INITL	CODE SEC
CONDENSATE LINES	1	FULL	PASS	09/19/07	RT	0
FINAL INSPECTION-MECHANICAL	1	FULL	PASS	09/19/07	RT	0
ROUGH DUCT-INSULATED	1	FULL	PASS	09/19/07	RT	0
VENTILATION	1	FULL	PASS	09/19/07	RT	0
MECHANICAL PIPING	1	FULL	PASS	09/19/07	RT	0

T H E C I T Y O F H O L L Y W O O D, F L 1201_004
JOB RECORD REPORT

PERMIT # CONTRACTOR OWNER NAME
TRANSFERED FROM ARCHITECT JOB ADDRESS
TRANSFERED TO ENGINEER IMPROVEMENT DESCRIPTION
MASTER PERMIT #

M0601391 CAC022445 BULLOCK,JAMES M
***** AIR CONDITIONING BY SPEEDY INC 1201 N SOUTHLAKE DR _004
***** A/C - CENTRAL - REPLACEMENT
B0405651 ADDITION & ALTERATIONS INT & EXT
X IMPROVEMENT VALUE....$ 11,300.00
PERMIT FEE.....$ 251.00
COUNTY SURCHARGE.....$ 4.20
X STATE SURCHARGE(RADON)..$ 0.00
PERMIT FEE DISCOUNT.....$ 0.00
PROCESS NUMBER..... 23812
JOB: BULLOCK DATE ISSUED..... 10/17/06
BUILDING- FLOORS: 0 UNITS: 0 C/D: N C OF O DATE..... 09/05/08
SQ-FT- BLDG: 0 ROOF: 0 MICROFILM NUMBER..... 0803353
WATER- GALN: 0 FEES: 0.00 OCCUPANCY GROUP.....
SEWER- GALN: 0 FEES: 0.00 CONSTRUCTION TYPE REQUIRED.....
ASSEMBLY CAPACITY..... 0
TEMPORARY DAYS..... 0
FOLIO # 514214014640 LOT 10 BLOCK 27 SUBDIVISION- HOLLYWOOD LAKES SECTION

---------- I N S P E C T I O N H I S T O R Y ----------

INSPECTION DESCRIPTION	FLOOR	FULL PART	PASS FAIL	INSP DATE	INSP INITL	CODE SEC
FINAL INSPECTION-MECHANICAL	1	PART	PASS	08/09/07	MDB	0
1.FINAL INSPECTION CALLED IN ERROR.						
FINAL INSPECTION-MECHANICAL	1	PART	PASS	08/10/07	MDB	0
1.ROUGH DUCT , COND. LINE AND REF.LINES						
FINAL INSPECTION-MECHANICAL	1	PART	PASS	09/13/07	MDB	0
1.ALL ITEMS COMPLETED EXCEPT KITCHEN EXH						
FINAL INSPECTION-MECHANICAL	1	FULL	PASS	09/18/07	RT	0

T H E C I T Y O F H O L L Y W O O D, F L 1201_004
JOB RECORD REPORT

PERMIT # CONTRACTOR OWNER NAME
TRANSFERED FROM ARCHITECT JOB ADDRESS
TRANSFERED TO ENGINEER IMPROVEMENT DESCRIPTION
MASTER PERMIT #

E0402490 98CME1850 BULLOCK,JAMES M
***** F S H ELECTRICAL SERVICES INC 1201 N SOUTHLAKE DR _004
***** TELEPHONE SYSTEM
B0405651 ADDITION & ALTERATIONS INT & EXT
X IMPROVEMENT VALUE....$ 1,000.00
PERMIT FEE.....$ 45.00
COUNTY SURCHARGE.....$ 0.35
X STATE SURCHARGE(RADON)..$ 0.00
PERMIT FEE DISCOUNT.....$ 0.00
PROCESS NUMBER..... 79380
JOB: BULLOCK DATE ISSUED..... 10/25/04
BUILDING- FLOORS: 0 UNITS: 0 C/D: N C OF O DATE..... 09/05/08
SQ-FT- BLDG: 0 ROOF: 0 MICROFILM NUMBER..... 0803353
WATER- GALN: 0 FEES: 0.00 OCCUPANCY GROUP.....
SEWER- GALN: 0 FEES: 0.00 CONSTRUCTION TYPE REQUIRED.....
ASSEMBLY CAPACITY..... 0
TEMPORARY DAYS..... 0
FOLIO # 514214014640 LOT 10 BLOCK 27 SUBDIVISION- HOLLYWOOD LAKES SECTION

---------- I N S P E C T I O N H I S T O R Y ----------

INSPECTION DESCRIPTION	FLOOR	FULL PART	PASS FAIL	INSP DATE	INSP INITL	CODE SEC
ROUGH-ELECTRIC	1	PART	PASS	02/08/06	BF	0
POSTED TO KEEP PERMIT ACTTIVE						
ROUGH-ELECTRIC	1	FULL	PASS	10/19/06	BF	0
FINAL-ELECTRIC	1	FULL	PASS	04/16/08	JS	0

T H E C I T Y O F H O L L Y W O O D, F L 1201_004
JOB RECORD REPORT

PERMIT # CONTRACTOR OWNER NAME
TRANSFERED FROM ARCHITECT JOB ADDRESS
TRANSFERED TO ENGINEER IMPROVEMENT DESCRIPTION
MASTER PERMIT #

E0402491 98CME1850 BULLOCK,JAMES M
***** F S H ELECTRICAL SERVICES INC 1201 N SOUTHLAKE DR _004
***** ANTENNAE-SATELLITE DISH-ELECTRICAL
B0405651 ADDITION & ALTERATIONS INT & EXT
X IMPROVEMENT VALUE....$ 1,000.00
PERMIT FEE.....$ 45.00
COUNTY SURCHARGE.....$ 0.35
X STATE SURCHARGE(RADON)..$ 0.00
PERMIT FEE DISCOUNT.....$ 0.00
PROCESS NUMBER..... 79378
JOB: BULLOCK DATE ISSUED..... 10/25/04
BUILDING- FLOORS: 0 UNITS: 0 C/D: N C OF O DATE..... 09/05/08
SQ-FT- BLDG: 0 ROOF: 0 MICROFILM NUMBER..... 0803353
WATER- GALN: 0 FEES: 0.00 OCCUPANCY GROUP.....
SEWER- GALN: 0 FEES: 0.00 CONSTRUCTION TYPE REQUIRED.....
ASSEMBLY CAPACITY..... 0
TEMPORARY DAYS..... 0
FOLIO # 514214014640 LOT 10 BLOCK 27 SUBDIVISION- HOLLYWOOD LAKES SECTION

---------- I N S P E C T I O N H I S T O R Y ----------

INSPECTION DESCRIPTION	FLOOR	FULL PART	PASS FAIL	INSP DATE	INSP INITL	CODE SEC
ROUGH-ELECTRIC	1	PART	PASS	02/08/06	BF	0
POSTED TO KEEP PERMIT ACTIVE						
ROUGH-ELECTRIC	1	FULL	PASS	10/19/06	BF	0
FINAL-ELECTRIC	1	FULL	PASS	04/17/08	JS	0

APR 14 '10

T H E C I T Y O F H O L L Y W O O D, F L 1201_004
JOB RECORD REPORT

PERMIT # CONTRACTOR OWNER NAME
TRANSFERED FROM ARCHITECT JOB ADDRESS
TRANSFERED TO ENGINEER IMPROVEMENT DESCRIPTION
MASTER PERMIT #

E0402421 98CME1850 BULLOCK,JAMES M
***** F S H ELECTRICAL SERVICES INC 1201 N SOUTHLAKE DR _004
***** ELECTRICAL WORK
B0405651 ADDITION & ALTERATIONS INT & EXT
X IMPROVEMENT VALUE....$ 8,000.00
PERMIT FEE.....$ 185.00
COUNTY SURCHARGE.....$ 2.80
X STATE SURCHARGE(RADON)..$ 0.00
PERMIT FEE DISCOUNT.....$ 0.00
PROCESS NUMBER..... 78894
JOB: BULLOCK DATE ISSUED..... 10/18/04
BUILDING- FLOORS: 0 UNITS: 0 C/D: N C OF O DATE..... 09/05/08
SQ-FT- BLDG: 0 ROOF: 0 MICROFILM NUMBER..... 0803353
WATER- GALN: 0 FEES: 0.00 OCCUPANCY GROUP.....
SEWER- GALN: 0 FEES: 0.00 CONSTRUCTION TYPE REQUIRED.....
ASSEMBLY CAPACITY..... 0
TEMPORARY DAYS..... 0
FOLIO # 514214014640 LOT 10 BLOCK 27 SUBDIVISION- HOLLYWOOD LAKES SECTION

---------- I N S P E C T I O N H I S T O R Y ----------

INSPECTION DESCRIPTION	FLOOR	FULL PART	PASS FAIL	INSP DATE	INSP INITL	CODE SEC
UNDERGROUND PIPING-ELECTRIC	0	FULL	PASS	06/07/05	BF	0
ROUGH-ELECTRIC	1	PART	PASS	02/08/06	BF	0
POSTED TO KEEP PERMIT ACTIVE						
SERVICE CHANGE-ELECTRIC	1	FULL	PASS	04/19/06	BF	0
ROUGH-ELECTRIC	1	FULL	PASS	10/19/06	BF	0
FINAL-ELECTRIC	1	FULL	PASS	04/21/08	JS	0
FINAL-ELECTRIC	1	FULL	PASS	04/21/08	JS	0

CITY OF HOLLYWOOD FLORIDA

DEPT. OF BUILDING AND ENGINEERING SERVICES
BUILDING DIVISION

CERTIFICATE OF OCCUPANCY - FINAL

OWNER/OCCUPIED BY: BULLOCK
FOLIO NUMBER: 514214014640
ADDRESS: 1201 N SOUTHLAKE DR

LEGAL DESCRIPTION:
HOLLYWOOD LAKES SEC 1-32 B LOT 10,11 TOGET WITH E 185 OF ALLEY,MEASURED FROM W/L OF S 12 AVE & ABUTTING N/L OF LOT 11

GROUP OCCUPANCY: R3
CONSTRUCTION TYPE: 6UNP
MAXIMUM ASSEMBLY CAPACITY:
WORK DESCRIPTION: ADDITION & ALTERATIONS

MASTER PERMIT: B0405651 OTHER MASTERS EXIST AT THIS ADDRESS

SUB PERMITS: E0402421 E0402491 E0402490 M0601391 M0401593 P0401338

COMMENTS:

APPROVALS:

BUILDING: ____ ELECTRICAL: ____ MECHANICAL: ____ PLUMBING: ____

ZONING: ____ FIRE: N/A ENGINEERING: ____ UTILITY: ____ SWM: N/A

GREG O'HARE
Chief Building Official
DATE OF ISSUANCE 9/4/03

U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expires February 28, 2009

Important: Read the instructions on pages 1-8.

SECTION A - PROPERTY INFORMATION

For Insurance Company Use:

A1. Building Owner's Name BULLOCK, JAMES

Policy Number

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1201 NORTH SOUTH LAKE DRIVE

Company NAIC Number

City HOLLYWOOD State FL ZIP Code 33020

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOTS 10 AND 11, BLOCK 27 HOLLYWOOD LAKES SECTION PLAT BOOK 1 PG. 32, BROWARD COUNTY RECORDS

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL

A5. Latitude/Longitude: Lat. 26°00'33.84" Long. 80°07'51.06" Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 1

A8. For a building with a crawl space or enclosure(s), provide
- a) Square footage of crawl space or enclosure(s) 3,312 sq ft
- b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade 0
- c) Total net area of flood openings in A8.b 0 sq in

A9. For a building with an attached garage, provide:
- a) Square footage of attached garage 400 sq ft
- b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade 0
- c) Total net area of flood openings in A9.b 0 sq in

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
HOLLYWOOD 125113	BROWARD	FLORIDA

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
12011C0317	G	10-2-1997	7-21-1995	AE	7

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other (Describe) ____

B11. Indicate elevation datum used for BFE in Item B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe) ____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date ____ ☐ CBRS ☐ OPA

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-g below according to the building diagram specified in Item A7.

Benchmark Utilized CITY OF HOLLYWOOD Vertical Datum NGVD29

Conversion/Comments ____

			Check the measurement used.
a)	Top of bottom floor (including basement, crawl space, or enclosure floor)	6.1	☒ feet ☐ meters (Puerto Rico only)
b)	Top of the next higher floor	6.6	☒ feet ☐ meters (Puerto Rico only)
c)	Bottom of the lowest horizontal structural member (V Zones only)	N/A	☐ feet ☐ meters (Puerto Rico only)
d)	Attached garage (top of slab)	4.3	☒ feet ☐ meters (Puerto Rico only)
e)	Lowest elevation of machinery or equipment servicing the building (Describe type of equipment in Comments)	6.6	☒ feet ☐ meters (Puerto Rico only)
f)	Lowest adjacent (finished) grade (LAG)	3.8	☒ feet ☐ meters (Puerto Rico only)
g)	Highest adjacent (finished) grade (HAG)	4.8	☒ feet ☐ meters (Puerto Rico only)

APR 14 2008

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

☒ Check here if comments are provided on back of form.

Certifier's Name STEPHEN K. SEELEY License Number LS4574

Title PROFESSIONAL SURVEYOR & MAPPER Company Name GIBBS LAND SURVEYORS

Address 2131 HWD. BLVD., STE. 204 City HOLLYWOOD State FL ZIP Code 33020

Signature [signature] Date 8/13/08 Telephone 954-923-7666

Building Photographs

See Instructions for Item A6.

	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1201 NORTH SOUTH LAKE DRIVE	Policy Number
City HOLLYWOOD State FL ZIP Code 33020	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page, following.

AUGUST 7, 2008 LEFT SIDE VIEW

AUGUST 7, 2008 FRONT VIEW

APR 14 2009

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 08 / 11 / 08
Process Number: 66066
E-Mail Address: COMPLETEHREPAIR@BELLSOUTH.COM
Project/Reference: 1201 N SOUTHLAKE DRIVE.

For Review By: (check ☑ all applicable spaces)

Division: ☑ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: COMPLETE HOME REPAIR
Address: 8362 PINES BLVD. SUITE 304 PEMBROKE PINES FL 33024
E-Mail Address: COMPLETEHREPAIR@BELLSOUTH.COM
Contact: KAREN
Phone: 954 684-4816 Fax( )

WE ARE SUBMITTING TO YOU (check ☑)

Via ☑ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

☐ E-mail
☐ initial (original) sets of plans
☐ corrected (non-permitted) plans
☐ revised (permitted) plans
☐ shop drawings: ☐ structural steel
☐ wood trusses
☐ glass/glazing
☐ product approvals
☐ fire protection
☐ spot survey
☑ final survey
☐ energy (insulation) certification
☐ special inspector letter
☐ soil report
☐ inspection reports
☐ energy calcs
☐ site plans
☐ other

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #	☐ Fire sheet #
☐ Structural sheet #	☐ Zoning sheet #
☐ Electrical sheet #	☐ Engineering sheet #
☐ Mechanical sheet #	☐ RCC sheet #
☐ Plumbing sheet #	☐ Drainage sheet #
☐ Water sheet #	☐ Sewer sheet #

Special Instructions:

For Departmental Use Only:

Received by: Date: 8/11/08

CFN # 104461070, OR BK 38475 Page 655, Page 1 of 1, Recorded 11/03/2004 at 03:26 PM, Broward County Commission, Deputy Clerk 1004

PERMIT # B0405651

PROCESS # 66066

* ATTN.: LOUIS

James Bullock

760 N. South Lake Drive, Hollywood, FL 33019

NOTICE OF COMMENCEMENT

1. Property [illegible] Lot 10 Block 27 Hollywood Lakes Section

2. General Description of Improvement: Room Addition and Alterations

3. Property Owner Name: James Bullock
Address: 760 N. South Lake Drive, Hollywood, FL 33019
Interest in property: Fee Simple
Name and address of fee simple titleholder (if other than owner):

4. Contractor Name: William Seay Inc.
Address: 2020 Taylor St. #2 Hollywood, FL 33020
Phone Number: 954-923-2288 Fax (Optional): 954-923-3581

5. a. Surety Bond Amount: NONE
b. Amount of Bond:
Phone Number:

6. Lender Name: NONE
Address:
Phone Number:

7. Persons within the State of Florida designated by owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes.
Name: NONE
Address:
Phone Number:

8. In addition to himself, owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
Name: NONE
Address:
Phone Number:

9. Expiration date of notice: [illegible]

* Owner Signature: [signature] Owner Signature:
Printed name: James Bullock Printed name:

SIGNED TO AND ACKNOWLEDGED before me on 29 day of October, 2004 by:
James M Bullock
personally known to me or produced Driver License as identification.

FL DL # B420 453 46 296 0

* Notary Signature: Elsa Maria Aponte
Printed name: Elsa Maria Aponte My commission expires: Dec. 31, 2005

I hereby certify this document to be a true, correct and complete copy of the record filed in my office. Dated this 16 day of Nov, 2004
Roger DeBlaker, County Administrator
By: [signature] Deputy Clerk

Return recorded document to: James Bullock
Address: 760 N. South Lake Drive
Hollywood, FL 33019

FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM

O.M.B. No. 3067-0077
Expires July 31, 2002

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1 - 7.

SECTION A - PROPERTY OWNER INFORMATION

For Insurance Company Use:

BUILDING OWNER'S NAME: JAMES M BULLOCK

Policy Number:

BUILDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO.: 1201 N SOUTHLAKE DRIVE

Company NAIC Number:

CITY: HOLLYWOOD STATE: FL ZIP CODE: 33019

PROPERTY DESCRIPTION (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)

BUILDING USE (e.g., Residential, Non-residential, Addition, Accessory, etc. Use Comments section if necessary.)

LATITUDE/LONGITUDE (OPTIONAL) (##° - ## - ##.## or ##.#####°) HORIZONTAL DATUM: ☐ NAD 1927 ☐ NAD 1983 SOURCE: ☐ GPS (Type): ☐ USGS Quad Map ☐ Other:

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP COMMUNITY NAME & COMMUNITY NUMBER	B2. COUNTY NAME	B3. STATE
125113 HOLLYWOOD	BROWARD	FLORIDA

B4. MAP AND PANEL NUMBER	B5. SUFFIX	B6. FIRM INDEX DATE	B7. FIRM PANEL EFFECTIVE/REVISED DATE	B8. FLOOD ZONE(S)	B9. BASE FLOOD ELEVATION(S) (Zone AO, use depth of flooding)
C317	G	7/21/95	10/2/97	AE	7.0

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other (Describe):

B11. Indicate the elevation datum used for the BFE in B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe):

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date:

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Building Diagram Number 1 (Select the building diagram most similar to the building for which this certificate is being completed - see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)

C3. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO
Complete Items C3a-i below according to the building diagram specified in Item C2. State the datum used. If the datum is different from the datum used for the BFE in Section B, convert the datum to that used for the BFE. Show field measurements and datum conversion calculation. Use the space provided or the Comments area of Section D or Section G, as appropriate, to document the datum conversion.

Datum _____ Conversion/Comments _____

Elevation reference mark used _____ Does the elevation reference mark used appear on the FIRM? ☐ Yes ☐ No

☐ a) Top of bottom floor (including basement or enclosure)	6.45	ft.(m)
☐ b) Top of next higher floor	7.0	ft.(m)
☐ c) Bottom of lowest horizontal structural member (V zones only)	N/A	ft.(m)
☐ d) Attached garage (top of slab)	4.47	ft.(m)
☐ e) Lowest elevation of machinery and/or equipment servicing the building	N/A	ft.(m)
☐ f) Lowest adjacent grade (LAG)	4.37	ft.(m)
☐ g) Highest adjacent grade (HAG)	4.53	ft.(m)
☐ h) No. of permanent openings (flood vents) within 1 ft. above adjacent grade	0	
☐ i) Total area of all permanent openings (flood vents) in C3h	0	sq. in. (sq. cm)

License Number, Embossed Seal, Signature, and Date

STATE OF FLORIDA
P.S.M. NO. #5101

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information.
I certify that the information in Sections A, B, and C on this certificate represents my best efforts to interpret the data available.
I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME: MIGUEL ESPINOSA LICENSE NUMBER: 5101

TITLE: PROFFESSIONAL SURVEYOR & MAPPER COMPANY NAME: MIGUEL ESPINOSA LAND SURVEYING, INC.

ADDRESS: 6494 S.W. 24 Street CITY: MIAMI STATE: FL ZIP CODE: 33155

SIGNATURE: DATE: 4/27/01 TELEPHONE: 305-740-3319

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 08/08/08
Process Number: 66066
E-Mail Address: COMPLETE H REPAIR @ BELLSOUTH.COM
Project/Reference: 1201 N SOUTHLAKE DRIVE.

For Review By: (check ☑ all applicable spaces)

Division: ☑ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: COMPLETE HOME REPAIR
Address: 8362 PINES BLVD. SUITE 304 PEMBROKE PINES FL 33024
E-Mail Address: COMPLETE H REPAIR @ BELLSOUTH.COM
Contact: KARIN
Phone: 954 684-4816 Fax( )

WE ARE SUBMITTING TO YOU (check ☑)

Via ☑ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

☐ E-mail
☐ initial (original) sets of plans
☐ corrected (non-permitted) plans
☐ revised (permitted) plans
☐ shop drawings: ☐ structural steel
☐ wood trusses
☐ glass/glazing
☐ product approvals
☐ fire protection
☐ spot survey
☑ final survey
☐ energy (insulation) certification
☐ special inspector letter
☐ soil report
☐ inspection reports
☐ energy calcs
☐ site plans
☐ other

1st Submittal

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #	☐ Fire sheet #
☐ Structural sheet #	☐ Zoning sheet #
☐ Electrical sheet #	☐ Engineering sheet #
☐ Mechanical sheet #	☐ RCC sheet #
☐ Plumbing sheet #	☐ Drainage sheet #
☐ Water sheet #	☐ Sewer sheet #

Special Instructions:

For Departmental Use Only:

Received by: Date: 8/8/8

U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expires February 28, 2009

Important: Read the instructions on pages 1-8.

SECTION A - PROPERTY INFORMATION

For Insurance Company Use:

A1. Building Owner's Name BULLOCK, JAMES

Policy Number

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1201 NORTH SOUTH LAKE DRIVE

Company NAIC Number

City HOLLYWOOD State FL ZIP Code 33020

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOTS 10 AND 11, BLOCK 27 HOLLYWOOD LAKES SECTION PLAT BOOK 1 PG. 32, BROWARD COUNTY RECORDS

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL

A5. Latitude/Longitude: Lat. 26°00'33.84" Long. 80°07'51.06" Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 1

A8. For a building with a crawl space or enclosure(s), provide
- a) Square footage of crawl space or enclosure(s) 3,312 sq ft
- b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade 0
- c) Total net area of flood openings in A8.b 0 sq in

A9. For a building with an attached garage, provide:
- a) Square footage of attached garage 400 sq ft
- b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade 0
- c) Total net area of flood openings in A9.b 0 sq in

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
HOLLYWOOD 125113	BROWARD	FLORIDA

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
12011C0317	G	10-2-1997	7-21-1995	AE	7

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other (Describe) ____

B11. Indicate elevation datum used for BFE in Item B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe) ____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date ____ ☐ CBRS ☐ OPA

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-g below according to the building diagram specified in Item A7.

Benchmark Utilized CITY OF HOLLYWOOD Vertical Datum NGVD29

Conversion/Comments ____

			Check the measurement used.	
a)	Top of bottom floor (including basement, crawl space, or enclosure floor)	6.1	☒ feet ☐ meters (Puerto Rico only)	
b)	Top of the next higher floor	6.6	☒ feet ☐ meters (Puerto Rico only)	
c)	Bottom of the lowest horizontal structural member (V Zones only)	N/A	☐ feet ☐ meters (Puerto Rico only)	
d)	Attached garage (top of slab)	4.3	☒ feet ☐ meters (Puerto Rico only)	
e)	Lowest elevation of machinery or equipment servicing the building (Describe type of equipment in Comments)	6.6	☒ feet ☐ meters (Puerto Rico only)	
f)	Lowest adjacent (finished) grade (LAG)	3.8	☒ feet ☐ meters (Puerto Rico only)	
g)	Highest adjacent (finished) grade (HAG)	4.8	☒ feet ☐ meters (Puerto Rico only)	

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

☒ Check here if comments are provided on back of form.

Certifier's Name STEPHEN K. SEELEY License Number LS4574

Title PROFESSIONAL SURVEYOR & MAPPER Company Name GIBBS LAND SURVEYORS

Address 2131 HWD. BLVD., STE. 204 City HOLLYWOOD State FL ZIP Code 33020

Signature [signature] Date 8/13/08 Telephone 954-923-7666

PLACE SEAL

FORM 600A-2001 Tested sealed ducts must be certified in this house.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**BULLOCK RES RENOVATION**	Builder:	
Address:	**1201 N. SOUTHLAKE DRIVE**	Permitting Office:	**HOLLYWOOD**
City, State:	**HOLLYWOOD, FL 33009-**	Permit Number:	
Owner:		Jurisdiction Number:	**162100**
Climate Zone:	**South**		

1.	New construction or existing		Addition		
2.	Single family or multi-family		Single family		
3.	Number of units, if multi-family		1		
4.	Number of Bedrooms		2		
5.	Is this a worst case?		No		
6.	Conditioned floor area (ft²)		2910 ft²		
7.	Glass area & type	Single Pane	Double Pane		
a.	Clear glass, default U-factor	0.0 ft²	0.0 ft²		
b.	Default tint	0.0 ft²	0.0 ft²		
c.	Labeled U or SHGC	841.0 ft²	0.0 ft²		
8.	Floor types				
a.	Raised Concrete		ft²		
b.	N/A				
c.	N/A				
9.	Wall types				
a.	Concrete, Int Insul, Exterior		R=0.0, 2224.0 ft²		
b.	Frame, Steel, Adjacent		R=11.0, 110.0 ft²		
c.	Concrete, Int Insul, Adjacent		R=0.0, 200.0 ft²		
d.	N/A				
e.	N/A				
10.	Ceiling types				
a.	Under Attic		R=19.0, 2910.0 ft²		
b.	N/A				
c.	N/A				
11.	Ducts(Leak Free)				
a.	Sup: Unc. Ret: Con. AH: Interior		Sup. R=6.0, 60.0 ft²		
b.	2 Others		61.0 ft		
12.	Cooling systems				
a.	Central Unit		Cap: 30.0 kBtu/hr		
			SEER: 12.00		
b.	Central Unit		Cap: 48.0 kBtu/hr		
			SEER: 12.00		
c.	Central Unit		Cap: 18.0 kBtu/hr		
			SEER: 11.50		
13.	Heating systems				
a.	Electric Strip		Cap: 20.0 kBtu/hr		
			COP: 1.00		
b.	Electric Strip		Cap: 33.0 kBtu/hr		
			COP: 1.00		
c.	Electric Heat Pump		Cap: 16.9 kBtu/hr		
			HSPF: 6.80		
14.	Hot water systems				
a.	Natural Gas		Cap: 50.0 gallons		
			EF: 0.65		
b.	N/A				
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)				
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		PT.		

Glass/Floor Area: 0.29

Total as-built points: 39001
Total base points: 40318

PASS

APR 14 2004

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: 2-14-04

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA — IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

FORM 600A-2001 Tested sealed ducts must be certified in this house.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**BULLOCK RES RENOVATION**	Builder:	
Address:	**1201 N. SOUTHLAKE DRIVE**	Permitting Office:	**HOLLYWOOD**
City, State:	**HOLLYWOOD, FL 33009-**	Permit Number:	
Owner:		Jurisdiction Number:	**162100**
Climate Zone:	**South**		

1. New construction or existing		Addition	
2. Single family or multi-family		Single family	
3. Number of units, if multi-family		1	
4. Number of Bedrooms		2	
5. Is this a worst case?		No	
6. Conditioned floor area (ft²)		2910 ft²	
7. Glass area & type	Single Pane	Double Pane	
a. Clear glass, default U-factor	0.0 ft²	0.0 ft²	
b. Default tint	0.0 ft²	0.0 ft²	
c. Labeled U or SHGC	841.0 ft²	0.0 ft²	
8. Floor types			
a. Raised Concrete		ft²	
b. N/A			
c. N/A			
9. Wall types			
a. Concrete, Int Insul, Exterior		R=0.0, 2224.0 ft²	
b. Frame, Steel, Adjacent		R=11.0, 110.0 ft²	
c. Concrete, Int Insul, Adjacent		R=0.0, 200.0 ft²	
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic		R=19.0, 2910.0 ft²	
b. N/A			
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Con. AH: Interior		Sup. R=6.0, 60.0 ft²	
b. 2 Others		61.0 ft	

12. Cooling systems		
a. Central Unit	Cap: 30.0 kBtu/hr	
	SEER: 12.00	
b. Central Unit	Cap: 48.0 kBtu/hr	
	SEER: 12.00	
c. Central Unit	Cap: 18.0 kBtu/hr	
	SEER: 11.50	
13. Heating systems		
a. Electric Strip	Cap: 20.0 kBtu/hr	
	COP: 1.00	
b. Electric Strip	Cap: 33.0 kBtu/hr	
	COP: 1.00	
c. Electric Heat Pump	Cap: 16.9 kBtu/hr	
	HSPF: 6.80	
14. Hot water systems		
a. Natural Gas	Cap: 50.0 gallons	
	EF: 0.65	
b. N/A		
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT.	

Glass/Floor Area: 0.29

Total as-built points: 39001

Total base points: 40318

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: 2-19-04

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

FORM 600A-2001 Tested sealed ducts must be certified in this house.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **1201 N. SOUTHLAKE DRIVE, HOLLYWOOD, FL, 33009-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	2910.0	32.50	17023.5	Single, SHGC=.39	N	2.5	8.0	89.0	13.18	0.91	1070.1
				Single, SHGC=.39	S	2.5	8.0	66.0	29.08	0.81	1562.8
				Single, SHGC=.39	W	2.5	8.0	336.0	30.89	0.87	9071.1
				Single, SHGC=.39	E	2.5	8.0	130.0	35.25	0.87	3998.2
				Single, SHGC=.39	E	2.5	10.0	98.0	35.25	0.92	3169.6
				Single, SHGC=.39	S	20.0	7.0	24.0	29.08	0.43	298.7
				Single, SHGC=.39	S	8.0	10.0	54.0	29.08	0.56	874.7
				Single, SHGC=.39	W	2.5	10.0	44.0	30.89	0.92	1247.6
				As-Built Total:				**841.0**			**21292.8**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	310.0	1.00	310.0	Concrete, Int Insul, Exterior			0.0	2224.0	4.20		9340.8
Exterior	2224.0	2.70	6004.8	Frame, Steel, Adjacent			11.0	110.0	1.60		176.0
				Concrete, Int Insul, Adjacent			0.0	200.0	1.90		380.0
Base Total:	**2534.0**		**6314.8**	**As-Built Total:**				**2534.0**			**9896.8**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	40.0	2.60	104.0	Exterior Insulated				40.0	6.40		256.0
Exterior	40.0	6.40	256.0	Adjacent Wood				40.0	3.80		152.0
Base Total:	**80.0**		**360.0**	**As-Built Total:**				**80.0**			**408.0**
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points
Under Attic	2910.0	2.80	8148.0	Under Attic			19.0	2910.0	3.72 X 1.00		10825.2
Base Total:	**2910.0**		**8148.0**	**As-Built Total:**				**2910.0**			**10825.2**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	0.0(p)	0.0	0.0	Raised Concrete			0.0	2910.0	0.80		2328.0
Raised	2910.0	-2.16	-6285.6								
Base Total:			**-6285.6**	**As-Built Total:**				**2910.0**			**2328.0**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	2910.0	18.79	54678.9					2910.0	18.79		54678.9

FORM 600A-2001 Tested sealed ducts must be certified in this house.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **1201 N. SOUTHLAKE DRIVE, HOLLYWOOD, FL, 33009-** PERMIT #:

BASE			AS-BUILT					
Summer Base Points:		**80239.6**	**Summer As-Built Points:**					**99429.7**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			99429.7	0.313	(1.067 x 1.000 x 0.90)	0.284	0.950	8050.9
			99429.7	0.500	(1.067 x 1.000 x 0.90)	0.284	0.950	12881.4
			99429.7	0.188	(1.000 x 1.000 x 0.90)	0.297	0.950	5040.6
80239.6	**0.4266**	**34230.2**	**99429.7**	**1.00**	**0.960**	**0.286**	**0.950**	**25965.7**

FORM 600A-2001 Tested sealed ducts must be certified in this house.

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **1201 N. SOUTHLAKE DRIVE, HOLLYWOOD, FL, 33009-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	2910.0	2.36	1236.2	Single, SHGC=.39	N	2.5	8.0	89.0	6.29	0.99	553.1
				Single, SHGC=.39	S	2.5	8.0	66.0	5.47	1.04	375.8
				Single, SHGC=.39	W	2.5	8.0	336.0	5.99	1.00	2013.4
				Single, SHGC=.39	E	2.5	8.0	130.0	5.70	1.03	761.4
				Single, SHGC=.39	E	2.5	10.0	98.0	5.70	1.02	570.5
				Single, SHGC=.39	S	20.0	7.0	24.0	5.47	1.44	189.5
				Single, SHGC=.39	S	8.0	10.0	54.0	5.47	1.27	376.2
				Single, SHGC=.39	W	2.5	10.0	44.0	5.99	1.00	263.3
				As-Built Total:				**841.0**			**5103.3**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	310.0	0.50	155.0	Concrete, Int Insul, Exterior	0.0	2224.0	1.90	4225.6
Exterior	2224.0	0.60	1334.4	Frame, Steel, Adjacent	11.0	110.0	0.80	88.0
				Concrete, Int Insul, Adjacent	0.0	200.0	0.70	140.0
Base Total:	**2534.0**		**1489.4**	**As-Built Total:**		**2534.0**		**4453.6**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	40.0	1.30	52.0	Exterior Insulated	40.0	1.80	72.0
Exterior	40.0	1.80	72.0	Adjacent Wood	40.0	1.90	76.0
Base Total:	**80.0**		**124.0**	**As-Built Total:**	**80.0**		**148.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM	= Points
Under Attic	2910.0	0.10	291.0	Under Attic	19.0	2910.0	0.14 X 1.00	407.4
Base Total:	**2910.0**		**291.0**	**As-Built Total:**		**2910.0**		**407.4**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	0.0(p)	0.0	0.0	Raised Concrete	0.0	2910.0	1.00	2910.0
Raised	2910.0	-0.28	-814.8					
Base Total:			**-814.8**	**As-Built Total:**		**2910.0**		**2910.0**

INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points
	2910.0	-0.06	-174.6		2910.0	-0.06	-174.6

FORM 600A-2001 Tested sealed ducts must be certified in this house.

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **1201 N. SOUTHLAKE DRIVE, HOLLYWOOD, FL, 33009-** PERMIT #:

BASE			AS-BUILT						
Winter Base Points:		**2151.2**	**Winter As-Built Points:**						**12847.7**
Total Winter Points	X System Multiplier	= Heating Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			12847.7	0.286	(1.085 x 1.000 x 0.91)	1.000	0.950	3445.8
			12847.7	0.472	(1.085 x 1.000 x 0.91)	1.000	0.950	5685.6
			12847.7	0.242	(1.000 x 1.000 x 0.91)	0.501	0.950	1460.1
2151.2	**0.6274**	**1349.6**	**12847.7**	**1.00**	**0.987**	**0.879**	**0.950**	**10591.5**

APR 14

FORM 600A-2001 Tested sealed ducts must be certified in this house.

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **1201 N. SOUTHLAKE DRIVE, HOLLYWOOD, FL, 33009-** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank Ratio	X Multiplier	X Credit Multiplier	= Total
2		2369.00	4738.0	50.0	0.65	2		1.00	1221.97	1.00	2443.9
				As-Built Total:							**2443.9**

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points		Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	
34230	**1350**	**4738**	**40318**		**25966**	**10592**	**2444**	**39001**	

PASS

FORM 600A-2001

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **1201 N. SOUTHLAKE DRIVE, HOLLYWOOD, FL, 33009-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	✓
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	✓
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	✓
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	✓
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	✓
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	N/A
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	✓

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	✓
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	N/A
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	✓
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	✓
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	✓
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	✓

Energy Code Compliance

Duct System Performance Report

Project Name:	BULLOCK RES RENOVATION	Builder:	
Address:	1201 N. SOUTHLAKE DRIVE	Permitting Office:	HOLLYWOOD
City, State:	HOLLYWOOD, FL 33009-	Permit Number:	
Owner:		Jurisdiction Number:	162100
Climate Zone:	South		

Total Duct System Leakage Test Results[1]

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage	Rated Air Handler Flows
1	System1	_____ cfm25out	_____ cfm
2	System2	_____ cfm25out	_____ cfm
3	System3	_____ cfm25out	_____ cfm
4	System4	_____ cfm25out	_____ cfm
5	**Total House Duct System Leakage**	_____ / _____ = _____ House Duct Leakage cfm25out (Sum lines 1-4) / House Air Handler Flow (Sum lines 1-4) = **Receive credit if ≤ 0.05**	

[1] Total duct system leakage test results, as described in the code, includes all duct leakage of air to or from non-conditioned space. Energy raters are trained that this is "duct leakage to outside." The test must be done after all air handlers, ducts, registers and grills are installed. The test is to include all components of the duct system, including air handler, and all return and supply ductwork, regardless of location. Pressure pan tests may not be used for energy code credit. If there are more than four systems, include results of other systems on back. Sum all cfm25 and rated air handler flows and show on line five above. The total duct system leakage for the house calculated on line five must be equal to or less than 0.05 to receive airtight duct credit.

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: http://energygauge.com/search.htp

BUILDING OFFICIAL: _____

DATE: _____

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.9

The higher the score, the more efficient the home.

, 1201 N. SOUTHLAKE DRIVE, HOLLYWOOD, FL, 33009-

1.	New construction or existing		Addition	12.	Cooling systems	
2.	Single family or multi-family		Single family	a.	Central Unit	Cap: 30.0 kBtu/hr
3.	Number of units, if multi-family		1			SEER: 12.00
4.	Number of Bedrooms		2	b.	Central Unit	Cap: 48.0 kBtu/hr
5.	Is this a worst case?		No			SEER: 12.00
6.	Conditioned floor area (ft²)		2910 ft²	c.	Central Unit	Cap: 18.0 kBtu/hr
7.	Glass area & type	Single Pane	Double Pane			SEER: 11.50
a.	Clear - single pane	0.0 ft²	0.0 ft²	13.	Heating systems	
b.	Clear - double pane	0.0 ft²	0.0 ft²	a.	Electric Strip	Cap: 20.0 kBtu/hr
c.	Tint/other SHGC - single pane	841.0 ft²	0.0 ft²			COP: 1.00
d.	Tint/other SHGC - double pane			b.	Electric Strip	Cap: 33.0 kBtu/hr
8.	Floor types					COP: 1.00
a.	Raised Concrete		R=0.0, 2910.0ft²	c.	Electric Heat Pump	Cap: 16.9 kBtu/hr
b.	N/A					HSPF: 6.80
c.	N/A			14.	Hot water systems	
9.	Wall types			a.	Natural Gas	Cap: 50.0 gallons
a.	Concrete, Int Insul, Exterior		R=0.0, 2224.0 ft²			EF: 0.65
b.	Frame, Steel, Adjacent		R=11.0, 110.0 ft²	b.	N/A	
c.	Concrete, Int Insul, Adjacent		R=0.0, 200.0 ft²			
d.	N/A			c.	Conservation credits	
e.	N/A				(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
a.	Under Attic		R=19.0, 2910.0 ft²	15.	HVAC credits	PT.
b.	N/A				(CF-Ceiling fan, CV-Cross ventilation,	
c.	N/A				HF-Whole house fan,	
11.	Ducts(Leak Free)				PT-Programmable Thermostat,	
a.	Sup: Unc. Ret: Con. AH: Interior		Sup. R=6.0, 60.0 ft²		MZ-C-Multizone cooling,	
b.	2 Others		61.0 ft		MZ-H-Multizone heating)	

APR 14 '19

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

EnergyGauge® (Version: FLRCSB v3.30)

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.9

The higher the score, the more efficient the home.

, 1201 N. SOUTHLAKE DRIVE, HOLLYWOOD, FL, 33009-

1.	New construction or existing		Addition	12.	Cooling systems	
2.	Single family or multi-family		Single family	a.	Central Unit	Cap: 30.0 kBtu/hr
3.	Number of units, if multi-family		1			SEER: 12.00
4.	Number of Bedrooms		2	b.	Central Unit	Cap: 48.0 kBtu/hr
5.	Is this a worst case?		No			SEER: 12.00
6.	Conditioned floor area (ft²)		2910 ft²	c.	Central Unit	Cap: 18.0 kBtu/hr
7.	Glass area & type	Single Pane	Double Pane			SEER: 11.50
a.	Clear - single pane	0.0 ft²	0.0 ft²	13.	Heating systems	
b.	Clear - double pane	0.0 ft²	0.0 ft²	a.	Electric Strip	Cap: 20.0 kBtu/hr
c.	Tint/other SHGC - single pane	841.0 ft²	0.0 ft²			COP: 1.00
d.	Tint/other SHGC - double pane			b.	Electric Strip	Cap: 33.0 kBtu/hr
8.	Floor types					COP: 1.00
a.	Raised Concrete		R=0.0, 2910.0ft²	c.	Electric Heat Pump	Cap: 16.9 kBtu/hr
b.	N/A					HSPF: 6.80
c.	N/A			14.	Hot water systems	
9.	Wall types			a.	Natural Gas	Cap: 50.0 gallons
a.	Concrete, Int Insul, Exterior		R=0.0, 2224.0 ft²			EF: 0.65
b.	Frame, Steel, Adjacent		R=11.0, 110.0 ft²	b.	N/A	
c.	Concrete, Int Insul, Adjacent		R=0.0, 200.0 ft²			
d.	N/A			c.	Conservation credits	
e.	N/A				(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
a.	Under Attic		R=19.0, 2910.0 ft²	15.	HVAC credits	PT,
b.	N/A				(CF-Ceiling fan, CV-Cross ventilation,	
c.	N/A				HF-Whole house fan,	
11.	Ducts(Leak Free)				PT-Programmable Thermostat,	
a.	Sup: Unc. Ret: Con. AH: Interior		Sup. R=6.0, 60.0 ft²		MZ-C-Multizone cooling,	
b.	2 Others		61.0 ft		MZ-H-Multizone heating)	

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321 638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

EnergyGauge® (Version: FLRCSB v3.30)

A/C LOAD CALC.
('CARRIER' PROGRAM)
PER 'ASHRAE'

AHU-1

SYSTEM SIZING SUMMARY

System: BULLOCK BR1 ENTRY KIT
Location: Miami, Florida
Prepared by: IEG

Block Load 3.05
January 29, 2004

TABLE 1. SIZING DATA (COOLING)

Total Coil Load	25,218 BTU/hr	Load Occurs	July 17:00
Sensible Coil Load	22,669 BTU/hr	Outdoor Db/Wb	89.5/76.6 F
Total Zone Sensible	21,823 BTU/hr	Coil Conditions:	
Supply Temperature	52.0 F	Entering Db/Wb	75.8/61.2 F
Supply Air (Actual)	847 CFM	Leaving Db/Wb	51.0/50.3 F
Supply Air (Standard)	846 CFM	Apparatus Dewpoint	49.7 F
Ventilation Air	45 CFM	Bypass Factor	0.050
Direct Exhaust Air	0 CFM	Resulting Zone RH	41.9 %
Reheat Required	0 BTU/hr		
		Total Coil Load	2.10 Ton
Floor Area	896 sqft	Sensible Coil Load	1.89 Ton
Overall U-Value	0.243 BTU/hr/sqft/F	SQFT/Ton	426.36
Vent Air	0.05 CFM/sqft	Cooling	28.15 BTU/hr/sqft
Vent Air	15.00 CFM/Person	Cooling	0.94 CFM/sqft

TABLE 2. SIZING DATA (HEATING)

Heating Coil Load	17,519 BTU/hr	Heating	19.55 BTU/hr/sqft
Ventilation Load	1,263 BTU/hr	Heating	0.94 CFM/sqft
Total Zone Load	16,255 BTU/hr	Floor Area	896 sqft
Ventilation Airflow	45 CFM	Overall U-Value	0.243
Supply Airflow	847 CFM	Vent Air	0.05 CFM/sqft
		Vent Air	15.00 CFM/Person

TABLE 3. INPUT DATA (WEATHER)

Location	Miami, Florida		
Data Source	User Defined	Summer Dry-Bulb	91.0 F
Latitude	25.8 Degree	Coincident Wet-Bulb	77.0 F
Elevation	7.0 ft	Daily Range	15.0 F
Atmospheric Clearness #	0.90	Winter Dry-Bulb	44.0 F

TABLE 4. INPUT (HVAC SYSTEM)

System Name	BULLOCK BR1 ENTRY KIT	THERMOSTAT SETPOINTS	
System Type	Clg and Warm Air Ht	Cooling (Occ.)	75.0 F
System Start	6:00	Cooling (Unocc.)	75.0 F
Duration	24 hrs	Heating	70.0 F
SIZING SPECIFICATIONS		RETURN AIR PLENUM	No
Supply	52.0 F	FAN	
Ventilation	15.00 CFM/person	Configuration	Draw-Thru
Exhaust	0.00 CFM	Static Pressure	1.50 in. wg
FACTORS			
Coil Bypass	0.050		
Safety (Sens)	0 %		
Safety (Latent)	0 %		
Heating Safety	0 %		

TABLE 5. TOP TEN COOLING COIL LOADS

	Time	Sensible Ton	Total Ton		Time	Sensible Ton	Total Ton
1)	July 17:00	1.89	2.10	6)	August 16:00	1.84	2.05
2)	August 17:00	1.87	2.08	7)	June 18:00	1.82	2.04
3)	June 17:00	1.86	2.07	8)	June 16:00	1.82	2.03
4)	July 16:00	1.85	2.06	9)	August 18:00	1.79	2.00
5)	July 18:00	1.84	2.06	10)	May 17:00	1.79	2.00

2/10/04

SYSTEM SIZING SUMMARY

System: BULLOCK BR1 ENTRY KIT
Location: Miami, Florida
Prepared by: IEG

Block Load 3.05
January 29, 2004

TABLE 6. ZONE SIZING DATA

Zone Name	Max. Cooling Sensible (BTU/hr)	Design Airflow Rate (CFM)	Design Time	Max. Heating Load (BTU/hr)	Design Flow Rate (CFM)
1	21,023	847	July 17:00	16,255	-
	Total:	847		Total:	.00

AHU-2

SYSTEM SIZING SUMMARY

System: BULLOCK BR2 DIN LIV MEDI A
Location: Miami, Florida
Prepared by: IEG

Block Load 3.05
January 29, 2004
Page: 1

TABLE 1. SIZING DATA (COOLING)

Total Coil Load	37,935 BTU/hr	Load Occurs	July 17:00
Sensible Coil Load	32,865 BTU/hr	Outdoor Db/Wb	89.5/76.6 F
Total Zone Sensible	30,108 BTU/hr	Coil Conditions:	
Supply Temperature	52.0 F	Entering Db/Wb	76.1/61.7 F
Supply Air (Actual)	1,212 CFM	Leaving Db/Wb	51.0/50.3 F
Supply Air (Standard)	1,212 CFM	Apparatus Dewpoint	49.6 F
Ventilation Air	90 CFM	Bypass Factor	0.050
Direct Exhaust Air	0 CFM	Resulting Zone RH	42.3 %
Reheat Required	0 BTU/hr		
		Total Coil Load	3.16 Ton
Floor Area	1,499 sqft	Sensible Coil Load	2.74 Ton
Overall U-Value	0.234 BTU/hr/sqft/F	SQFT/Ton	474.18
Vent Air	0.06 CFM/sqft	Cooling	25.31 BTU/hr/sqft
Vent Air	15.00 CFM/Person	Cooling	0.81 CFM/sqft

TABLE 2. SIZING DATA (HEATING)

Heating Coil Load	27,143 BTU/hr	Heating	18.11 BTU/hr/sqft
Ventilation Load	2,527 BTU/hr	Heating	0.81 CFM/sqft
Total Zone Load	24,617 BTU/hr	Floor Area	1,499 sqft
Ventilation Airflow	90 CFM	Overall U-Value	0.234
Supply Airflow	1,212 CFM	Vent Air	0.06 CFM/sqft
		Vent Air	15.00 CFM/Person

TABLE 3. INPUT DATA (WEATHER)

Location	Miami, Florida		
Data Source	User Defined	Summer Dry-Bulb	91.0 F
Latitude	25.8 Degree	Coincident Wet-Bulb	77.0 F
Elevation	7.0 ft	Daily Range	15.0 F
Atmospheric Clearness #	0.90	Winter Dry-Bulb	44.0 F

TABLE 4. INPUT (HVAC SYSTEM)

System Name	BULLOCK BR2 DIN LIV MEDI	THERMOSTAT SETPOINTS	
System Type	Clg and Warm Air Ht	Cooling (Occ.)	75.0 F
System Start	6:00	Cooling (Unocc.)	75.0 F
Duration	24 hrs	Heating	70.0 F
SIZING SPECIFICATIONS		RETURN AIR PLENUM	No
Supply	52.0 F	FAN	
Ventilation	15.00 CFM/person	Configuration	Draw-Thru
Exhaust	0.00 CFM	Static Pressure	1.50 in. wg.
FACTORS			
Coil Bypass	0.050		
Safety (Sens)	0 %		
Safety (Latent)	0 %		
Heating Safety	0 %		

TABLE 5. TOP TEN COOLING COIL LOADS

	Time	Sensible Ton	Total Ton		Time	Sensible Ton	Total Ton
1)	July 17:00	2.74	3.16	6)	June 16:00	2.63	3.06
2)	August 17:00	2.72	3.14	7)	July 18:00	2.61	3.03
3)	June 17:00	2.69	3.12	8)	June 18:00	2.59	3.02
4)	August 16:00	2.69	3.11	9)	September 17:00	2.59	2.99
5)	July 16:00	2.69	3.11	10)	September 16:00	2.58	2.99

APP: A.1.1.1

SYSTEM SIZING SUMMARY

TABLE 6. ZONE SIZING DATA

Zone Name	Max. Cooling Sensible (BTU/hr)	Design Airflow Rate (CFM)	Design Time	Max. Heating Load (BTU/hr)	Design Flow Rate (CFM)
1	30,108	1,212	July 17:00	24,617	-
	Total:	1,212		Total:	.00

AHU (SPLIT HEAT PUMP.)

SYSTEM SIZING SUMMARY

System: BULLOCK RES WORK RM
Location: Miami, Florida
Prepared by: IEG

Block Load 3.05
January 29, 2004
Page: 1

TABLE 1. SIZING DATA (COOLING)

Total Coil Load	12,776 BTU/hr	Load Occurs	October 16:00
Sensible Coil Load	11,466 BTU/hr	Outdoor Db/Wb	86.6/74.9 F
Total Zone Sensible	10,884 BTU/hr	Coil Conditions:	
Supply Temperature	57.0 F	Entering Db/Wb	75.6/63.8 F
Supply Air (Actual)	560 CFM	Leaving Db/Wb	56.7/56.1 F
Supply Air (Standard)	560 CFM	Apparatus Dewpoint	55.7 F
Ventilation Air	30 CFM	Bypass Factor	0.050
Direct Exhaust Air	0 CFM	Resulting Zone RH	52. %
Reheat Required	0 BTU/hr		
		Total Coil Load	1.06 Ton
Floor Area	314 sqft	Sensible Coil Load	0.96 Ton
Overall U-Value	0.276 BTU/hr/sqft/F	SQFT/Ton	294.92
Vent Air	0.10 CFM/sqft	Cooling	40.69 BTU/hr/sqft
Vent Air	15.00 CFM/Person	Cooling	1.78 CFM/sqft

TABLE 2. SIZING DATA (HEATING)

Heating Coil Load	8,077 BTU/hr	Heating	25.72 BTU/hr/sqft
Ventilation Load	842 BTU/hr	Heating	1.78 CFM/sqft
Total Zone Load	7,235 BTU/hr	Floor Area	314 sqft
Ventilation Airflow	30 CFM	Overall U-Value	0.276
Supply Airflow	560 CFM	Vent Air	0.10 CFM/sqft
		Vent Air	15.00 CFM/Person

TABLE 3. INPUT DATA (WEATHER)

Location	Miami, Florida		
Data Source	User Defined	Summer Dry-Bulb	91.0 F
Latitude	25.8 Degree	Coincident Wet-Bulb	77.0 F
Elevation	7.0 ft	Daily Range	15.0 F
Atmospheric Clearness #	0.90	Winter Dry-Bulb	44.0 F

TABLE 4. INPUT (HVAC SYSTEM)

System Name	BULLOCK RES WORK RM	THERMOSTAT SETPOINTS	
System Type	Clg and Warm Air Ht	Cooling (Occ.)	75.0 F
System Start	6:00	Cooling (Unocc.)	75.0 F
Duration	24 hrs	Heating	70.0 F
SIZING SPECIFICATIONS		RETURN AIR PLENUM	No
Supply	57.0 F	FAN	
Ventilation	15.00 CFM/person	Configuration	Draw-Thru
Exhaust	0.00 CFM	Static Pressure	0.50 in. wg.
FACTORS			
Coil Bypass	0.050		
Safety (Sens)	0 %		
Safety (Latent)	0 %		
Heating Safety	0 %		

TABLE 5. TOP TEN COOLING COIL LOADS

	Time	Sensible Ton	Total Ton		Time	Sensible Ton	Total Ton
1)	October 16:00	0.96	1.06	6)	July 17:00	0.92	1.04
2)	October 15:00	0.95	1.06	7)	July 15:00	0.91	1.03
3)	July 16:00	0.92	1.04	8)	September 16:00	0.92	1.03
4)	August 16:00	0.92	1.04	9)	August 17:00	0.91	1.03
5)	October 14:00	0.93	1.04	10)	October 17:00	0.92	1.03

APPLIED

SYSTEM SIZING SUMMARY

TABLE 6. ZONE SIZING DATA

Zone Name	Max. Cooling Sensible (BTU/hr)	Design Airflow Rate (CFM)	Design Time	Max. Heating Load (BTU/hr)	Design Flow Rate (CFM)
1	10,884	560	October 16:00	7,235	-
	Total:	560		Total:	.00

INSTRUCTION PAGE

COMPLETE THE NECESSARY SECTIONS OF THE UNIFORM ROOFING PERMIT APPLICATION FORM AND ATTACH THE REQUIRED DOCUMENTS AS NOTED BELOW:

Roof System	Required Sections of the Permit Application Form	Attachments Required See List Below
Low Slope Application	A,B,C	1,2,3,4,5,6,7
Prescriptive BUR-RAS 150	A,B,C	4,5,6,7
Asphaltic Shingles	A,B,D	1,2,4,5,6,7
Concrete or Clay Tile	A,B,D,E	1,2,3,4,5,6,7
Metal Roofs	A,B,D	1,2,3,4,5,6,7
Wood Shingles and Shakes	A,B,D	1,2,4,5,6,7
Other	As Applicable	1,2,3,4,5,6,7

ATTACHMENTS REQUIRED:

1.	Fire Directory Listing Page
2.	From Notice of Acceptance: Front Page Specific System Description Specific System Limitations General Limitations Applicable Detail Drawings
3.	Design Calculations per Chapter 16, or if Applicable, RAS 127 or RAS 128
4.	Other Component Notice of Acceptances
5.	Municipal Permit Application
6.	Owners Notification for Roofing Considerations (Re-Roofing Only)
7.	Any Required Roof Testing/Calculation Documentation

Florida Building Code Edition 2002
High Velocity Hurricane Zone Uniform Permit Application Form

Section A (General Information)

Master Permit No. _____ Process No. _____

Contractor's Name Tony O'Alter Roofing Inc.

Job Address 1201 North South Ocean Blvd. FL 3306[illegible]

ROOF CATEGORY

- [x] Low Slope
- [ ] Asphaltic Shingles
- [ ] Mechanically Fastened Tile
- [ ] Metal Panel/Shingles
- [ ] Mortar/Adhesive Set Tile
- [ ] Wood Shingles/Shakes
- [x] Prescriptive BUR-RAS 150

ROOF TYPE

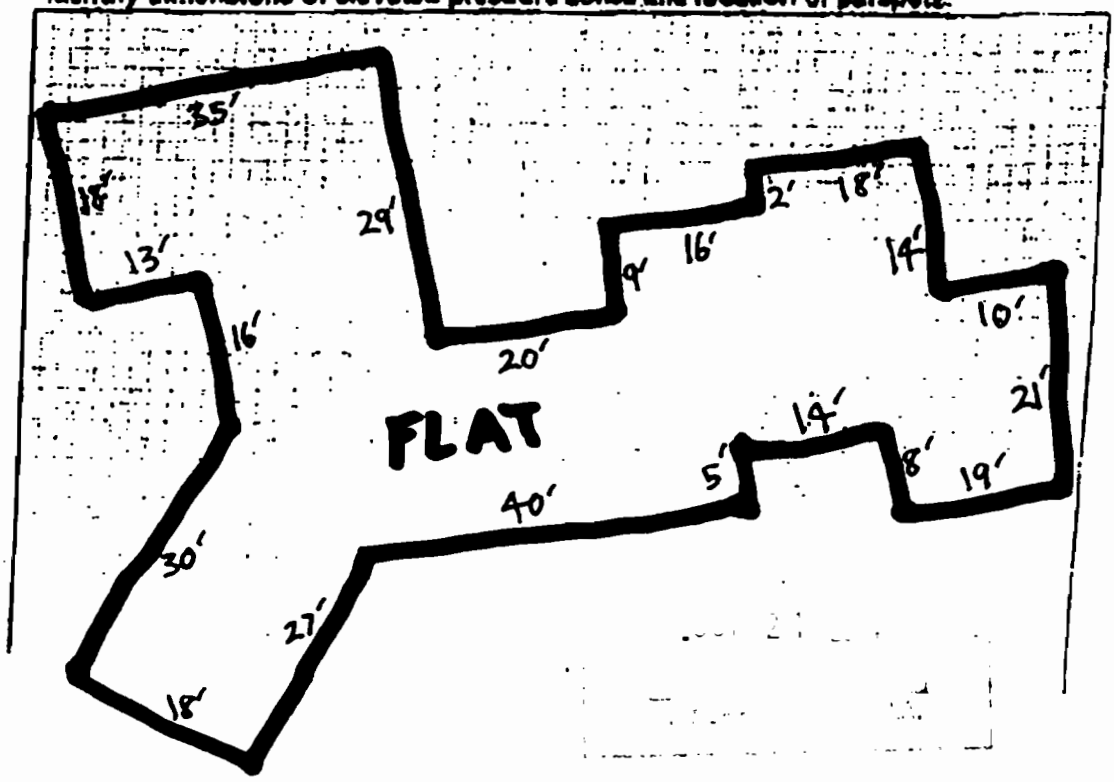
- [ ] New Roof
- [x] Re-Roofing
- [ ] Recovering
- [ ] Repair
- [ ] Maintenance

ROOF SYSTEM INFORMATION

Low Slope Roof Area (SF)	Steep Sloped Roof Area (SF)	Total (SF)
4.000 'Feet	NO	4.000 'Feet

Section B (Roof Plan)

Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.



Florida Building Code Edition 2002
High Velocity Hurricane Zone Uniform Permit Application Form

Section C (Low Sloped Roof System)

Fill in Specific Roof Assembly Components and Identify Manufacturer
(If a component is not used, identify as "NA")

System Manufacturer: GAF

NOA No.: 03-0430.13

Design Wind Pressures, From RAS 128 or Calculations:

Pmax1: 52.5 Pmax2: 87.2 Pmax3: 131.2

Max. Design Pressure, From Specific NOA System: 52.5

Deck:
Type: 5/8 Plywood
Gauge/Thickness: NA
Slope: Flat

Anchor/Base Sheet & No. of Ply(s): 30# Base

Anchor/Base Sheet Fastener/Bonding Material: Nails & TN Cap 1¼ Ring Shank

Insulation Base Layer: NA

Base Insulation Size and Thickness: NA

Base Insulation Fastener/Bonding Material: NA

Top Insulation Layer: NA

Top Insulation Size and Thickness: NA

Top Insulation Fastener/Bonding Material: NA

Base Sheet(s) & No. of Ply(s): 30# Base 1 Ply

Base Sheet Fastener/Bonding Material: 1¼ Ring Shank Nails & TN Cap

Ply Sheet(s) & No. of Ply(s): 1 Ply IS Glass

Ply Sheet Fastener/Bonding Material: Hot Asphalt

Top Ply: GAF modified mixed with 0.016 Y/N

Top Ply Fastener/ Bonding Material: Hot Asphalt Y/N

Surfacing: Granules

Fastener Spacing for Anchor/Base Sheet Attachment

Field: 9" oc @ Lap, # Rows 2 @ 9" oc

Perimeter: 9" oc @ Lap, # Rows 3 @ 9" oc

Corner: 6" oc @ Lap, # Rows 4 @ 6" oc

Number of Fasteners Per Insulation Board

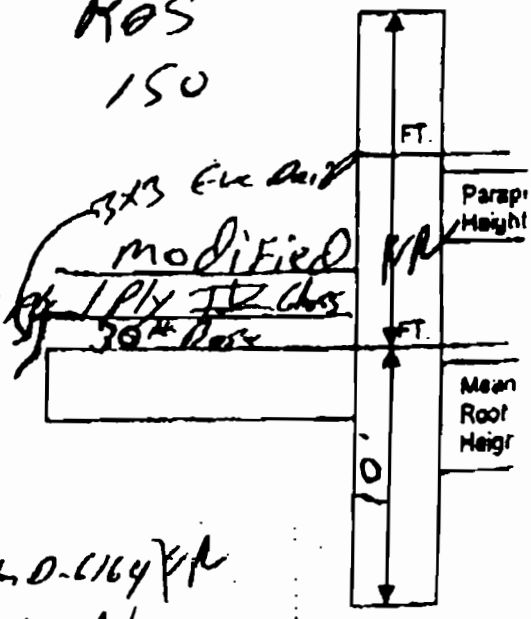
Field NA Perimeter NA Corner NA

Illustrate Components Noted and Details as Applicable:

Woodblocking, Gutter, Edge Termination, Stripping, Flashing, Continuous Cleat, Cant Strip, Base Flashing, Counter- Flashing, Coping, Etc.

Indicate: Mean Roof Height, Parapet Height, Height of Base Flashing, Component Material, Material Thickness, Fastener Type, Fastener Spacing or Submit Manufacturers Details that Comply with RAS 111 and Chapter 16.

ROS
150



APR 14 200

IMPORTANT: In these spaces, copy the corresponding information from Section A.	For Insurance Company Use:
Building Street Address (including Apt., Unit, Su ...nd/or Bldg. No.) or P.O. Route and Box No. 1201 NORTH SOUTH LAKE DRIVE	Policy Number
City HOLLYWOOD State FL ZIP Code 33020	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments AIR CONDITIONING EQUIPMENT

Signature _____ Date 8/13/08

☒ Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
   a) Top of bottom floor (including basement, crawl space, or enclosure) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
   b) Top of bottom floor (including basement, crawl space, or enclosure) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6-8 with permanent flood openings provided in Section A Items 8 and/or 9 (see page 8 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, and E are correct to the best of my knowledge.*

Property Owner's or Owner's Authorized Representative's Name

Address | City | State | ZIP Code

Signature | Date | Telephone

Comments

☐ Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8. and G9.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4.-G9.) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____.____ ☐ feet ☐ meters (PR) Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____.____ ☐ feet ☐ meters (PR) Datum

Local Official's Name | Title

Community Name | Telephone

Signature | Date

Comments

APPROVED
AUG 21 2008
CITY OF HOLLYWOOD, FLA.
FINAL SURVEY

☐ Check here if attachments

IMPORTANT: In these spaces, copy the corresponding information from Section A.	For Insurance Company Use:
BUILDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO. 1201 South Lake Drive	Policy Number
CITY Hollywood STATE FL. ZIP CODE	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

COMMENTS CROWN OF ROAD : 3.63'

☐ Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zone AO and Zone A (without BFE), complete Items E1 through E4. *If the Elevation Certificate is intended for use as supporting information for a LOMA or LOMR-F, Section C must be completed.*

E1. Building Diagram Number _____ (Select the building diagram most similar to the building for which this certificate is being completed – see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)

E2. The top of the bottom floor (including basement or enclosure) of the building is ☐☐ ft.(m) ☐☐in.(cm) ☐ above or ☐ below (check one) the highest adjacent grade.

E3. For Building Diagrams 6-8 with openings (see page 7), the next higher floor or elevated floor (elevation b) of the building is ☐☐ ft.(m) ☐☐in.(cm) above the highest adjacent grade.

E4. For Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here.

PROPERTY OWNER'S OR OWNER'S AUTHORIZED REPRESENTATIVE'S NAME

ADDRESS CITY STATE ZIP CODE

SIGNATURE DATE TELEPHONE

COMMENTS

☐ Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below.

G1. ☐ The information in Section C was taken from other documentation that has been signed and embossed by a licensed surveyor, engineer, or architect who is authorized by state or local law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4-G9) is provided for community floodplain management purposes.

G4. PERMIT NUMBER	G5. DATE PERMIT ISSUED	G6. DATE CERTIFICATE OF COMPLIANCE/OCCUPANCY ISSUED

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building is: _____ . ___ ft.(m) Datum: _____

G9. BFE or (in Zone AO) depth of flooding at the building site is: _____ . ___ ft.(m) Datum: _____

LOCAL OFFICIAL'S NAME TITLE

COMMUNITY NAME TELEPHONE

SIGNATURE DATE

COMMENTS

☐ Check here if attachments

IMPORTANT: In these spaces, copy the corresponding information from Section A.	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1201 NORTH SOUTH LAKE DRIVE	Policy Number
City HOLLYWOOD State FL ZIP Code 33020	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments AIR CONDITIONING EQUIPMENT

Signature 8/13/08 Date

☒ Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawl space, or enclosure) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
b) Top of bottom floor (including basement, crawl space, or enclosure) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6-8 with permanent flood openings provided in Section A Items 8 and/or 9 (see page 8 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, and E are correct to the best of my knowledge.*

Property Owner's or Owner's Authorized Representative's Name

Address City State ZIP Code

Signature Date Telephone

Comments

☐ Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8. and G9.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4.-G9.) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____.____ ☐ feet ☐ meters (PR) Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____.____ ☐ feet ☐ meters (PR) Datum _____

Local Official's Name Title

Community Name Telephone

Signature Date

Comments

APPROVED
AUG 21 2008
CITY OF HOLLYWOOD, FLA.
FINAL SURVEY

☐ Check here if attachments

Date 10/6/04 Shop Drawing No. _____

( ) APPROVED.

( ) APPROVED Subject to Notations and Corrections as Indicated

( ) DISAPPROVED: Revise as Indicated by Notations and Corrections and Re-Submit.

Checking of Shop Drawings is limited to general design and [illegible] and is not intended to be a verified [illegible] the items or total material required. Approval shall not relieve the Contractor from responsibility of complying with details of design requirements of Specifications, correct dimensions for proper fitting of work, performance, construction or any other requirements of the Contract.

By _____

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

NOTICE OF ACCEPTANCE (NOA)

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Clad Wood Casement Window

APPROVAL DOCUMENT: Drawing No. **1030**, titled "Aluminum Clad Vented Casement Windows", sheets 1 through 3, dated 12/1/00 with revision A1 dated 10/14/02, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 02-0730.12** and consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P. E.**

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1030**, titled "Aluminum Clad Vented Casement Windows", sheets 1 through 3, dated 12/1/00, with revision A1 dated 10/14/02, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per ASTM E-238
   2) Uniform Static Air Pressure Test, Loading per PA 202.
   3) Water Resistance Test, per ASTM E547/E331
   4) Forced Entry Test, per AAMA 1302.5
   5) Large Missile Impact and Cyclic Test per PA 201 & 203

   along with marked-up drawings and installation diagram of an aluminum clad wood casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-2882, dated 12/05/00, signed and sealed by Jose Acevedo, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per PA 202. along with marked-up drawings and installation diagram of an aluminum clad wood casement window, prepared by Architectural Testing, Inc., Test Report No. **ATI-02-34530.01**, dated 07/31/02, signed and sealed by Steven M. Urich, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, dated 12/14/00, revised on 10/14/02, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

D. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **98-0608.03** issued to E.I. DuPont DeNemours for "Sentry Glass Plus" dated 01/14/99, expiring on 01/14/02.

E. STATEMENTS

1. Letter from W. W. Schaefer Engineering & Consulting, P.A, dated 10/14/02, requesting an upgrade, submitting test performed and reducing the jamb fastening spacing, signed and sealed by Warren W. Schaefer, P.E.

F. OTHER

1. Notice of Acceptance No. **02-0730.12**, issued to Pella Corporation for their "Aluminum Clad Wood Casement Window," approved on 8/29/02 and expiring on 9/16/07.

Manuel Perez, P.E.
Product Control Examiner
NOA No 02-1021.04
Expiration Date: September 16, 2007
Approval Date: August 14, 2003

SECTION 1524 - HIGH VELOCITY HURRICANE ZONES
REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

1524.1 Scope. As it pertains to this section, it is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this section. The provisions of Chapter 15 of the Florida Building Code, Building govern the minimum requirements and standards of the industry for roofing system installations. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initial in the designated space indicates that the item has been explained.

1. **Aesthetics-Workmanship:** The workmanship provisions of Chapter 15 (High Velocity Hurricane Zone) are for the purpose of providing that the roofing system meets the wind resistance and water intrusion performance standards. Aesthetics (appearance) are not a consideration with respect to workmanship provisions. Aesthetic issues such as color or architectural appearance, that are not part of a zoning code, should be addressed as part of the agreement between the owner and the contractor.

2. **Reroofing Wood Decks:** When replacing roofing, the existing wood roof deck may have to be reroofed in accordance with the current provisions of Chapter 16 (High Velocity Hurricane Zones) of the. (The roof deck is usually concealed prior to removing the existing roof system).

3. **Common Roofs:** Common roofs are those which have no visible delineation between neighboring units (i.e., townhouses, condominiums, etc.). In buildings with common roofs, the roofing contractor and/or owner should notify the occupants of adjacent units of roofing work to be performed.

4. **Exposed ceilings:** Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The provides the option of maintaining this appearance.

5. **Ponding Water:** The current roof system and/or deck of the building may not drain well and may cause water to pond (accumulate) in low-lying areas of the roof. Ponding can be an indication of structural distress and may require the review of a professional structural engineer. Ponding may shorten the life expectancy and performance of the new roofing system. Ponding conditions may not be evident until the original roofing system is removed. Ponding conditions should be corrected.

6. **Overflow Scuppers (wall outlets):** It is required that rainwater flow off so that the roof is not overloaded from a buildup of water. Perimeter/edge walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of:

7. **Ventilation:** Most roof structures should have some ability to vent natural airflow through the interior of the structural assembly (the building itself). The existing amount of attic ventilation shall not be reduced. It may be beneficial to consider additional venting which can result in extending the service life of the roof.

COMMENTS:

William Seay — Owner's/Agent's Signature

10/18/04 — Date

Contractor's Signature

Date 10/4/01 Shop Drawing No.

( ) APPROVED.

( ) APPROVED Subject to Notations and Corrections Indicated

( ) DISAPPROVED: Revise as Indicated by Notations and Corrections and Re-Submit.

Checking of Shop Drawings is limited to general design and general arrangement only, and is not intended to be a verification of the items or total quantities. Approval shall not relieve the Contractor of complying with details of design, specifications, correct dimensions for proper fitting, performance, construction or any other requirements of the Contract.

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Therma-Tru Corporation
108 Metzfeld Road
Butler, IN 46721

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee (BCPRC) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The BCCO (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BCPRC reserves the right to revoke this acceptance, if it is determined by BCCO that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

DESCRIPTION: Outswing Insulated Residential Steel Door-Large Missile Impact Resistant & Non-Impact Resistant Sidelites

APPROVAL DOCUMENT: Drawing No. S-2003-0, titled "Therma-Tru Wood edge Outswing", sheets 1 through 6 to 6, prepared by RW Consulting, dated 3/9/01, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 00-0207.05 and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by Raul Rodriguez.

NOA No 02-0418.02
Expiration Date: April 02, 2007
Approval Date: May 23, 2002
Page 1

12/11/02 WED 15:58 FAX 9544812687 BUTTIG BUILDING PRODUCTS 001

002
HUTTIG BUILDING PRODUCTS
12/11/02 WED 15:57 FAX 9544812687

10/4/04

THERMA-TRU®

"CONSTRUCTION" AND "PREMIUM" SERIES
INSULATED STEEL DOOR WITH WOOD FRAMES.

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASIC MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. MIAMI-DADE APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED FOR SIDELITES.
5. DESIGNED PRESSURE RATING SEE TABLE PAGE 1.
6. SIDELITES ARE AN OPTION AND CAN BE IN A SINGLE OR DOUBLE DOOR CONFIGURATION.

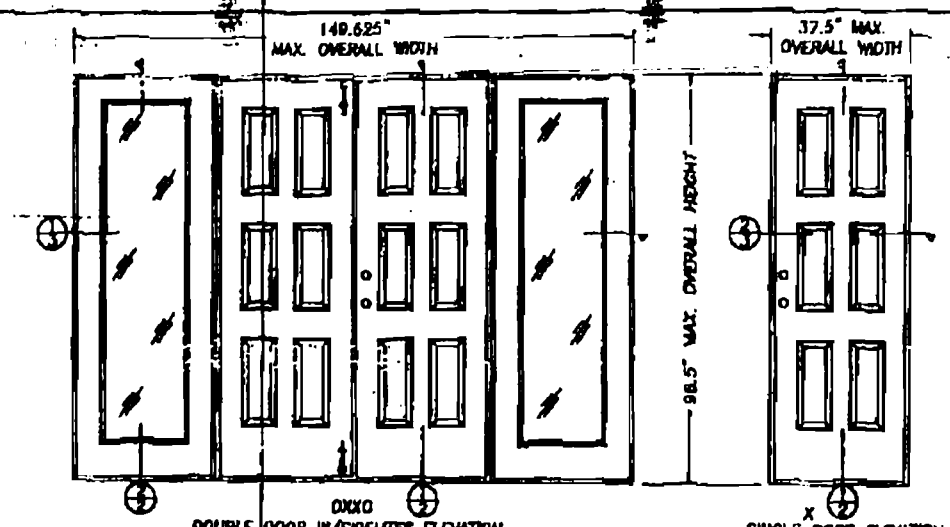
RESIDENTIAL INSULATED STEEL DOOR
(Common to all frame conditions)

Door Leaf Construction:
Face sheets: 25 GA.(0.018")minimum thickness, Galvanized steel A-525 commercial quality – ANSI/DX D per ASTM 653 with yield strength Fy(min.)–48,471 psi
Core design: Polyurethane foam core, with1.8 lbs. density by BASF.
Construction: Flush or embossed type. The vertical edges of the skin, rolled formed to provide a mechanical interlock with finger jointed pine stiles. Wood composite end rails are butt jointed to styles at corners. Panels are sandwich glazed using a two piece PVC lite frame with mitered & welded corners.

TABLE OF CONTENTS

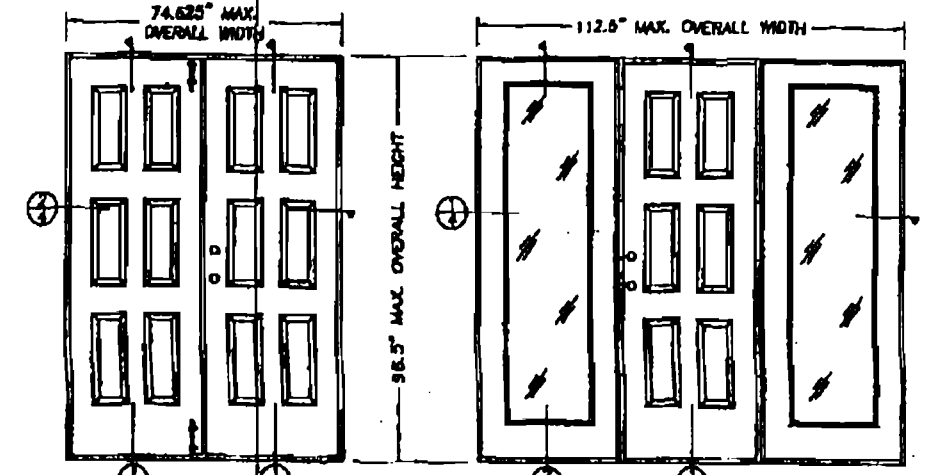
SHEET #	DESCRIPTION
1	COMMON (GENERAL NOTES, TYPICAL ELEVATION)
2	VERTICAL CROSS SECTIONS & BILL OF MATERIALS
3	HORIZONTAL CROSS SECTIONS & DOOR MODELS
4	HORIZONTAL CROSS SECTIONS & GLAZING DETAILS
5	ANCHORING LOCATIONS
6	ANCHORING LOCATIONS

DESIGN PRESSURE RATING		
UNIT TYPE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	
SINGLE	+ 60.0 PSF	– 60.0 PSF
DOUBLE	+ 48.0 PSF	– 51.0 PSF
SINGLE OR DOUBLE WITH SIDELITES	+ 48.0 PSF	– 51.0 PSF



DOUBLE DOOR W/SIDELITES ELEVATION
DESIGN PRESSURE RATING: +48.0 psf –51.0 psf

SINGLE DOOR ELEVATION
DESIGN PRESSURE RATING: +60.0 psf –60.0 psf



DOUBLE DOOR ELEVATION
DESIGN PRESSURE RATING: +48.0 psf –51.0 psf

SINGLE DOOR W/SIDELITES ELEVATION
DESIGN PRESSURE RATING: +48.0 psf –51.0 psf

ALL DOOR MODELS ARE VIEWED FROM THE INTERIOR SIDE (OUTSWING DOORS)

NOTE: SURFACE BOLTS ARE ON THE INACTIVE DOOR PANELS ONLY

PRODUCT REVIEWED as complying with the Florida Building Code. Acceptance No. FL 2-0418.02 Expiration Date: 08/05/07
By: Miami-Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: 4-MAY-05, 2pm
BY: Stacy L. Glenn
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
APPLIANCE NO. 01-0207.05

THERMA-TRU®
108 MUTZFELD Rd.
BUTLER, IN 46721
PH. (219) 868-5811

PRODUCT: THERMA TRU WOODGRAIN 8'-0 x 12'-0 OUTSWING 2 OR 3-0 SIDELITES
PART OR ASSEMBLY: ELEVATIONS AND GENERAL NOTES

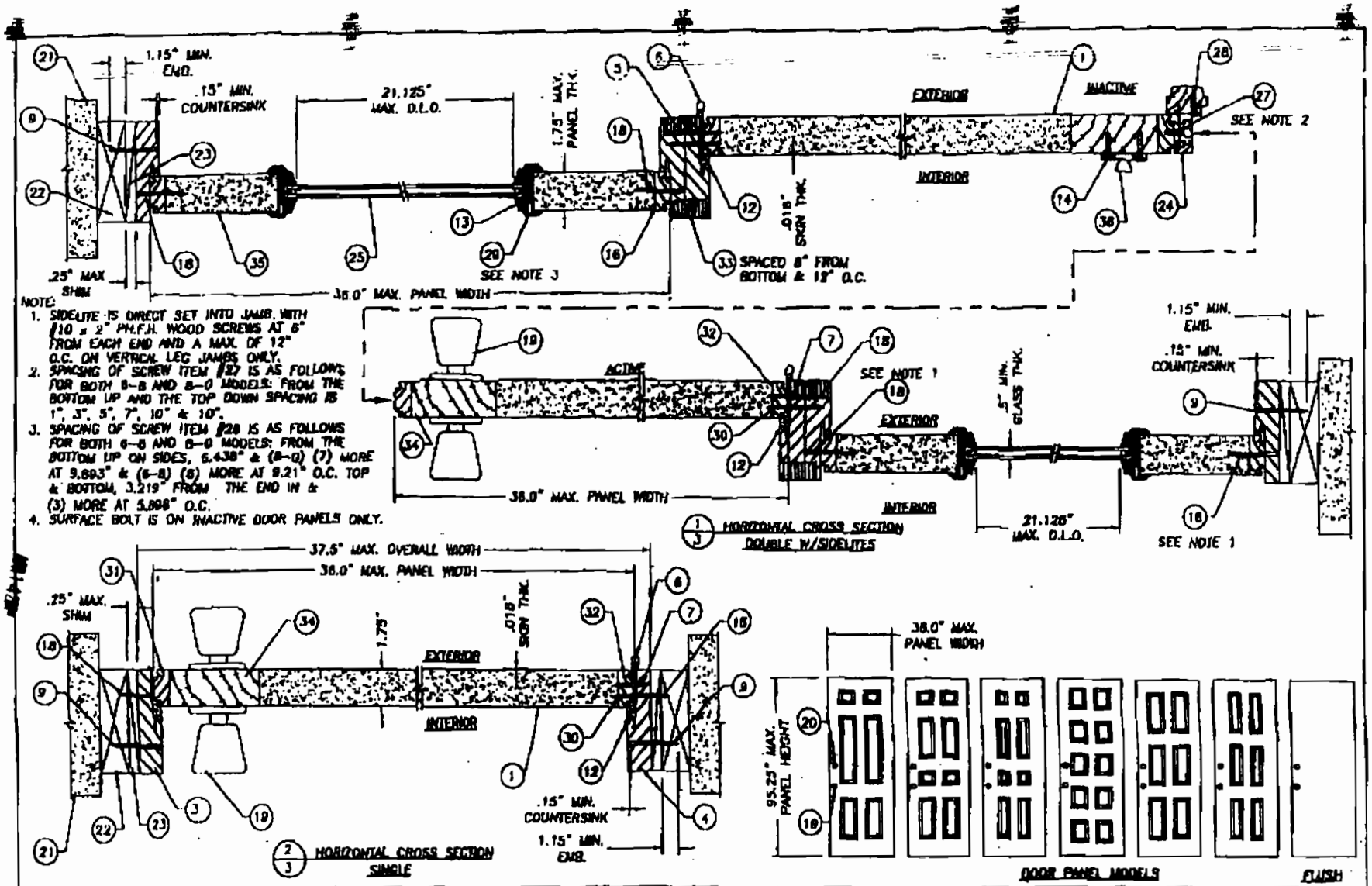
NO	DATE	REVISIONS	BY
1	6/11/00	GENERAL REVISION	RW
2	3/08/01	GENERAL REVISION TMT	

RW BUILDING CONSULTANTS, INC
813.684.3831

DATE: 3/3/00
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO: S-2003-0

THERMADTRU
108 MUTZFELD RD.
BUTLER, IN 46721
PH. (219) 868-5811
PRODUCT:
THERMA TRU WOODEDGE OUTSWING UP TO 12'-0" x 8'-0" W/2-0 SIDELITES
SHEET #8 ASSEMBLY:
VERTICAL CROSSECTIONS & BILL OF MATERIALS
REVISIONS
NO. DATE DESCRIPTION BY
1 3/09/01 GENERAL REVISION RW
2 4/11/02 GENERAL REVISION TAH
DRAWN 3/3/00
SCALE N.T.S.
DRN. BY TAH
CHK. BY RW
DRAWING NO. C-7001-0
APPROVED AS CONFORMING WITH THE SOUTH FLORIDA BUILDING CODE
DATE 12/11/02
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
PRODUCT IDENTIFIED as complying with the Florida Building Code. Acceptance No. 02-0104.02 Expiration Date 07-01-07
NOTE: SIDELITE IS DIRECT SET INTO JAMB WITH #10 x 2" PH.F.H. WOOD SCREWS AT 6" FROM EACH END AND A MAX. OF 12" O.C. ON VERTICAL LEG JAMBS ONLY.
Item DESCRIPTION Material
1 EXTRUDED SERIES ROOM FRAME .018" MIN. STEEL
2 4 1/2" HEADER (THERMA-TRU POWDERKOTE PAINT) WOOD
3 4 1/2" JAMB AND (THERMA-TRU POWDERKOTE PAINT) WOOD
4 4 1/2" HINGE JAMB (THERMA-TRU POWDERKOTE PAINT) WOOD
5 4 1/2" STRIKE JAMB (THERMA-TRU POWDERKOTE PAINT) WOOD
6 4" x 4" x .062" THK. (THERMA-TRU) STEEL
7 #10 x 3/4" Ph. (Needs to Engage) STEEL
8 #10 WOOD SCREW X 2 1/2" LG. STEEL
9 #8 x 1 1/2" LG. WOOD SCREW STEEL
10 5/16" LAG SCREW ANCHOR (FLUSH) 1.25" MIN. LG. STEEL
11 ONE PIECE SILL PAN (THERMA-TRU) PVC
12 #10 x 1 1/4" LG. TYP. 82° FLATHEAD STEEL
13 #10 x 1 1/2" LG. TYP. 82° FLATHEAD STEEL
14 #10 x 2" LG. TYP. 82° FLATHEAD STEEL
15 #10 WOOD SCREW X 2" LG. STEEL
16 SILL NOSE STYLE (THERMA-TRU POWDERKOTE PAINT) WOOD
17 #8 x 1/2" LG. TYP. 82° FLATHEAD STEEL
18 (CONCEAL 200 lb. PASSAGE HARDWARE AND DEADBOLT) STEEL
19 #10 WOOD SCREW X 2" LG. STEEL
20 MASONRY WALL
21 2x WOOD BUCK
22 MAX. 1/2" SHIM MATERIAL
23 ASTRAGAL (ONE PIECE MULLION FOR PAIRS) (THERMA-TRU POWDERKOTE PAINT) WOOD
24 GLAZING 1/4" THK. INSULATED TEMPERED GLASS GLASS
25 1/4" THK. PRESSURE TREATED SIDELITE PAD WOOD
26 #8 x 1 1/2" LG. PHILLIPS FLATHEAD SCREW STEEL
27 1/2 x 1 1/2" PANELHEAD SHEET METAL SCREW (THERMA-TRU) STEEL
28 ASTRAGAL WEATHERSTRIP (THERMA-TRU) VINYL
29 #8 x 1" LG. PHILLIPS FLATHEAD SCREW STEEL
30 #8 x 1 1/4" LG. PHILLIPS FLATHEAD SCREW STEEL
31 UNDER SIDE STYLE (THERMA-TRU POWDERKOTE PAINT) WOOD
32 PANEL SEC. STYLE (THERMA-TRU POWDERKOTE PAINT) WOOD
33 COMPRESSION SEALS (WEATHER) (1 1/2" x 3/4") VINYL
34 LOCK BLOCK (4" x 11" x 1.625") FOAM
35 POLYURETHANE FOAM (.25" THK. 1.9lbs. DENSITY) FOAM
36 HINGE SURFACE BOLT (.25" DIA. STEEL) STEEL
37 3/16" THK. ANCHOR (FLUSH) 1.25" MIN. LG. STEEL
38 1/8" THK. CELLULAR GASKET TAPE (STICK-ON TAPE) FOAM
6'-8 = 81.781" MAX. FRAME HEIGHT
8'-0 = 85.75" MAX. FRAME HEIGHT
6'-8 = 80.531" OVERALL PANEL HEIGHT
8'-0 = 96.5" OVERALL PANEL HEIGHT
6'-8 = 82.531" MAX. OVERALL FRAME HEIGHT
8'-0 = 98.5" MAX. OVERALL FRAME HEIGHT
6'-8 = 81.281" OVERALL PANEL HEIGHT
8'-0 = 96.25" OVERALL PANEL HEIGHT
MAX. O.L.O. 6'-8"=64" 8'-0"=79.25"
.5" MAX. GLASS THK.
.018" SKIN THK.
1.75"
INTERIOR
EXTERIOR
COUNTERSINK .15" MIN.
1.15" MIN. DIA.
.25" MAX. SHIM
.75" PAD
2.0"
1.25" MIN. DIA.
.837"
4.625"
1 VERTICAL CROSS-SECTION 2
2 VERTICAL CROSS-SECTION 2

12/11/02 WED 15:56 FAX 9544812687 HUTTIG BUILDING PRODUCTS 004



THERMA TRU®
108 MUTZFELD Rd.
BUTLER, IN 46721

2	3/09/01	GENERAL REVISION RW
1	2/11/00	GENERAL REVISION RW

PRODUCT:
THERMA TRU WOODEDGE OUTSWING UP TO 12-0 x 8-0 W/3-0 SIDELITES

RW BUILDING CONSULTANTS, INC.

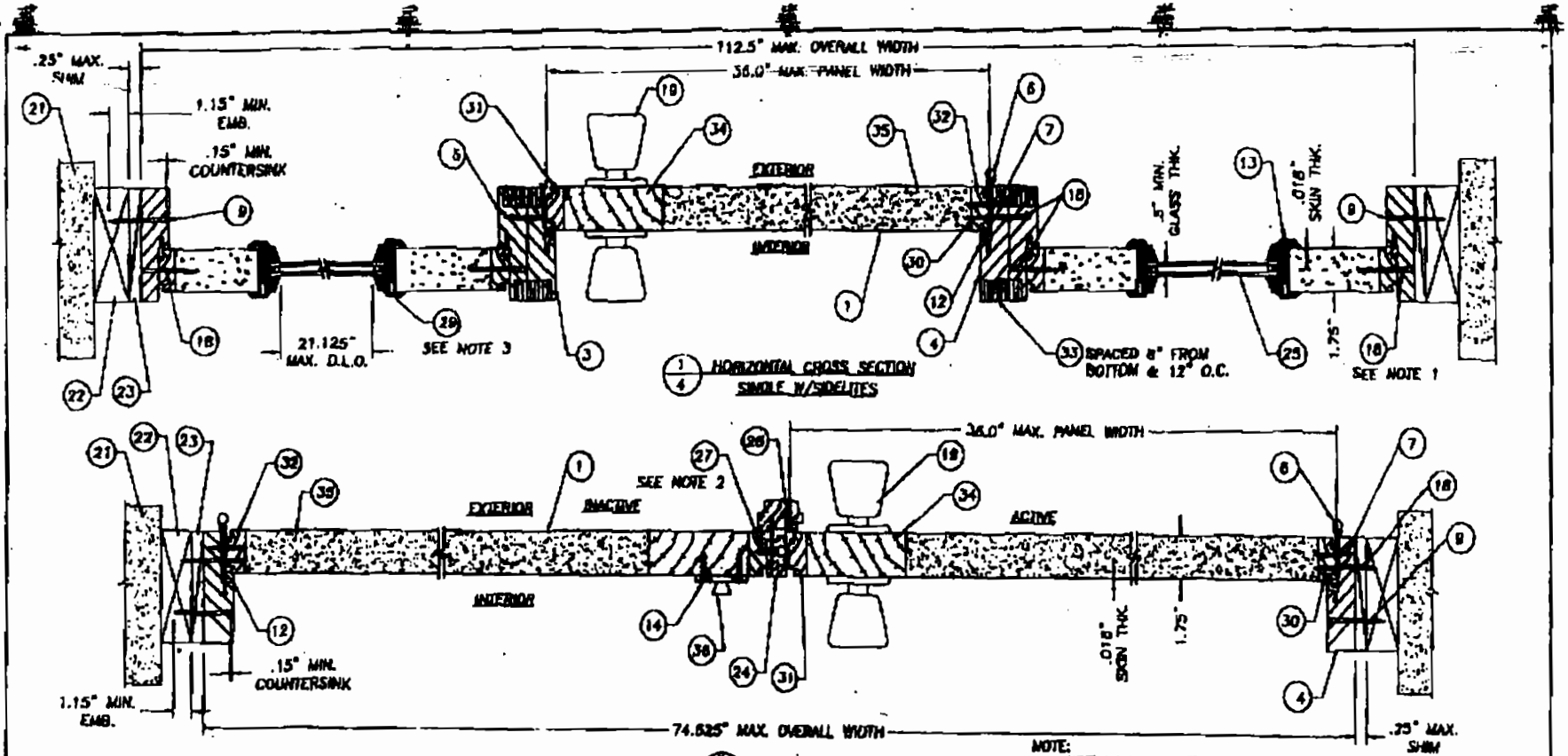
PRODUCT REVIEWED in compliance with the Florida Building Code
Application No. 02-0918.02
Expiration Date 09/03/07

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE 4/15/2003
BY Isban L. Chando
PRODUCT CONTROL DIVISION

DWG	3/3/00
SCALE	N.T.S.
DRN. BY	TJH
CHK. BY	RW

THERMADOOR
108 MULTZFELD RD.
BUTLER, IN 46721
PH. (219) 868-5811
ANCHORING LAYOUTS
PART OR ASSEMBLY:
8'-0 W/3'-0 SIDELITES
THERMA TRU WOODEDGE
OUTSWING UP TO 12'-0 x
REVISIONS
DRWG. 3/2/00
SCALE N.T.S.
DRWN. TJH
CHK. RW
S-R003-0
SHT. 6 OF 8
APPROVED AS CONFORMING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE APRIL 05, 2001
PRODUCT CONTROL DIVISION
BUILDING CODE ADMINISTRATORS OFFICE
ACCEPTANCE NO. 00-0207.05
PRODUCT REVIEWED
in accordance with the Building Code
Approval No.
Expiration Date
Notes
NOTES: APPLICABLE TO ALL FRAMES
1. HEAD JAMBS ARE JOINED TO THE SIDE JAMBS WITH (3) 18GA .5" CROWN x 2" LG. STAPLES EACH END.
2. THE THRESHOLDS ARE JOINED TO THE SIDE JAMBS WITH (2) 18GA .5" CROWN x 2" LG. STAPLES EACH END.
3. MULLIONS ARE ATTACHED AT THE HEAD & SILL TO SIDE JAMBS W/(3) 18GA .5" CROWN x 2" LG. STAPLES
DETAIL "1"
ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO FRAME AS SHOWN
DETAIL "2"
HINGE DETAIL
ALL FRAMES ARE MOWED FROM EXTERIOR SIDE
DOOR PANELS ARE SHOWN FOR
CLARITY OF ANCHORING LOCATIONS
SEE NOTE #2, TYP.
TO ALL THRESHOLDS
SEE NOTE #3
THIS SHEET
SEE NOTE #1, TYP.
TO ALL HEADERS
SEE DETAIL "1"
SEE DETAIL "2"
SEE DETAIL "3"
6-8 = 82.531" MAX. FRAME HEIGHT
8-0 = 96.5" MAX. FRAME HEIGHT
29.75"
25.5" TYP.
16.9" TYP.
14.1" TYP.
8.378"
5.61"
8.81"
47.031"
81"

12/11/02 WED 15:59 FAX 9544812687 HUTTIG BUILDING PRODUCTS 005



NOTE:
1. SIDELITE IS DIRECT SET INTO JAMB WITH #10 x 2" PH.F.H. WOOD SCREWS AT 6" FROM EACH END AND A MAX. OF 12" O.C. ON VERTICAL LEG JAMBS ONLY.
2. SPACING OF SCREW ITEM #27 IS AS FOLLOWS FOR BOTH 6-8 AND 8-0 MODELS: FROM THE BOTTOM UP AND THE TOP DOWN SPACING IS 1", 3", 5", 7", 10" & 10".
3. SPACING OF SCREW ITEM #29 IS AS FOLLOWS FOR BOTH 6-8 AND 8-0 MODELS: FROM THE BOTTOM UP ON SIDES, 6.438" & (8-0) (7) MORE AT 9.883" & (6-8) (6) MORE AT 9.21" O.C. TOP & BOTTOM, 3.219" FROM THE END IN & (3) MORE AT 5.886" O.C.
4. SURFACE BOLT IS ON INACTIVE DOOR PANELS ONLY.

THERMA TRU®
108 MUTZFELD Rd.
BUTLER, IN 46721
PH (219) 868-5811

NO	DATE	BY
2	3/08/01	GENERAL REVISIONS
1	4/11/00	GENERAL REVISION

PRODUCT: THERMA TRU WOODEDGE OUTSWING UP TO 12-0 x 8-0 W/3-0 SIDELITES
PANEL OR ASSEMBLY: HORIZONTAL CROSS

RW BUILDING CONSULTANTS, INC.

PRODUCT RENEWED in complying with the Florida Building Code
Acceptance No. 02-0418.02
Expiration Date 04/04/07
By:

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE 4/04/07
BY
PRODUCT CONTROL DIVISION

DATE 3/3/00
SCALE N.T.S.
DRWN BY TJH
CHK BY RW
DRAWING NO.

THERMADOOR
108 MULTZFIELD RD.
BUTLER, IN 46721
PH. (219) 868-5811
ANCHORING LAYOUTS
THERMA TRU WOODGRAIN
OUTSWING UP TO 12'-0" x
8'-0 W/3'-0 SIDELITES
PART OR ASSEMBLY
REVISIONS
NO DATE
3/3/00
N.T.S.
SEE DETAIL "C"
SEE NOTE #3 THIS SHEET
SEE NOTE #1 TYP. TO ALL HEADERS
SEE NOTE #2 TYP. TO ALL THRESHOLDS
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
DETAIL "E"
ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO FRAME AS SHOWN.
DETAIL "F"
HINGE DETAIL
NOTES: APPLICABLE TO ALL FRAMES
1. HEAD JAMBS ARE JOINED TO THE SIDE JAMBS WITH (2) 18GA .5" CROWN x 2" LG. STAPLES EACH END.
2. THE THRESHOLDS ARE JOINED TO THE SIDE JAMBS WITH (2) 18GA .5" CROWN x 2" LG. STAPLES EACH END.
3. MULLIONS ARE ATTACHED AT THE HEAD & SILL TO SIDE JAMBS W/(3) 18GA .5" CROWN x 2" LG. STAPLES
8'-0 = 96.5" MAX. HEIGHT
6'-6 = 82.531" MAX. HEIGHT
25.5" TYP.
28.75"
8.578"
5.61"
16.9" TYP.
14.1" TYP.
47.031"
61"
5.5"
TYP.

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Therma-Tru Corporation
1687 Woodlands Drive
Maumee ,OH 43537

Your application for Notice of Acceptance (NOA) of:
"Fiber-Classic" Out-Swing Opaque Fiberglass Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-1004.03
EXPIRES: 11/09/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Date _____ Shop Drawing No. _____

[X] APPROVED.
[ ] APPROVED Subject to Notations and Corrections as Indicated
[ ] DISAPPROVED: Revise as Indicated by Notations and Corrections and Re-Submit.

Checking of Shop Drawings is limited to general design and general arrangement only, and is not intended to be a verification of the items or total quantities required. Approval shall not relieve the Contractor from responsibility for complying with details of the plans and specifications, correct dimensions for proper fitting of parts, performance, construction or any other requirements of the Contract.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 12/29/2001

By _____

APR 14 2002

Therma-Tru Corporation

ACCEPTANCE No.: 01-1004.03

APPROVED: November 29, 2001

EXPIRES: November 9, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews Notice of Acceptance (NOA) No. 00-0613.02, which was issued on November 9, 2000. It renews the approval of a fiberglass outswing door, as described in Section 2 of this NOA, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series "Fiberclassic" Outswing Residential Insulated Opaque (embossed) Fiberglass Door- Large Missile Impact Resistant & with Sidelites Non-Impact Resistant and its components shall be constructed in strict compliance with the following document: Drawing No S-2030, Sheets 1 through 7 of 7, titled "Therma-Tru Fiberglass-Outswing," prepared by RW Building Consultants, Inc., dated 9/20/00 and revised on 10/17/00, signed sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control renewal stamp with the NOA number and expiration date by the Miami-Dade County Product Control Division. This document shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of a double door or single door with or without sidelites, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.

4. INSTALLATION

4.1 The Outswing Residential Insulated Fiberglass door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters):
Sidelites: Installation of this unit **will require** a Hurricane protection system.
Doors : Installation of this unit **will not require** a Hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Raul Rodriguez, Chief
Product Control Division

NOA 1-4.03

Therma-Tru Corporation

ACCEPTANCE No.: 01-1004.03

APPROVED: November 29, 2001

EXPIRES: November 9, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
   a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
   b) The product is no longer the same product (identical) as the one originally approved;
   c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
   d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
   a) Unsatisfactory performance of this product or process.
   b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Raul Rodriguez, Chief
Product Control Division

THERMA-TRU®

THE "FIBER CLASSIC", "SMOOTH START" & "CLASSIC CRAFT"
OUTSWING INSULATED FIBERGLASS DOOR

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. MIAMI-DADE APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED FOR SIDELITES.
5. DESIGNED PRESSURE RATING SEE TABLE SHEET 1
6. SIDELITES ARE AN OPTION AND CAN BE IN A SINGLE OR DOUBLE DOOR CONFIGURATION.

RESIDENTIAL INSULATED FIBERGLASS DOOR
(Common to all frame conditions)

Door Leaf Construction:

Face sheets: Fiberglass 0.090" minimum thickness, with yield strength Fy(min.)= 5,000 psi

Core design: Polyurethane foam core, with 2.1 lbs. density by BASF

Frame Construction: The head and side jambs are finger jointed ponderosa pine measuring 4.5825" x 1.25". The head and side jambs are mortised, butted and joined using (3) #10 x 2.5" PFH wood screws at the lap corners and (3) 16ga. 0.5" crown x 2.0" long staples at the threshold ends.

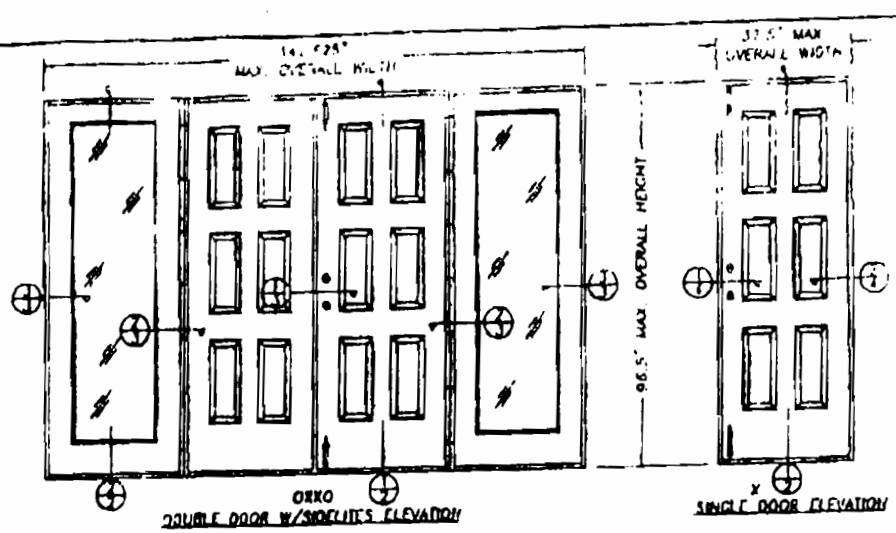
Panel Construction: Flush or embossed type. The vertical edges of the face sheet are flush and glued to the finger jointed pine stiles and rails. Weld and rails are butt jointed to styles at corners. Panels are sandwich glazed using a two piece urethane like frame with mitered & welded corners. The glass is dry glazed on the exterior with a cellular tape.

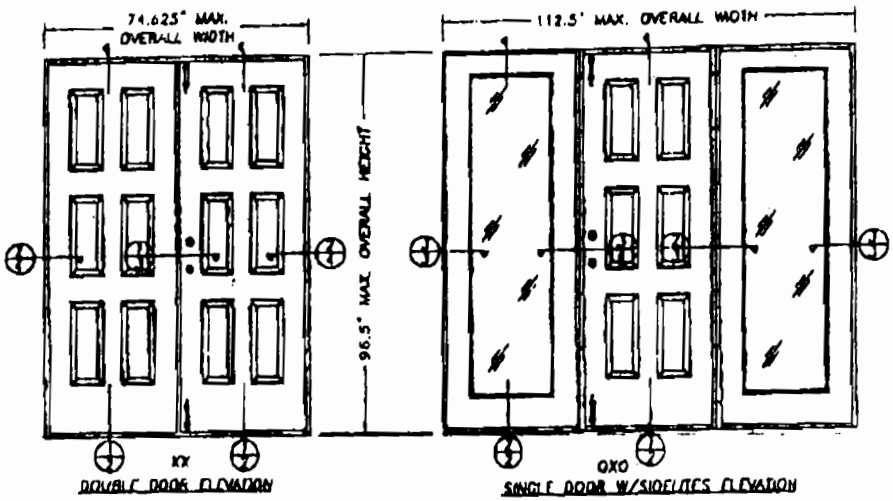
TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	COMMON (GENERAL NOTES, TYPICAL ELEVATIONS)
2	VERTICAL CROSS SECTIONS & BILL OF MATERIALS
3	HORIZONTAL CROSS SECTIONS
4	HORIZONTAL CROSS SECTIONS & DOOR MODELS
5	ANCHORING LOCATIONS
6	ANCHORING LOCATIONS & GLAZING DETAILS
7	FRAME COMPONENTS

DESIGN PRESSURE RATING

UNIT TYPE	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED
SINGLE	+ 49.0 PSF - 80.0 PSF
DOUBLE	+ 49.0 PSF - 66.0 PSF
SINGLE OR DOUBLE WITH SIDELITES	+ 49.0 PSF - 66.0 PSF





ALL DOOR MODELS ARE VIEWED FROM THE INTERIOR SIDE (OUTSWING DOORS)

NOTE: SURFACE BOLTS ARE ON THE ACTIVE DOOR PANELS ONLY

PRODUCT RENEWED
ACCEPTANCE No. 01-1004.03
EXPIRATION DATE: March 9, 2006
BY: PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: September 09 2000
BY: Shirley J. Clarke
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO: 00-0613.02

THERMA-TRU®
138 MUTZFELD Rd
BUTLER, IN 4672
PH (219) 868-5811

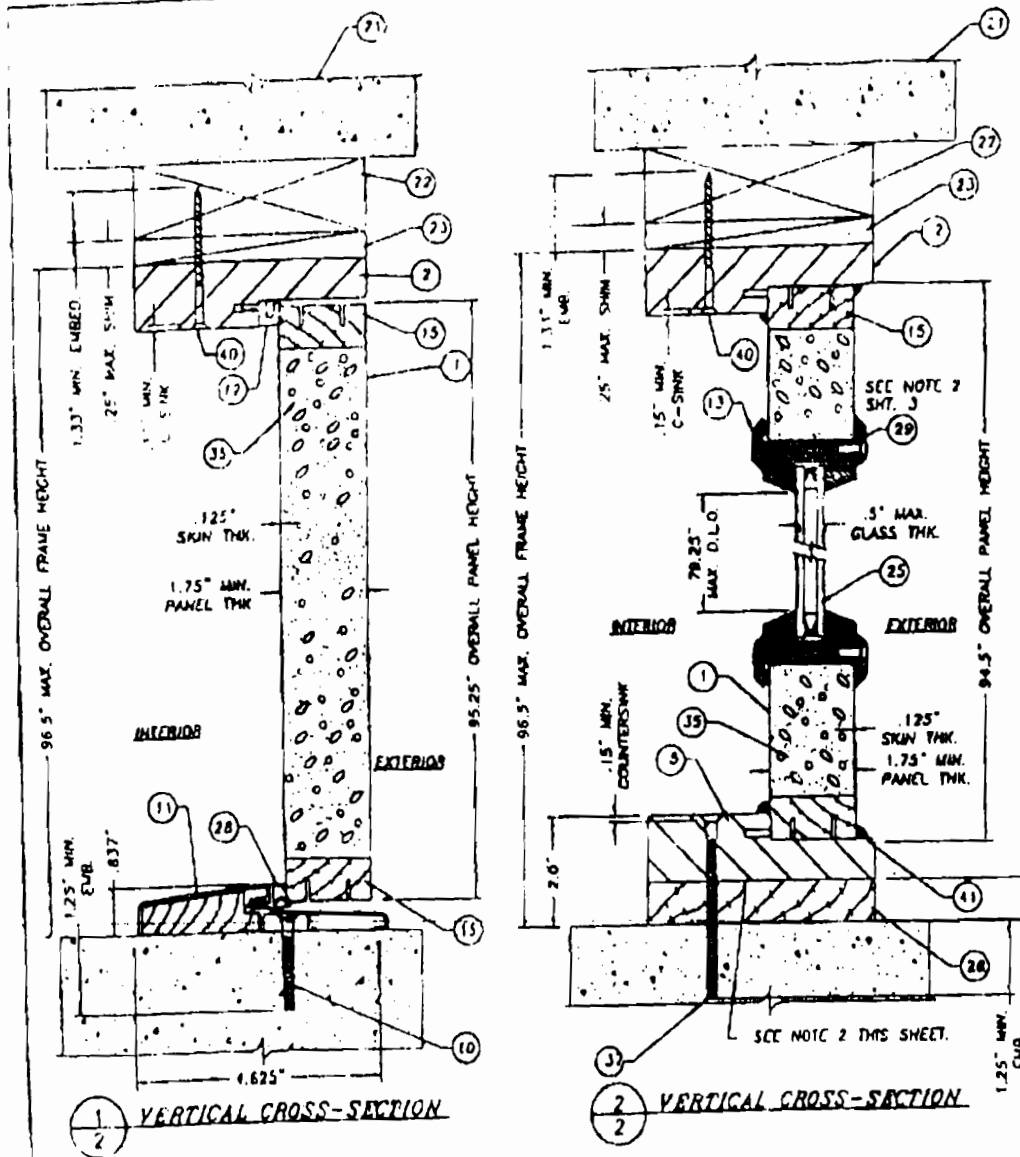
PRODUCT: THERMA TRU FIBERGLASS OUTSWING UP TO 12-0 x 8-0 W/3-0 SIDELITES
PART OF ASSEMBLY:
ELEVATIONS AND GENERAL NOTES

NO	DATE	REVISIONS	BY
2	10/17/00	GENERAL REVISION	TJH
1	9/25/00	GENERAL REVISION	TJH

RW BUILDING CONSULTANTS, INC. 813.681.3831

DATE: 9/20/00
SCALE: N.T.S
DRW. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2030
SHEET 1 OF 7

10/29 2002 15:20 9544613455 HUTTIG BLDG MATERIAL PAGE 04



Item	DESCRIPTION	Material
1	8.0 GOOR SKIN .125" MIN THK FIBERGLASS BY THERMA-TRU with yield strength (min) 35,000 psi	FIBERGLASS
2	6 1/2" HEAD JAMB (THERMA-TRU, PONDEROSA PINE)	WOOD
3	4 1/2" LATCH JAMB (THERMA-TRU, PONDEROSA PINE)	WOOD
4	4 1/2" HINGE JAMB (THERMA-TRU, PONDEROSA PINE)	WOOD
5	4 1/2" BLANK JAMB (THERMA-TRU, PONDEROSA PINE)	WOOD
6	4" x 4" HINGES .097" THK. (THERMA-TRU)	STEEL
7	#10 x 3/4" LG (Hinge to Frame)	STEEL
8	#10 WOOD SCREW X 1 1/2" LG	STEEL
9	#10 x 1 1/4" LG. WOOD SCREW	STEEL
10	3/16" TAPCON ANCHOR (ELCO 1.75" MIN. LG.)	ALUM./WOOD
11	ONE PIECE BLANK FACE THRESHOLD (THERMA-TRU)	
12	COMPRESSION WEATHERSTRIP (THERMA-TRU)	PVC
13	PLASTIC UP LITE FRAME (MFG. BY THERMA-TRU)	POLYPROP.
13A	PLASTIC UP LITE FRAME (MFG. BY THERMA-TRU)	STEEL
14	#10 x 1 1/4" LG. TYPE "A" FLATHEAD	WOOD
15	TOP & BOTTOM RAIL (1.75" x 7.625") (THERMA-TRU, PONDEROSA PINE)	WOOD
16	BLANK SIDE STILE (THERMA-TRU, PONDEROSA PINE)	WOOD
17	#8 x 1/2" LG. TYPE "AB" PANHEAD	STEEL
18	#10 WOOD SCREW X 2" LG.	STEEL
19	KWIKSET 200 DL PASSAGE	
20	KWIKSET 660 DCAD0DLT	
21	MASONRY WALL	
22	2x WOOD BUCK	WOOD
23	MAX. 1/4" SKIN MATERIAL	WOOD
24	ASSEMBLY (JAMB, SILL PAN, HEAD, & PONDEROSA PINE 8/4/4" x 8" REAL MFG. BY THERMA-TRU	WOOD/ALUM.
25	GLAZING, 1/4" INSULATED TEMPERED GLASS	GLASS
26	3/4" THK. PRESSURE TREATED SIDELITE PAD	WOOD
27	#12 x 1 1/2" LG. PANHEAD SHEET METAL SCREW	STEEL
28	BULB WEATHERSTRIP (THERMA-TRU)	VINYL
29	#6-18 x 1 1/4" PHILLIPS FLATHEAD SCREW	STEEL
30	#10 x 1" LG. PHILLIPS FLATHEAD SCREW	STEEL
31	LATCH SIDE STILE (THERMA-TRU, PONDEROSA PINE)	WOOD
32	HINGE SIDE STILE (THERMA-TRU, PONDEROSA PINE)	WOOD
33	CORRUGATED STAPLE FASTENER (1 1/2" X 3/4")	STEEL
34	4" x 1.825" CONTINUOUS LVL STILE	LVL
35	POLYURETHANE FOAM (BLKF, 2.1lbs. DENSITY)	FOAM
36	HEX SURFACE BOLT	STEEL
37	3/16" TAPCON ANCHOR (ELCO 3.25" MIN. LG.)	STEEL
38	1/8 THK. CLEAR GLAZING (APC (STK-4 APC)	-
39	#10 x 3" LG. PHILLIPS FLATHEAD SCREW	STEEL
40	#10 x 3" LG. WOOD SCREW	STEEL
41	SEALANT	SILICONE

NOTE:
1. SIDELITE IS DIRECT SET INTO JAMB WITH #10 x 2" PH.F.H. WOOD SCREWS AT 6" FROM EACH END AND A MAX. OF 12" O.C. ON VERTICAL LEG JAMBS ONLY.
2. SIDELITE PAD IS SECURED TO THE SIDELITE SILL W/CONSTRUCTION ADHESIVE.

PRODUCT RENEWED
ACCEPTANCE No. 61-1004.03
EXPIRATION DATE: November 9, 200
PRODUCT CONTROL DIVISION
BUILDING CODES COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: November 09, 2000
By: Wing-Chung
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0615.01

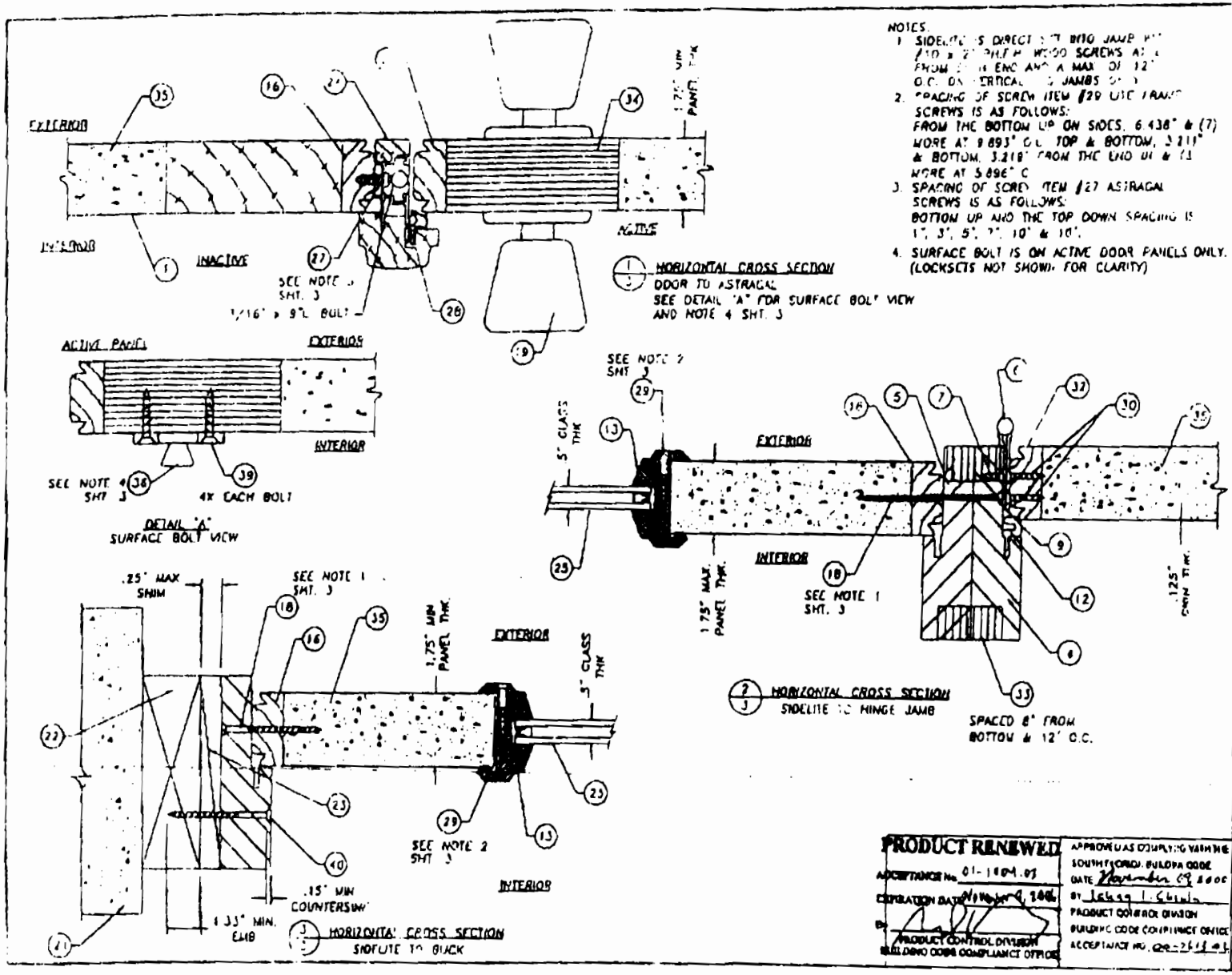
THERMA TRU®
108 MUTZFELD Rd
BUTLER, IN 46721
PH (219) 868-5811

PRODUCT: THERMA TRU FIBERGLASS OUTSWING UP 2-0 x 8-0 W/3-0 SIDELITES
PART OF ASSEMBLY:
VERTICAL CROSSSECTIONS & BILL OF MATERIALS

NO	DATE	REVISIONS	BY
2	10/17/00	GENERAL REVISION	TJH
1	9/25/00	GENERAL REVISION	TJH

RW BLANCHARD CONSULTANTS, INC. 813.681.3831

DWG. 9/20/00
SCALE: 1/2" - 1"
DWG BY: T.J.H
CHK. BY: R.W
DRAWING NO. S-2030
SHT 2 OF 2



THERMADTRU
108 MUTZFELD RD
BUTLER, IN 46721
PH (219) 868-5811

PRODUCT: THERMA TRU FIBERGLASS OUTSWING UP TO 12'-0" x 8'-0 W/2-0 SIDELITES
PART OR ASSEMBLY
HORIZONTAL CROSS SECTIONS

REVISIONS

NO	DATE	DESCRIPTION	BY
2	10/12/00	GENERAL REVISION	TJH
1	9/25/00	GENERAL REVISION	TJH

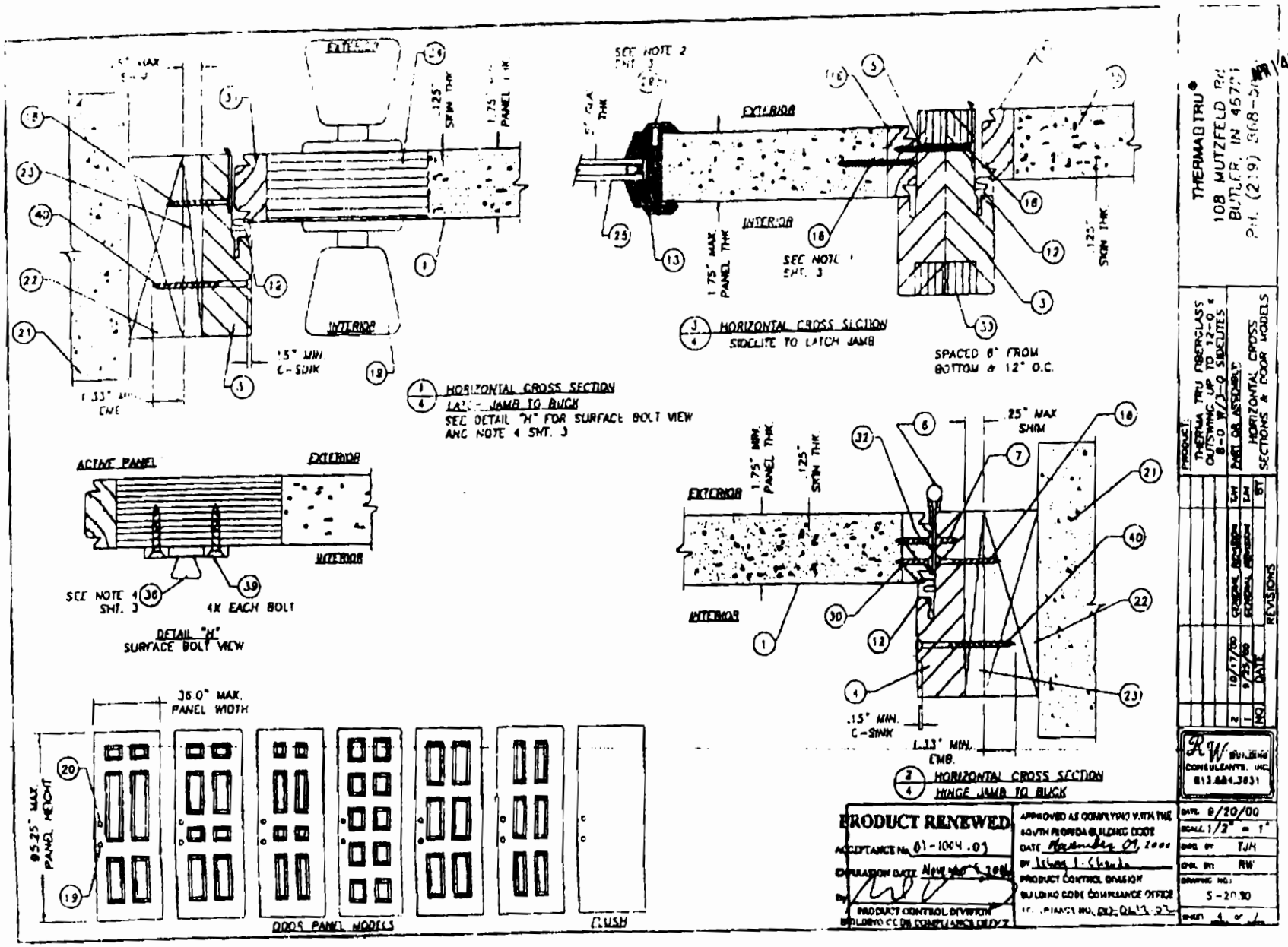
RW BUILDING CONSULTANTS, INC 813.684.3631

DATE: 8/20/00
SCALE: 1/2" = 1'
DWG. BY: TJH
CHK. BY: RPH
DRAWING NO.: S-2030
SHT. 2 OF 2

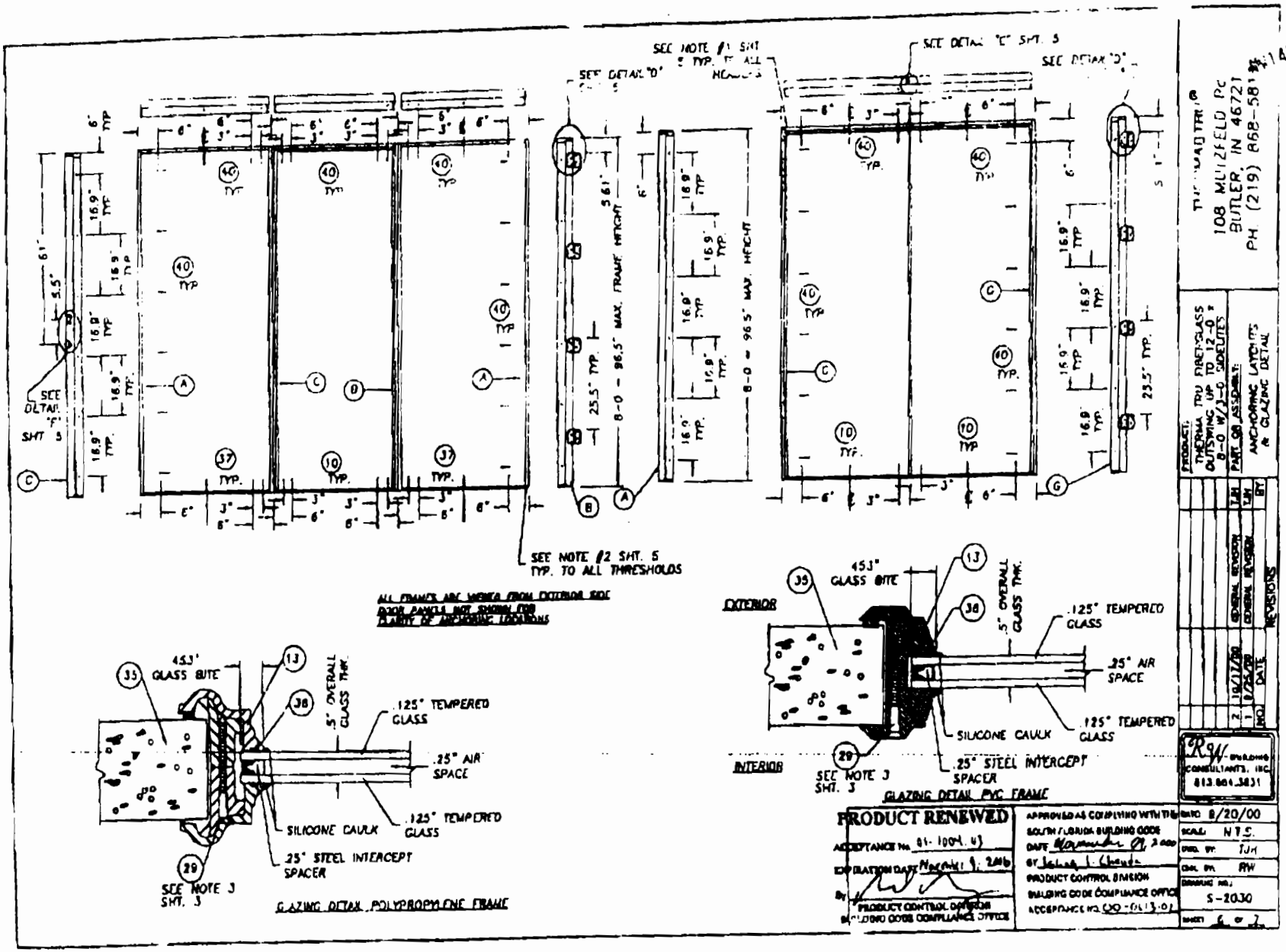
PRODUCT RENEWED
ACCEPTANCE No. 01-1804.01
EXPIRATION DATE November 9, 2005
BY PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE November 09 2000
BY Jeffrey L. Shirah
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-2511.01

12/29/2000 15:20 3654113465 HUTTIG BLDG MATERIAL PAGE 05


EXTERIOR
INTERIOR
.15" MIN C-SINK
1.33" MIN. DMB.
1 / 4 HORIZONTAL CROSS SECTION JAMB TO BUCK
SEE DETAIL "H" FOR SURFACE BOLT VIEW AND NOTE 4 SHT. 3
SEE NOTE 2 SHT. 3
.125" SKIN THK
1.75" MAX PANEL THK
SEE NOTE 1 SHT. 3
1 / 4 HORIZONTAL CROSS SECTION SIDELITE TO LATCH JAMB
SPACED 8" FROM BOTTOM & 12" O.C.
ACTIVE PANEL
SEE NOTE 4 SHT. 3
4X EACH BOLT
DETAIL "H" SURFACE BOLT VIEW
1.75" MIN. PANEL THK.
.25" MAX SHIM
1 / 4 HORIZONTAL CROSS SECTION HINGE JAMB TO BUCK
36.0" MAX. PANEL WIDTH
95.25" MAX. PANEL HEIGHT
DOOR PANEL MODELS
FLUSH
PRODUCT RENEWED
ACCEPTANCE No. 01-1004.01
EXPIRATION DATE November 9, 2005
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE November 09, 2000
BY Ishwar I. Chanda
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
THERMA-TRU
108 MUTZFELD RD.
BUTLER, IN 46721
PH. (219) 868-5746
PRODUCT: THERMA-TRU FIBERGLASS OUTSWING UP TO 12'-0" x 8'-0" W/1'-0 SIDELITES
PART OF ASSEMBLY
HORIZONTAL CROSS SECTIONS & DOOR MODELS
REVISIONS
NO. DATE
2 10/17/00
1 9/25/00
RW BUILDING CONSULTANTS, INC. 813.884.3831
DATE 8/20/00
SCALE 1 1/2" = 1'
DWG. BY TJH
CHK. BY RW
GRAPHIC NO. S-2030
SHEET 4 OF 6

HUTTIG BLDG MATERIAL 9544815400



PRODUCT RENEWED
ACCEPTANCE No. 91-1004.4
EXPIRATION DATE March 1, 2000
By
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE November 21, 2000
By Jeffrey L. Chastain
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE No. 00-0113.01

THERMA TRU DOOR SYSTEMS
108 MUNZFELD PL
BUTLER, IN 46721
PH (219) 868-5881

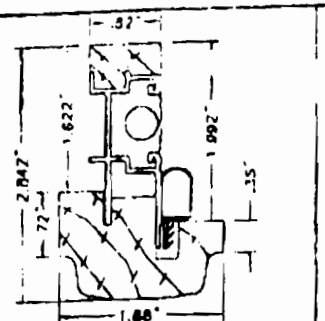
PRODUCT: THERMA TRU FIBERGLASS OUTSWING UP TO 12'-0" x 8'-0" W/2'-0" SIDELITES
PART OF ASSEMBLY:
ANCHORING LAYOUTS & GLAZING DETAIL

NO	DATE	REVISIONS
1	10/27/00	GENERAL REVISION LJH
2	11/21/00	GENERAL REVISION LJH

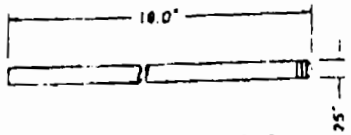
RW BUILDING CONSULTANTS, INC. 813.864.3831

DATE 8/20/00
SCALE N.T.S.
DWG. BY TJH
CHK. BY RW
DRAWING NO. S-2030
SHEET 6 OF 7

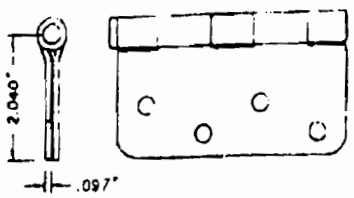
10/29/2002 17:23 9544[illegible]3466 HUTTIG BLDG MATERIAL PAGE 09



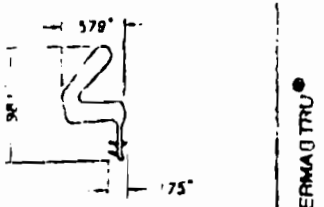
ASTRAGAL (ALUMINUM/WOOD) .052" WALL TYP.



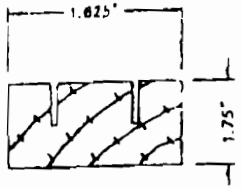
ASTRAGAL FLUSH BOLT
MATERIAL: C/R ROD ZINC & YELLOW CHROMATE



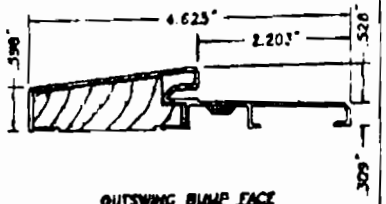
4 x 4 STEEL DOOR HINGE



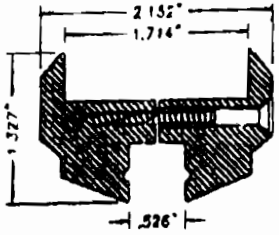
COMPRESSION WEATHERSTRIP
FOAM CELL CORE W/ VINYL JACKET



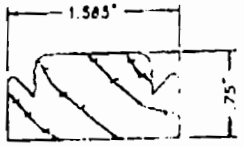
TOP & BOTTOM RAIL



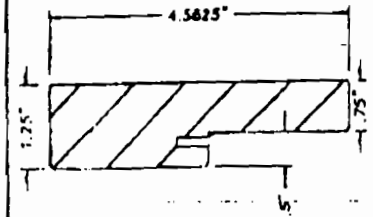
OUTSWING BUMP FACE
ALUMINUM/WOOD THRESHOLD
.050" WALL TYP.



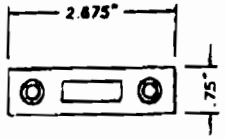
PLASTIC LIP LITE FRAME
EXTRUDED PVC



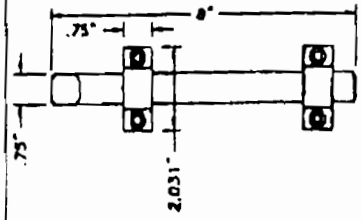
WOOD HINGE, LATCH & BLANK STYLE



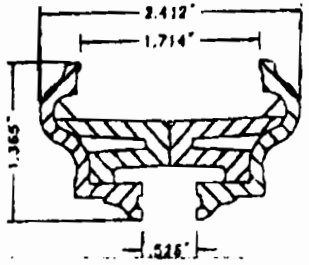
WOOD FRAME



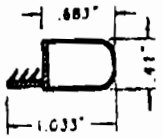
SURFACE BOLT STRIKE (.125" STEEL)
ATTACH TO SILL USING #10 x 2 1/2" F.H. SHEET METAL SCREWS PROVIDED WITH BOLT.



SURFACE BOLT (NTS)
ATTACH TO DOOR USING #10 x 1 1/4" F.H. SHEET METAL SCREWS PROVIDED WITH BOLT.



PLASTIC LIP LITE FRAME
EXTRUDED POLYPROPOLENE



BULB WEATHERSTRIP
BY THERMA-TRU
MATERIAL: RIGID TEKNOR APEX 8BN-80PC
FLEX TEKNOR APEX 902-A

THERMA-TRU®
102 MUTTFIELD RD
BUTLER, IN 46721
PH. (219) 868-5811

PRODUCT: THERMA TRU FIBERGLASS OUTSWING UP TO 12'-0" x 8'-0" W/3'-0 SIDELITES
PART OR ASSEMBLY: FRAME COMPONENTS

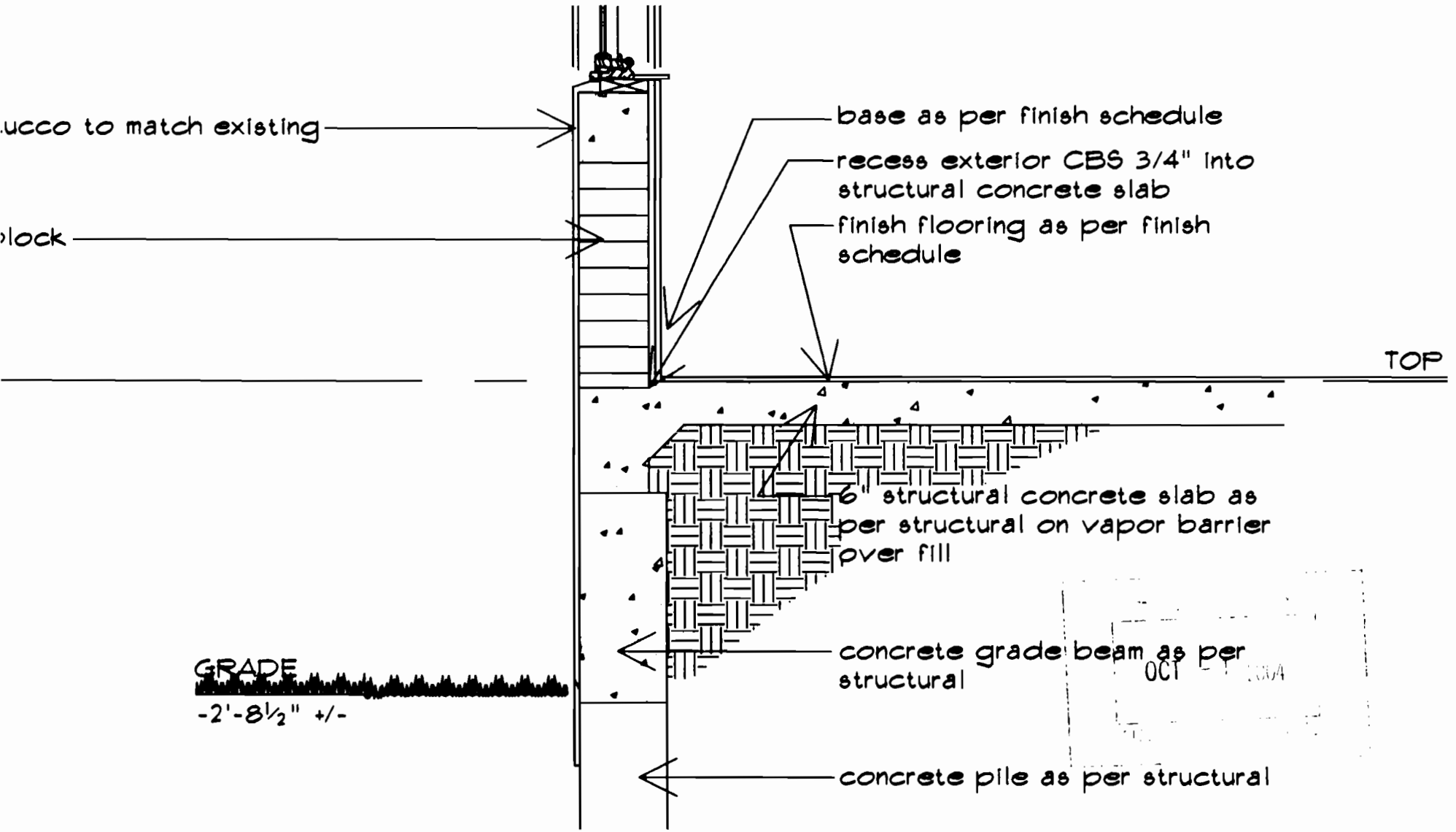
NO	DATE	REVISIONS	BY
2	10/17/00	ADDITIONAL REVISION	TJH
1	9/25/00	GENERAL REVISION	TJH

RW BUILDING CONSULTANTS, INC. 813.884.3831

PRODUCT RENEWED
ACCEPTANCE No. 01-1604.05
EXPIRATION DATE 1 Dec 2006
By PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE Nov 09, 2000
BY Joseph J. Lomb
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO 00-1111.04

DATE 9/20/00
SCALE N.T.S.
DRAWN BY TJH
CHK'D BY RW
DRAWING NO. S-2030
SHEET 7 OF 7



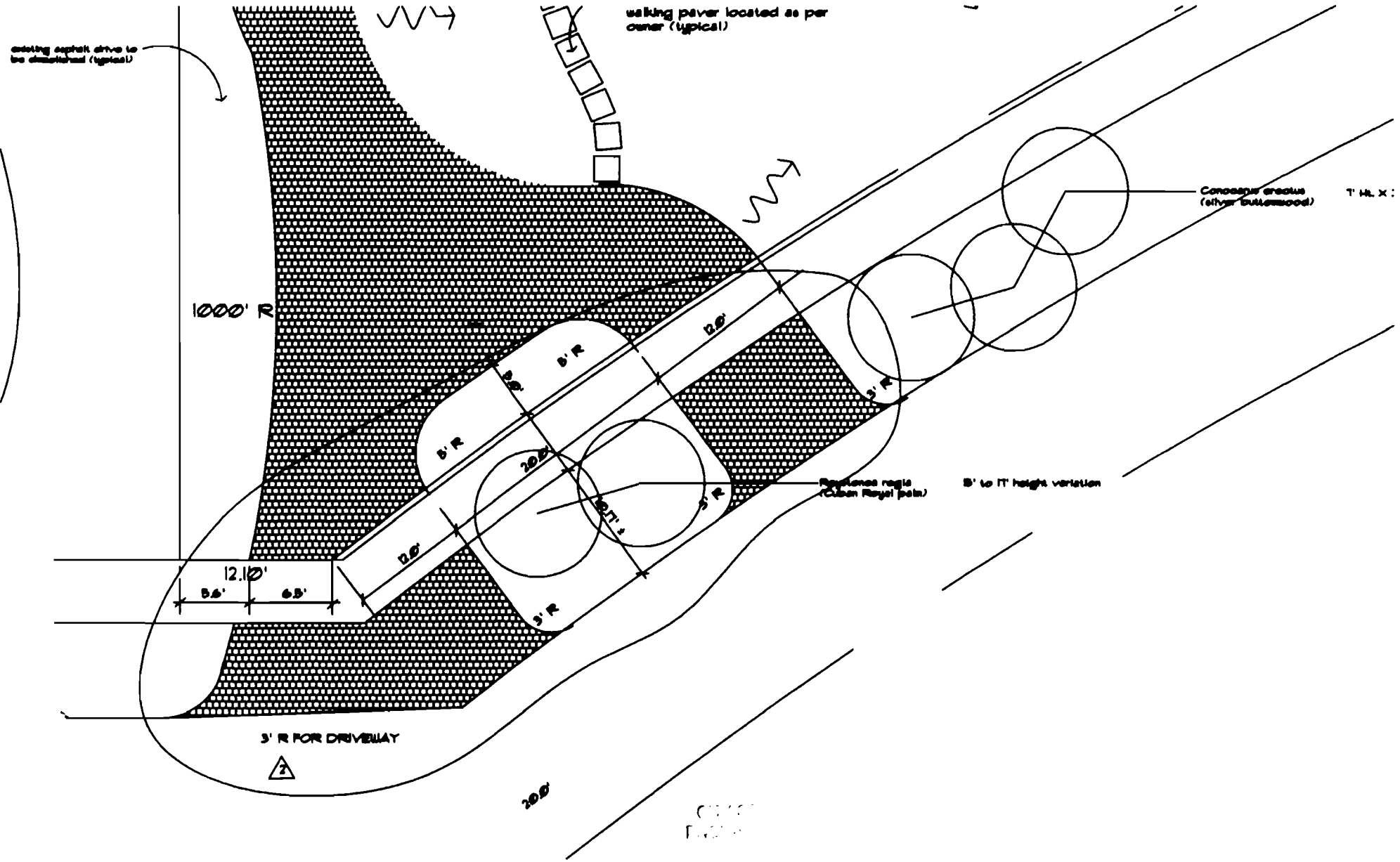
A
2 | 4

WALL SECTION

SCALE: 3/4"=1'-0"

OCT

9/16/04



AR000 9462
9/16/04

Date 10/6/04 Shop Drawing No. ———

(✓) APPRC

( ) APPROVED Subject to Notations and Corrections as Indicated

( ) DISAPPROVED: Revise as Indicated by Notations and Corrections and Re-Submit.

Checking of Shop Drawings is limited to general design and general arrangement only and is not intended to be a verification of the items of total material required. Approval shall not relieve the Contractor from responsibility of complying with details of design requirements of Specifications, correct dimensions, proper fitting capacity, performance, construcion or any other requirements of the Contract.

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

NOTICE OF ACCEPTANCE (NOA)

Pella Corporation
102 Main Street
Pella, IA 50219

By

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Clad Wood Fixed Window – Impact

APPROVAL DOCUMENT: Drawing No. **1032**, titled "Aluminum Clad Direct Glazed Fixed Windows", sheets 1 through 3 of 3, dated 12/05/00 with revision A1 dated 10/14/02, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 02-1021.05** and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Pella Corporation
102 Main Street
Pella ,IA 50219

Your application for Notice of Acceptance (NOA) of:
Aluminum Clad Wood Fixed Window - Impact Resistant
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0124.09
EXPIRES: 04/07/2003

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 11/15/2001

Pella Corporation

ACCEPTANCE No.: 01-0124.09

APPROVED : NOV 1 5 2001

EXPIRES : April 7, 2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This revises the Notice of Acceptance No. **99-0723.01**, which was issued on April 7, 2000. It approves an aluminum clad wood fixed window, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The **Aluminum Clad Wood Fixed Window – Impact Resistant,** and its components shall be constructed in strict compliance with the following documents: Drawing No **1032**, Sheets 1 through 3 of 3, titled "Aluminum Clad Fixed Frame Windows," prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 12/05/00, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications and side-by-side installations, as shown in approved drawings.

4. INSTALLATION

4.1 The aluminum clad wood fixed window and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters): the installation of this unit **will not require** a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance.

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez, P.E., Product Control Examiner
Product Control Division

Accurate
PEST CONTROL, INC.

PROCESS # 66066

NOTICE OF TERMITE PROTECTIVE TREATMENT

AS REQUIRED BY FLORIDA BUILDING CODE (FBC) 104.2.6

DATE OF TREATMENT: 6/21/05 TIME OF TREATMENT: 1 APPLICATOR: CB

BUILDER NAME: Seay

TREATMENT ADDRESS: 1201 S South Lake Dr

HO

JOB #: 2 Areas LOT: _____ BLOCK: _____ UNIT: _____

SPRAY & TAMP SPRAY ONLY SPRAY # _____ RESIDENTIAL COMMERCIAL ADDITION

CHEMICAL: Demon .25 % 50 GALLONS

MONOLITHIC 500 S/F STEMWALL _____ SF

_____ L/F _____ L/F

PERIMETER TREATMENT

CHEMICAL: _____ _____ % _____ GALLONS

DATE OF TREATMENT: _____ TIME OF TREATMENT: _____ APPLICATOR: _____

JUN 14 2005

300 S. STATE ROAD 7 PLANTATION, FLORIDA 33317 954-584-8588 1-800-749-8588 FAX: 954-584-6117

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

PGT Industries
P.O. Box 1529
Nokomis, FL 34274

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 2"x Heavy Wall-Aluminum Tube Clipped Mullion

APPROVAL DOCUMENT: Drawing No. 6623, titled "2" Heavy Wall Mullion Arrangement Detail", sheets 1 through 5 of 5, prepared, signed and sealed by Robert L.Clark, P.E., dated 5/24/01, bearing the Miami-Dade County Product Control Revision Stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 01-0323.03 and, consists of this page 1 as well as approval document mentioned above.
The submitted documentation was reviewed by **Theodore Berman, P.E.**

JUL 17 2002

Date 10/6/04 Shop Drawing No.

[✓] APPROVE.

[ ] APPROVED Subject to Notations and Corrections as Indicated

[ ] DISAPPROVED: Revise as Indicated by Notations and Corrections and Re-Submit.

Checking of Shop Drawings submitted to general design and general arrangement only and is not intended to be a verification of the items or information required. Approval shall not relieve the Contractor from responsibility for complying with details of design requirements of Specifications, correct dimensions, proper fitting, performance, construction or any other requirements of the Contract.

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

NOTICE OF ACCEPTANCE (NOA)

Pella Corporation
102 Main St.
Pella, IA 50219

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Clad Outswing Wood French Door with Sidelites

APPROVAL DOCUMENT: Drawing No. 1035, titled "Aluminum Clad Outswing French Doors", sheets 1 through 5 of 5, prepared by W. W. Schaefer, dated 1/5/01, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 01-0124.05** and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**

PRODUCT CONTROL ACCEPTED

Pella Corporation

ACCEPTANCE No.: 01-0124.05

APPROVED : NOV 15 2001

EXPIRES : December 09, 2002

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This revises the Notice of Acceptance No. **99-0712.02**, which was issued on December 09, 1999. It approves an aluminum clad outswing wood French door with Sidelites, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The **Aluminum Clad Outswing Wood French Door with Sidelites – Impact Resistant**, and its components shall be constructed in strict compliance with the following documents: Drawing No. **1035**, Sheet 1 through 5 of 5, titled "Aluminum Clad Outswing French Doors," prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 1/05/01, signed and sealed by Warren W. Schaefer, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of pair of doors and single door with and without sidelites, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.

4. INSTALLATION

4.1 The aluminum clad outswing wood French door with Sidelites and its components shall be installed in strict compliance with the approved drawings.

4.2 The installation of this product **will not require** a hurricane protection system.

5. LABELING

5.1 Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

- 6.1.1 This Notice of Acceptance.
- 6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Pella Corporation

ACCEPTANCE No.: 01-0124.05

APPROVED : NOV 15 2001

EXPIRES : December 09, 2002

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
   b) The product is no longer the same product (identical) as the one originally approved:
   c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
   d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a) Unsatisfactory performance of this product or process.
   b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez, P.E., Product Control Examiner
Product Control Division

Pella Corporation

ACCEPTANCE No.: 01-0124.09

APPROVED : NOV 15 2001

EXPIRES : April 7, 2003

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

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   a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
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8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

APR 14 2000

END OF THIS ACCEPTANCE

Manuel Perez, P.E., Product Control Examiner
Product Control Division

REPORT OF SUBSURFACE SOIL EXPLORATION & GEOTECHNICAL ENGINEERING EVALUATION OF SUBSURFACE CONDITIONS

PROPOSED RESIDENCE ADDITION

HOLLYWOOD, FLORIDA

JUNE 2004

Prepared for:

MR. JAMES BULLOCK

HOLLYWOOD, FLORIDA

WINGERTER LABORATORIES, INC.
1820 NE 144th Street
North Miami, Florida 33181

WINGERTER
LABORATORIES INC.

Engineering Testing and Inspection Service
Established 1949

No. 1 June 4, 2004

Mr. James Bullock
1201 North South Lake Drive
Hollywood, Florida 33019

Attn: Mr. Bill Seay

RE: Report of Subsurface Soil Exploration and Geotechnical Engineering
Evaluation of Subsurface Conditions
Proposed Residence Addition
1201 North South Lake Drive, Hollywood, Florida
WLI Order No. 04-1421

Dear Mr. Seay:

We are pleased to present this report of our subsurface soil exploration and geotechnical engineering evaluation for the subject site. These services were performed in general accordance with the scope of services outlined in our proposal dated May 26, 2004. This report presents our evaluation and specific recommendations for the proposed construction together with the field data.

We appreciate this opportunity to be of service to you during this phase of the project. If you have any questions or comments regarding the information contained in this report, please call us at (305) 944-3401.

Prepared By:

Alexis Paniagua, EI
Geotechnical Engineer

Respectfully submitted,
WINGERTER LABORATORIES, INC.

6-7-04

Robert H. Schuler, P.E., P.G.
Florida Registration No. 34715

enc: Report

P-68/Time Charges: Engineering: LS

The original of this report was signed and sealed by the above referenced Florida Registered Professional Engineer in accordance with Rule 61G15-18.011 of the Florida Administrative Code.

1820 N.E. 144th St. • P.O. Box 611450 • North Miami, FL 33261-1450 • (305) 944-3401 • 1-800-345-SOIL • Fax: (305) 949-8698
Broward: (954) 764-0472 • Dispatch Fax: (305) 949-1328
STEEL • CEMENT • CONCRETE • PAVEMENT INSPECTIONS • TEST BORINGS • SPECIFICATIONS • CONSULTATIONS
Florida Certificate # E-614

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MAY 14 2008

INTRODUCTION

Wingerter Laboratories, Inc. (WLI) is pleased to present this report of our subsurface soil exploration and geotechnical engineering evaluation for the subject site. The purpose of this investigation was to obtain specific subsurface data in order to provide an engineering evaluation of the subsurface conditions including recommendations for foundation design for support of the proposed residence additon to be located at the site at 1201 North South Lake Drive, Hollywood, Florida.

Our subsurface exploration consisted of a total of one (1) Standard Penetration Test Boring performed at the subject site as shown on Appendix B of this report.

The following presents a review of the project information provided to us, a discussion of the subsurface conditions, detailed geotechnical engineering recommendations and our Report of Test Boring Number B-1.

PROJECT INFORMATION

Documents provided to us for the purposes of this project consisted of a site plan of the property with the proposed location of the new addition.

Based on our review of this document and our conversation with Mr. Bill Seay, it is our understanding that the proposed project will consist of adding a new dining room area to the proposed residence with dimensions of 19 feet by 16 feet.

TESTING PROGRAM AND CONDITIONS REVEALED

Our subsurface investigation consisted of a total of one (1) Standard Penetration Test Boring, conforming to the requirements of ASTM D 1586, which was performed at the site on June 1, 2004. Please see Appendix A for our Report of Test Boring Number B-1 for detailed description of the materials encountered and the depth intervals at which they were encountered. The test boring locations are shown in Appendix B of this report.

The number, location and depth of the test boring was determined by **WLI**, taking into consideration the requirements of the project, site accessibility and the subsurface conditions revealed. The discussions, opinions and recommendations contained in this report are based upon the conditions revealed in the referenced test boring.

A review of the test boring logs indicates that the site is generally mantled by loose to medium dense sands and silty sands with some fragmented limestone found in the first 4 feet of depth, underlain by very soft gray organic silt extending to a depth of 10 feet below the existing ground elevation. Beneath, a soft limerock and silty limesand foundation was encountered extending to the maximum explored depth of 35 feet below the existing ground surface elevation.

APR 07 2004

The ground water level at the time of our investigation was encountered at a depth of 5.5 feet below the existing land surface. Fluctuations in the ground water level should be expected due to seasonal climatic changes, tidal action, rainfall variation, surface runoff, construction activity and other site specific factors.

GEOTECHNICAL ENGINEERING EVALUATION & RECOMMENDATIONS

Evaluation of the subsurface data obtained from the boring test boring logs, using accepted geotechnical engineering criteria, indicates that the existing subsurface soil conditions encountered at the site are not suitable and can not provide adequate support if the proposed addition is founded upon conventional shallow spread footings, placed directly upon this conditions.

Test borings performed revealed the presence of organic silts between 4 and 10 feet of depth. These soils are highly compressible and are expected to consolidate excessively when subjected to the building loads associated with the proposed structure. Consolidation of the these soils is expected to result in large excessive, total and differential settlements, which can be detrimental to the proposed structure addition.

Therefore, it is our recommendation that the proposed addition be supported upon a deep foundation system, such as piles. The use of pile foundations allows for a more direct transmission of the applied loads to the more stable rock formations encountered below the unsuitable compressible soils, thereby reducing the risk of excessive settlements and cracks.

These piles when installed extending into the limerock formation at a depth of 19 feet below the existing land surface, are expected to develop a maximum allowable compressive capacity of 25 tons, a maximum allowable tension capacity of 8 tons and a maximum allowable lateral capacity of 2.5 tons.

1. Auger Cast (Cast-In-Place) Pile Foundations

1.1. Recommended size:14 inches diameter.

1.2. Bearing capacity: 25 tons.

1.3. Tension capacity: Piles may be considered to develop uplift resistance of 8 tons, presuming that the reinforcing design is adequate for the stated uplift.

1.4. Lateral capacity: Piles may be considered to develop lateral resistance of 2.5 tons, presuming that the reinforcing design is adequate for the stated shear.

1.5 Installation depth: Auger shall be advanced to a depth of 19 feet referenced to existing site grade.

APR 14 2009

1.6. Physical Criteria:

1.6.1. Augered shaft shall remain plumb within one-eighth of the shaft diameter, that is within 1.75 inches for a 14-inch pile.

1.6.2. Augering and pumping equipment, and technique shall be at the contractor's discretion on a performance basis by using acceptable installation procedures to deliver an integral pile.

1.6.3. The volume of grout per linear foot of pile shall exceed the theoretical pile volume with a minimum grout factor of 1.15.

1.6.4. Grout shall be a mixture of Portland cement, fine aggregate, and water with proportions and admixtures at the contractor's discretion on a performance basis. A design mix with confirming strength test results shall be submitted to the project structural engineer for approval prior to installation of the piles. The minimum 28-day compressive strength of the grout shall be no less than 4000 psi.

1.6.5. Grouting shall be performed in a continuous operation. During extraction of the auger, should volume of grout-take markedly increase and/or injection pressure markedly decrease, auger shall be reinserted to a minimum five (5) feet below the point in question, and grouting resumed. The procedure shall be repeated as frequently as necessary to insure vertical continuity of the grout shaft.

1.6.6. Down-shaft reinforcing details shall be at the discretion of the contractor on a performance basis; however, reinforcing details shall be presented to the project structural engineer for approval prior to installation of the piles.

1.6.7. Piles shall be installed in a sequence so that the grout in adjacent piles has had time to set such that adjacent piles are not disturbed.

1.7. Testing and inspection:

1.7.1. At the recommended capacity, a static load test is not required by Section 1806.4 of the Florida Building Code.

1.7.2. Pile installation shall be witnessed and logged by the geotechnical inspector. Geotechnical inspector shall confirm shaft plumbness, compliance with depth requirements, continuity of grouting, and reinforcing details; inspector's log shall include the preceding and all other pertinent data including pile identification.

1.7.3. Grout shall be sampled and test cylinders or cubes shall be cast for 28-day strength confirmation at the frequency of no less than one sampling per 50 cubic yards placed, but at least one sampling in each sustained grouting operation.

2. Geotechnical Inspector

2.1. Experience indicates that the actual subsoil conditions at a site could vary from those generated on the basis of test borings made at specific locations. Therefore, it is essential that a geotechnical engineer be retained to provide soil engineering services during the site preparation, excavation and foundation phases of the proposed project. This is to observe compliance with the design concepts, specifications and recommendations and to allow design changes in the event that subsurface conditions differ from those anticipated prior to the start of construction.

2.2. The geotechnical inspector as referenced hereinbefore shall be a Registered Professional Engineer licensed in the State of Florida and experienced in the practice of geotechnical engineering, or his designated field agent. The results of all inspections by the geotechnical inspector shall be submitted on report or log forms duly signed and sealed in accordance with Rule 61G15-18.011 of the Florida Administrative Code.

2.3. The geotechnical inspector shall be retained by the owner, the project architect, or the project structural engineer.

INVESTIGATIVE PROCEDURES

Field work was performed using standard drilling equipment. Soil samples (disturbed) were obtained in accordance with ASTM D-1586 utilizing a 2-foot long, 2-inch diameter split spoon sampler which is advanced by successive blows of a 140 pound hammer free-falling 30 inches. The number of blows for each 6 inches of penetration is recorded. The sum of the second and third blow counts for each 2-foot sampling interval constitutes the Standard Penetration Resistance in blows per foot, which is referred to as the "N" Value. The following tables may be used in interpreting the consistency of the materials based on the "N" Value:

SOIL CONSISTENCY vs. "N VALUE"					
Cohesionless Soils		**Cohesive Soils**		**Rock and Gravels**	
"N Value" (blows/ft)	Consistency Designation	"N Value" (blows/ft)	Consistency Designation	"N Value" (blows/ft)	Consistency Designation
0 to 4	Very Loose	0 to 2	Very Soft	0 to 25	Loose or Soft
5 to 10	Loose	3 to 4	Soft	26 to 50	Medium Dense
11 to 30	Medium Dense	5 to 8	Medium	51 to 90	Dense
31 to 50	Dense	9 to 15	Stiff	-	-
50 or More	Very Dense	16 to 30	Very Stiff	-	-
-	-	31 or More	Hard	-	-

The Standard Penetration Test, "N" value curve shown on the boring logs indicates the general variation of the "N" value throughout the depth of the boring. This curve is plotted in a straight line which connects each "N" value. However, it should not be assumed that the changes in the "N" value are a linear function. The graphical representations shown on the boring logs should not be substituted for the actual material descriptions included in the logs.

Soil samples will be retained by **WLI** for a period of thirty (30) days only unless specifically requested otherwise by the client.

Test borings were staked in the field by **WLI**, using approximate methods. Borings were located by taped distances from existing recognizable landmarks. Boring locations are, therefore, generally as shown, but no degree of accuracy is stated or implied.

Elevations were not established for the test boring locations. Depths reported on the logs represent depths below ground surface as they existed on the date drilled. The client is cautioned that if subsequent filling or excavation of the site occurs, the reported depth must be so adjusted. **WLI** can not assume responsibility for the accuracy of reported depths if the site is disturbed subsequent to the date drilled.

SPECIAL REMARKS & ANNOTATIONS

In dealing with the unseen subsurface dimension, a prudent test boring program acts to identify the general range of conditions and to reduce, but not eliminate, the risks of unknown conditions. Therefore, **WLI** cannot offer a warrantee, expressed or implied, that materials or conditions other than those revealed in the test borings will not be encountered, nor that the relative proportions and density of the materials will not vary from those reported.

Furthermore, **WLI** assumes no responsibility for the accuracy of the reported depths should any excavation, filling or alteration of the site grade occur, subsequent to the date of the drilling operation, without surveying the existing conditions.

Also, since the criteria furnished to **WLI** constitutes our total knowledge and understanding of the project; inaccuracies, deviations or alterations of the criteria may invalidate these recommendations to the extent they impact the magnitude, distribution, and elevation of applied loads, or impact the nature of the construction.

APPENDIX A

TEST BORING LOGS

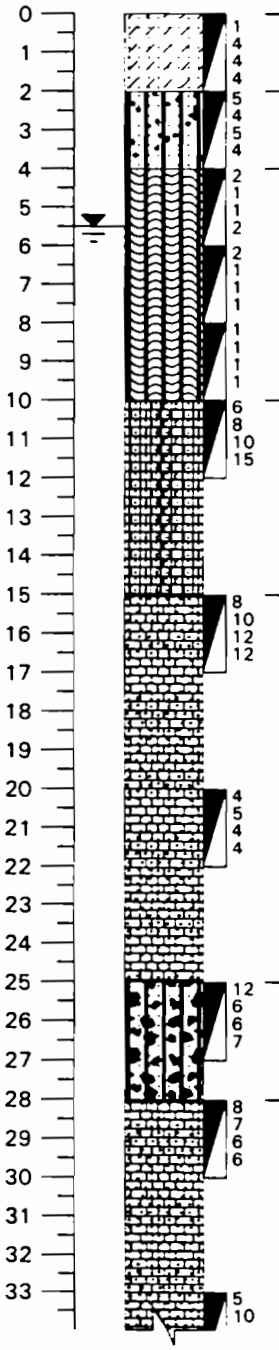
WINGERTER LABORATORIES INC.
Professional Engineering & Testing

T..ST BORING LOG

BORING NO.: B-1

CLIENT: *Mr. James Bullock*
PROJECT: *Proposed Residence Addition*
LOCATION: *As shown on boring location sketch*
DRILLER: *J. Cooper*
DRILL RIG: *CMS*
DEPTH TO WATER: *5.5'*

ELEVATION: -
DATE STARTED: *6-1-04*
DATE COMPLETED: *6-1-04*



DEPTH (feet)	SOIL DESCRIPTION	STANDARD PENETRATION TEST			
		SAMPLE NO.	SAMPLING INTERVAL	N	N-value CURVE
0	Brown SAND with some roots (topsoil)	1	0.0-2.0	8	
2	Tan sandy SILT with some fragmented limestone	2	2.0-4.0	9	
4	Gray organic SILT	3	4.0-6.0	2	
6		4	6.0-8.0	2	
8		5	8.0-10.0	2	
10	Light tan LIMESTONE and silty SAND	6	10.0-12.0	18	
15	Light tan LIMESTONE with some limesand	7	15.0-17.0	22	
20		8	20.0-22.0	9	
25	Light tan LIMESILT with some fragmented limestone	9	25.0-27.0	12	
28	Light tan LIMESTONE with some limesand	10	28.0-30.0	13	
33		11	33.0-35.0		

N-value CURVE: 10 30 50 70 90

This information pertains only to this boring and should not be interpreted as being indicative of the site.

WINGERTER LABORATORIES INC.
Professional Engineering & Testing

T ST BORING LOG

BORING NO.: B-1

CLIENT: *Mr. James Bullock*
PROJECT: *Proposed Residence Addition*

DEPTH (feet)	SOIL SYMBOLS, AND BLOWS PER SIX INCHES	SOIL DESCRIPTION	STANDARD PENETRATION TEST			
			SAMPLE NO.	SAMPLING INTERVAL	N	N-value CURVE
34	10 10				20	10 30 50 70 90
35		Boring terminated at 35.0'				
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LEGEND

Symbol Description

Soil symbols

Sand with some to trace organics

Sandy silt with some to trace limestone

Organics and silt

Fragmented limestone with some to trace silty sand

Limestone with some to trace sand

Fragmented limestone and silt with some to trace sand

Misc. Symbols

Water table at
boring completion

Boring continues

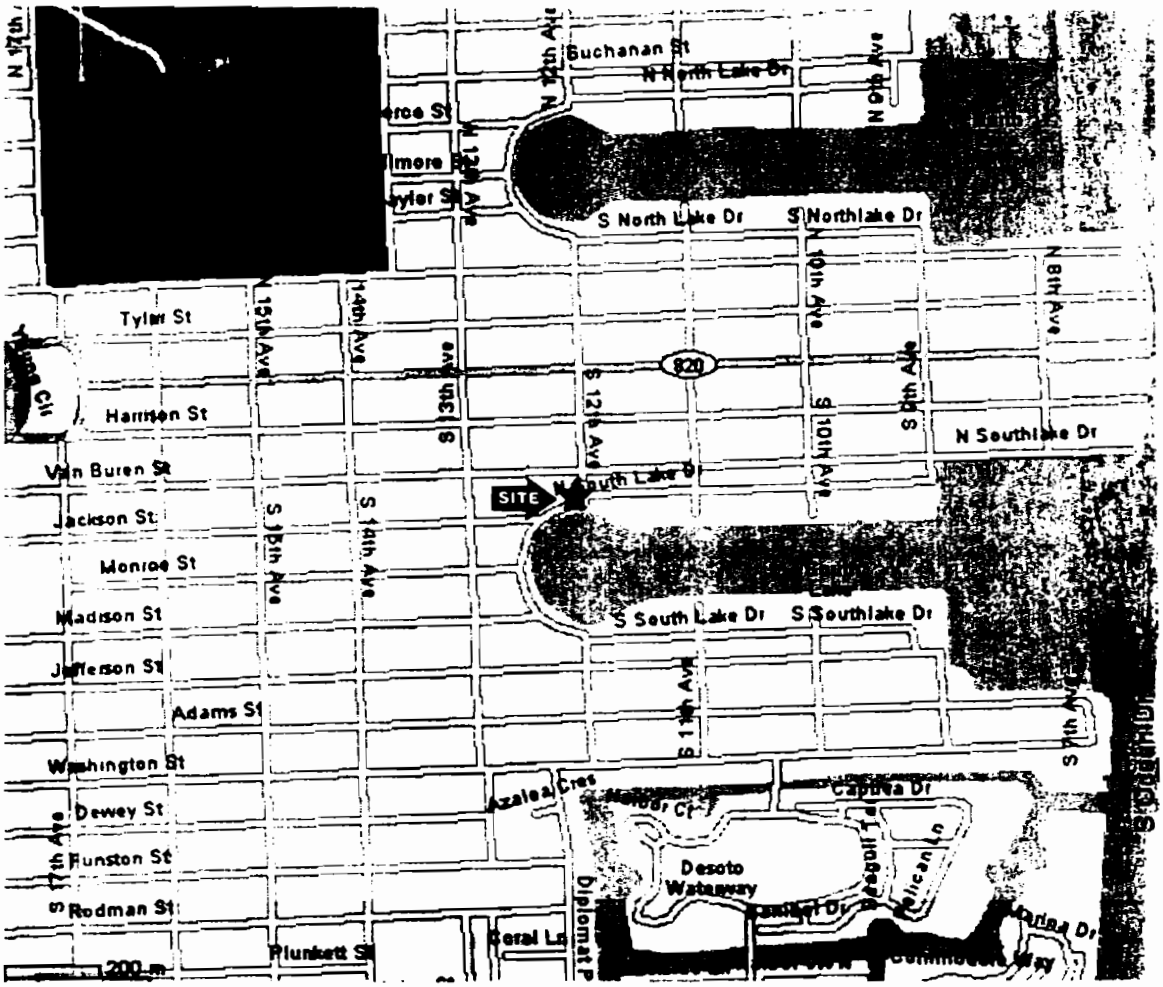
Soil Samplers

Standard penetration test

APPENDIX B

TEST BORING LOCATION MAP & SKETCH

TEST BORING LOCATION MAP



PREPARED BY: DATE:

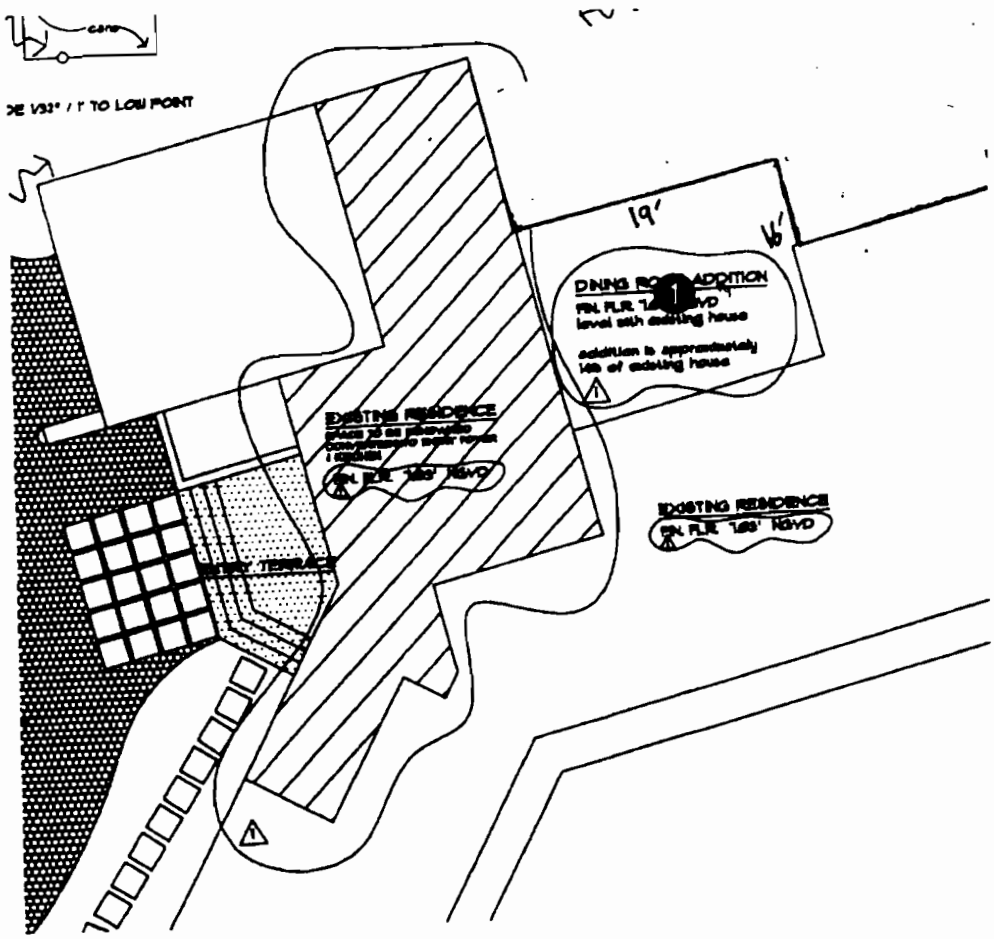
WINGERTER LABORATORIES INC.

Professional Engineering & Testing

P. O. Box 611450, North Miami, Fl 33261-1450

Mr. James Bullock
Proposed Residence Addition
1201 N. South Lake Drive, Hollywood, FL

TEST BORING LOCATION SKETCH



● TEST BORING LOCATION

PREPARED BY: AP

DATE: 6/3/04

WINGERTER LABORATORIES INC.
Professional Engineering & Testing
P. O. Box 611450, North Miami, Fl 33261-1450

Mr. James Bullock
Proposed Residence Addition
1201 N. South Lake Drive, Hollywood, FL

02562

Department of Planning and Environmental Protection
Land Use and Permit Division
218 S.W. 1st. Avenue
Fort Lauderdale, Fl 33301
(954) 519-1250 • FAX (954) 519-1494

APPLICATION FOR REVIEW OF CONSTRUCTION PLANS
Project Information

Owner (or Agent) William Seay, Inc. Phone 954-923-0288
Mailing Address 2020 Taylor Street, 2C, Hlwd., FL 33020
Project Address 1201 N. South Lake Drive City Hollywood
Plat Name (as recorded in official records) Hollywood Lakes
Plat Book 32 Page _____ Lot 10&11 Block 27
Give a brief description of the proposed project new dining room Addition

Type of Review Cup3
Building Department Jurisdiction City of Hollywood
Title of Drawings Bullock Residence Last Revision Date 12-18-03

CERTIFICATION

I hereby attest and certify the above supplied information is accurate and complete as it pertains to the construction to be undertaken in accordance with the plans herein submitted, and acknowledge any change in construction plans affecting information listed hereon shall require a new submission.

Signed William Seay (Owner or authorized representative) Date 12-22-03
Name and Title (print) William Seay, President

FALSIFICATION OF THIS APPLICATION SHALL BE GROUNDS FOR DENIAL OR REVOCATION

To be completed by DPEP

Attention Building Department

Upon examination of the proposed construction activity listed above DPEP has determined that the project falls within the Broward County DPEP exemptions listed below and does not require approval by this agency.

1. Carports
2. Swimming pools (residential)
3. Residential wood decks
4. Residential slabs under 250 SF
5. Signs
6. Enclosure of condominium balconies
7. Construction of storage building (less than 250 sq. ft.) and any prefabricated storage building for residential areas, attached or free standing.
8. Improvements to mobile homes
9. Mobile homes being placed onto existing pads and hookups in mobile home park already approved by DNRP.
10. Covered or uncovered patios under 250 sq. ft.
11. Screen porches on existing slabs
12. Interior changes to retail or office buildings in which there is no change in use (vacant less then 6 mos.) seating capacity, and no materials being removed or disturbed
13. Additions to residences on septic tank
14. Repair to existing buildings
15. Fences (Residential)
16. Electrical installations (Except for Commercial first time use)
17. Interior remodeling of a home
18. Lawn sprinkler systems
19. Satelite dish (antenna) construction for residences
20. Additions ~~other than enclosures~~ to single or multi family residences on sewer.
22. Other _____

Be advised that any modifications in the project should be submitted for review, as changes may result in Broward County DPEP approval being required.

By Wendy A. Jacobs Date 12/23/03

200 LP 8 (Rev. 6/00)

FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM

O.M.B. No. 3067-007.
Expires July 31, 2002

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1 - 7.

SECTION A - PROPERTY OWNER INFORMATION

For Insurance Company Use:

BUILDING OWNER'S NAME: JAMES M BULLOCK

Policy Number:

BUILDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO.: 12C N SOUTHLAKE DRIVE

Company NAIC Number:

CITY: HOLLYWOOD STATE: FL ZIP CODE: 33019

PROPERTY DESCRIPTION (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)

BUILDING USE (e.g., Residential, Non-residential, Addition, Accessory, etc. Use Comments section if necessary.)

LATITUDE/LONGITUDE (OPTIONAL) (##° - ##' - ##.##" or ##.#####°) HORIZONTAL DATUM: ☐ NAD 1927 ☐ NAD 1983 SOURCE: ☐ GPS (Type): ☐ USGS Quad Map ☐ Other:

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP COMMUNITY NAME & COMMUNITY NUMBER	B2. COUNTY NAME	B3. STATE
125113 HOLLYWOOD	BROWARD	FLORIDA

B4. MAP AND PANEL NUMBER	B5. SUFFIX	B6. FIRM INDEX DATE	B7. FIRM PANEL EFFECTIVE/REVISED DATE	B8. FLOOD ZONE(S)	B9. BASE FLOOD ELEVATION(S) (Zone AO, use depth of flooding)
C317	G	7/21/95	10/2/97	AE	7.0

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other (Describe):

B11. Indicate the elevation datum used for the BFE in B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe):

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date:

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Building Diagram Number 1 (Select the building diagram most similar to the building for which this certificate is being completed - see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)

C3. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO
Complete Items C3a-i below according to the building diagram specified in Item C2. State the datum used. If the datum is different from the datum used for the BFE in Section B, convert the datum to that used for the BFE. Show field measurements and datum conversion calculation. Use the space provided or the Comments area of Section D or Section G, as appropriate, to document the datum conversion.
Datum _____ Conversion/Comments _____
Elevation reference mark used _____ Does the elevation reference mark used appear on the FIRM? ☐ Yes ☐ No

☐ a) Top of bottom floor (including basement or enclosure)	6.45	ft.(m)
☐ b) Top of next higher floor	7.0	ft.(m)
☐ c) Bottom of lowest horizontal structural member (V zones only)	N/A	ft.(m)
☐ d) Attached garage (top of slab)	4.47	ft.(m)
☐ e) Lowest elevation of machinery and/or equipment servicing the building	N/A	ft.(m)
☐ f) Lowest adjacent grade (LAG)	4.37	ft.(m)
☐ g) Highest adjacent grade (HAG)	4.53	ft.(m)
☐ h) No. of permanent openings (flood vents) within 1 ft. above adjacent grade	0	
☐ i) Total area of all permanent openings (flood vents) in C3h	0	sq. in. (sq. cm)

License Number, Embossed Seal, Signature, and Date

STATE OF FLORIDA
P.S.M. NO. #5101

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information.
I certify that the information in Sections A, B, and C on this certificate represents my best efforts to interpret the data available.
I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME: MIGUEL ESPINOSA LICENSE NUMBER: 5101

TITLE: PROFFESSIONAL SURVEYOR & MAPPER COMPANY NAME: MIGUEL ESPINOSA LAND SURVEYING, INC.

ADDRESS: 6494 S.W. 24 Street CITY: MIAMI STATE: FL ZIP CODE: 33155

SIGNATURE: DATE: 4/27/01 TELEPHONE: 305-740-3319

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 03/30/05
Process Number: 66066
E-Mail Address: W-SEAY@bellsouth
Project/Reference: Bullock

For Review By: (check ☑ all applicable spaces)

Division: ☒ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☒ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: William Seay, Inc,
2020 Taylor Street, 2C
Address: Hollywood, FL 33020

E-Mail Address: W-SEAY@bellsouth.net
Contact: ~~Bill Seay~~ Subrina
Phone: ~~954-923-0288~~ Fax: ~~954-923-3681~~
(954) 907 1187

WE ARE SUBMITTING TO YOU (check ☑)

Via ☒ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

☐ E-mail
☐ initial (original) sets of plans
☐ corrected (non-permitted) plans
☐ revised (permitted) plans
☐ shop drawings: ☐ structural steel
☐ wood trusses
☐ glass/glazing
☐ product approvals
☐ fire protection
☐ spot survey
☐ final survey
☐ energy (insulation) certification
☐ special inspector letter
☐ soil report
☐ inspection reports
☐ energy calcs
☐ site plans
☒ other Piling log

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #	☐ Fire sheet #
☐ Structural sheet #	☐ Zoning sheet #
☐ Electrical sheet #	☐ Engineering sheet #
☐ Mechanical sheet #	☐ RCC sheet #
☐ Plumbing sheet #	☐ Drainage sheet #
☐ Water sheet #	☐ Sewer sheet #

Special Instructions:

For Departmental Use Only:

Received by: CD Date: 5/25

FLORIDA FOUNDATION SYSTEMS INC.
2780 NE 16 STREET
POMPANO BEACH, FL 33062
OFFICE (954) 786 - 0455
FAX (954) 782 - 9991

ATLAS FIELD INSTALLATION LOG - HELICAL PIERS

PROJECT LOCATION:

Property Owner	Bullock Res
Street Address	1201 N. South Lake Dr.
City / State	Hollywood, FL.

PROJECT DATA:

Date	March 20, 2005
Contractor	William Seay
Eng./Arch.	John H. Omslaer, P.E.
Application	Home Addition
Installation Date	March 18, 2005

PRODUCT SELECTION:

Pier Part Number	Helical R2875.262
Helix Configuration (diameters)	12" - 14"
Lift Cylinder Area	N/A
Gear Motor Size (ft-lbf@psi)	12000 ft/lb @ 4250 psi
Installation Flow	10-30 GPM

PIER #	SECTION LENGTH	# OF SECTIONS	DEPTH REFERENCE	TOTAL LENGTH	HELICAL TORQUE	ULTIMATE LOAD	DESIGN LOAD
1	7'	4	Grade	24'	Refusal	20 Tons	10 Tons
2	Deleted	X	X	X	X	X	X
3	7'	4	Grade	24'	Refusal	20 Tons	10 Tons
4	7'	4	Grade	24'	Refusal	20 Tons	10 Tons
5	7'	3	Grade	16'	Refusal	28 Tons	14 Tons
6	7' & 5' 3"	4	Grade	23' 6"	Refusal	28 Tons	14 Tons
7	7'	4	Grade	24'	Refusal	20 Tons	10 Tons
8	7'	3	Grade	20' 6"	Refusal	20 Tons	10 Tons
9	7'	3	Grade	17'	Refusal	20 Tons	10 Tons
10	7'	4	Grade	24'	Refusal	20 Tons	10 Tons

NOTES: See building plans for piling locations.
Caps: 6" X 8" X 3/4" with 2 Nelson Studs 8" X 1/2" dia.

Dynamic Engineering Solutions Inc.
935 N.W. 31 Ave. Suite D
Pompano Beach, FL. 33069
John H. Omslaer, P.E.
PE # 52733 EB # 9011

3/24/05

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 05/24/06
Process Number: 66066
E-Mail Address: bilccccc@comcast.net
Project/Reference: Bullock

For Review By: (check ☑ all applicable spaces)

Division: ☒ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☒ Mechanical ☐ Reserve Capacity Charges

From: William Seay, Inc.
Address: 2020 Taylor Street, 2C
Hollywood, FL 33020

E-Mail Address: bilccccc@comcast.net
Contact: William Seay
Phone: 954-923-0288 Fax: 954-923-3681

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #	☐ Fire sheet #
☐ Structural sheet #	☐ Zoning sheet #
☐ Electrical sheet #	☐ Engineering sheet #
☐ Mechanical sheet #	☐ RCC sheet #
☐ Plumbing sheet #	☐ Drainage sheet #
☐ Water sheet #	☐ Sewer sheet #

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☐ special delivery ☐ fax copy

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- ☐ initial (original) sets of plans
- ☐ corrected (non-permitted) plans
- ☐ revised (permitted) plans
- ☐ shop drawings: ☐ structural steel, ☐ wood trusses, ☐ glass/glazing, ☐ product approvals, ☐ fire protection
- ☐ spot survey
- ☐ final survey
- ☐ energy (insulation) certification
- ☐ special inspector letter
- ☐ soil report
- ☐ inspection reports
- ☐ energy calcs
- ☐ site plans
- ☒ other change of contractor

Special Instructions:

For Departmental Use Only:

Received by: _____ Date: ___/___/___

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 8/20/04
Process Number: 66066
E-Mail Address:
Project/Reference:

For Review By: (check ☑ all applicable spaces)

Division: ☐ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☑ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: Sabrina Figueroa

Addres: 2324 Hollywood Blvd.

E-Mail Address:

Contact:

Phone: (954) 907-1187 Fax:( )

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #	☐ Fire sheet #
☐ Structural sheet #	☐ Zoning sheet #
☐ Electrical sheet #	☐ Engineering sheet #
☐ Mechanical sheet #	☐ RCC sheet #
☐ Plumbing sheet #	☐ Drainage sheet #
☐ Water sheet #	☐ Sewer sheet #

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- ☐ special inspector letter
- ☐ soil report
- ☐ inspection reports
- ☐ energy calcs
- ☐ site plans
- ☐ other

Special Instructions:

For Departmental Use Only:

Received by: Val Date: 8/20/04

REPORT OF SUBSURFACE SOIL EXPLORATION & GEOTECHNICAL ENGINEERING EVALUATION OF SUBSURFACE CONDITIONS

PROPOSED RESIDENCE ADDITION

HOLLYWOOD, FLORIDA

JUNE 2004

Prepared for:

MR. JAMES BULLOCK

HOLLYWOOD, FLORIDA

WINGERTER LABORATORIES, INC.
1820 NE 144th Street
North Miami, Florida 33181

WINGERTER LABORATORIES INC.

Engineering Testing and Inspection Service
Established 1949

No. 1 June 4, 2004

Mr. James Bullock
1201 North South Lake Drive
Hollywood, Florida 33019

Attn: Mr. Bill Seay

RE: Report of Subsurface Soil Exploration and Geotechnical Engineering
Evaluation of Subsurface Conditions
Proposed Residence Addition
1201 North South Lake Drive, Hollywood, Florida
WLI Order No. 04-1421

Dear Mr. Seay:

We are pleased to present this report of our subsurface soil exploration and geotechnical engineering evaluation for the subject site. These services were performed in general accordance with the scope of services outlined in our proposal dated May 26, 2004. This report presents our evaluation and specific recommendations for the proposed construction together with the field data.

We appreciate this opportunity to be of service to you during this phase of the project. If you have any questions or comments regarding the information contained in this report, please call us at (305) 944-3401.

Prepared By:

Alexis Pamagua, EI
Geotechnical Engineer

Respectfully submitted,
WINGERTER LABORATORIES, INC.

6-7-04

Robert H. Schuler, P.E., P.G.
Florida Registration No. 34715

enc: Report

P-68/Time Charges: Engineering: LS

The original of this report was signed and sealed by the above referenced Florida Registered Professional Engineer in accordance with Rule 61G15-18.011 of the Florida Administrative Code.

820 N.E. 144th St. • P.O. Box 611450 • North Miami, FL 33261-1450 • (305) 944-3401 • 1-800-345-SOIL • Fax: (305) 949-8698
Broward: (954) 764-0472 • Dispatch Fax: (305) 949-1328

STEEL • CEMENT • CONCRETE • PAVEMENT INSPECTIONS • TEST BORINGS • SPECIFICATIONS • CONSULTATIONS

ORTANT: In these spaces, copy the esponding information from Section A.	For Insurance Company Use:
LDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX ... 201 South Lake Drive	Policy Number
CITY Hollywood STATE FL. ZIP CODE	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

COMMENTS crown of road : 3.63'

☐ Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zone AO and Zone A (without BFE), complete Items E1 through E4. *If the Elevation Certificate is intended for use as supporting information for a LOMA or LOMR-F, Section C must be completed.*

E1. Building Diagram Number _____ (Select the building diagram most similar to the building for which this certificate is being completed – see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)

E2. The top of the bottom floor (including basement or enclosure) of the building is ☐☐ ft.(m) ☐☐in.(cm) ☐ above or ☐ below (check one) the highest adjacent grade.

E3. For Building Diagrams 6-8 with openings (see page 7), the next higher floor or elevated floor (elevation b) of the building is ☐☐ ft.(m) ☐☐in.(cm) above the highest adjacent grade.

E4. For Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here.

PROPERTY OWNER'S OR OWNER'S AUTHORIZED REPRESENTATIVE'S NAME

ADDRESS CITY STATE ZIP CODE

SIGNATURE DATE TELEPHONE

COMMENTS

☐ Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below.

G1. ☐ The information in Section C was taken from other documentation that has been signed and embossed by a licensed surveyor, engineer, or architect who is authorized by state or local law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4-G9) is provided for community floodplain management purposes.

G4. PERMIT NUMBER	G5. DATE PERMIT ISSUED	G6. DATE CERTIFICATE OF COMPLIANCE/OCCUPANCY ISSUED

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building is: _____ . ___ ft.(m) Datum: _____

G9. BFE or (in Zone AO) depth of flooding at the building site is: _____ . ___ ft.(m) Datum: _____

LOCAL OFFICIAL'S NAME TITLE

COMMUNITY NAME TELEPHONE

SIGNATURE DATE

COMMENTS

☐ Check here if attachments

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APPENDIX
- A. TEST BORING LOGS
- B. TEST BORING LOCATION MAP & SKETCH

INTRODUCTION

Wingerter Laboratories, Inc. (WLI) is pleased to present this report of our subsurface soil exploration and geotechnical engineering evaluation for the subject site. The purpose of this investigation was to obtain specific subsurface data in order to provide an engineering evaluation of the subsurface conditions including recommendations for foundation design for support of the proposed residence additon to be located at the site at 1201 North South Lake Drive, Hollywood, Florida.

Our subsurface exploration consisted of a total of one (1) Standard Penetration Test Boring performed at the subject site as shown on Appendix B of this report.

The following presents a review of the project information provided to us, a discussion of the subsurface conditions, detailed geotechnical engineering recommendations and our Report of Test Boring Number B-1.

PROJECT INFORMATION

Documents provided to us for the purposes of this project consisted of a site plan of the property with the proposed location of the new addition.

Based on our review of this document and our conversation with Mr. Bill Seay, it is our understanding that the proposed project will consist of adding a new dining room area to the proposed residence with dimensions of 19 feet by 16 feet.

TESTING PROGRAM AND CONDITIONS REVEALED

Our subsurface investigation consisted of a total of one (1) Standard Penetration Test Boring, conforming to the requirements of ASTM D 1586, which was performed at the site on June 1, 2004. Please see Appendix A for our Report of Test Boring Number B-1 for detailed description of the materials encountered and the depth intervals at which they were encountered. The test boring locations are shown in Appendix B of this report.

The number, location and depth of the test boring was determined by **WLI**, taking into consideration the requirements of the project, site accessibility and the subsurface conditions revealed. The discussions, opinions and recommendations contained in this report are based upon the conditions revealed in the referenced test boring.

A review of the test boring logs indicates that the site is generally mantled by loose to medium dense sands and silty sands with some fragmented limestone found in the first 4 feet of depth, underlain by very soft gray organic silt extending to a depth of 10 feet below the existing ground elevation. Beneath, a soft limerock and silty limesand foundation was encountered extending to the maximum explored depth of 35 feet below the existing ground surface elevation.

The ground water level at the time of our investigation was encountered at a depth of 5.5 feet below the existing land surface. Fluctuations in the ground water level should be expected due to seasonal climatic changes, tidal action, rainfall variation, surface runoff, construction activity and other site specific factors.

GEOTECHNICAL ENGINEERING EVALUATION & RECOMMENDATIONS

Evaluation of the subsurface data obtained from the boring test boring logs, using accepted geotechnical engineering criteria, indicates that the existing subsurface soil conditions encountered at the site are not suitable and can not provide adequate support if the proposed addition is founded upon conventional shallow spread footings, placed directly upon this conditions.

Test borings performed revealed the presence of organic silts between 4 and 10 feet of depth. These soils are highly compressible and are expected to consolidate excessively when subjected to the building loads associated with the proposed structure. Consolidation of the these soils is expected to result in large excessive, total and differential settlements, which can be detrimental to the proposed structure addition.

Therefore, it is our recommendation that the proposed addition be supported upon a deep foundation system, such as piles. The use of pile foundations allows for a more direct transmission of the applied loads to the more stable rock formations encountered below the unsuitable compressible soils, thereby reducing the risk of excessive settlements and cracks.

These piles when installed extending into the limerock formation at a depth of 19 feet below the existing land surface, are expected to develop a maximum allowable compressive capacity of 25 tons, a maximum allowable tension capacity of 8 tons and a maximum allowable lateral capacity of 2.5 tons.

1. Auger Cast (Cast-In-Place) Pile Foundations

1.1. Recommended size:14 inches diameter.

1.2. Bearing capacity: 25 tons.

1.3. Tension capacity: Piles may be considered to develop uplift resistance of 8 tons, presuming that the reinforcing design is adequate for the stated uplift.

1.4. Lateral capacity: Piles may be considered to develop lateral resistance of 2.5 tons, presuming that the reinforcing design is adequate for the stated shear.

1.5 Installation depth: Auger shall be advanced to a depth of 19 feet referenced to existing site grade.

1.6. Physical Criteria:

1.6.1. Augered shaft shall remain plumb within one-eighth of the shaft diameter, that is within 1.75 inches for a 14-inch pile.

1.6.2. Augering and pumping equipment, and technique shall be at the contractor's discretion on a performance basis by using acceptable installation procedures to deliver an integral pile.

1.6.3. The volume of grout per linear foot of pile shall exceed the theoretical pile volume with a minimum grout factor of 1.15.

1.6.4. Grout shall be a mixture of Portland cement, fine aggregate, and water with proportions and admixtures at the contractor's discretion on a performance basis. A design mix with confirming strength test results shall be submitted to the project structural engineer for approval prior to installation of the piles. The minimum 28-day compressive strength of the grout shall be no less than 4000 psi.

1.6.5. Grouting shall be performed in a continuous operation. During extraction of the auger, should volume of grout-take markedly increase and/or injection pressure markedly decrease, auger shall be reinserted to a minimum five (5) feet below the point in question, and grouting resumed. The procedure shall be repeated as frequently as necessary to insure vertical continuity of the grout shaft.

1.6.6. Down-shaft reinforcing details shall be at the discretion of the contractor on a performance basis; however, reinforcing details shall be presented to the project structural engineer for approval prior to installation of the piles.

1.6.7. Piles shall be installed in a sequence so that the grout in adjacent piles has had time to set such that adjacent piles are not disturbed.

1.7. Testing and inspection:

1.7.1. At the recommended capacity, a static load test is not required by Section 1806.4 of the Florida Building Code.

1.7.2. Pile installation shall be witnessed and logged by the geotechnical inspector. Geotechnical inspector shall confirm shaft plumbness, compliance with depth requirements, continuity of grouting, and reinforcing details; inspector's log shall include the preceding and all other pertinent data including pile identification.

1.7.3. Grout shall be sampled and test cylinders or cubes shall be cast for 28-day strength confirmation at the frequency of no less than one sampling per 50 cubic yards placed, but at least one sampling in each sustained grouting operation.

2. Geotechnical Inspector

2.1. Experience indicates that the actual subsoil conditions at a site could vary from those generated on the basis of test borings made at specific locations. Therefore, it is essential that a geotechnical engineer be retained to provide soil engineering services during the site preparation, excavation and foundation phases of the proposed project. This is to observe compliance with the design concepts, specifications and recommendations and to allow design changes in the event that subsurface conditions differ from those anticipated prior to the start of construction.

2.2. The geotechnical inspector as referenced hereinbefore shall be a Registered Professional Engineer licensed in the State of Florida and experienced in the practice of geotechnical engineering, or his designated field agent. The results of all inspections by the geotechnical inspector shall be submitted on report or log forms duly signed and sealed in accordance with Rule 61G15-18.011 of the Florida Administrative Code.

2.3. The geotechnical inspector shall be retained by the owner, the project architect, or the project structural engineer.

INVESTIGATIVE PROCEDURES

Field work was performed using standard drilling equipment. Soil samples (disturbed) were obtained in accordance with ASTM D-1586 utilizing a 2-foot long, 2-inch diameter split spoon sampler which is advanced by successive blows of a 140 pound hammer free-falling 30 inches. The number of blows for each 6 inches of penetration is recorded. The sum of the second and third blow counts for each 2-foot sampling interval constitutes the Standard Penetration Resistance in blows per foot, which is referred to as the "N" Value. The following tables may be used in interpreting the consistency of the materials based on the "N" Value:

SOIL CONSISTENCY vs. "N VALUE"					
Cohesionless Soils		**Cohesive Soils**		**Rock and Gravels**	
"N Value" (blows/ft)	Consistency Designation	"N Value" (blows/ft)	Consistency Designation	"N Value" (blows/ft)	Consistency Designation
0 to 4	Very Loose	0 to 2	Very Soft	0 to 25	Loose or Soft
5 to 10	Loose	3 to 4	Soft	26 to 50	Medium Dense
11 to 30	Medium Dense	5 to 8	Medium	51 to 90	Dense
31 to 50	Dense	9 to 15	Stiff	-	-
50 or More	Very Dense	16 to 30	Very Stiff	-	-
-	-	31 or More	Hard	-	-

The Standard Penetration Test, "N" value curve shown on the boring logs indicates the general variation of the "N" value throughout the depth of the boring. This curve is plotted in a straight line which connects each "N" value. However, it should not be assumed that the changes in the "N" value are a linear function. The graphical representations shown on the boring logs should not be substituted for the actual material descriptions included in the logs.

Soil samples will be retained by **WLI** for a period of thirty (30) days only unless specifically requested otherwise by the client.

Test borings were staked in the field by **WLI**, using approximate methods. Borings were located by taped distances from existing recognizable landmarks. Boring locations are, therefore, generally as shown, but no degree of accuracy is stated or implied.

Elevations were not established for the test boring locations. Depths reported on the logs represent depths below ground surface as they existed on the date drilled. The client is cautioned that if subsequent filling or excavation of the site occurs, the reported depth must be so adjusted. **WLI** can not assume responsibility for the accuracy of reported depths if the site is disturbed subsequent to the date drilled.

SPECIAL REMARKS & ANNOTATIONS

In dealing with the unseen subsurface dimension, a prudent test boring program acts to identify the general range of conditions and to reduce, but not eliminate, the risks of unknown conditions. Therefore, **WLI** cannot offer a warrantee, expressed or implied, that materials or conditions other than those revealed in the test borings will not be encountered, nor that the relative proportions and density of the materials will not vary from those reported.

Furthermore, **WLI** assumes no responsibility for the accuracy of the reported depths should any excavation, filling or alteration of the site grade occur, subsequent to the date of the drilling operation, without surveying the existing conditions.

Also, since the criteria furnished to **WLI** constitutes our total knowledge and understanding of the project; inaccuracies, deviations or alterations of the criteria may invalidate these recommendations to the extent they impact the magnitude, distribution, and elevation of applied loads, or impact the nature of the construction.

APPENDIX A

TEST BORING LOGS

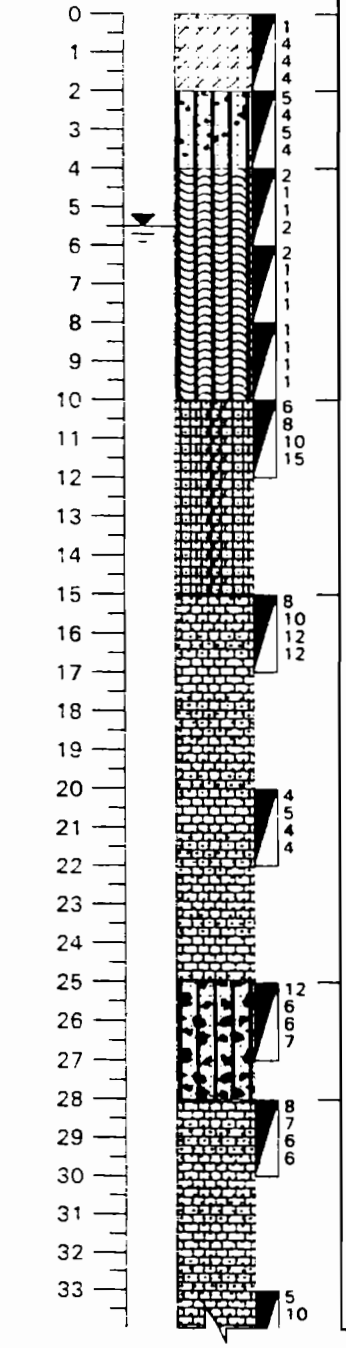
WINGERTER LABORATORIES INC.
Professional Engineering & Testing

TEST BORING LOG

BORING NO.: B-1

CLIENT: *Mr. James Bullock*
PROJECT: *Proposed Residence Addition*
LOCATION: *As shown on boring location sketch*
DRILLER: *J. Cooper*
DRILL RIG: *CMS*
DEPTH TO WATER: *5.5'*

ELEVATION: -
DATE STARTED: *6-1-04*
DATE COMPLETED: *6-1-04*



DEPTH (feet)	SOIL DESCRIPTION	SAMPLE NO.	SAMPLING INTERVAL	N
		STANDARD PENETRATION TEST		
0	Brown SAND with some roots (topsoil)	1	0.0-2.0	8
5	Tan sandy SILT with some fragmented limestone	2	2.0-4.0	9
	Gray organic SILT	3	4.0-6.0	2
		4	6.0-8.0	2
		5	8.0-10.0	2
10	Light tan LIMESTONE and silty SAND	6	10.0-12.0	18
15	Light tan LIMESTONE with some limesand	7	15.0-17.0	22
20		8	20.0-22.0	9
25	Light tan LIMESILT with some fragmented limestone	9	25.0-27.0	12
28	Light tan LIMESTONE with some limesand	10	28.0-30.0	13
33		11	33.0-35.0	

N-value CURVE: 10 30 50 70 90

This information pertains only to this boring and should not be interpreted as being indicative of the site.

WINGERTER LABORATORIES INC.
Professional Engineering & Testing

TEST BORING LOG

BORING NO.: B-1

CLIENT: *Mr. James Bullock*
PROJECT: *Proposed Residence Addition*

DEPTH (feet)	SOIL SYMBOLS, AND BLOWS PER SIX INCHES	SOIL DESCRIPTION	STANDARD PENETRATION TEST			
			SAMPLE NO.	SAMPLING INTERVAL	N	N-value CURVE
34	10 10				20	10 30 50 70 90
35		Boring terminated at 35.0'				
36						
37						
38						
39						
40						
41						
42						
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73						
74						
75						

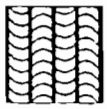
LEGEND

Symbol Description

Soil symbols

Sand with some to trace organics

Sandy silt with some to trace limestone



Organics and silt

Fragmented limestone with some to trace silty sand

Limestone with some to trace sand

Fragmented limestone and silt with some to trace sand

Misc. Symbols

Water table at
boring completion

Boring continues

Soil Samplers

Standard penetration test

APPENDIX B

TEST BORING LOCATION MAP & SKETCH

TEST BORING LOCATION MAP

PREPARED BY: DATE:

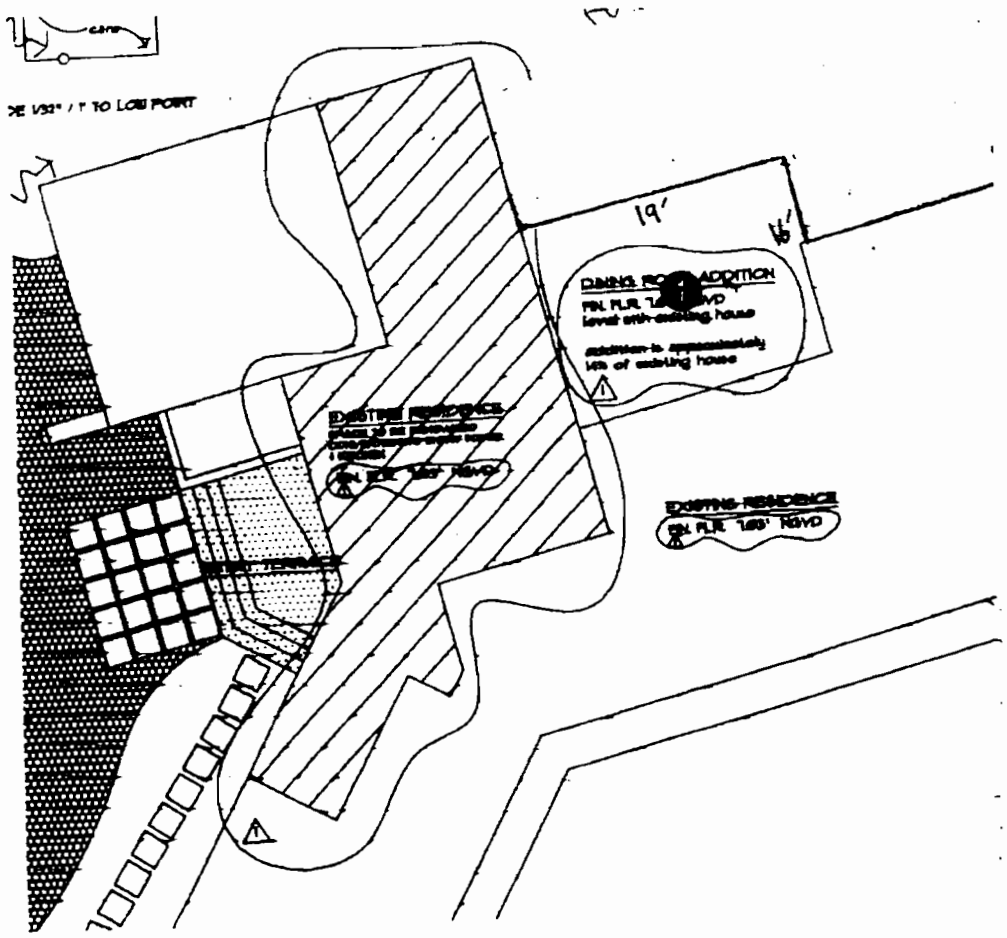
WINGERTER LABORATORIES INC.

Professional Engineering & Testing

P. O. Box 611450, North Miami, Fl 33261-1450

Mr. James Bullock
Proposed Residence Addition
1201 N. South Lake Drive, Hollywood, FL

TEST BORING LOCATION SKETCH



● TEST BORING LOCATION

PREPARED BY: AP

DATE: 6/3/04

WINGERTER LABORATORIES INC.
Professional Engineering & Testing
P. O. Box 611450, North Miami, Fl 33261-1450

Mr. James Bullock
Proposed Residence Addition
1201 N. South Lake Drive, Hollywood, FL

REPORT OF SUBSURFACE SOIL EXPLORATION & GEOTECHNICAL ENGINEERING EVALUATION OF SUBSURFACE CONDITIONS

PROPOSED RESIDENCE ADDITION

HOLLYWOOD, FLORIDA

JUNE 2004

Prepared for:

MR. JAMES BULLOCK

HOLLYWOOD, FLORIDA

WINGERTER LABORATORIES, INC.
1820 NE 144th Street
North Miami, Florida 33181

WINGERTER
LABORATORIES INC.

Engineering Testing and Inspection Service
Established 1949

No. 1 June 4, 2004

Mr. James Bullock
1201 North South Lake Drive
Hollywood, Florida 33019

Attn: Mr. Bill Seay

RE: Report of Subsurface Soil Exploration and Geotechnical Engineering
Evaluation of Subsurface Conditions
Proposed Residence Addition
1201 North South Lake Drive, Hollywood, Florida
WLI Order No. 04-1421

Dear Mr. Seay:

We are pleased to present this report of our subsurface soil exploration and geotechnical engineering evaluation for the subject site. These services were performed in general accordance with the scope of services outlined in our proposal dated May 26, 2004. This report presents our evaluation and specific recommendations for the proposed construction together with the field data.

We appreciate this opportunity to be of service to you during this phase of the project. If you have any questions or comments regarding the information contained in this report, please call us at (305) 944-3401.

Prepared By:

Alexis Pamagua, EI
Geotechnical Engineer

Respectfully submitted,
WINGERTER LABORATORIES, INC.

6-7-04

Robert H. Schuler, P.E., P.G.
Florida Registration No. 34715

enc: Report

P-68/Time Charges: Engineering: LS

The original of this report was signed and sealed by the above referenced Florida Registered Professional Engineer in accordance with Rule 61G15-18.011 of the Florida Administrative Code.

1820 N.E. 144th St. • P.O. Box 611450 • North Miami, FL 33261-1450 • (305) 944-3401 • 1-800-345-SOIL • Fax: (305) 949-8698
Broward: (954) 764-0472 • Dispatch Fax: (305) 949-1328

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- B. TEST BORING LOCATION MAP & SKETCH

INTRODUCTION

Wingerter Laboratories, Inc. (WLI) is pleased to present this report of our subsurface soil exploration and geotechnical engineering evaluation for the subject site. The purpose of this investigation was to obtain specific subsurface data in order to provide an engineering evaluation of the subsurface conditions including recommendations for foundation design for support of the proposed residence additon to be located at the site at 1201 North South Lake Drive, Hollywood, Florida.

Our subsurface exploration consisted of a total of one (1) Standard Penetration Test Boring performed at the subject site as shown on Appendix B of this report.

The following presents a review of the project information provided to us, a discussion of the subsurface conditions, detailed geotechnical engineering recommendations and our Report of Test Boring Number B-1.

PROJECT INFORMATION

Documents provided to us for the purposes of this project consisted of a site plan of the property with the proposed location of the new addition.

Based on our review of this document and our conversation with Mr. Bill Seay, it is our understanding that the proposed project will consist of adding a new dining room area to the proposed residence with dimensions of 19 feet by 16 feet.

TESTING PROGRAM AND CONDITIONS REVEALED

Our subsurface investigation consisted of a total of one (1) Standard Penetration Test Boring, conforming to the requirements of ASTM D 1586, which was performed at the site on June 1, 2004. Please see Appendix A for our Report of Test Boring Number B-1 for detailed description of the materials encountered and the depth intervals at which they were encountered. The test boring locations are shown in Appendix B of this report.

The number, location and depth of the test boring was determined by **WLI**, taking into consideration the requirements of the project, site accessibility and the subsurface conditions revealed. The discussions, opinions and recommendations contained in this report are based upon the conditions revealed in the referenced test boring.

A review of the test boring logs indicates that the site is generally mantled by loose to medium dense sands and silty sands with some fragmented limestone found in the first 4 feet of depth, underlain by very soft gray organic silt extending to a depth of 10 feet below the existing ground elevation. Beneath, a soft limerock and silty limesand foundation was encountered extending to the maximum explored depth of 35 feet below the existing ground surface elevation.

The ground water level at the time of our investigation was encountered at a depth of 5.5 feet below the existing land surface. Fluctuations in the ground water level should be expected due to seasonal climatic changes, tidal action, rainfall variation, surface runoff, construction activity and other site specific factors.

GEOTECHNICAL ENGINEERING EVALUATION & RECOMMENDATIONS

Evaluation of the subsurface data obtained from the boring test boring logs, using accepted geotechnical engineering criteria, indicates that the existing subsurface soil conditions encountered at the site are not suitable and can not provide adequate support if the proposed addition is founded upon conventional shallow spread footings, placed directly upon this conditions.

Test borings performed revealed the presence of organic silts between 4 and 10 feet of depth. These soils are highly compressible and are expected to consolidate excessively when subjected to the building loads associated with the proposed structure. Consolidation of the these soils is expected to result in large excessive, total and differential settlements, which can be detrimental to the proposed structure addition.

Therefore, it is our recommendation that the proposed addition be supported upon a deep foundation system, such as piles. The use of pile foundations allows for a more direct transmission of the applied loads to the more stable rock formations encountered below the unsuitable compressible soils, thereby reducing the risk of excessive settlements and cracks.

These piles when installed extending into the limerock formation at a depth of 19 feet below the existing land surface, are expected to develop a maximum allowable compressive capacity of 25 tons, a maximum allowable tension capacity of 8 tons and a maximum allowable lateral capacity of 2.5 tons.

1. Auger Cast (Cast-In-Place) Pile Foundations

1.1. Recommended size:14 inches diameter.

1.2. Bearing capacity: 25 tons.

1.3. Tension capacity: Piles may be considered to develop uplift resistance of 8 tons, presuming that the reinforcing design is adequate for the stated uplift.

1.4. Lateral capacity: Piles may be considered to develop lateral resistance of 2.5 tons, presuming that the reinforcing design is adequate for the stated shear.

1.5 Installation depth: Auger shall be advanced to a depth of 19 feet referenced to existing site grade.

1.6. Physical Criteria:

1.6.1. Augered shaft shall remain plumb within one-eighth of the shaft diameter, that is within 1.75 inches for a 14-inch pile.

1.6.2. Augering and pumping equipment, and technique shall be at the contractor's discretion on a performance basis by using acceptable installation procedures to deliver an integral pile.

1.6.3. The volume of grout per linear foot of pile shall exceed the theoretical pile volume with a minimum grout factor of 1.15.

1.6.4. Grout shall be a mixture of Portland cement, fine aggregate, and water with proportions and admixtures at the contractor's discretion on a performance basis. A design mix with confirming strength test results shall be submitted to the project structural engineer for approval prior to installation of the piles. The minimum 28-day compressive strength of the grout shall be no less than 4000 psi.

1.6.5. Grouting shall be performed in a continuous operation. During extraction of the auger, should volume of grout-take markedly increase and/or injection pressure markedly decrease, auger shall be reinserted to a minimum five (5) feet below the point in question, and grouting resumed. The procedure shall be repeated as frequently as necessary to insure vertical continuity of the grout shaft.

1.6.6. Down-shaft reinforcing details shall be at the discretion of the contractor on a performance basis; however, reinforcing details shall be presented to the project structural engineer for approval prior to installation of the piles.

1.6.7. Piles shall be installed in a sequence so that the grout in adjacent piles has had time to set such that adjacent piles are not disturbed.

1.7. Testing and inspection:

1.7.1. At the recommended capacity, a static load test is not required by Section 1806.4 of the Florida Building Code.

1.7.2. Pile installation shall be witnessed and logged by the geotechnical inspector. Geotechnical inspector shall confirm shaft plumbness, compliance with depth requirements, continuity of grouting, and reinforcing details; inspector's log shall include the preceding and all other pertinent data including pile identification.

1.7.3. Grout shall be sampled and test cylinders or cubes shall be cast for 28-day strength confirmation at the frequency of no less than one sampling per 50 cubic yards placed, but at least one sampling in each sustained grouting operation.

2. Geotechnical Inspector

2.1. Experience indicates that the actual subsoil conditions at a site could vary from those generated on the basis of test borings made at specific locations. Therefore, it is essential that a geotechnical engineer be retained to provide soil engineering services during the site preparation, excavation and foundation phases of the proposed project. This is to observe compliance with the design concepts, specifications and recommendations and to allow design changes in the event that subsurface conditions differ from those anticipated prior to the start of construction.

2.2. The geotechnical inspector as referenced hereinbefore shall be a Registered Professional Engineer licensed in the State of Florida and experienced in the practice of geotechnical engineering, or his designated field agent. The results of all inspections by the geotechnical inspector shall be submitted on report or log forms duly signed and sealed in accordance with Rule 61G15-18.011 of the Florida Administrative Code.

2.3. The geotechnical inspector shall be retained by the owner, the project architect, or the project structural engineer.

INVESTIGATIVE PROCEDURES

Field work was performed using standard drilling equipment. Soil samples (disturbed) were obtained in accordance with ASTM D-1586 utilizing a 2-foot long, 2-inch diameter split spoon sampler which is advanced by successive blows of a 140 pound hammer free-falling 30 inches. The number of blows for each 6 inches of penetration is recorded. The sum of the second and third blow counts for each 2-foot sampling interval constitutes the Standard Penetration Resistance in blows per foot, which is referred to as the "N" Value. The following tables may be used in interpreting the consistency of the materials based on the "N" Value:

SOIL CONSISTENCY vs. "N VALUE"					
Cohesionless Soils		**Cohesive Soils**		**Rock and Gravels**	
"N Value" (blows/ft)	Consistency Designation	"N Value" (blows/ft)	Consistency Designation	"N Value" (blows/ft)	Consistency Designation
0 to 4	Very Loose	0 to 2	Very Soft	0 to 25	Loose or Soft
5 to 10	Loose	3 to 4	Soft	26 to 50	Medium Dense
11 to 30	Medium Dense	5 to 8	Medium	51 to 90	Dense
31 to 50	Dense	9 to 15	Stiff	-	-
50 or More	Very Dense	16 to 30	Very Stiff	-	-
-	-	31 or More	Hard	-	-

The Standard Penetration Test, "N" value curve shown on the boring logs indicates the general variation of the "N" value throughout the depth of the boring. This curve is plotted in a straight line which connects each "N" value. However, it should not be assumed that the changes in the "N" value are a linear function. The graphical representations shown on the boring logs should not be substituted for the actual material descriptions included in the logs.

Soil samples will be retained by **WLI** for a period of thirty (30) days only unless specifically requested otherwise by the client.

Test borings were staked in the field by **WLI**, using approximate methods. Borings were located by taped distances from existing recognizable landmarks. Boring locations are, therefore, generally as shown, but no degree of accuracy is stated or implied.

Elevations were not established for the test boring locations. Depths reported on the logs represent depths below ground surface as they existed on the date drilled. The client is cautioned that if subsequent filling or excavation of the site occurs, the reported depth must be so adjusted. **WLI** can not assume responsibility for the accuracy of reported depths if the site is disturbed subsequent to the date drilled.

SPECIAL REMARKS & ANNOTATIONS

In dealing with the unseen subsurface dimension, a prudent test boring program acts to identify the general range of conditions and to reduce, but not eliminate, the risks of unknown conditions. Therefore, **WLI** cannot offer a warrantee, expressed or implied, that materials or conditions other than those revealed in the test borings will not be encountered, nor that the relative proportions and density of the materials will not vary from those reported.

Furthermore, **WLI** assumes no responsibility for the accuracy of the reported depths should any excavation, filling or alteration of the site grade occur, subsequent to the date of the drilling operation, without surveying the existing conditions.

Also, since the criteria furnished to **WLI** constitutes our total knowledge and understanding of the project; inaccuracies, deviations or alterations of the criteria may invalidate these recommendations to the extent they impact the magnitude, distribution, and elevation of applied loads, or impact the nature of the construction.

APPENDIX A

TEST BORING LOGS

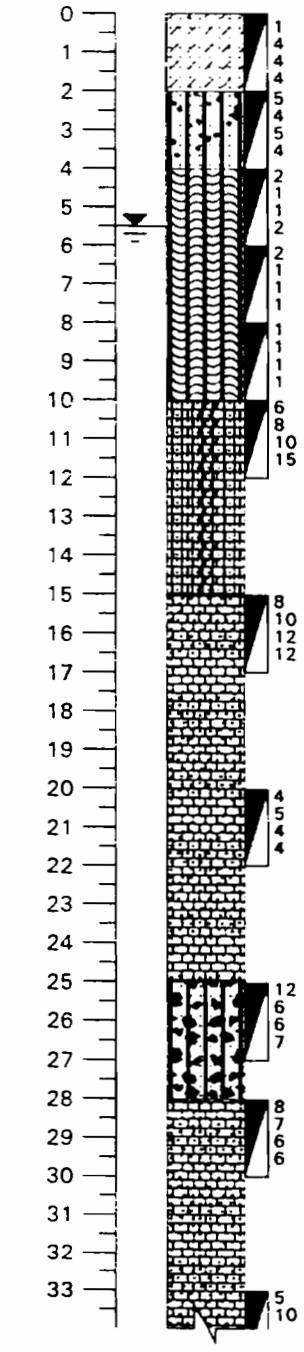
WINGERTER LABORATORIES INC.
Professional Engineering & Testing

TEST BORING LOG

BORING NO.: B-1

CLIENT: *Mr. James Bullock*
PROJECT: *Proposed Residence Addition*
LOCATION: *As shown on boring location sketch*
DRILLER: *J. Cooper*
DRILL RIG: *CMS*
DEPTH TO WATER: *5.5'*

ELEVATION: -
DATE STARTED: *6-1-04*
DATE COMPLETED: *6-1-04*



DEPTH (feet)	SOIL SYMBOLS, AND BLOWS PER SIX INCHES	SOIL DESCRIPTION	STANDARD PENETRATION TEST			
			SAMPLE NO.	SAMPLING INTERVAL	N	N-value CURVE
0	1 4 4 4	Brown SAND with some roots (topsoil)	1	0.0-2.0	8	
2	5 4 5 4	Tan sandy SILT with some fragmented limestone	2	2.0-4.0	9	
4	2 1 1 2	Gray organic SILT	3	4.0-6.0	2	
6	2 1 1 1		4	6.0-8.0	2	
8	1 1 1 1		5	8.0-10.0	2	
10	6 8 10 15	Light tan LIMESTONE and silty SAND	6	10.0-12.0	18	
15	8 10 12 12	Light tan LIMESTONE with some limesand	7	15.0-17.0	22	
20	4 5 4 4		8	20.0-22.0	9	
25	12 6 6 7	Light tan LIMESILT with some fragmented limestone	9	25.0-27.0	12	
28	8 7 6 6	Light tan LIMESTONE with some limesand	10	28.0-30.0	13	
33	5 10		11	33.0-35.0		

N-value CURVE: 10 30 50 70 90

This information pertains only to this boring and should not be interpreted as being indicative of the site.

WINGERTER LABORATORIES INC.
Professional Engineering & Testing

TEST BORING LOG

BORING NO.: B-1

CLIENT: *Mr. James Bullock*
PROJECT: *Proposed Residence Addition*

DEPTH (feet)	SOIL SYMBOLS, AND BLOWS PER SIX INCHES	SOIL DESCRIPTION	STANDARD PENETRATION TEST			
			SAMPLE NO.	SAMPLING INTERVAL	N	N-value CURVE
34	10 10				20	10 30 50 70 90
35		Boring terminated at 35.0'				
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LEGEND

Symbol Description

Soil symbols

Sand with some to trace organics

Sandy silt with some to trace limestone

Organics and silt

Fragmented limestone with some to trace silty sand

Limestone with some to trace sand

Fragmented limestone and silt with some to trace sand

Misc. Symbols

Water table at
boring completion

Boring continues

Soil Samplers

Standard penetration test

APR 14

APPENDIX B

TEST BORING LOCATION MAP & SKETCH

TEST BORING LOCATION MAP

PREPARED BY: DATE:

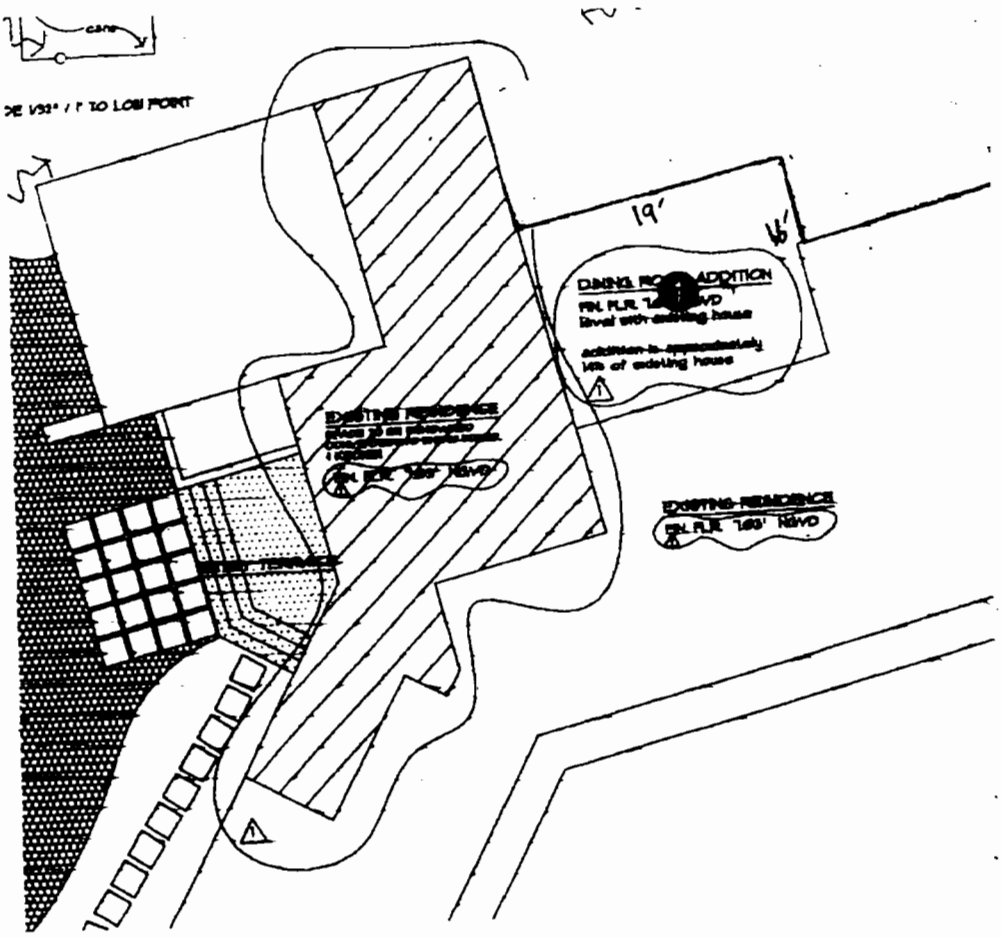
WINGERTER LABORATORIES INC.

Professional Engineering & Testing

P. O. Box 611450, North Miami, Fl 33261-1450

Mr. James Bullock
Proposed Residence Addition
1201 N. South Lake Drive, Hollywood, FL

TEST BORING LOCATION SKETCH



● TEST BORING LOCATION

PREPARED BY: AP

DATE: 6/3/04

WINGERTER LABORATORIES INC.
Professional Engineering & Testing
P. O. Box 611450, North Miami, Fl 33261-1450

Mr. James Bullock
Proposed Residence Addition
1201 N. South Lake Drive, Hollywood, FL

APR 14 2004

CFN # 104461070, OR BK 38475 Page 655, Page 1 of 1, Recorded 11/03/2004 at 03:26 PM, Broward County Commission, Deputy Clerk 1004

James Bullock
1201 N. South Lake Drive, Hollywood
B0405651

NOTICE OF COMMENCEMENT

State of Florida
County of Broward

The undersigned hereby gives notice that improvement will be made in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement:

1. Property Legal Description: Lot 10 Block 27 Hollywood Lakes Section
(If no legal, please use description of property)

66066
B0405651

2. General Description of Improvement: Room Addition and Altercations

3. Property Owner Name: James Bullock
Mailing Address: 1201 N. South Lake Drive, Hollywood, FL 33019
and interest in property: Fee Simple
(if other than owner):

4. Contractor name: William Seay Inc.
Address: 2020 Taylor St. #2, Hollywood, FL 33020
Phone Number: 954-923-0288 Fax (optional): 954-923-3681

5. If Surety Bond, Name: NONE
and address of Surety:
and amount of Bond: $ (Copy of bond must be attached to this Notice at time of recording)
Phone Number: Fax (optional): (Fax number to be completed)

6. Lender name: NONE
Address:
Phone Number: Fax (optional): (Fax number to be completed)

7. Persons within the State of Florida designated by Owner upon whom Notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
Name: NONE
Address:
Phone Number: Fax (optional): (Fax number to be completed)

8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided by Section 713.13(1)(b), Florida Statutes:
Name: NONE
Address:
Phone Number: Fax (optional): (Fax number to be completed)

9. Expiration date of Notice: : (Notice may be recorded for a certain amount of time and will expire at that time unless otherwise extended)

* Owner signature: [signature] Owner signature:
Printed name: James Bullock Printed name:

SWORN TO AND SUBSCRIBED before me this 29 day of October, 2004, by:
James M Bullock
personally known to me or produced Driver License as identification.

FL DL B420 453 44 296 0

* Notary signature: Elsa Maria Aponte
Printed name: Elsa Maria Aponte My commission expires: Dec. 31 2005

I hereby certify this document to be a true, correct and complete copy of the record filed in my office. Dated this 16 day of Nov, 2004
Broward County Administrator
By: [signature] Deputy Clerk

Return recorded document to: James Bullock
Address: 1201 N. South Lake Drive
Hollywood, FL 33019

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 06/16/06
Process Number: 66066
E-Mail Address: bilccccc@comcast.net
Project/Reference: BULLOCK

For Review By: (check ☑ all applicable spaces)

Division: ☒ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☒ Mechanical ☐ Reserve Capacity Charges

From: William Seay, Inc.
Address: 2020 Taylor Street, 2C
Hollywood, FL 33020

E-Mail Address: bilccccc@comcast.net
Contact: William Seay
Phone: 954-923-0288 Fax: 954-923-3681

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #_____	☐ Fire sheet #_____
☐ Structural sheet #_____	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☐ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

WE ARE SUBMITTING TO YOU (check ☑)

Via ☒ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

- ☐ E-mail
- ☐ initial (original) sets of plans
- ☐ corrected (non-permitted) plans
- ☐ revised (permitted) plans
- ☐ shop drawings: ☐ structural steel, ☐ wood trusses, ☐ glass/glazing, ☐ product approvals, ☐ fire protection
- ☐ spot survey
- ☐ final survey
- ☐ energy (insulation) certification
- ☐ special inspector letter
- ☐ soil report
- ☐ inspection reports
- ☐ energy calcs
- ☐ site plans
- ☒ other permit Appl. / change of contr.

Special Instructions:

For Departmental Use Only:

Received by:_____ Date: ___/___/___

CITY OF HOLLYWOOD, FLORIDA

PERMIT APPLICATION

NOTE: AN INCOMPLETE APPLICATION MAY DELAY THE TIMELY ISSUANCE OF YOUR PERMIT; PLEASE ENTER N/A IF A SECTION IS NOT APPLICABLE.

DATE 5/23/06 TAX FOLIO # 5142 14 01 4640

DESCRIPTION: LOT 10 BLOCK 27 SUBDIVISION HOLLYWOOD LAKES

JOB NAME JAMES BULLOCK PHONE #

JOB ADDRESS 1201 N SOUTHLAKE DR. SUITE HOLLYWOOD, FL ZIP 33019

DETAILED WORK DESCRIPTION: A/C CHANGE OUT

USE/OCCUPANCY SQ. FT. ESTIMATED VALUE: $

CONTRACTOR'S NAME WILLIAM SEAY, INC. PHONE # (954)923-0288

CONTRACTOR'S ADDRESS CITY STATE ZIP

CERTIFICATE OF COMPETENCY # FAX #

CONTRACTOR'S STATE CERTIFICATION OR REGISTRATION NO.

OWNER OR FEE SIMPLE TITLE HOLDER'S NAME

OWNER OR FEE SIMPLE TITLE HOLDER'S ADDRESS

BONDING COMPANY

BONDING COMPANY ADDRESS

ARCHITECT/ENGINEER'S NAME PHONE #

ARCHITECT/ENGINEER'S ADDRESS CITY STATE ZIP

MORTGAGE LENDER'S NAME

MORTGAGE LENDER'S ADDRESS

ELECTRICAL CONTRACTOR:

Phone # LICENSE #

Sworn before me this of 20 .

Notary Public

Value $

Notarized Signature of Qualifier

MECAHNICAL CONTRACTOR: AIR CONDITIONING BY SPEEDY, INC

Phone # (954) 714-3030 LICENSE # CAC022445

Sworn before me this 23rd of MAY 20 06 . Roshayati Thaler

Notary Public

Value $ 19,300 00 James R. Sheedy Jr

Notarized Signature of Qualifier

NOTARY PUBLIC-STATE OF FLORIDA
Roshayati Thaler
Commission # DD500208
Expires: DEC. 18, 2009
Bonded Thru Atlantic Bonding Co., Inc.

2020 TAYLOR STREET, 2C
HOLLYWOOD, FL 33020
954-923-0288 off.
954-923-3681 fax

WILLIAM SEAY, INC.
Serving Broward County Since 1975

STATE CERTIFIED
GENERAL CONTRACTOR
LICENSE No. CGC009728

06-16-06

Mechanical Plan Review,

RE: comments

The original mechanical contractor (Tom Hansen) was sent the letter you have a copy of by regular U.S. Mail.
You can contact him for confirmation at
954-983-9582 office
or
954-506-5099 beeper.
Thank you.

William Seay
William Seay, President

APR 14 2006

September 16, 2004

City of Hollywood
Building Division
2600 Hollywood Blvd.
Hollywood, Fl. 33020

RESPONSE TO BUILDING DEPARTMENTS PLAN REVIEW COMMENTSFOR PROCESS # 66066

ENGINEERING

1. DRIVEWAY RADIUS SHALL BE 3' SEE ATTACHED DRAWING
2. DRIVEWAY CURB CUT PAVERS REQUIRED AFFIDAVIT HAS BEEN PROVIDED TO THE CITY, PLEASE CHECK YOU'RE RECORDS. — Submitted in MAY, '04 Bill Seay, Gen. Contr.
3. DECK HAS BEEN ELIMINATED, SEE ATTACHED DRAWING

STRUCTURAL

1. SIGNED & SEALED GEOTECHNICAL REPORT is included herein.
2. PILES SHALL BE 14" AS PER SOIL ENG. RECOMMENDATIONS STRUCTURAL ENGINEER (JOHN THOMSON) IS TO CLARIFY THIS DIRECTLY WITH YOU.
3. HATCHED AREA ON A-2 INDICATES INTERIOR REMODELING, INTERIOR FINISHES, PLUMBING FIXTURES, NOTHING STRUCTURAL..
4. SHEET S-1.1 IS TO REPLACE SHEET S-1
5. EXTERIOR CONC. BLOCK SHALL BE ¾" RECESSED IN STRUCTURAL SLAB THIS IS INDICCATED ON ATTACHED WALL SECTION

ARCHITECT HAS REVIEWED AND APPROVED TRUSS SHOP DRAWINGS.

2020 TAYLOR STREET, 2C
HOLLYWOOD, FL 33020
954-923-0288 off.
954-923-3681 fax

WILLIAM SEAY, INC.
Serving Broward County Since 1975

STATE CERTIFIED
GENERAL CONTRACTOR
LICENSE No. CGC009728

April 18, 2007

City of Hollywood Building Department
2600 Hollywood Boulevard
Hollywood, Florida 33022

Attention Mrs. Christine Gordon and Mr. Michael Sharbono,

Please grant an extention of time for inspections on Permit Number B0405651.
The job has been delayed due to mold clean-up work from a roof leak.
No new work can begin until the mold clean-up is complete.
We received a letter from the city dated 03/19/07.
Your cooperation on this matter is appreciated.

Yours truly,

William Seay

William Seay

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 10/04/06
Process Number: 66066
E-Mail Address: bilccccc@comcast.net
Project/Reference: BULLOCK

For Review By: (check ☑ all applicable spaces)

Division: ☒ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☒ Mechanical ☐ Reserve Capacity Charges

From: William Seay, Inc.
Address: 2020 Taylor Street, 2C
Hollywood, FL 33020

E-Mail Address: bilccccc@comcast.net
Contact: William Seay
Phone: 954-923-0288 Fax: 954-923-3681

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #_____	☐ Fire sheet #_____
☐ Structural sheet #_____	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☐ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

WE ARE SUBMITTING TO YOU (check ☑)

Via ☒ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

☐ E-mail
☐ initial (original) sets of plans
☐ corrected (non-permitted) plans
☒ revised (permitted) plans
☐ shop drawings: ☐ structural steel
☐ wood trusses
☐ glass/glazing
☐ product approvals
☐ fire protection
☐ spot survey
☐ final survey
☐ energy (insulation) certification
☐ special inspector letter
☐ soil report
☐ inspection reports
☐ energy calcs
☐ site plans
☒ other change of contractor & equipment change

Special Instructions:

For Departmental Use Only:

Received by:_____ Date: ___/___/___

INNOVATIVE ENGINEERING GROUP, INC.

5532 N.W. 72nd Avenue
Miami, Florida 33166
(305) 888-9626

SHOP DRAWING REVIEW

NO EXCEPTIONS TAKEN	☒	REJECTED	☐
NOTE COMMENTS	☐	RESUBMIT	☐

REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND CONTRACT DOCUMENTS.

Markings or comments shall not be construed as relieving the CONTRACTOR from compliance with the project plan and specifications, nor departures therefrom. The CONTRACTOR remains responsible for details and accuracy, for confirming and correlating all quantities, job conditions and dimensions, for selecting fabrication processes, for techniques of assembly and construction, and for performing the work in a safe manner.

By _____ Date 9-30-06
SIGNATURE

BULLOCK RES. – 4 TON SPLIT A/C SYSTEM (AMERICAN STD. & SPACE PAK)

HIGH VELOCITY SYSTEM TO BE INSTALLED PER MFGR'S RECOMMENDATIONS.

APR 14 2006

APPROVED

OCT 5 2006

CITY OF HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Building Division

AIR CONDITIONING REPLACEMENT SHEET

JOB NAME: JAMES BULLOCK PROCESS: 66066

ADDRESS: 1201 N. SOUTHLAKE DR. HOLLYWOOD, FL 33019

EXISTING EQUIPMENT

PACKAGE UNIT MODEL #: _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: _____

CONDENSOR MODEL # _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: _____

A.H.U. MODEL # _____ HEAT STRIP K.W.: _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: _____

NEW EQUIPMENT

PACKAGE UNIT MODEL #: _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: _____

CONDENSOR MODEL # 2A7A5048A1 (AMERICAN STANDARD)

MINIMUM CIRCUIT AMPS: 60 MAX. OVERCURRENT PROTECTION: 60

A.H.U. MODEL # ESP-4860V (SPACE PAK) HEAT STRIP K.W.: 10

MINIMUM CIRCUIT AMPS: 208V MAX. OVERCURRENT PROTECTION: 230 V

(S)E.E.R 13.30

(1) SHOW WIRE SIZE: 14 TYPE: _____ (TW OR THW)

(2) SIZE OF DISCONNECT. CIRCUIT BREAKER OR FUSE: 60 AMP

(3) DISCONNECT READILY ACCESSIBLE: YES ___ NO ___

APR 14 2005

APPROVED

OCT 5 [illegible]

Certificate of ARI-Certified Performance

The following

Single Phase, Small-duct, High-velocity Air Conditioner, Condensing Unit, Coil and Blower, Air Cooled

Outdoor Unit Model Number: 2A7A6048A1

manufactured by: AMERICAN STANDARD, INC.

combined with

Indoor Unit Model Number: ESP-4860V+TDR

manufactured by: SPACE PAK

under the Trade/Brand Name: Space Pak

has been rated in accordance with

ARI Standard 210/240-2005 for UNITARY AIR-CONDITIONING AND AIR-SOURCE HEAT PUMP EQUIPMENT

and is certified by the Air-Conditioning and Refrigeration Institute to meet

the following product performance ratings:

Cooling Capacity (Btu/h):	48000
SEER Rating (Cooling):	13.30

* Voluntarily reduced, unless uncompensated with a VMS in which case the change is involuntary.

ARI Reference #:	577687
Today's Date:	06 / 23 /06
Status:	Active

CERTIFIED RATINGS ARE VALID ONLY FOR THE PARTICULAR COMBINATION OF INDOOR AND OUTDOOR UNITS LISTED IN THE AIR-CONDITIONING AND REFRIGERATION INSTITUTE'S DIRECTORY OF CERTIFIED EQUIPMENT. VISIT WWW.ARIDIRECTORY.ORG TO VERIFY THAT THIS COMBINATION IS AN ACTIVE LISTING AND THE DATA LISTED ON THIS CERTIFICATE IS ACCURATE. SEARCH ON THE ARI REFERENCE # TO QUICKLY LOCATE THIS COMBINATION IN THE DIRECTORY.

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APPROVED

OCT 5 20

ARI 14288

CITY OF HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Building Division

AIR CONDITIONING REPLACEMENT SHEET

JOB NAME: JAMES BULLOCK PROCESS: 66066

ADDRESS: 1201 N. SOUTHLAKE DR. HOLLYWOOD, FL 33019

EXISTING EQUIPMENT

PACKAGE UNIT MODEL #: _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: _____

CONDENSOR MODEL # _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: _____

A.H.U. MODEL # _____ HEAT STRIP K.W.: _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: _____

NEW EQUIPMENT

PACKAGE UNIT MODEL #: _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: _____

CONDENSOR MODEL # 2A7A5048A1 (AMERICAN STANDARD)

MINIMUM CIRCUIT AMPS: 60 MAX. OVERCURRENT PROTECTION: 60

A.H.U. MODEL # ESP-4860V (SPACE PAK) HEAT STRIP K.W.: 10

MINIMUM CIRCUIT AMPS: 208V MAX. OVERCURRENT PROTECTION: 230 V

(S)E.E.R. 13.30

(1) SHOW WIRE SIZE: 14 TYPE: _____ (TW OR THW)

(2) SIZE OF DISCONNECT. CIRCUIT BREAKER OR FUSE: 60 AMP

(3) DISCONNECT READILY ACCESSIBLE: YES ___ NO ___

OCT 5

Certificate of ARI-Certified Performance

The following

Single Phase, Small-duct, High-velocity Air Conditioner, Condensing Unit, Coil and Blower, Air Cooled

Outdoor Unit Model Number: 2A7A6048A1

manufactured by: AMERICAN STANDARD, INC.

combined with

Indoor Unit Model Number: ESP-4860V+TDR

manufactured by: SPACE PAK

under the Trade/Brand Name: Space Pak

has been rated in accordance with

ARI Standard 210/240-2006 for UNITARY AIR-CONDITIONING AND AIR-SOURCE HEAT PUMP EQUIPMENT

and is certified by the Air-Conditioning and Refrigeration Institute to meet

the following product performance ratings:

Cooling Capacity (Btuh):	48000
SEER Rating (Cooling):	13.38

* Voluntarily reduced, unless accompanied with a VAR in which case the change is involuntary.

ARI Reference #: 577657
Today's Date: 08 / 23 /06
Status: Active

CERTIFIED RATINGS ARE VALID ONLY FOR THE PARTICULAR COMBINATION OF INDOOR AND OUTDOOR UNITS LISTED IN THE AIR-CONDITIONING AND REFRIGERATION INSTITUTE'S DIRECTORY OF CERTIFIED EQUIPMENT. VISIT WWW.ARIDIRECTORY.ORG TO VERIFY THAT THIS COMBINATION IS AN ACTIVE LISTING AND THE DATA LISTED ON THIS CERTIFICATE IS ACCURATE. SEARCH ON THE ARI REFERENCE # TO QUICKLY LOCATE THIS COMBINATION IN THE DIRECTORY.

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OCT 5

CITY OF HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Building Division

AIR CONDITIONING REPLACEMENT SHEET

JOB NAME: JAMES BULLOCK PROCESS: 66066

ADDRESS: 1201 N SOUTHLAKE DR, HOLLYWOOD, FL 33019

EXISTING EQUIPMENT

PACKAGE UNIT MODEL #: _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: ____

CONDENSOR MODEL # _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: ____

A.H.U. MODEL # _____ HEAT STRIP K.W.: _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: ____

NEW EQUIPMENT

PACKAGE UNIT MODEL #: _____

MINIMUM CIRCUIT AMPS: _____ MAX. OVERCURRENT PROTECTION: ____

CONDENSOR MODEL # 2A7A5036A1 (AMERICAN STANDARD).

MINIMUM CIRCUIT AMPS: 60 MAX. OVERCURRENT PROTECTION: 60

A.H.U. MODEL # ESP-3642V (SPACE PAK) HEAT STRIP K.W.: 10

MINIMUM CIRCUIT AMPS: 208V MAX. OVERCURRENT PROTECTION: 230V

(S)E.E.R 13.10

(1) SHOW WIRE SIZE: 14 TYPE: _____ (TW OR THW)

(2) SIZE OF DISCONNECT. CIRCUIT BREAKER OR FUSE: 60 Amp.

(3) DISCONNECT READILY ACCESSIBLE: YES____ NO____

Certificate of ARI-Certified Performance

The following

Single Phase, Small-duct, High-velocity Air Conditioner, Condensing Unit, Coil and Blower, Air Cooled

Outdoor Unit Model Number: 2A7A6036A1

manufactured by: AMERICAN STANDARD, INC.

combined with

Indoor Unit Model Number: ESP-3642V+TDR

manufactured by: SPACE PAK

under the Trade/Brand Name: Space Pak

has been rated in accordance with

ARI Standard 210/240-2005 for UNITARY AIR-CONDITIONING AND AIR-SOURCE HEAT PUMP EQUIPMENT

and is certified by the Air-Conditioning and Refrigeration Institute to meet

the following product performance ratings:

Cooling Capacity (Btuh):	32200
SEER Rating (Cooling): *	13.10

* Voluntarily revised, unless accompanied with a VIAS in which case the change is involuntary.

ARI Reference #:	877868
Today's Date:	06 / 23 /06
Status:	Active

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CHANGE OF CONTRACTOR
HOLD HARMLESS LETTER

CONTRACTOR BEING REMOVED: Thomas Hansen, Air Conditioning

DESCRIPTION OF WORK: AC & Ventilation

ADDRESS OF JOB: 1201 N. Southlake Drive, Hollywood

PERMIT # : M0401593 PROCESS #: 66066

BY THIS LETTER YOU ARE HEREBY NOTIFIED THAT WE ARE REQUESTING THAT THE CITY OF HOLLYWOOD BUILDING DIVISION ALLOW ME/US TO REPLACE YOU AS THE CONTRACTOR ON THE ABOVE REFERENCED JOB. I/WE ARE HOLDING THE CITY OF HOLLYWOOD HARMLESS FROM LEGAL INVOLVEMENT IF A SECOND PERMIT IS ISSUED FOR THE ABOVE REFERENCED WORK.

THE REASON FOR THIS ACTION IS:

_X_ Not experienced in high velocity AC systems

____ YOU ARE UNABLE OR UNWILLING TO COMPLETE THE CONTRACT.

OWNER:	PRIME CONTRACTOR(QUALIFIER):
SIGNATURE/DATE	SIGNATURE/DATE
JAMES BULLOCK	William Seay
PRINTED NAME	PRINTED NAME
Janet Roberts-Krieger	Janet Roberts-Krieger
NOTARY PUBLIC	NOTARY PUBLIC

NOTARY PUBLIC STATE OF FLORIDA
Janet Roberts-Krieger
Commission # DD506673
Expires: JAN. 27, 2010
Bonded Thru Atlantic Bonding Co., Inc.

- PROPERTY OWNER MUST SIGN
- PRIME CONTRACTOR MUST SIGN (IF OWNER IS PRIME CONTRACTOR, THEN BOTH SIGNATURES WILL BE THE SAME)
- THIS FORM MUST BE ACCOMPANIED BY PERMIT APPLICATION FROM THE NEW CONTRACTOR OR SUB-CONTRACTOR
- THIS FORM MUST BE ACCOMPANIED A COPY OF THE LETTER WRITTEN TO INFORM CONTRACTOR OF THEIR REMOVAL

2020 TAYLOR STREET, 2C
HOLLYWOOD, FL 33020
954-923-2142 off.
954-923-3681 fax

WILLIAM SEAY, INC.
Serving Broward County Since 1975

STATE CERTIFIED
GENERAL CONTRACTOR
LICENSE No. CGC009728

May 24,2006

Thomas Hansen Air Conditioning
3800 Roosevelt Street
Hollywood, Florida 33021

To whom it may concern;

This letter is in reference to permit number M0401593 for air conditioning work to be performed at the home of Mr. James Bullock, 1201 North Southlake Drive, Hollywood, Florida 33019.
At the homeowner's request we are replacing you as the air conditioning contractor on the above referenced job. The homeowner has selected a contractor of his choice experienced in high velocity systems that he is more comfortable working with and I will allow him to make this change in order to maintain an acceptable working relationship between the homeowner and myself.

Yours truly,

William Seay

William Seay

Date: 4/15/08

City of Hollywood
Building Division
2600 Hollywood Blvd.
Hollywood, Florida 33021

Re: **Request to change the Contractor of Record and Hold Harmless Affidavit for the following:**

PERMIT NUMBER: 79375 / P0401338 master Uccello

PROPERTY OWNER: James Bullock

PROJECT ADDRESS: 1201 n Southlake Drive

EXISTING CONTRACTOR: Jon Davis

NEW CONTRACTOR: AllState Plumbing Inc CERT. #: CFC 053929

NEW CONTRACTOR ADDRESS (STREET/TOWN/STATE/ZIP CODE): _____

To Whom It May Concern:

changed 4/15/08 JD

The existing contractor for the above referenced project:

___ has abandoned the project.

___ is unwilling to complete the project.

✓ is unable to complete the project.

OK to transfer 4/15/08

I (we) therefore, request the replacement of the existing contractor with the new contractor noted above. In accordance with Florida Building Code, Section 106.10.4.4, the undersigned agree to hold the Building Official and the City of Hollywood harmless from legal involvement. Also as noted below, a copy of this letter has been mailed to the existing contractor. I(we) understand that when this request relates to a change in the primary contractor, this letter must only be signed by the property owner; and that when the request relates to a sub contractor, both the property owner and prime contractor, must sign the letter. Included with this letter is a check made payable to the City of Hollywood in the amount of $40.00, for the processing of this request. Also included is a completed permit application for the new contractor.

see attached
(PROPERTY OWNER SIGNATURE)

Sam McFarland
(SIGNATURE OF CONTRACTOR'S QUALIFIER)

_____
(PRINT NAME)

Sam McFarland
(PRINT NAME)

Sworn to (or affirmed) and subscribed before me this

_____ day of _____, 20 _____.

Signature: _____
(NOTARY as to Property Owner)

Personally Known: _____, Identification Provided: _____

Sworn to (or affirmed) and subscribed before me this

14TH day of APRIL, 20 08.

Signature: Gregory Salkind
(NOTARY as to Contractor's Qualifier)

Personally Known: _____, Identification Provided: _____

Gregory Salkind
Commission #DD343143
Expires: Aug 02, 2008
Bonded Thru
Atlantic Bonding Co., Inc

Cc. _____
(Existing Contractor)

4-14-08

Date: _____

City of Hollywood
Building Division
2600 Hollywood Blvd.
Hollywood, Florida 33021

Re: Request to change the Contractor of Record and Hold Harmless Affidavit for the following:

PERMIT NUMBER: P0401338 / 79379
PROPERTY OWNER: James Bullock
PROJECT ADDRESS: 1201 N Southlake Drive
EXISTING CONTRACTOR: J+J Davis Plumbing Service, Inc
NEW CONTRACTOR: All State Plumbing, Inc CERT. #: CFC 053929
NEW CONTRACTOR ADDRESS (STREET/TOWN/STATE/ZIP CODE): 2220 N. 49 Ave
Hollywood 71

To Whom It May Concern:

The existing contractor for the above referenced project:

____ has abandoned the project.

____ is unwilling to complete the project.

____ is unable to complete the project.

I (we) therefore, request the replacement of the existing contractor with the new contractor noted above. In accordance with Florida Building Code, Section 106.10.4.4, the undersigned agree to hold the Building Official and the City of Hollywood harmless from legal involvement. Also as noted below, a copy of this letter has been mailed to the existing contractor. I(we) understand that when this request relates to a change in the primary contractor, this letter must only be signed by the property owner; and that when the request relates to a sub contractor, both the property owner and prime contractor, must sign the letter. Included with this letter is a check made payable to the City of Hollywood in the amount of $40.00, for the processing of this request. Also included is a completed permit application for the new contractor.

Darin Miller

Bullock
(PROPERTY OWNER SIGNATURE)

Troy D. Hart
(SIGNATURE OF CONTRACTOR'S QUALIFIER)

JAMES BULLOCK
(PRINT NAME)

TROY D. HART
(PRINT NAME)

Sworn to (or affirmed) and subscribed before me this
14TH day of MARCH, 2008.

Signature: Gregory Salkind
(NOTARY as to Property Owner)

Personally Known: _____, Identification Provided: X

Sworn to (or affirmed) and subscribed before me this
1ST day of APRIL, 2008.

Signature: _____
(NOTARY as to Contractor's Qualifier)

Personally Known: ✓, Identification Provided: _____

Cc. _____
(Existing Contractor)

Gregory Salkind
Commission #DD343143
Expires: Aug 02, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

NOTARY PUBLIC-STATE OF FLORIDA
Norma B. Eitelberg
Commission # DD593845
Expires: OCT. 25, 2010
BONDED THRU ATLANTIC BONDING CO., INC.

CITY OF HOLLYWOOD, FLORIDA
PERMIT APPLICATION

MASTER PROCESS # _____

MASTER PERMIT # _____

Permit Type (Check one): ☐ STRUC, ☐ FIRE, ☐ ELEC, ☐ MECH, ☐ PLUMB, ☐ PAVING, ☐ WTR/SWR, ☐ DRAINAGE

APPLICATION DATE _____ TAX FOLIO No. _____

LEGAL DESCRIPTION: Hollywood Lakes Sec. 1-32B, Lot 10

JOB NAME Bullock PHONE # _____

JOB ADDRESS 1201 n southlake Drive HOLLYWOOD, BROWARD COUNTY, FL. ZIP 30019

OWNER NAME James Bullock

Owners Address 1201 n. Southlake Drive City Hollywood State FL Zip 30019

WORK DESCRIPTION Plumbing work

USE/OCCUPANCY _____ SQ. FT. _____ Value of Proposed Work:$ _____

CONTRACTOR'S NAME Allstate Plumbing Inc PHONE # 954 987-2646 FAX # 954-987-2647

CONTRACTOR'S ADDRESS 2220 n 49 Ave CITY Hollywood STATE FL ZIP _____

CONTRACTOR'S CERTIFICATION OR REGISTRATION NUMBER: CFC 053929 EMAIL ADDRESS _____

ARCHITECT/ENGINEER'S NAME on file PHONE # _____ FAX # _____

ARCHITECT/ENGINEER'S ADDRESS _____ CITY _____ STATE _____ ZIP _____

FEE SIMPLE TITLE HOLDER NAME _____

Fee Simple Title Holder Address _____ City _____ State _____ Zip _____

BONDING COMPANY NAME _____

Bonding Company Address _____ City _____ State _____ Zip _____

MORTGAGE LENDER'S NAME n/a

Mortgage Lender's Address _____ City _____ State _____ Zip _____

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in the City of Hollywood, Florida. I understand that a separate permit must be secured for ELECTRICAL WORK, PLUMBING, SIGNS, WELLS, POOLS, FURNACES, BOILERS, HEATERS, TANKS, AIR CONDITIONERS, etc.

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with applicable laws regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBATIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Signature _____ Date: _____
Owner or **Agent

Sworn to (or affirmed) and subscribed before me this 14th day of MARCH 20 08

Signature _____
NOTARY as to Owner/Agent

___ Personally Known, ____ Identification Provided: _____

Signature Troy D. Hart Date: 4/1/08
Prime Contractor

Sworn to (or affirmed) and subscribed before me this 1st day of APRIL 20 08

Signature _____
NOTARY as to Contractor

Personally Known, ____ Identification Provided: _____

Gregory Salkind
Commission #DD342143
Expires: Aug 02, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

NOTARY PUBLIC STATE OF FLORIDA
Norma B. Eitelberg
Commission # DD593845
Expires: OCT. 25, 2010

** Individuals who sign as the owner's agent must first obtain the owner's authorization to sign on their behalf.

Application Approved by: _____ Permit Officer

Effective Code: 20__ Florida Building Code

Return to Joyce

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 4/38 Received
Process Number:
E-Mail Address:
Project/Reference:

For Review By: (check ☑ all applicable spaces)

Division: ☑ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☑ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: All State Plumbing, Fire
Address: 2220 N 49 Ave
Hollywood, FL
E-Mail Address:
Contact:
Phone: (954) 987-2046 Fax( ) 987-2647

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #_____	☐ Fire sheet #_____
☐ Structural sheet #_____	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☐ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

WE ARE SUBMITTING TO YOU (check ☑)

Via ☑ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

☐ E-mail
☐ initial (original) sets of plans
☐ corrected (non-permitted) plans
☐ revised (permitted) plans
☐ shop drawings: ☐ structural steel
☐ wood trusses
☐ glass/glazing
☐ product approvals
☐ fire protection
☐ spot survey
☐ final survey
☐ energy (insulation) certification
☐ special inspector letter
☐ soil report
☐ inspection reports
☐ energy calcs
☐ site plans
☐ other change of contractor

Special Instructions:

For Departmental Use Only:
Received by: Date: 4/38

ITY OF HOLLYWOOD, FLORIDA

PERMIT APPLICATION

ALL OF THE FOLLOWING MUST BE FILLED IN BY APPLICANT, ACCORDING TO FS 713.135

DATE 02/23/2004 TAX FOLIO #

DESCRIPTION: LOT 10-11 BLOCK 27 SUBDIVISION Hollywood Lakes Section

JOB NAME Bullock Residence PHONE # (954)

JOB ADDRESS 1201 N South Lake Dr CITY OF HOLLYWOOD STATE FL ZIP 33019

DETAILED WORK DESCRIPTION: REMODEL

SQ.FT. ESTIMATED VALUE: $

CONTRACTOR'S NAME PHONE #

CONTRACTOR'S ADDRESS CITY STATE ZIP

CERTIFICATE OF COMPETENCY # FAX #

CONTRACTOR'S STATE CERTIFICATION OR REGISTRATION NO.

OWNER OR FEE SIMPLE TITLE HOLDER'S NAME N/A

OWNER OR FEE SIMPLE TITLE HOLDER'S ADDRESS N/A

BONDING COMPANY N/A

BONDING COMPANY ADDRESS N/A

ARCHITECT/ENGINEER'S NAME Jorge Miguel Hernandez PHONE # (954) 923-0273

ARCHITECT/ENGINEER'S ADDRESS 1001 Van Buren CITY Hollywood STATE FL ZIP 33020

MORTGAGE LENDER'S NAME N/A

MORTGAGE LENDER'S ADDRESS N/A

ELECTRICAL CONTRACTOR: Aero Electric Inc.

Phone # (954) 587-7977 LICENSE # EC 000 2610

Sworn before me this 23rd of February 2004.

Notary Public

Notarized Signature of Qualifier

Value $ 5,000.00

STEPHANIE HARVEY
MY COMMISSION # DD 214653
EXPIRES: May 22, 2007
Bonded Thru Notary Public Underwriters

MECHANICAL CONTRACTOR:

Phone # LICENSE #

Sworn before me this of , 19 .

Notary Public

Notarized Signature of Qualifier

Value $

CITY OF HOLLYWOOD, FLORIDA
PERMIT APPLICATION

MASTER PROCESS #_____

MASTER PERMIT #_____

Permit Type (Check one): ☐ STRUC, ☐ FIRE, ☐ ELEC, ☐ MECH, ☐ PLUMB, ☐ PAVING, ☐ WTR/SWR, ☐ DRAINAGE

APPLICATION DATE _____ TAX FOLIO NO. _____

LEGAL DESCRIPTION: Hollywood Lakes Sec 1-32B Lot 10

JOB NAME Bullock PHONE # _____

JOB ADDRESS 1201 N. Southlake Drive HOLLYWOOD, BROWARD COUNTY, FL. ZIP 30019

OWNER NAME James Bullock

Owners Address 1201 North Southlake Drive City Hollywood State FL Zip 30019

WORK DESCRIPTION _____

USE/OCCUPANCY _____ SQ. FT. _____ Value of Proposed Work:$_____

CONTRACTOR'S NAME JSH Electrical Services Inc PHONE # _____ Fax # _____

CONTRACTOR'S ADDRESS PO Box 421242 CITY Pembroke Pines STATE FL ZIP _____

CONTRACTOR'S CERTIFICATION OR REGISTRATION NUMBER: 90 CME 1850 R EMAIL ADDRESS _____

ARCHITECT/ENGINEER'S NAME _____ PHONE # _____ FAX # _____

ARCHITECT/ENGINEER'S ADDRESS _____ CITY _____ STATE _____ ZIP _____

FEE SIMPLE TITLE HOLDER NAME _____

Fee Simple Title Holder Address _____ City _____ State _____ Zip _____

BONDING COMPANY NAME _____

Bonding Company Address _____ City _____ State _____ Zip _____

MORTGAGE LENDER'S NAME n/a

Mortgage Lender's Address _____ City _____ State _____ Zip _____

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in the City of Hollywood, Florida. I understand that a separate permit must be secured for ELECTRICAL WORK, PLUMBING, SIGNS, WELLS, POOLS, FURNACES, BOILERS, HEATERS, TANKS, AIR CONDITIONERS, etc.

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with applicable laws regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBATIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Signature _____ Date: _____
Owner or **Agent

Sworn to (or affirmed) and subscribed before me this 14TH day of MARCH 20 08

Signature Gregory Salkind
NOTARY as to Owner/Agent

___ Personally Known, ____ Identification Provided: X

Signature _____ Date: 04/01/08
Prime Contractor

Sworn to (or affirmed) and subscribed before me this 1ST day of APRIL 20 08

Signature Gregory Salkind
NOTARY as to Contractor

___ Personally Known, ____ I.D. Provided: X

** Individuals who sign as the owner's agent must first obtain the owner's authorization to sign on their behalf.

Application Approved by: _____ **Permit Officer** **Effective Code: 20** **Florida Building Code**

Gregory Salkind
Commission #DD345143
Expires: Aug 02, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Gregory Salkind
Commission #DD345143
Expires: Aug 02, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 4/3/8
Process Number: 79378 160026
E-Mail Address: _____
Project/Reference: _____

For Review By: (check ☑ all applicable spaces)

Division: ☐ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: JSH Electrical Services Inc
Address: PO Box 821242
Pembroke Pines, 33082
E-Mail Address: _____
Contact: _____
Phone: (___)_____ Fax:(___)_____

WE ARE SUBMITTING TO YOU (check ☑)

Via ☑ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

- ☐ E-mail
- ☐ initial (original) sets of plans
- ☐ corrected (non-permitted) plans
- ☐ revised (permitted) plans
- ☐ shop drawings: ☐ structural steel, ☐ wood trusses, ☐ glass/glazing, ☐ product approvals, ☐ fire protection
- ☐ spot survey
- ☐ final survey
- ☐ energy (insulation) certification
- ☐ special inspector letter
- ☐ soil report
- ☐ inspection reports
- ☐ energy calcs
- ☐ site plans
- ☑ other Change of contractor

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #_____	☐ Fire sheet #_____
☐ Structural sheet #_____	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☐ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

Special Instructions:

MM 142

For Departmental Use Only:

Received by: _____ Date: 4/3/8

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 4/28 Ideo66
Process Number: _____
E-Mail Address: _____
Project/Reference: _____

For Review By: (check ☑ all applicable spaces)

Division: ☐ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: TJH Electrical Services, Inc

Address: PO Box 821242

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet # _____ ☐ Fire sheet # _____

PLUMBING CONTRACTOR: _____

Phone # _____ LICENSE # _____

Sworn before me this _____ of _____, 19____. _____ Notary Public

_____ Value $ _____
Notarized Signature of Qualifier

ROOFING CONTRACTOR: _____

Phone # _____ LICENSE # _____

Sworn before me this _____ of _____, 19____. _____ Notary Public

_____ Value $ _____
Notarized Signature of Qualifier

_____ CONTRACTOR: _____

Phone # _____ LICENSE # _____

Sworn before me this _____ of _____, 19____. _____ Notary Public

_____ Value $ _____
Notarized Signature of Qualifier

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OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.

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CITY OF HOLLYWOOD, FLORIDA
PERMIT APPLICATION

MASTER PROCESS #_____

MASTER PERMIT #_____

Permit Type (Check one): ☐ STRUC, ☐ FIRE, ☐ ELEC, ☐ MECH, ☐ PLUMB, ☐ PAVING, ☐ WTR/SWR, ☐ DRAINAGE

APPLICATION DATE _____ TAX FOLIO No. _____

LEGAL DESCRIPTION: Hollywood Lakes Sec. 1-32 B, Lot 10

JOB NAME Bullock PHONE # _____

JOB ADDRESS 1201 n Southlake Drive HOLLYWOOD, BROWARD COUNTY, FL. ZIP 30019

OWNER NAME James Bullock

Owners Address 1201 n. Southlake Dr. City Hollywood State FL Zip 30019

WORK DESCRIPTION telephone system

USE/OCCUPANCY _____ SQ. FT. _____ Value of Proposed Work:$_____

CONTRACTOR'S NAME FSH Electrical Services, Inc PHONE # 954-829-7192 Fax # _____

CONTRACTOR'S ADDRESS PO Box 821242 CITY Pembroke Pines STATE FL ZIP _____

CONTRACTOR'S CERTIFICATION OR REGISTRATION NUMBER: 98 CME 1850 E EMAIL ADDRESS _____

ARCHITECT/ENGINEER'S NAME on file PHONE # _____ FAX # _____

ARCHITECT/ENGINEER'S ADDRESS _____ CITY _____ STATE _____ ZIP _____

FEE SIMPLE TITLE HOLDER NAME _____

Fee Simple Title Holder Address _____ City _____ State _____ Zip _____

BONDING COMPANY NAME _____

Bonding Company Address _____ City _____ State _____ Zip _____

MORTGAGE LENDER'S NAME n/a

Mortgage Lender's Address _____ City _____ State _____ Zip _____

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Signature _____ Date: _____
Owner or **Agent

Sworn to (or affirmed) and subscribed before me this 14TH day of MARCH 20 08.

Signature Gregory Salkind
NOTARY as to Owner/Agent

___ Personally Known, ___ Identification Provided: X

Signature _____ Date: 04/01/08
Prime Contractor

Sworn to (or affirmed) and subscribed before me this 1 day of APRIL 20 08

Signature Gregory Salkind
NOTARY as to Contractor

___ Personally Known, ___ I.D. Provided: X

** Individuals who sign as the owner's agent must first obtain the owner's authodization to sign on their behalf.

Application Approved by: _____ Permit Officer

Gregory Salkind
Commission #DD343143
Expires: Aug 02, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Effective Date: 20__ Florida Building Code

Gregory Salkind
Commission #DD343143
Expires: Aug 02, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 4,3,8 master
Process Number: ~~708944~~ 6/6/2006
E-Mail Address:
Project/Reference:

For Review By: (check ☑ all applicable spaces)

Division: ☑ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☑ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: FSH Electrical Services Inc

Address: PO Box 821242
Pembroke Pines FL

E-Mail Address:

Contact:

Phone: (954) 829-7192 Fax( )

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #	☐ Fire sheet #
☐ Structural sheet #	☐ Zoning sheet #
☐ Electrical sheet #	☐ Engineering sheet #
☐ Mechanical sheet #	☐ RCC sheet #
☐ Plumbing sheet #	☐ Drainage sheet #
☐ Water sheet #	☐ Sewer sheet #

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☐ special delivery ☐ fax copy

☐ E-mail
☐ initial (original) sets of plans
☐ corrected (non-permitted) plans
☐ revised (permitted) plans
☐ shop drawings: ☐ structural steel
☐ wood trusses
☐ glass/glazing
☐ product approvals
☐ fire protection
☐ spot survey
☐ final survey
☐ energy (insulation) certification
☐ special inspector letter
☐ soil report
☐ inspection reports
☐ energy calcs
☐ site plans
☑ other change of contractor

Special Instructions:

For Departmental Use Only:

Received by: Date: 4,3,8

CITY OF HOLLYWOOD, FLORIDA
PERMIT APPLICATION

MASTER PROCESS # _____

MASTER PERMIT # _____

Permit Type (Check one): ☐ STRUC, ☐ FIRE, ☑ ELEC, ☐ MECH, ☐ PLUMB, ☐ PAVING, ☐ WTR/SWR, ☐ DRAINAGE

APPLICATION DATE _____ TAX FOLIO No. _____

LEGAL DESCRIPTION: Hollywood Lakes Sec. 1-32B, Lot 10

JOB NAME Bullock PHONE # _____

JOB ADDRESS 1201 N Southlake Drive HOLLYWOOD, BROWARD COUNTY, FL. ZIP 33019

OWNER NAME James Bullock

Owners Address 1201 N. Southlake Dr. City Hollywood State FL Zip 33019

WORK DESCRIPTION Electrical Work

USE/OCCUPANCY _____ SQ. FT. _____ Value of Proposed Work:$ _____

CONTRACTOR'S NAME Estl electrical PHONE # _____ Fax # _____

CONTRACTOR'S ADDRESS PO Box 021242 CITY Embroke Pines STATE FL ZIP _____

CONTRACTOR'S CERTIFICATION OR REGISTRATION NUMBER: 98 cme 1850-R EMAIL ADDRESS _____

ARCHITECT/ENGINEER'S NAME on file PHONE # _____ FAX # _____

ARCHITECT/ENGINEER'S ADDRESS _____ CITY _____ STATE _____ ZIP _____

FEE SIMPLE TITLE HOLDER NAME _____

Fee Simple Title Holder Address _____ City _____ State _____ Zip _____

BONDING COMPANY NAME _____

Bonding Company Address _____ City _____ State _____ Zip _____

MORTGAGE LENDER'S NAME n/a

Mortgage Lender's Address _____ City _____ State _____ Zip _____

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Signature _____ Date: _____
Owner or **Agent

Sworn to (or affirmed) and subscribed before me this 14TH day of MARCH 20 08

Signature _____
NOTARY as to Owner/Agent

___ Personally Known, ___ Identification Provided: X

Signature _____ Date: 04/01/08
Prime Contractor

Sworn to (or affirmed) and subscribed before me this 1st day of APRIL 20 08

Signature _____
NOTARY as to Contractor

___ Personally Known, ___ I.D. Provided: X

** Individuals who sign as the owner's agent must first obtain the owner's authorization to sign on their behalf.

Application Approved by: _____ Permit Officer: _____ Occupancy Code: 20 Flood Zone: _____

Gregory Salkind
Commission #DD343143
Expires: Aug 02, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Gregory Salkind
Commission #DD343143
Expires: Aug 02, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

COMPLETE HOME REPAIR & REMODELING, INC.

Licensed and Insured
CC# 77-CGC-269C-X

8362 Pines Blvd Ste. 304
Pembroke Pines, FL 33024
Office: (954) 684-4816
Fax: (954) 442-0885

Tuesday, March 04, 2008

City of Hollywood Building and Engineering Services
2600 Hollywood Blvd.
P.O. Box 229045
Hollywood, Fl 33022-9045

Re: Permit number B0405651 / 66066

To Whom It May Concern:

I am writing to request that the above referenced permit be extended. I received a letter to schedule an inspection or risk voiding out the permit, unfortunately I am not currently in a position to request an inspection.

The homeowner has had some cash flow problems and as a result, we are not at a point to have anything inspected at this time and I respectfully request that the permit be extended.

If you have any questions or if you need anything else from me, please do not hesitate to phone me at (954) 684-4816.

Thank you,

Karin Miller

3/10/08 s/w contractor re A faxed copy of this letter on 3/5/08. SSS.

COMPLETE HOME REPAIR & REMODELING, INC.

Licensed and Insured
CC# 77-CGC-269C-X

8362 Pines Blvd Ste. 304
Pembroke Pines, FL 33024
Office: (954) 684-4816
Fax: (954) 442-0885

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If you have any questions or if you need anything else from me, please do not hesitate to phone me at (954) 684-4816.

Thank you,

Karin Miller

3/5/08.
Already extended 4/17/07. Cld l/m advising not extended and they will need to unexpire if permit expires.

Letter of Transmittal

To: City of Hollywood
P.O. Box 229045
Hollywood, FL 33022-9045
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: ____/____/____
Process Number: 1606046
E-Mail Address: _____
Project/Reference: _____

For Review By: (check ✓ all applicable spaces)

Division: ☐ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: Karin Miller
Complete Home Repair
Address: 9362 Pines Blvd.
Ste 304 Pembroke Pines
33024
E-Mail Address: _____
Contact: Karin
Phone: (9) 9844816 Fax:( ) _____

PLANS SUBMITTED: (check ✓)

☐ Architectural sheet # _____	☐ Fire sheet # _____
☐ Structural sheet # _____	☐ Zoning sheet # _____
☐ Electrical sheet # _____	☐ Engineering sheet # _____
☐ Mechanical sheet # _____	☐ RCC sheet # _____
☐ Plumbing sheet # _____	☐ Drainage sheet # _____
☐ Water sheet # _____	☐ Sewer sheet # _____

WE ARE SUBMITTING TO YOU (check ✓)

Via ☑ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

- ☐ E-mail
- ☐ initial (original) sets of plans
- ☐ corrected (non-permitted) plans
- ☐ revised (permitted) plans
- ☐ shop drawings: ☐ structural steel
  - ☐ wood trusses
  - ☐ glass/glazing
  - ☐ product approvals
  - ☐ fire protection
- ☐ spot survey
- ☐ final survey
- ☐ energy (insulation) certification
- ☐ special inspector letter
- ☐ soil report
- ☐ inspection reports
- ☐ energy calcs
- ☐ site plans
- ☑ other Cha Contractor & Permit Ap form

Special Instructions:

APR 14 2016

For Departmental Use Only:

Received by: _____ Date: 4-20-16

PERMIT APPLICATION

MASTER PERMIT # B0410.

Permit Type (Check one): ☐ STRUC, ☐ FIRE, ☐ ELEC, ☐ MECH, ☐ PLUMB, ☐ PAVING, ☐ WTR/SWR, ☐ DRAINAGE

APPLICATION DATE _____ TAX FOLIO NO. _____

LEGAL DESCRIPTION: _____

JOB NAME _____ PHONE # _____

JOB ADDRESS 1201 N SouthLake Dr HOLLYWOOD, BROWARD COUNTY, FL. ZIP _____

OWNER NAME James M Bullock

Owners Address 1201 N SouthLake Dr City Hollywood State _____ Zip _____

WORK DESCRIPTION Addition + Alterations

USE/OCCUPANCY _____ SQ. FT. 340 Value of Proposed Work: $ 48,000

CONTRACTOR'S NAME Complete Home Repair PHONE # 954 684 4816 Fax # _____

CONTRACTOR'S ADDRESS 2362 Pines Blvd #304 CITY Pembroke Pines STATE FL ZIP 33024

CONTRACTOR'S CERTIFICATION OR REGISTRATION NUMBER: 77-COC-2696-Y EMAIL ADDRESS _____

ARCHITECT/ENGINEER'S NAME _____ PHONE # _____ FAX # _____

ARCHITECT/ENGINEER'S ADDRESS _____ CITY _____ STATE _____ ZIP _____

FEE SIMPLE TITLE HOLDER NAME _____

Fee Simple Title Holder Address _____ City _____ State _____ Zip _____

BONDING COMPANY NAME _____

Bonding Company Address _____ City _____ State _____ Zip _____

MORTGAGE LENDER'S NAME N/A

Mortgage Lender's Address _____ City _____ State _____ Zip _____

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Signature _____ Date: 7/2/07
Owner or **Agent

Sworn to (or affirmed) and subscribed before me this 2ND day of JULY, 20 07

Signature Gregory Salkind
NOTARY as to Owner/Agent

___ Personally Known, ___ Identification Provided: X

Signature Sam McFarland Date: 7/2/07
Prime Contractor

Sworn to (or affirmed) and subscribed before me this 2ND day of JULY 20 07

Signature Gregory Salkind
NOTARY as to Contractor

___ Personally Known, X I.D. Provided: FL DL

Gregory Salkind Commission #DD343143 Expires: Aug 02, 2008 Bonded Thru Atlantic Bonding Co., Inc.

**** Individuals who sign as the owner's agent must first obtain the owner's authorization to sign on their behalf.**

Application Approved by: _____ **Effective Code: 20__ Florida Building Code**

Gregory Salkind Commission #DD343143 Expires: Aug 02, 2008 Bonded Thru Atlantic Bonding Co., Inc.

Gregory Salkind Commission #DD343143 Expires: Aug 02, 2008 Bonded Thru Atlantic Bonding Co., Inc.

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 03/10/04
Process Number: 040066
E-Mail Address: W_SEAY@bellsouth.net
Project/Reference: BULLOCK

For Review By: (check ☑ all applicable spaces)

Division: ☑ Building ☑ Zoning ☑ Engineering ☑ Fire ☑ Water/Sewer ☐ Drainage

Discipline: ☑ Structural ☑ Electrical ☑ Plumbing ☑ Mechanical ☑ Reserve Capacity Charges

From: William SeAy, INC.
2020 Taylor Street, 2C
Addres: Hollywood, FL 33020

E-Mail Address: W_SEAY@bellsouth.net
Contact: William SeAy
Phone: 954-923-0288 Fax: 954-923-3681

PLANS SUBMITTED: (check ☑)

☑ Architectural sheet # 1-4	☐ Fire sheet #
☑ Structural sheet # 5-6	☑ Zoning sheet # 1
☑ Electrical sheet # 7-8	☐ Engineering sheet #
☑ Mechanical sheet # 9-10	☐ RCC sheet #
☑ Plumbing sheet # —	☐ Drainage sheet #
☐ Water sheet #	☐ Sewer sheet #

WE ARE SUBMITTING TO YOU (check ☑)

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☐ special delivery ☐ fax copy

☐ E-mail
☑ initial (original) sets of plans
☐ corrected (non-permitted) plans
☐ revised (permitted) plans
☑ shop drawings: ☐ structural steel
☑ wood trusses
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☐ fire protection

☐ spot survey
☐ final survey
☐ energy (insulation) certification
☐ special inspector letter
☐ soil report
☐ inspection reports
☑ energy calcs
☑ site plans
☐ other

Special Instructions:

For Departmental Use Only:

Received by: Date: 3/10/04

17-65 (Rev 07-03)

May 17, 2004

City of Hollywood
Building Division
2600 Hollywood Blvd.
Hollywood, Fl. 33020

RESPONSE TO BUILDING DEPARTMENTS PLAN REVIEW COMMENTSFOR PROCESS # 66066

ZONING

1. Photographs of all effected elevations are provided by owner and are included herein.
2. Square footage calculations are indicated on attached SHEET A-1 rev. 4- 7-04.
3. Swale trees are indicated on attached SHEET A-1 rev. 4- 7-04.

ELECTRICAL

1. Egress lighting is indicated on attached SHEET E-1 rev. 4- 7-04.
2. Circuit Breakers for plugmold in BEDROOMS and KITCHEN shall be GFCI protected and is indicated on attached SHEET E-2 rev. 4- 7-04.
3. GFCI protected receptacles are indicated at both rear and front entry see attached SHEET E-1 rev. 4- 7-04.
4. Electrical Service is existing to be upgraded see attached SHEET E-1 rev. 4- 7-04.
5. Wires supplying Panel C shall be 400 AWG as is indicated on attached SHEET E-2 rev. 4- 7-04.
6. Load calculations have been revised, see attached SHEET E-2 rev. 4- 7-04.
7. Smoke Detectors are located in ceiling adjacent to BEDRROMS entry see attached SHEET E-1 rev. 4- 7-04.

UTILITIES-DRAINAGE

1. FINISH FLOOR ELEVATION of existing house is 7.03 FT NGVD,, DINING ROOM addition shall be level with existing house this is indicated on attached SHEET A-1 rev. 4- 7-04.
2. Site shall be grade to a low point in vast pervious area see attached SHEET A-1 rev. 4- 7-04.

STRUCTURAL

1. GEOTECNICAL REPORT is included herein.
2. GB sizes shall be as indicated on GRADE BEAM SCHEDULE see attached SHEET S-1 rev. 4- 7-04.
3. Remodeled area has been revised to match see attached SHEET A-1 rev. 4- 7-04.
4. Side entrance shall be as per section A / S/1-S/1 see attached SHEET S-1 rev. 4- 7-04
5. Side entrance steps shall be as per section A / S/1-S/1 see attached SHEET S-1 rev. 4- 7-04
6. Typical interior WALL SECTION is indicated on attached SHEET A-1 rev. 4- 7-04.
7. SANITATION SEWER NOTE is indicated on attached SHEET A-1 rev. 4- 7-04.
8. TRUSS SHOP DRAWINGS AND ENGINEERING has been reviewed and approved as noted these documents have been submitted to BLDG. DEPT. by G.C..
9. Window P/A will be reviewed by Architect and submitted as requested.
10. Uplift Values, hurricane strap specification (see attached spec. sheet) and nailing is indicated on attached SHEET S-2 rev. 4- 7-04.]
11. Roof edge nailer IS indicated on WALL SECTION see attached SHEET A-4 rev. 4- 7-04.
12. Termite Treatment note is indicated on attached SHEET S-2 rev. 4- 7-04.
13. Concrete Columns are indicated on foundation plan see attached SHEET S-1 rev. 4- 7-04.

CITY OF HOLLYWOOD, FLORIDA

2600 HOLLYWOOD BLVD. · P. O. BOX 229045 · ZIP 33022-9045

DATE: JUNE 7, 2004
PERMIT PROCESS NO.: 66066
PERMIT NO.:
NAME: JAMES BULLOCK
ADDRESS: 1201 N. SOUTHLAKE DR. HOLLYWOOD FL 33019

In the event the City of Hollywood must excavate in the public right-of-way or easements, the owner of the property listed herein has indicated with their signature, they shall be responsible for:

> Restoration of a driveway constructed of stamped concrete decorative paving blocks or any type of paving, concrete construction, or surface dressing not included as part of the City's standards.

I, JAMES BULLOCK owner of the above property, hereby certify and accept the responsibility for the item(s) noted above.

Bullock
Signature

6/7/04
Date

Jacqueline Berman (SEAL)
Notary Public
State of Florida

COMMISSION NUMBER CC977608 MY COMMISSION EXPIRES

6/7/04
Date

My Commission expires: 10/28/04

S:1\arleen\notaryrow

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 04/23/04
Process Number: 66066
E-Mail Address: —
Project/Reference: Bullock

For Review By: (check ☑ all applicable spaces)

Division: ☑ Building ☑ Zoning ☑ Engineering ☐ Fire ☐ Water/Sewer ☑ Drainage

Discipline: ☑ Structural ☑ Electrical ☐ Plumbing ☑ Mechanical ☐ Reserve Capacity Charges

From: Bill Seay. (William)
Addres: 2020 Taylor St #2C Hollywood, FL. 33020
E-Mail Address: —
Contact: William
Phone: (954) 923-0282 Fax: (954) 923-3681

WE ARE SUBMITTING TO YOU (check ☑)

Via ☒ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

☐ E-mail
☐ initial (original) sets of plans
☑ corrected (non-permitted) plans
☐ revised (permitted) plans
☑ shop drawings: ☐ structural steel
☐ wood trusses
☐ glass/glazing
☐ product approvals
☐ fire protection

☐ spot survey
☐ final survey
☐ energy (insulation) certification
☐ special inspector letter
☐ soil report
☐ inspection reports
☐ energy calcs
☐ site plans
☐ other_____

PLANS SUBMITTED: (check ☑)

☑ Architectural sheet #_____	☐ Fire sheet #_____
☑ Structural sheet #_____	☐ Zoning sheet #_____
☑ Electrical sheet #_____	☑ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

Special Instructions:

For Departmental Use Only:
Received by: _____ Date: 4/23/04

17-65 (Rev 07/03)

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 9/20/04
Process Number: 66066
E-Mail Address: _____
Project/Reference: _____

For Review By: (check ☑ all applicable spaces)

Division: ☐ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: Sabrina Figueroa

Address: 2324 Hollywood Blvd

E-Mail Address: _____

Contact: Sabrina Figueroa

Phone: (954) 907-1187 Fax: ( ) _____

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #_____	☐ Fire sheet #_____
☐ Structural sheet #_____	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☐ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
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- ☐ site plans
- ☐ other_____

Special Instructions:

For Departmental Use Only:

Received by:_____ Date: ___/___/___

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 8/5/04
Process Number: 66066
E-Mail Address:
Project/Reference: James Bullock

For Review By: (check ☑ all applicable spaces)

Division: ☐ Building ☐ Zoning ☑ Engineering ☐ Fire ☐ Water/Sewer ☑ Drainage

Discipline: ☑ Structural JJV ☑ Electrical BF ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: Sabrina Figueroa
Addres: 2324 Hollywood Blvd
E-Mail Address:
Contact: Sabrina
Phone: 954 9021187 Fax:( )

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #	☐ Fire sheet #
☒ Structural sheet #	☐ Zoning sheet #
☒ Electrical sheet # E-1	☒ Engineering sheet #
☐ Mechanical sheet #	☐ RCC sheet #
☐ Plumbing sheet #	☒ Drainage sheet #
☐ Water sheet #	☐ Sewer sheet #

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- ☐ inspection reports
- ☐ energy calcs
- ☐ site plans
- ☐ other

Special Instructions:

For Departmental Use Only:

Received by: Val Date: 8/5/04

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 08/23/05
Process Number: 66066
E-Mail Address: bilccccc@comcast.net
Project/Reference: BULLOCK

For Review By: (check ☑ all applicable spaces)

Division: ☒ Building ☒ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: William Seay, Inc.
Address: 2020 Taylor Street, 2C
Hollywood, FL 33020

E-Mail Address: bilccccc@comcast.net
Contact: William Seay
Phone: 954-923-0288 Fax: 954-923-3681

WE ARE SUBMITTING TO YOU (check ☑)

Via ☒ hand delivery ☐ Postal delivery
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☐ energy (insulation) certification
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☐ Architectural sheet #_____	☐ Fire sheet #_____
☐ Structural sheet #_____	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☐ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

Special Instructions:

For Departmental Use Only:

Received by: Val Date: 8/23/05

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: ____/____/____
Process Number: 66066
E-Mail Address: _____
Project/Reference: _____

For Review By: (check ☑ all applicable spaces)

Division: ☑ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: CHRIS CURTIS

Address: ~~5~~ 2324 Hollywood Blvd
Hollywood, Fla. 33020

E-Mail Address: _____

Contact: SABRINA

Phone: (954) 9200991 Fax:(__) _____

WE ARE SUBMITTING TO YOU (check ☑)

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☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

Special Instructions:

Returning Payment
Signed + Sealed

For Departmental Use Only:

Received by: Val Date: 10/8/04

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 10 20 09
Process Number: 66066
E-Mail Address:
Project/Reference:

For Review By: (check ☑ all applicable spaces)

Division: ☐ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: Sabrina Figueroa
Addres: 2324 Hollywood Blvd
E-Mail Address:
Contact:
Phone: (954) 907-1187 Fax: ( )

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #	☐ Fire sheet #
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☐ Electrical sheet #	☐ Engineering sheet #
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- ☐ site plans
- ☐ other

Special Instructions:
Roofing Ap.

For Departmental Use Only:
Received by: Date: 10/20/09

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal 4606-hlp 11/4

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3300 • Fax: (954) 921-3037

Date: ____/____/____

Process Number: #B04-05651

Project/Reference: Bullock Residence

For Review By: (check ☑ all applicable spaces)

Division: ☐ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☐ Structural ☑ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: Aero Electric Inc.

Addres: 4771 SW 51st Street
Davie, Fl 33314

Contact: Mario Ducas

Phone: (954) 587-7977 Fax: (954) 587-7978

WE ARE SUBMITTING TO YOU (check ☑)

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☐ special delivery ☐ fax copy

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PLANS SUBMITTED: (check ☑)

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☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

Special Instructions:

For Departmental Use Only:

Received by: Val Date: 10 FEB 04

17-65 (Rev 03/99)

02562

Department of Planning and Environmental Protection
Land Use and Permit Division
218 S.W. 1st. Avenue
Fort Lauderdale, Fl 33301
(954) 519-1250 • FAX (954) 519-1494

APPLICATION FOR REVIEW OF CONSTRUCTION PLANS

Project Information

Owner (or Agent) William Seay, Inc. Phone 954-923-0288
Mailing Address 2020 Taylor Street, 2C, Hlwd., FL 33020
Project Address 1201 N. South Lake Drive City Hollywood
Plat Name (as recorded in official records) Hollywood Lakes
Plat Book 32 Page _____ Lot 10&11 Block 27
Give a brief description of the proposed project new dining room Addition

Type of Review Cup3
Building Department Jurisdiction City of Hollywood
Title of Drawings Bullock Residence Last Revision Date 12-18-03

CERTIFICATION

I hereby attest and certify the above supplied information is accurate and complete as it pertains to the construction to be undertaken in accordance with the plans herein submitted, and acknowledge any change in construction plans affecting information listed hereon shall require a new submission.

Signed [signature] Date 12-22-03
(Owner or authorized representative)
Name and Title (print) William Seay, President

FALSIFICATION OF THIS APPLICATION SHALL BE GROUNDS FOR DENIAL OR REVOCATION

To be completed by DPEP

Attention Building Department

Upon examination of the proposed construction activity listed above DPEP has determined that the project falls within the Broward County DPEP exemptions listed below and does not require approval by this agency.

1. Carports
2. Swimming pools (residential)
3. Residential wood decks
4. Residential slabs under 250 SF
5. Signs
6. Enclosure of condominium balconies
7. Construction of storage building (less than 250 sq. ft.) and any prefabricated storage building for residential areas. attached or free standing.
8. Improvements to mobile homes
9. Mobile homes being placed onto existing pads and hookups in mobile home park already approved by DNRP.
10. Covered or uncovered patios under 250 sq. ft.
11. Screen porches on existing slabs
12. Interior changes to retail or office buildings in which there is no change in use (vacant less then 6 mos.) seating capacity. and no materials being removed or disturbed
13. Additions to residences on septic tank
14. Repair to existing buildings
15. Fences (Residential)
16. Electrical installations (Except for Commercial first time use)
17. Interior remodeling of a home
18. Lawn sprinkler systems
19. Satelite dish (antenna) construction for residences
20. Additions [redacted] to single or multi family residences on sewer.
22. Other _____

Be advised that any modifications in the project should be submitted for review, as changes may result in Broward County DPEP approval being required.

By [signature] Date 12/23/03

CITY OF HOLLYWOOD, FLORIDA

PERMIT APPLICATION

NOTE: AN INCOMPLETE APPLICATION MAY DELAY THE TIMELY ISSUANCE OF YOUR PERMIT; PLEASE ENTER N/A IF A SECTION IS NOT APPLICABLE.

DATE 03-10-04 TAX FOLIO # 514214014640

DESCRIPTION: LOT 10 & 11 BLOCK 27 SUBDIVISION Hollywood Lakes Section

JOB NAME Bullock PHONE # 954-924-1132

JOB ADDRESS 1201 N. South Lake Drive SUITE — HOLLYWOOD, FL ZIP 33019

DETAILED WORK DESCRIPTION: replace windows; new room Addition; new kitchen; new AC system; new driveway & patio

USE/OCCUPANCY SINGLE FAMILY SQ. FT. 3,000 ESTIMATED VALUE: $ 48,000.00

CONTRACTOR'S NAME William Seay, Inc. PHONE # 954-923-0288

CONTRACTOR'S ADDRESS 2020 Taylor St, 2C CITY Hollywood, STATE FL ZIP 33020

CERTIFICATE OF COMPETENCY # — FAX # 954-923-3681

CONTRACTORS STATE CERTIFICATION OR REGISTRATION NO. CGC009728

OWNER OR FEE SIMPLE TITLE HOLDER'S NAME James Bullock

OWNER OR FEE SIMPLE TITLE HOLDER'S ADDRESS 1201 N. South Lake Drive

BONDING COMPANY NONE

BONDING COMPANY ADDRESS NONE

ARCHITECT/ENGINEER'S NAME George Hernandez PHONE # 954-923-0273

ARCHITECT/ENGINEER'S ADDRESS 1001 Van Buren St. CITY Hlwd. STATE FL ZIP 33019

MORTGAGE LENDER'S NAME NONE

MORTGAGE LENDER'S ADDRESS NONE

ELECTRICAL CONTRACTOR: _____

Phone # _____ LICENSE # _____

Sworn before me this _____ of _____ 20 _____ . _____

Notary Public

Value $ _____ _____

Notarized Signature of Qualifier

MECAHNICAL CONTRACTOR: _____

Phone # _____ LICENSE # _____

Sworn before me this _____ of _____ 20 _____ . _____

Notary Public

Value $ _____ _____

Notarized Signature of Qualifier

ITY OF HOLLYWOOD, FLORIDA

PERMIT APPLICATION

ALL OF THE FOLLOWING MUST BE FILLED IN BY APPLICANT, ACCORDING TO FS 713.135

DATE 2-24-04 TAX FOLIO #

DESCRIPTION: LOT BLOCK SUBDIVISION

JOB NAME Bullock PHONE #

JOB ADDRESS 1201 N. Southlake Drive CITY OF HOLLYWOOD STATE FL ZIP

DETAILED WORK DESCRIPTION:

Relocate Kitchen

SQ.FT. ESTIMATED VALUE: $ 1000.00

CONTRACTOR'S NAME J+J DAVIS PLBG PHONE # 954-680-6543

CONTRACTOR'S ADDRESS 5101 SW 111th TERR CITY FT. LAUD STATE FL ZIP 33328

CERTIFICATE OF COMPETENCY # MASTER FAX # 954-680-4814

CONTRACTOR'S STATE CERTIFICATION OR REGISTRATION NO. CFC057602

OWNER OR FEE SIMPLE TITLE HOLDER'S NAME

OWNER OR FEE SIMPLE TITLE HOLDER'S ADDRESS

BONDING COMPANY

BONDING COMPANY ADDRESS

ARCHITECT/ENGINEER'S NAME PHONE #

ARCHITECT/ENGINEER'S ADDRESS CITY STATE ZIP

MORTGAGE LENDER'S NAME

MORTGAGE LENDER'S ADDRESS

ELECTRICAL CONTRACTOR:

Phone # LICENSE #

Sworn before me this _____ of _____, 19____. _____
Notary Public

_____ Value $
Notarized Signature of Qualifier

MECHANICAL CONTRACTOR:

Phone # LICENSE #

Sworn before me this _____ of _____, 19____. _____
Notary Public

_____ Value $
Notarized Signature of Qualifier

CITY OF HOLLYWOOD, FLORIDA

PERMIT APPLICATION

NOTE: AN INCOMPLETE APPLICATION MAY DELAY THE TIMELY ISSUANCE OF YOUR PERMIT; PLEASE ENTER N/A IF A SECTION IS NOT APPLICABLE.

DATE _____ TAX FOLIO # _____

DESCRIPTION: LOT _____ BLOCK _____ SUBDIVISION _____

JOB NAME _____ PHONE # _____

JOB ADDRESS _____ SUITE _____ HOLLYWOOD, FL ZIP _____

DETAILED WORK DESCRIPTION : _____

_____

USE/OCCUPANCY _____ SQ. FT. _____ ESTIMATED VALUE: $ _____

CONTRACTOR'S NAME _____ PHONE # _____

CONTRACTOR'S ADDRESS _____ CITY _____ STATE _____ ZIP _____

CERTIFICATE OF COMPETENCY # _____ FAX # _____

CONTRACTORS STATE CERTIFICATION OR REGISTRATION NO. _____

OWNER OR FEE SIMPLE TITLE HOLDER'S NAME _____

OWNER OR FEE SIMPLE TITLE HOLDER'S ADDRESS _____

BONDING COMPANY _____

BONDING COMPANY ADDRESS _____

ARCHITECT/ENGINEER'S NAME _____ PHONE # _____

ARCHITECT/ENGINEER'S ADDRESS _____ CITY _____ STATE _____ ZIP _____

MORTGAGE LENDER'S NAME _____

MORTGAGE LENDER'S ADDRESS _____

ELECTRICAL CONTRACTOR: _____

Phone # _____ LICENSE # _____

Sworn before me this _____ of _____ 20 _____ . _____

Notary Public

Value $ _____ _____

Notarized Signature of Qualifier

MECAHNICAL CONTRACTOR: Thomas Hansen

Phone # 954 983-9582 LICENSE # CAC057069

Sworn before me this 23 of Febuy 20 04 . Herman C Bader Jr

Notary Public

Value $ 6,000.00 Thomas Hansen

Notarized Signature of Qualifier

Herman C. Bader, Jr.
Commission # DD 004296
Expires April 9, 2005
Bonded Thru
Atlantic Bonding Co., Inc.

W. W. Schaefer Engineering & Consulting, P.A.

8895 N. Military Trail; Suite C-204
Palm Beach Gardens, FL 33410
Phone (561)775-4902; Fax (561)775-4903

January 27, 2005

Fred's Contractor Service
1421 Lakeview Drive
Lake Worth, FL 33461
Attn: Fred Pizzi

Re: Windows & doors secondary bucking attachment requirements for the Bullock Residence, 1201 N. South Lake Drive, Hollywood, Florida

The following is the issue with the bucking installation:

- The openings are too large for the standard 2x4 buck to fill.
- 2x8 bucks must be added to the opening to reduce the opening size for the windows and their 2x4 bucks.

The following is acceptable to rectify the issue stated above:

- If only one 2x8 buck is required, place the buck to the opening with ¼" concrete screws positioned within 6" of the corners and stagger every 12" O.C. (2 staggered rows with 3" spread between rows with each row at 24" O.C.). Embed screws min. 1 ¼" into block or concrete.
- If two(2) 2x8 bucks are needed, place the first as specified above. Then place the second to the first with either ¼" x 3" concrete screws or #12 x 3" screws using the same anchor pattern as the first buck.
- If the 2nd buck must be less in thickness than 1 ½", plane down the buck, anchor to the first buck as specified above, but with shorter screws (min. 1 ¼" embed in 1st buck), and then anchor the 2x4 buck with its specified fasteners except that the fasteners must run through the 2nd 2x8 and into the 1st 2x8 minimum 1 ¼".

Note: The secondary bucking specified here-in shall not support any mullions except the jamb to jamb vertical mullion of a double casement window. At the mullion end locations of the casement mullion, two additional screws shall be placed with each applicable buck at the mullion end location for additional bucking support (4 screws total at the mullion end location per buck placed in a square pattern). All other mullions shall attach directly to the block/concrete per their approval.

If you have any questions, please call.

Sincerely,

JAN 27 2005

Warren W. Schaefer, P.E.
Florida P.E. No. 44135

Cc: Building official/inspector

W. W. Schaefer Engineering & Consulting, P.A.

8895 N. Military Trail; Suite C-204
Palm Beach Gardens, FL 33410
Phone (561)775-4902; Fax (561)775-4903

January 27, 2005

Fred's Contractor Service
1421 Lakeview Drive
Lake Worth, FL 33461
Attn: Fred Pizzi

Re: Windows & doors secondary bucking attachment requirements for the Bullock Residence, 1201 N. South Lake Drive, Hollywood, Florida

The following is the issue with the bucking installation:

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If you have any questions, please call.

Sincerely,

JAN 27 2005

Warren W. Schaefer, P.E.
Florida P.E. No. 44135

Cc: Building official/inspector

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 01/24/05
Process Number: 66066
E-Mail Address: W_SEAY@bellsouth.net
Project/Reference: BULLOCK

For Review By: (check ☑ all applicable spaces)

Division: ☒ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☒ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: William Seay, Inc.
Address: 2020 Taylor Street, 2C
Hollywood, FL 33020

E-Mail Address: W_SEAY@bellsouth.net
Contact: Bill Seay
Phone: 954 923-0288 Fax: 954 923-3681

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #_____	☐ Fire sheet #_____
☐ Structural sheet #_____	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☐ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
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☐ other_____

Special Instructions:

For Departmental Use Only:

Received by: _____ Date: 1/24/05

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 06/28/05
Process Number: 66066
E-Mail Address: bilccccc@comcast.net
Project/Reference: BULLOCK

For Review By: (check ☑ all applicable spaces)

Division: ☒ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☒ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: William Seay Inc.
2020 Taylor St., 2C
Address: Hlwd., FL 33020

E-Mail Address: bilccccc@comcast.net
Contact: William Seay
Phone: 954 923-0288 Fax: 954-923-3681

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #_____	☐ Fire sheet #_____
☒ Structural sheet #_____	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☐ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

WE ARE SUBMITTING TO YOU (check ☑)

Via ☒ hand delivery ☐ Postal delivery ☐ special delivery ☐ fax copy

- ☐ E-mail
- ☐ initial (original) sets of plans
- ☐ corrected (non-permitted) plans
- ☐ revised (permitted) plans
- ☐ shop drawings: ☐ structural steel ☐ wood trusses ☐ glass/glazing ☐ product approvals ☐ fire protection
- ☐ spot survey
- ☐ final survey
- ☐ energy (insulation) certification
- ☐ special inspector letter
- ☐ soil report
- ☐ inspection reports
- ☐ energy calcs
- ☐ site plans
- ☒ other Soil pretreatment

Special Instructions:

Nail

Test

For Departmental Use Only:

Received by: _____ Date: 6/28/05

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 04/27/05
Process Number: 66066
E-Mail Address: W_SEAY@bellsouth.net
Project/Reference: BULLOCK

For Review By: (check ☑ all applicable spaces)

Division: ☒ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☒ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: William Seay, Inc.
2020 Taylor Street, 2C
Address: Hollywood, FL 33020

E-Mail Address: W_SEAY@bellsouth.net
Contact: ~~William Seay~~ Sabrina
Phone: ~~954 923-0288~~ Fax: ~~954 923-3681~~
(954) 707 8187

WE ARE SUBMITTING TO YOU (check ☑)

Via ☒ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

☐ E-mail
☐ initial (original) sets of plans
☐ corrected (non-permitted) plans
☒ revised (permitted) plans
☐ shop drawings: ☐ structural steel
☐ wood trusses
☐ glass/glazing
☐ product approvals
☐ fire protection
☐ spot survey
☐ final survey
☐ energy (insulation) certification
☐ special inspector letter
☐ soil report
☐ inspection reports
☐ energy calcs
☐ site plans
☐ other_____

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #_____	☐ Fire sheet #_____
☒ Structural sheet #S1.1	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☐ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

Special Instructions:

delete planter @ GB 4 & 5 & pile #2 at new front entry

For Departmental Use Only:

Received by: _____ Date: 5/25

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 01/30/05
Process Number: 66066
E-Mail Address: W_SEAY@bellsouth.net
Project/Reference: BULLOCK

For Review By: (check ☑ all applicable spaces)

Division: ☒ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☒ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: William SeAy, Inc.
2020 Taylor St., 2C
Address: Hlwd., FL 33020

E-Mail Address: W_SEAY@bellsouth.net
Contact: William SeAy
Phone: (954) 923-0288 Fax: (954) 923-3681

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Via ☒ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

☐ E-mail
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☐ revised (permitted) plans
☐ shop drawings: ☐ structural steel
☐ wood trusses
☐ glass/glazing
☐ product approvals
☐ fire protection
☐ spot survey
☐ final survey
☐ energy (insulation) certification
☐ special inspector letter
☐ soil report
☐ inspection reports
☐ energy calcs
☐ site plans
☒ other window buck engineering For Pella windows

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #_____	☐ Fire sheet #_____
☐ Structural sheet #_____	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☐ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

Special Instructions:
SAME engineer that did the Pella Window Product Approvals

1 Copy only

For Departmental Use Only:
Received by: [signature] 2/1/05 Date: __/__/__

Y OF HOLLYWOOD, FLORIDA
PERMIT APPLICATION

ALL OF THE FOLLOWING MUST BE FILLED IN BY APPLICANT, ACCORDING TO FS 713.135

DATE _____ TAX FOLIO # _____

DESCRIPTION: LOT 10-11 BLOCK 27 SUBDIVISION Hollywood Lakes Section

JOB NAME Bullock Residence PHONE # _____

JOB ADDRESS 1201 N. South Lake Drive CITY OF HOLLYWOOD STATE FL ZIP 33019

DETAILED WORK DESCRIPTION: Run low voltage for TV [redacted]

_____

_____ SQ.FT. _____ ESTIMATED VALUE: $ 800.00

CONTRACTOR'S NAME Aero Electric Inc. PHONE # (954) 587-7977

CONTRACTOR'S ADDRESS 4771 SW 51st Street CITY Davie STATE Fl ZIP 33314

CERTIFICATE OF COMPETENCY # EC 000 2670 FAX # (954) 587-7978

CONTRACTOR'S STATE CERTIFICATION OR REGISTRATION NO. ~

OWNER OR FEE SIMPLE TITLE HOLDER'S NAME N/A

OWNER OR FEE SIMPLE TITLE HOLDER'S ADDRESS _____

BONDING COMPANY N/A

BONDING COMPANY ADDRESS _____

ARCHITECT/ENGINEER'S NAME N/A PHONE # _____

ARCHITECT/ENGINEER'S ADDRESS _____ CITY _____ STATE ____ ZIP _____

MORTGAGE LENDER'S NAME N/A

MORTGAGE LENDER'S ADDRESS _____

TV

ELECTRICAL CONTRACTOR: Aero Electric Inc.

Phone # (954) 587-7977 LICENSE # EC 000 2670

STEPHANIE HARVEY
MY COMMISSION # DD 214653
EXPIRES: May 22, 2007
Bonded Thru Notary Public Underwriters

Sworn before me this 20 of October, 2004. Stephanie Harvey
Notary Public

Notarized Signature of Qualifier

Value $ 800.00

1977

MECHANICAL CONTRACTOR: _____

Phone # _____ LICENSE # _____

Sworn before me this ____ of _____, 19____. _____
Notary Public

_____ Value $ _____
Notarized Signature of Qualifier

10/20/04

PLUMBING CONTRACTOR: _____

Phone # _____ LICENSE # _____

Sworn before me this _____ of _____, 19____. _____
Notary Public

_____ Value $ _____
Notarized Signature of Qualifier

ROOFING CONTRACTOR: Tony O'Brien Roofing Inc.

Phone # (954) 987-2943 LICENSE # CCC057953

Sworn before me this 23 of February, 2004. Loura Partlow
Notary Public

Value $ 8,000.00
Notarized Signature of Qualifier

LOURA PARTLOW
Notary Public, State of Florida
My comm. exp. July 22, 2005
Comm. No. DD 043929

_____ CONTRACTOR: _____

Phone # _____ LICENSE # _____

Sworn before me this _____ of _____, 19____. _____
Notary Public

_____ Value $ _____
Notarized Signature of Qualifier

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in the City of Hollywood, Florida. I understand that a separate permit must be secured for ELECTRICAL WORK, PLUMBING, SIGNS, WELLS, POOLS, BOILERS, TANKS, AIR CONDITIONERS, ETC.

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

DISCLOSURE STATEMENT

Owners of property when acting as their own contractor and providing all material supervision themselves, when building or improving farm outbuildings or one-family or two-family residences on such property for the occupancy of use of such owners and not offered for sale or lease, or building or improving commercial building at a cost of under $25,000 on such property for the occupancy or use of such owners and not offered for sale or lease. In an action brought under this part proof of the sale or lease, or offering for sale or lease, of more than one such structure by the owner-builder within 1 year after completion of same is prima facie evidence that the construction was undertaken for purposes of sale or lease. This subsection does not exempt any person who is employed by such owner and who acts in the capacity of a contractor.

SIGNATURE _____
Owner or Agent

DATE _____

_____
NOTARY as to Owner or Agent

My Commission Expires _____

SIGNATURE _____
Prime Contractor (Owner/[illegible])

DATE 2/23/04

Loura Partlow
NOTARY as to Contractor

LOURA PARTLOW
Notary Public, State of Florida
My comm. exp. July 22, 2005
Comm. No. DD 043929

My Commission Expires July 22, 2005

Within Fifteen (15) working days after the plans are submitted and accepted for a building permit, the applicant will be notified in writing that a permit is ready for issuance or that additional information is required. *Sixty (60) calendar days* after the date of such notification, where such additional information has not been submitted or the permit has not been purchased, the applicant and/or the permit shall become null and void. **Once the permit application package has become null and void it will be discarded by the Building Division, S.F.B.C. 302.1f.**

OFFICE USE ONLY

MASTER PERMIT # _____ MASTER PROCESS # 060066

PROCESS FEE PAID $ _____ APPLICATION APPROVED BY _____
Permit Officer

ITY OF HOLLYWOOD, FLORIDA
PERMIT APPLICATION

ALL OF THE FOLLOWING MUST BE FILLED IN BY APPLICANT, ACCORDING TO FS 713.135

DATE _____ TAX FOLIO # _____

DESCRIPTION: LOT 10-11 BLOCK 27 SUBDIVISION Hollywood Lakes Section

JOB NAME Bullock Residence PHONE # _____

JOB ADDRESS 1201 N. South Lake Drive CITY OF HOLLYWOOD STATE FL ZIP 33019

DETAILED WORK DESCRIPTION: Run low voltage for ~~[illegible]~~ telephone

_____ SQ.FT. _____ ESTIMATED VALUE: $ 800.00

CONTRACTOR'S NAME Aero Electric Inc. PHONE # (954) 587-7977

CONTRACTOR'S ADDRESS 4771 SW 51st Street CITY Davie STATE FL ZIP 33314

CERTIFICATE OF COMPETENCY # EC 0002670 FAX # (954) 587-7978

CONTRACTOR'S STATE CERTIFICATION OR REGISTRATION NO. ~

OWNER OR FEE SIMPLE TITLE HOLDER'S NAME N/A

OWNER OR FEE SIMPLE TITLE HOLDER'S ADDRESS

BONDING COMPANY N/A

BONDING COMPANY ADDRESS

ARCHITECT/ENGINEER'S NAME _____ PHONE # _____

ARCHITECT/ENGINEER'S ADDRESS N/A CITY _____ STATE ____ ZIP _____

MORTGAGE LENDER'S NAME N/A

MORTGAGE LENDER'S ADDRESS

Phone

ELECTRICAL CONTRACTOR: Aero Electric Inc.

Phone # (954) 587-7977 LICENSE # EC 0002670

Sworn before me this 20 of October, 2004. Stephanie Harvey
Notary Public

Notarized Signature of Qualifier

Value $ 800.00

STEPHANIE HARVEY
MY COMMISSION # DD 214653
EXPIRES: May 22, 2007
Bonded Thru Notary Public Underwriters

1750

MECHANICAL CONTRACTOR: _____

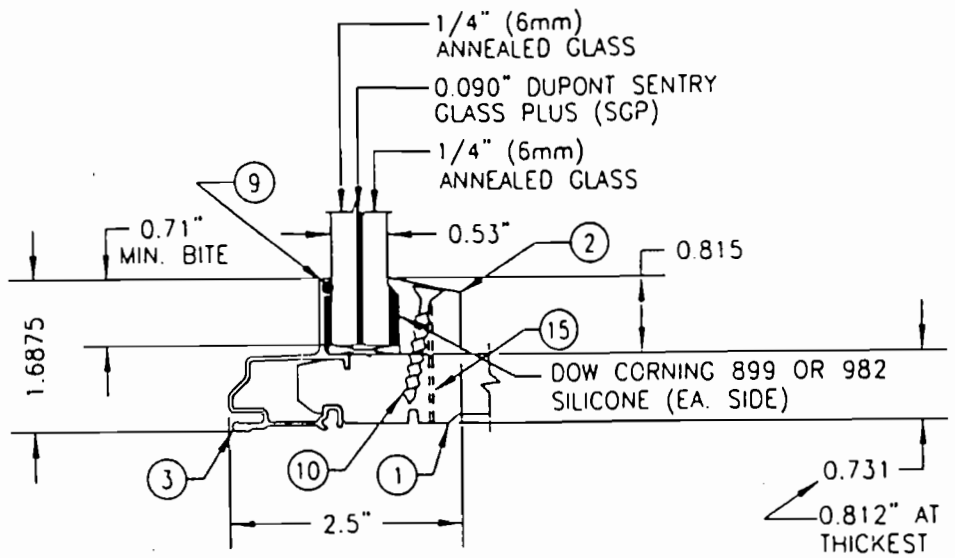
Phone # _____ LICENSE # _____

Sworn before me this ____ of _____, 19____. _____
Notary Public

Notarized Signature of Qualifier

Value $ _____

OK
10/20/04

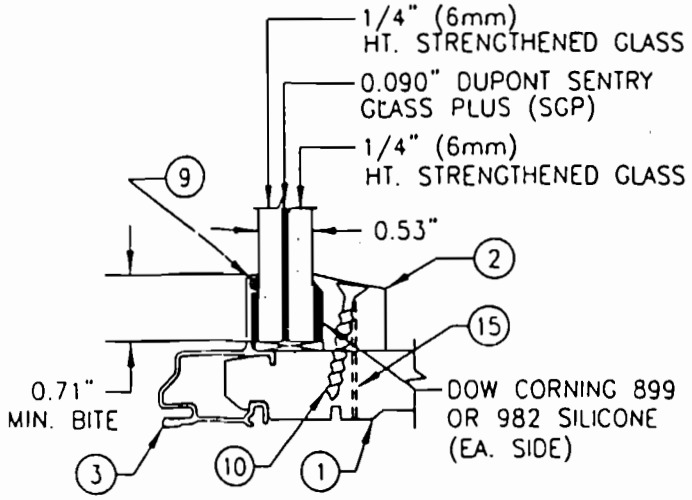


GLAZING DETAIL
1/2" ANNEALED LAMINATED GLASS

ALLOWABLE DESIGN PRESSURE

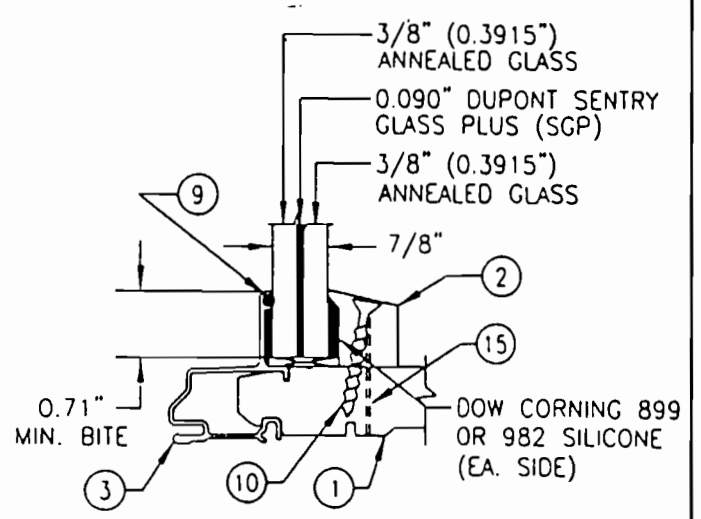
SHORT DIMENSION (1)	DESIGN LOAD CAPACITY (POSITIVE & NEGATIVE PSF) (2) (3)																			
	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.
30"	90	95	90	95	90	95	90	95	90	95	90	95	90	95	90	95	90	95	90	95
36"	90	95	90	95	90	95	90	95	90	95	90	95	90	95	90	95	90	95	0	0
42"	90	95	90	95	90	95	90	95	90	95	90	93.2	0	0	0	0	0	0	0	0
48"	90	95	90	95	90	95	86.2	86.2	0	0	0	0	0	0	0	0	0	0	0	0
50"	90	95	90	95	90	91.8	81.6	81.6	0	0	0	0	0	0	0	0	0	0	0	0
54"	90	95	90	92.6	82.5	82.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60"	N/A	N/A	81 0	81 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1) LONG DIMENSION	54"		60"		66"		73"		78"		84"		90"		96"		108"		120"	

(1) ALL WINDOW DIMENSION VALUES SHOWN ARE +/-1/2" & ARE FRAME (F.H. & F.W.) DIMENSIONS
(2) "N/A" = SIZE NOT APPLICABLE DUE TO SHORT DIMENSION BEING LARGER THAN LONG DIMENSION.
(3) "0" MEANS THAT THAT SIZE CAN NOT BE USED AND ALLOWABLE LOAD = 0.



GLAZING DETAIL
1/2" HT. STRENGTHENED LAMINATED GLASS

ALLOWABLE DESIGN PRESSURE
WITH 1/2" HEAT STRENGTHENED
LAMINATED GLASS = +75/-80 PSF
FOR ALL WINDOW SIZES UP TO
50.0 SQ.FT. IN FRAME AREA.



GLAZING DETAIL
7/8" ANNEALED LAMINATED GLASS

ALLOWABLE DESIGN PRESSURE

SHORT DIMENSION (1)	DESIGN LOAD CAPACITY (POSITIVE & NEGATIVE PSF)					
	POS.	NEG.	POS.	NEG.	POS.	NEG.
54"	90	105	90	105	90	105
60"	90	105	90	98.9	90	90.9
(1) LONG DIMENSION	96"		108"		120"	

ALL SIZES SMALLER THAN THOSE SHOWN
IN THIS TABLE ARE ACCEPTABLE WITH A
DESIGN PRESSURE OF +90/-105 PSF.

M1140

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 03-0114.09
Expiration Date APRIL 7, 2008
By Manuel Perez
Miami-Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 02-1021.05
Expiration Date APRIL 7, 2003
By Manuel Perez
Miami-Dade Product Control
Division

NO	REVISION DESCRIPTION	BY	DATE

DRAWN BY: W.W.S. | CHECKED BY: W.W.S.
SCALE: 1=2 | DATE: 12/05/00

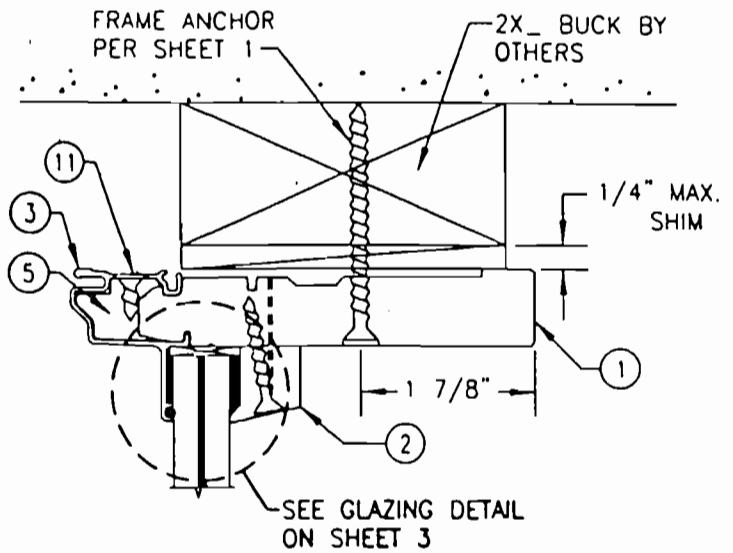
DRAWING TITLE: ALUMINUM CLAD DIRECT GLAZED FIXED WINDOWS

MANUFACTURER: PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

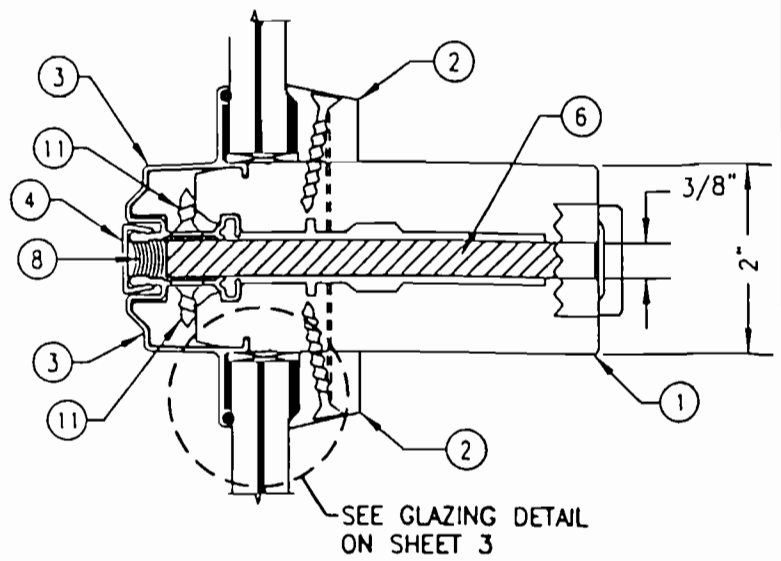
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SAWGRASS DRIVE; SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
OCT 14 2002
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1032 | REV.
SHEET NO. 3 OF 3



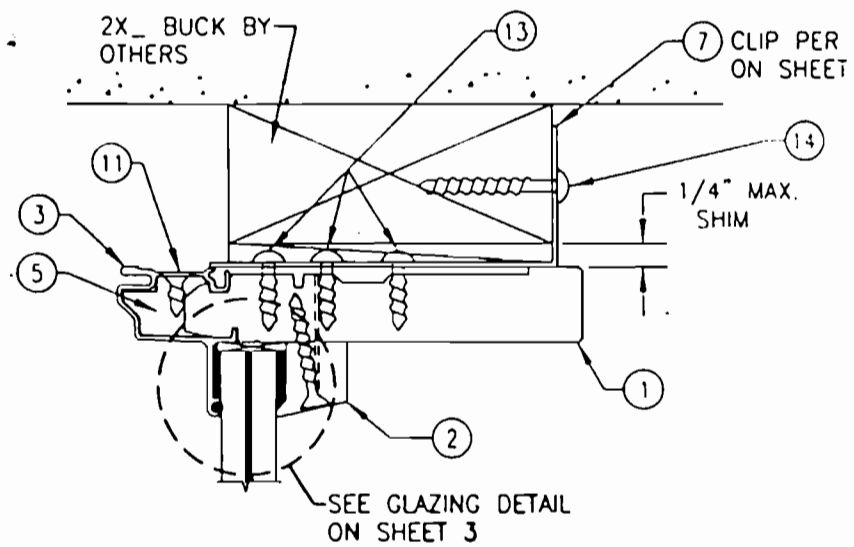
1/2 STANDARD CROSS SECTION (SCREW MOUNT)



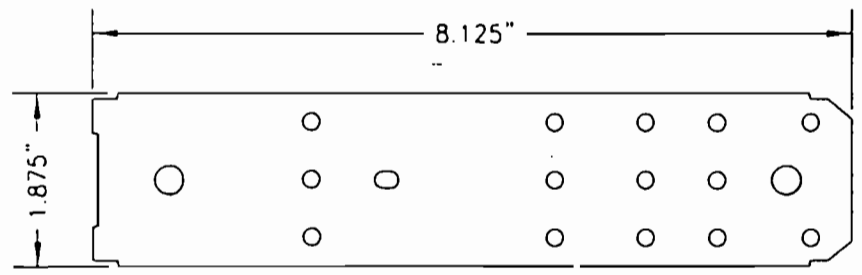
2/2 TYP. MULLION DETAIL W/WOOD REINF.

BILL OF MA. RIALS

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	JAMB	4.27" X 0.812" SELECT SOFT WOOD
2	GLAZING STOP	0.665" X 0.815" SELECT SOFT WOOD
3	JAMB CLADDING/COVER	0.045" THK. 6063-T6 ALUMINUM
4	MULLION CLIP	0.047" THK. 6063-T6 ALUMINUM (CONT.)
5	JAMB CORNER KEY	NYLON
6	WOOD MULLION REINFORCEMENT	3/8"X4 13/16" P.T. SO. PINE (G = 0.55)
7	INSTALLATION CLIP	0.05" THK. RB 65 GALV. STEEL
	SEALS & SEALANTS	
8	SILICONE SEALANT	LATEX
9	BULB GASKET	PVC
	MISCELLANEOUS FASTENERS	
10	#6 X 1 1/4" S.S. FH	3" FROM CORNERS & 9" MAX. O.C.
11	#10 X 1/2" S.S. PFH	2 PER JAMB CORNER KEY
12	1" X 1/2" CORRUGATED FASTENER	4" FROM ENDS & 10" TO 12" O.C.
13	#8 X 3/4" PH SCREW	3 PER CLIP INTO JAMB
14	#8 X 1 1/2" PH SCREW	1 PER CLIP INTO BUCK
15	1/4" X 1 1/8" 18 GA STAPLE	WITHIN 4" FROM CORNERS & MAX 12" O.C.



1/2 STANDARD CROSS SECTION (CLIP MOUNT)



INSTALLATION CLIP
0.05" THK. RB 65 GALV. STEEL

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 03-0114.09
Expiration Date APRIL 7, 2008
By Manuel Perez
Miami-Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 02-1021.05
Expiration Date APRIL 7, 2003
By Manuel Perez
Miami-Dade Product Control Division

NO	REVISION DESCRIPTION	BY	DATE

DRAWN BY: W.W.S. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 12/05/00

DRAWING TITLE: ALUMINUM CLAD DIRECT GLAZED FIXED WINDOWS

MANUFACTURER: PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
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CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANDIREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX. 561-775-4903

CERTIFICATION
OCT 14 2002
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1032 | REV.
SHEET NO. 2 OF 3

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE FLORIDA BUILDING CODE (F.B.C.).
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AS SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. IMPACT RESISTANT SHUTTERS NOT REQUIRED.
5. ALL DIMENSIONS ARE GIVEN IN INCHES UNLESS OTHERWISE SHOWN.
6. LATEX OR SILICONE CAULKING SEALANT SHALL BE USED BETWEEN ALUMINUM CLADDING AND WOOD BUCK.

PRODUCT DESCRIPTION

FRAME CONSTRUCTION:
SELECT SOFT WOOD, FINGER JOINTED WITH CLEAR PINE VENEER. EXTERIOR SURFACE CLAD WITH ALUMINUM.

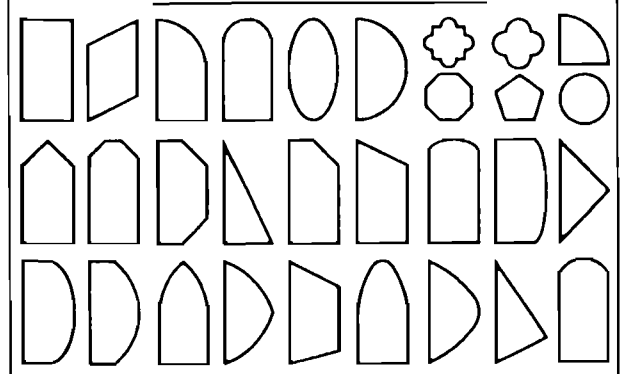
CORNER CONSTRUCTION:
WOOD FRAME MEMBERS ARE ATTACHED TOGETHER WITH (3) #8 X 2" FHWS AT EACH CORNER. ALUM. CLADDING W/MITER CUT CORNERS IS ATTACHED TO HEAD, JAMB & SILL AT EACH CORNER USING A PLASTIC CORNER KEY, WITH (2) #8 X 1/2" FH SMS.

TYP. FRAME ANCHORS (DIRECT SETS):

1. FRAME TO 2X_ WOOD BUCK: NO. 10 SMS WITH MIN. 1 3/8" BUCK EMBED SPACED PER ELEVATIONS.
2. FRAME TO BLOCK/CONCR. WITH 1X_ CONT. SPACER: 1/4" TAPCONS WITH MIN. 1 1/4" BLOCK/CONCR. EMBED & MIN. 2 1/2" BLOCK/CONCR. EDGE DISTANCE.
3. MULLION ENDS: ADDITIONAL NO. 10 SMS WITH MIN. 1 3/8" BUCK EMBED OR 1/4" TAPCON WITH MIN. 1 1/4" BLOCK/CONCR. EMBED PER ELEVATIONS.

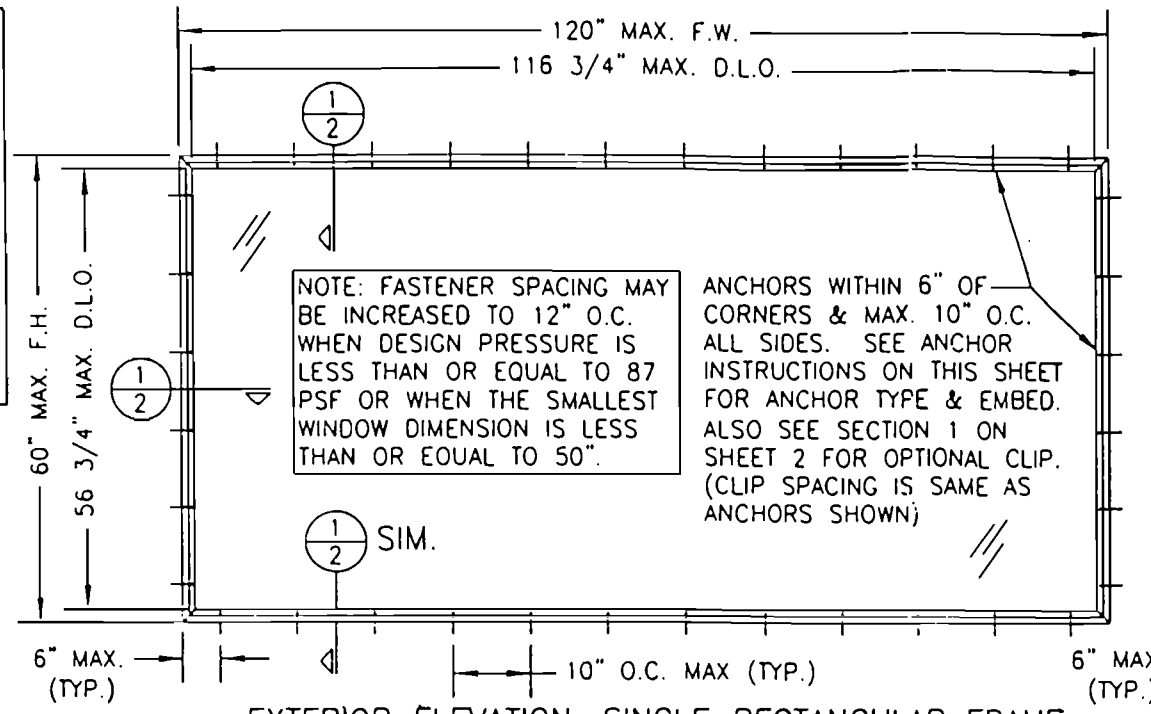
NOTE: EACH ANCHOR MAY BE REPLACED WITH AN INSTALLATION CLIP. SEE SECTION 1 ON SHEET 2 FOR CLIP INSTALLATION DETAIL.

APPROVED SHAPES

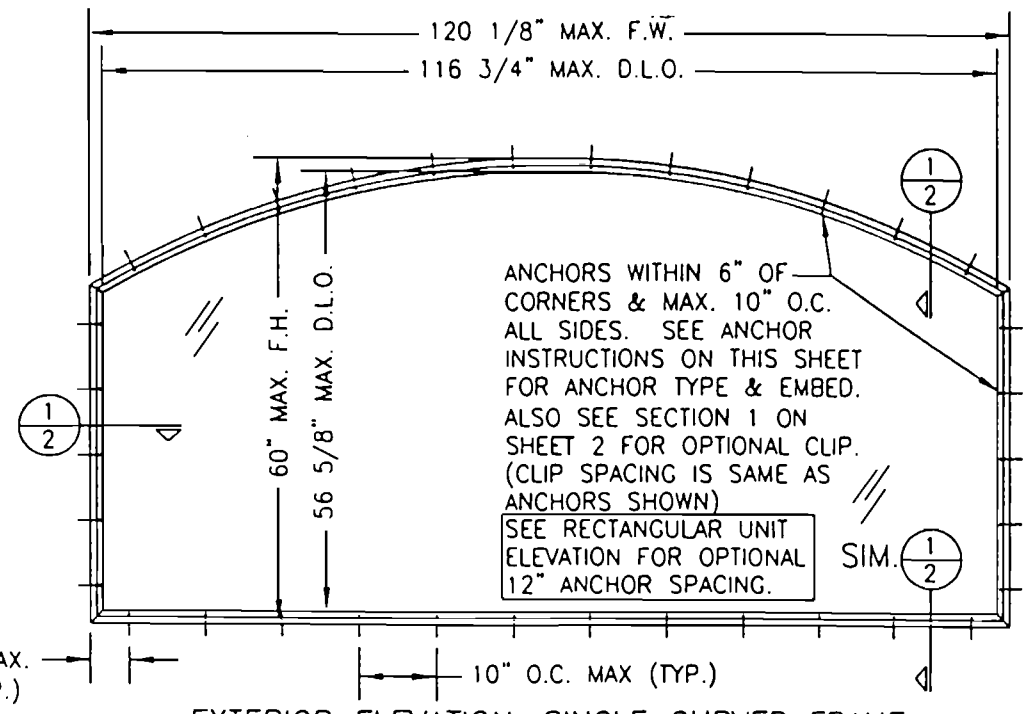


NOTES:

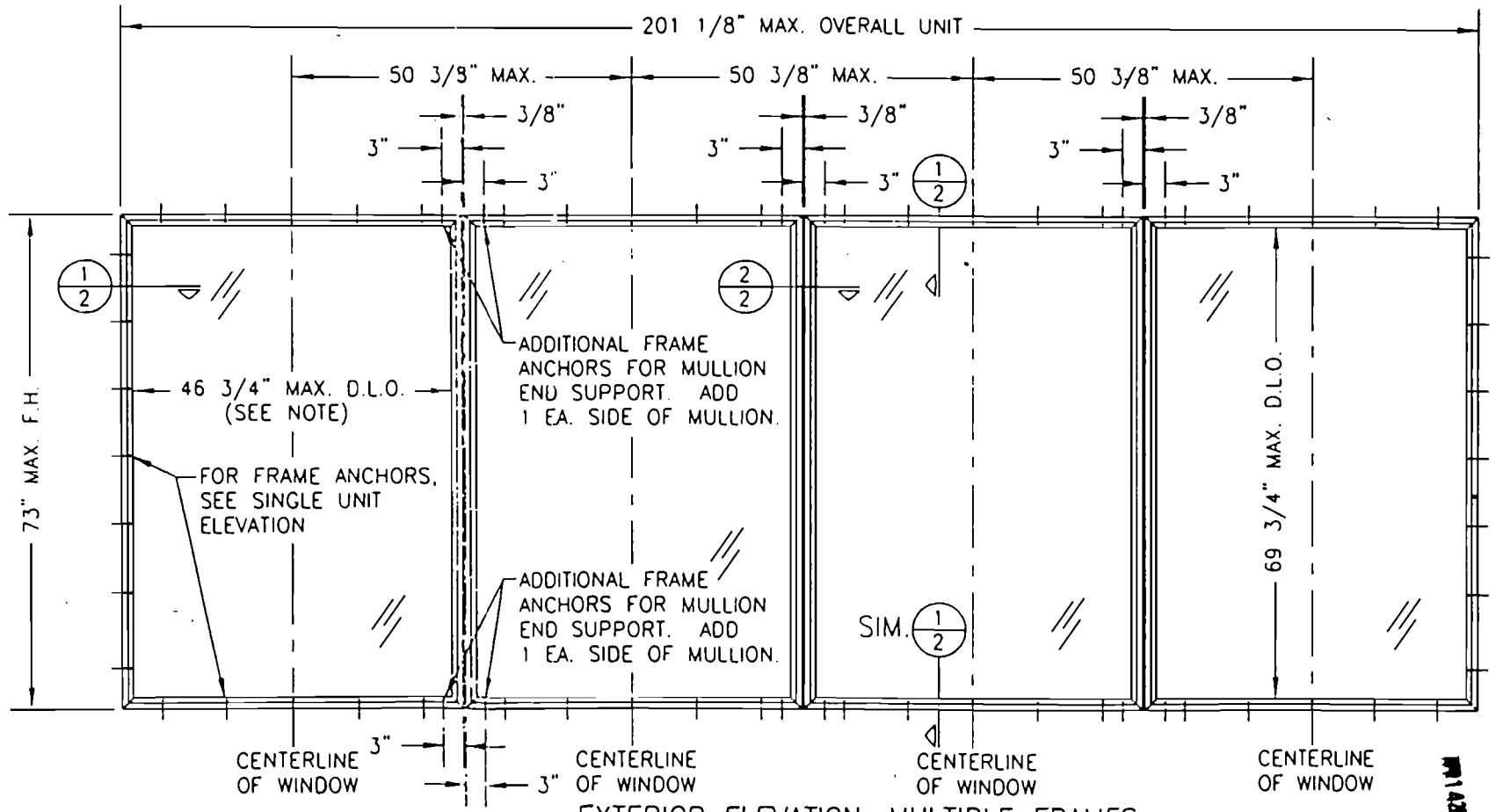
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION PER CORNER DETAILS.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.
3. SHAPED WINDOWS ARE INSTALLED THE SAME AS THE RECTANGULAR WINDOWS SHOWN IN ELEVATION. SEE SECTIONS & CORNER DETAILS FOR DETAIL SPECIFIC TO SHAPED WINDOWS.



EXTERIOR ELEVATION; SINGLE RECTANGULAR FRAME



EXTERIOR ELEVATION; SINGLE CURVED FRAME



EXTERIOR ELEVATION; MULTIPLE FRAMES
(MAX. 4 UNITS MAY BE COMBINED)

FOR ALLOWABLE DESIGN WIND LOADS ON INDIVIDUAL WINDOWS, SEE LOAD TABLES ON SHEET 3.

MAX. ALLOWABLE DESIGN PRESSURE ON MULLED UNITS SHALL BE THE LESSER OF +90/-95 PSF OR AS ALLOWED BY THE INDIVIDUAL WINDOWS.

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 03-0114.09
Expiration Date APRIL 7, 2008
By Miami Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 02-1021.05
Expiration Date APRIL 7, 2003
By Miami Dade Product Control Division

NO	REVISION DESCRIPTION	BY	DATE
A1	ADD SHAPED WINDOW TABLE	W.W.S	10/14/02

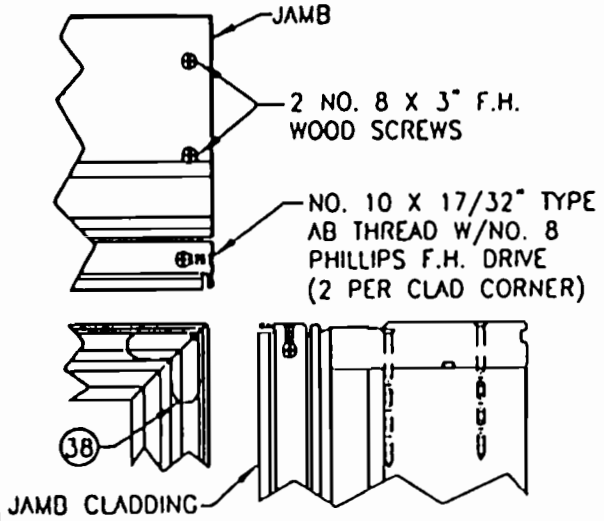
DRAWN BY: W.W.S. | CHECKED BY: W.W.S.
PLOT: 1=16 | DATE: 12/05/00

DRAWING TITLE: ALUMINUM CLAD DIRECT GLAZED FIXED WINDOWS
MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANDTREE DRIVE, SUITE 203B, PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

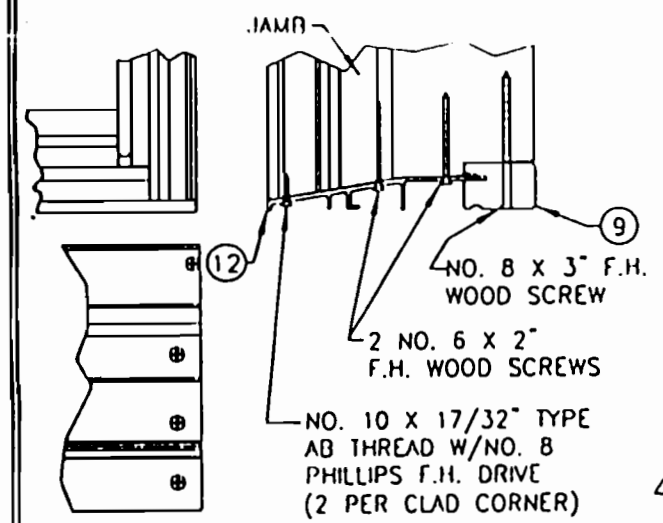
CERTIFICATION
OCT 14 2002
WARREN W. SCHAEFER, P.E. NO. 44135

DRAWING NO. 1032 | REV.
SHEET NO. 1 OF 3



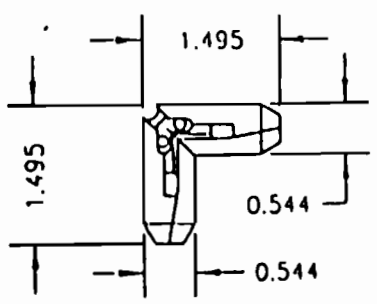
JAMB CORNER DETAIL

CORNER SEALED WITH 1/4" BEAD OF SILICONE ADHESIVE

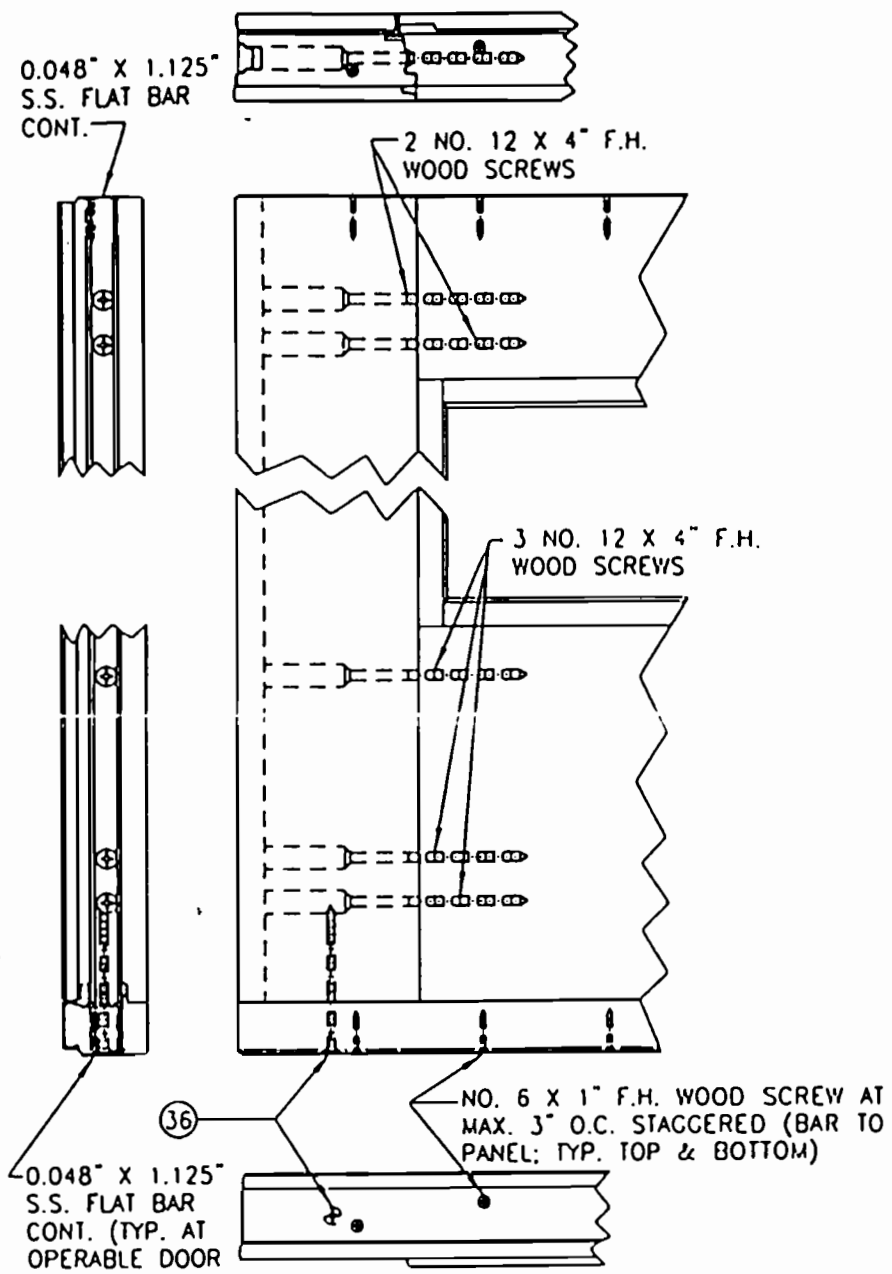


JAMB TO SILL CORNER DETAIL

CORNER SEALED WITH 1/4" BEAD OF SILICONE ADHESIVE & BUTYL TAPE



CORNER KEY



PANEL CORNER DETAILS

CORNERS SEALED WITH 1/8" BEAD OF POLYURETHANE SEALANT/ADHESIVE

BILL OF MATERIALS

ITEM	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	JAMB/FRAME MEMBER (5.189X0.998)	WESTERN PINE
2	PANEL STOP (1.122X0.592)	WESTERN PINE
3	STILE (3.84X1.839)	WESTERN PINE
4	TOP RAIL (3.911X1.839)	WESTERN PINE
5	BOTTOM RAIL (8.172X1.839)	WESTERN PINE
6	INTERIOR GLAZING STOP (0.75X0.873)	WESTERN PINE
7	THRESHOLD (1.621X0.997)	WESTERN PINE
8	THRESHOLD EXTENSION (1.636X1.247)	WESTERN PINE
9	INNER SILL (1.558X0.997)	WESTERN PINE
10	BOTTOM RAIL PANEL FILLER (1.816X1.122)	WESTERN PINE
11	ASTRIGAL (2.817X2.394)	WESTERN PINE
12	OUTER SILL (4.629X1.652X0.09 THK.)	6063-T6 ALUMINUM
13	JAMB/FRAME CLADDING (1.539X0.996X0.045 THK.)	6063-T6 ALUMINUM
14	HEAD DRIP CAP (1.126X0.685X0.04 THK.)	6063-T6 ALUMINUM
15	STILE & TOP RAIL CLADDING (3.44X0.5X0.235 THK.)	3003-H14 ALUMINUM
16	BOTTOM RAIL CLADDING (7.682X0.5X0.0235 THK.)	3003-H14 ALUMINUM
17	GLAZING BEAD (0.594X1.069X0.0235 THK.)	3003-H14 ALUMINUM
18	ASTRIGAL COVER (1.345X0.81X0.047 THK.)	6063-T6 ALUMINUM
19	MULLION COVER (0.734X0.327X0.047 THK)	6063-T6 ALUMINUM
20	PANEL FILLER COVER (0.319X1.059X0.04 THK.)	3003-H14 ALUMINUM
21	SILL SHIM	SEMI-RIGID PVC
	HARDWARE	
22	3-POINT LOCKING SYSTEM	BY GU HARDWARE FOR PELLA
23	FLUSH BOLT	TOP & BOT. BY GU HARDWARE FOR PELLA
24	HANDLE ASSEMBLY	BY CIFAL FOR PELLA
25	4 1/2" 6063-T6 ALUM HINGE	BY PELLA (WITH S.S. PIN)
26	HEAD STRIKE PLATE	6063-T6 ALUMINUM
27	SILL STRIKE PLATE	6063-T6 ALUMINUM
28	JAMB STRIKE PLATE	BRASS
	SEALS & SEALANTS	
29	JAMB & ASTRIGAL WEATHERSTRIP	PVC
30	SILL WEATHERSTRIP	PVC
	MISCELLANEOUS FASTENERS	
31	4 NO. 12 S.S. HINGE SCREWS	HINGE TO STILE
32	2 NO. 12 S.S. HINGE SCREWS	HINGE TO JAMB
33	4 NO. 8 X 3" S.S. F.H. WOOD SCREW	ASTRIGAL TO INACTIVE PANEL; WITHIN 3" OF ENDS & EQUALLY SPACED
34	NO. 8 X 3" S.S. F.H. WOOD SCREWS	JAMB TO FIXED PANEL; WITHIN 4" OF CORNERS & MAX. 8" O.C.
35	0.11" X 1 1/2" RING SHANK NAIL	INTERIOR GLAZING STOP TO PANEL; WITHIN 3" OF CORNERS & MAX. 8" O.C.
36	4 NO. 10 X 3 1/4" S.S. F.H. WS	2" FROM CORNERS & EQ. SPACED
	OTHER	
37	ALUMINUM SNAP-ON JAMB CLAD FIN	OPTIONAL
38	JAMB CLAD CORNER KEY	NYLON

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 02-1003.03
Expiration Date 12/04/07
By Miami-Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE NOV 15 2001
BY PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO 01-0124.05

DRAWN BY: W.W.S. | CHECKED BY: W.W.S.
PLOT: 1-16 | DATE: 01/05/01

NO	REVISION DESCRIPTION	BY	DATE

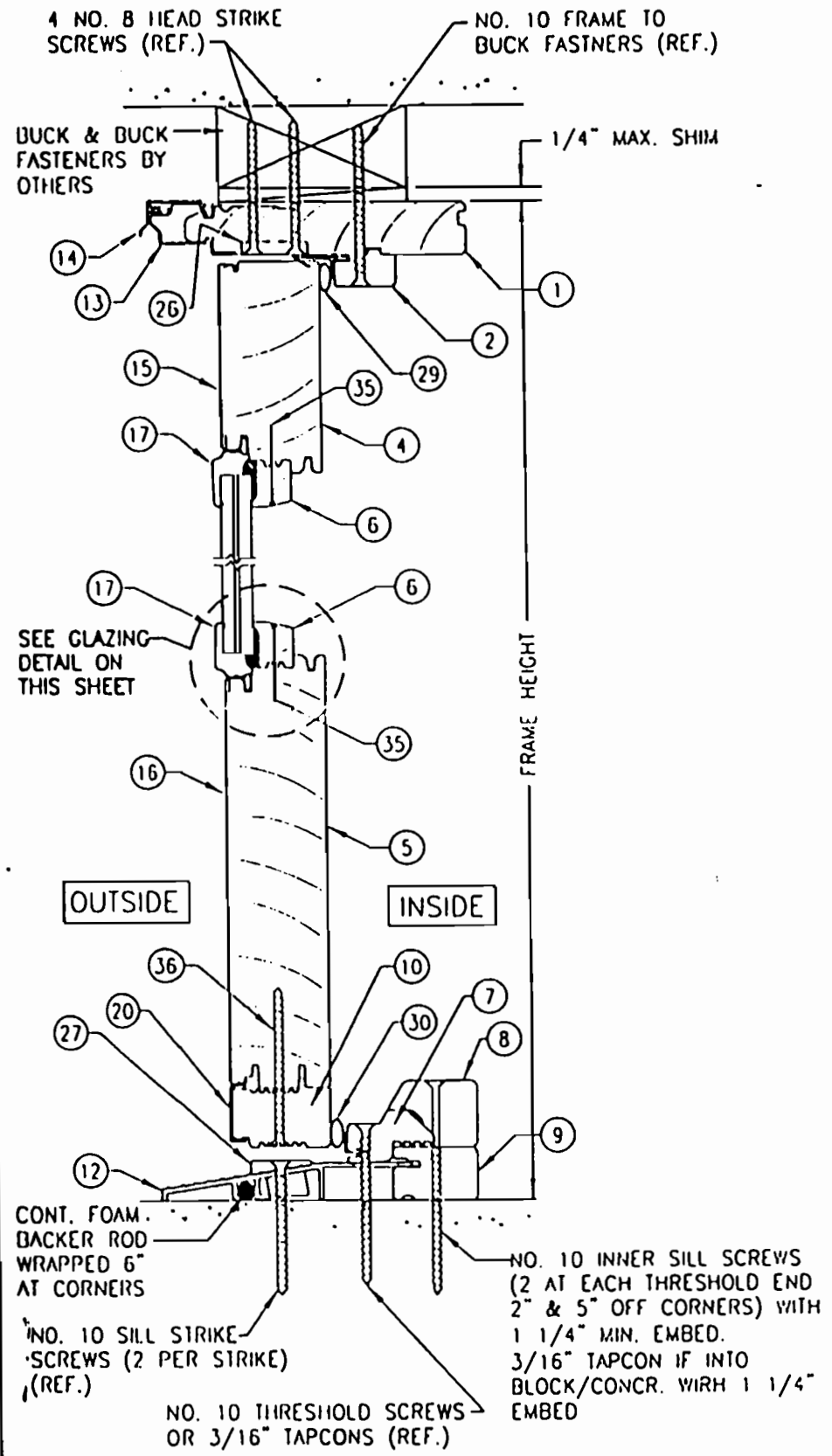
DRAWING TITLE: ALUMINUM CLAD OUTSWING FRENCH DOORS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A., 600 SAWGRASS DRIVE; SUITE 203B, PALM BEACH GARDENS, FL 33403, PHONE: 561-775-4902 FAX: 561-775-4903

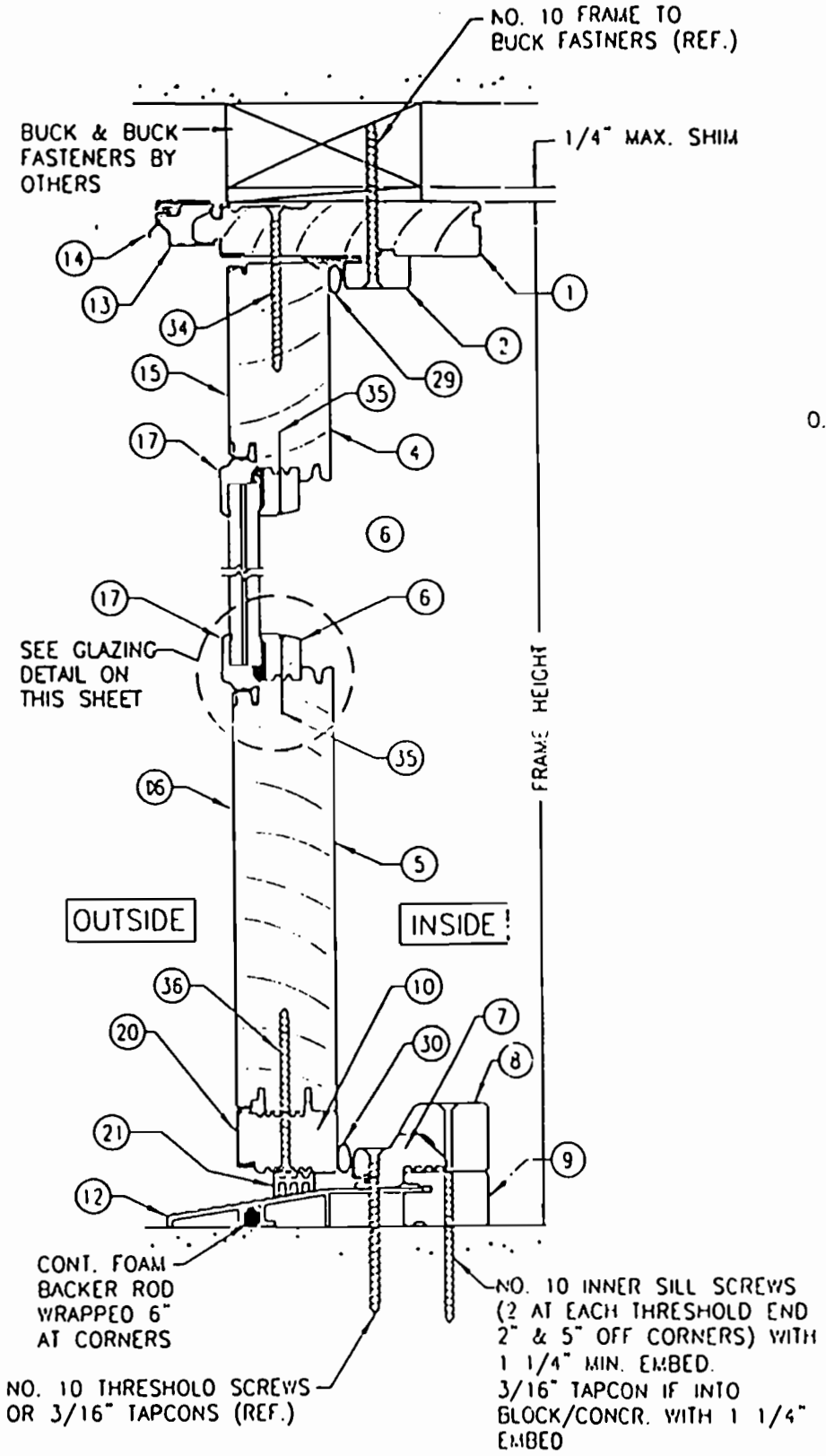
CERTIFICATION: SEP 07 2001
WARREN W. SCHAEFER, P.E. P.E. NO. 41135

DRAWING NO. 1035 | REV.
SHEET NO. 5 OF 5

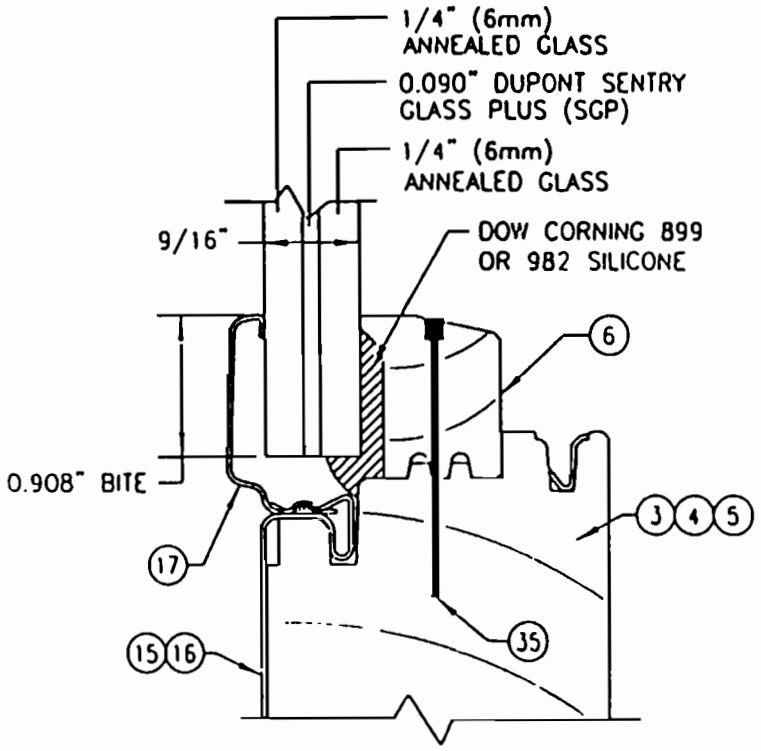


1/4 VERTICAL CROSS SECTION
OUTSWING DOOR

CONTINUOUS S.S. BAR AT TOP & BOTTOM OF PANEL NOT SHOWN FOR CLARITY. SEE SHEET 5 FOR DETAILS OF BARS.



2/4 VERTICAL CROSS SECTION
FIXED DOOR



GLAZING DETAIL

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 02-1003.03
Expiration Date 12/09/07
By Manuel Perez
Miami-Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE NOV 15 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO 01-0124.05

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-3	DATE: 01/09/01

NO.	REVISION DESCRIPTION	BY	DATE

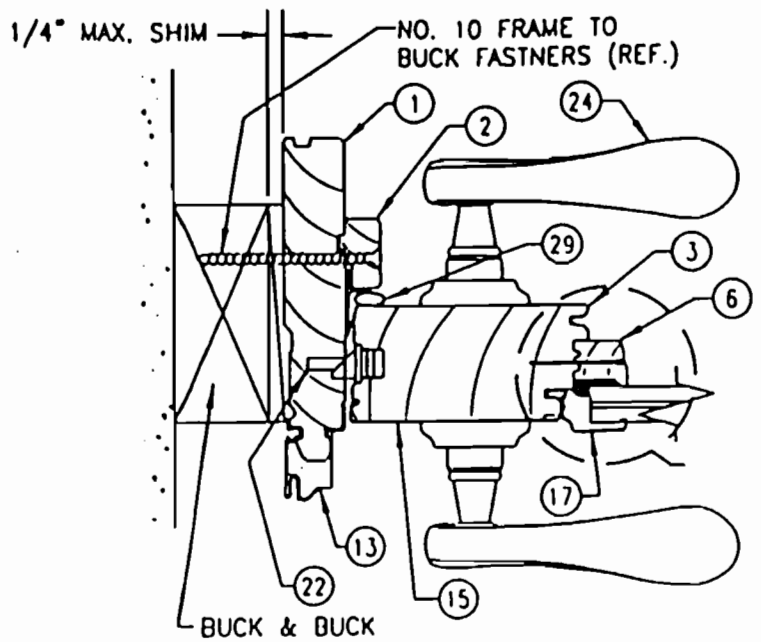
DRAWING TITLE: ALUMINUM CLAD OUTSWING FRENCH DOORS

MANUFACTURER: PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

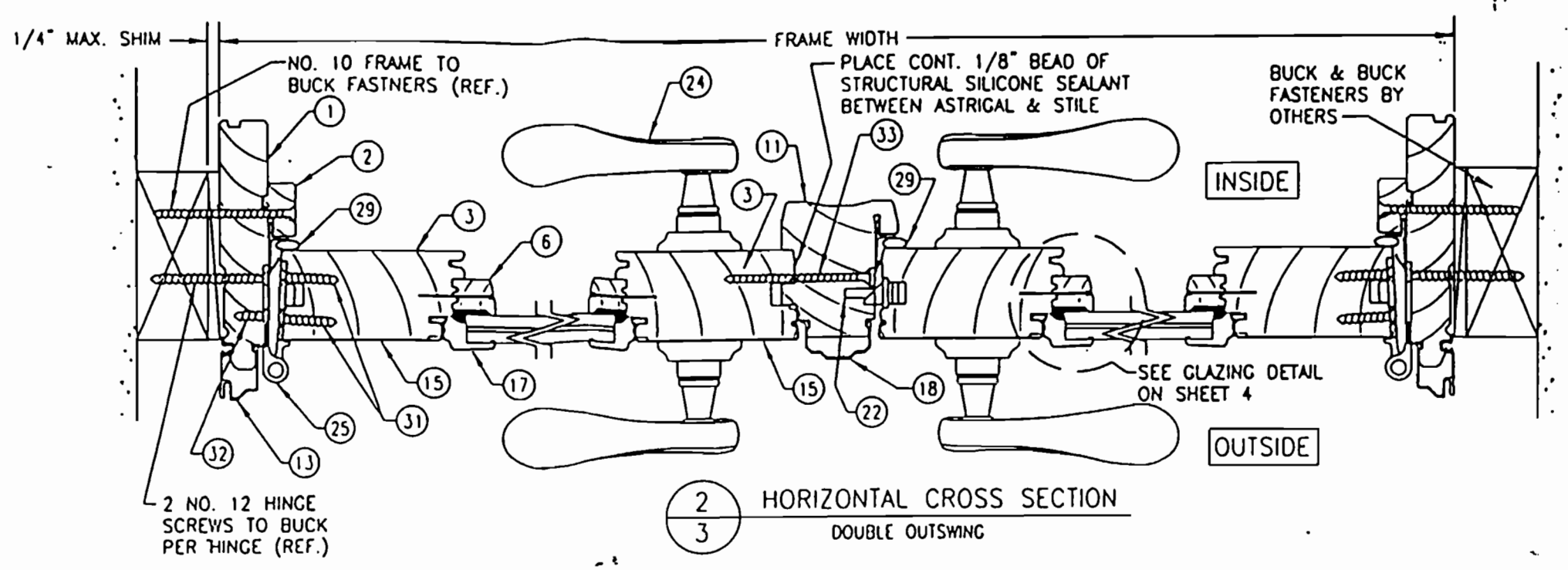
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANCTREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE 561-775-4902 FAX 561-775-4903

CERTIFICATION
SEP 07 2001
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

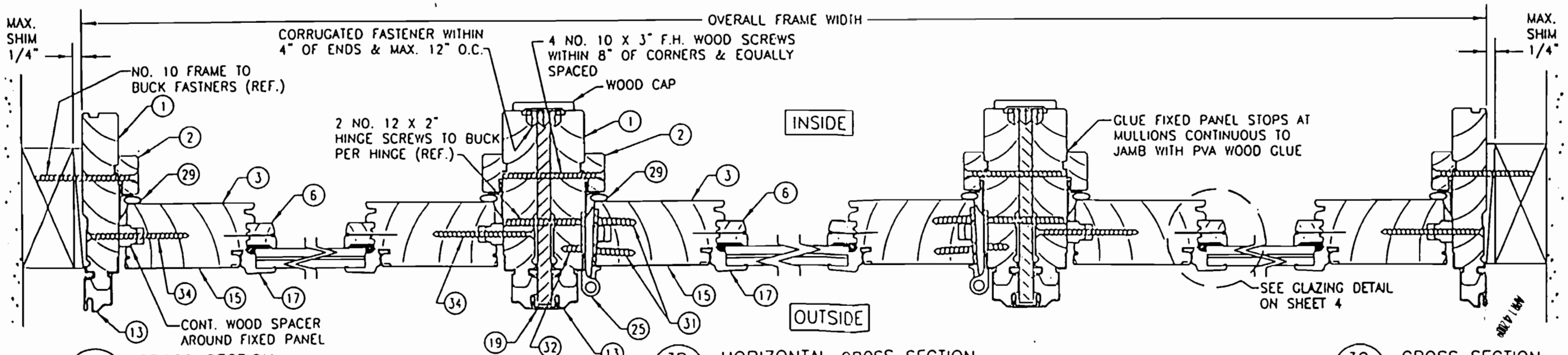
DRAWING NO. 1035
REV.
SHEET NO. 4 OF 5



1/3 HORIZONTAL CROSS SECTION
SINGLE OUTSWING LOCKING STILE



2/3 HORIZONTAL CROSS SECTION
DOUBLE OUTSWING



3A/3 CROSS SECTION
FIXED PANEL JAMB

3B/3 HORIZONTAL CROSS SECTION
DOUBLE OUTSWING W/FIXED PANELS

3C/3 CROSS SECTION
FIXED PANEL JAMB

RIGHT & LEFT SIDES ARE TYPICAL

(FOR DETAIL OF ASTRIGAL & MEETING STILES, SEE SECTION 2/3)

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 02-1003.03
Expiration Date 12/09/07
By Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE NOV 15 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0174.05

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-3	DATE: 01/03/01

NO.	REVISION DESCRIPTION	BY	DATE

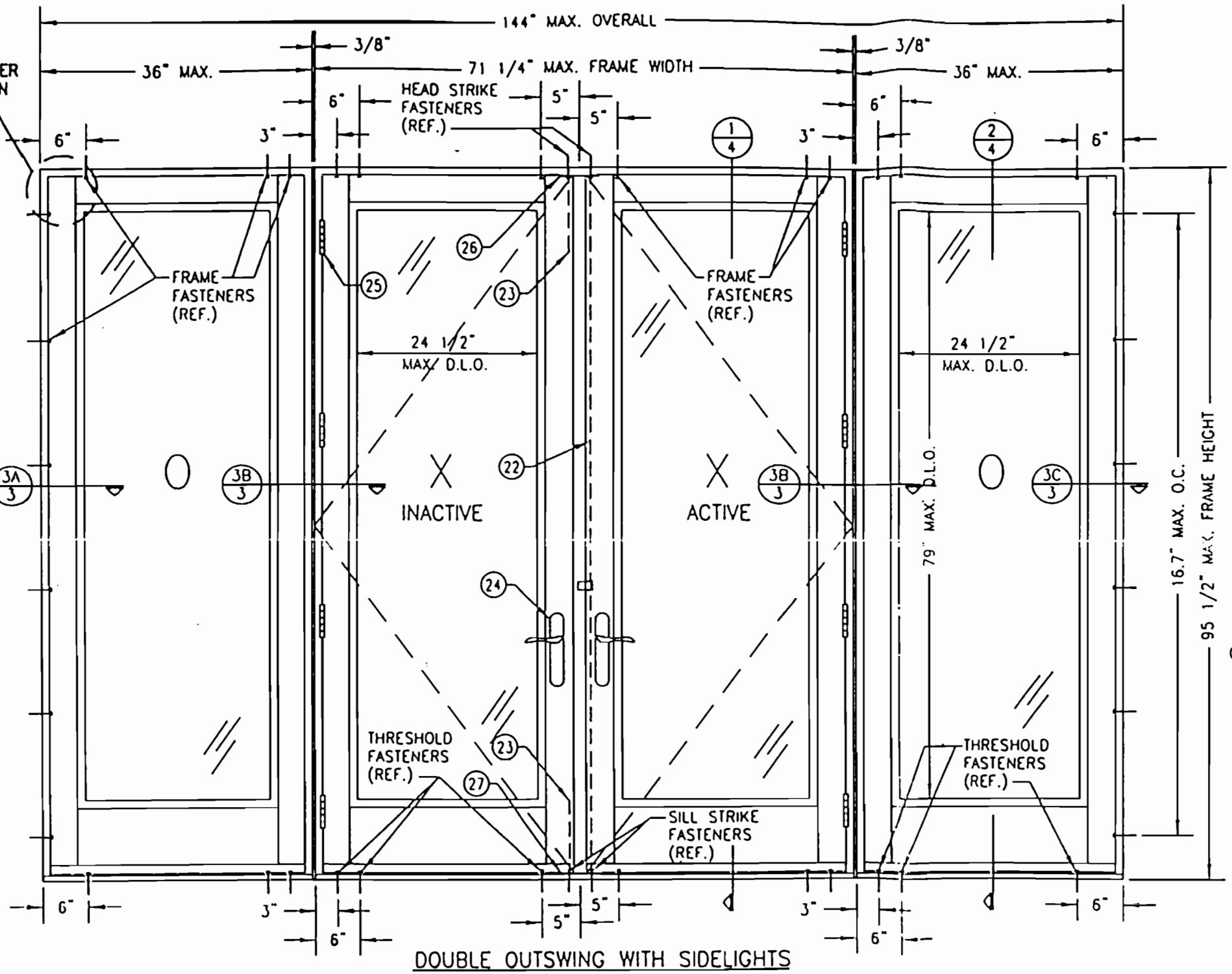
DRAWING TITLE: ALUMINUM CLAD OUTSWING FRENCH DOORS

MANUFACTURER
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SAWTREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
SEP 07 2001
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

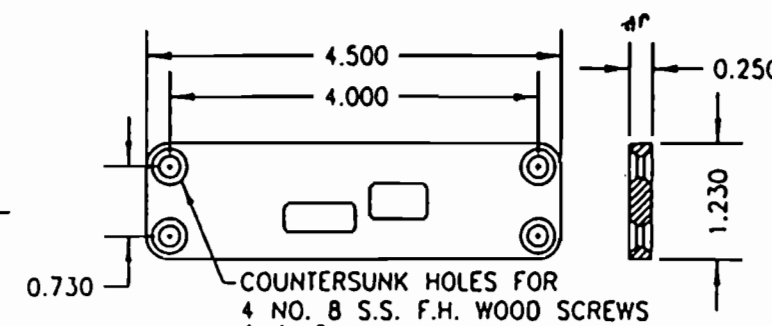
DRAWING NO. 1035 | REV.
SHEET NO. 3 OF 5



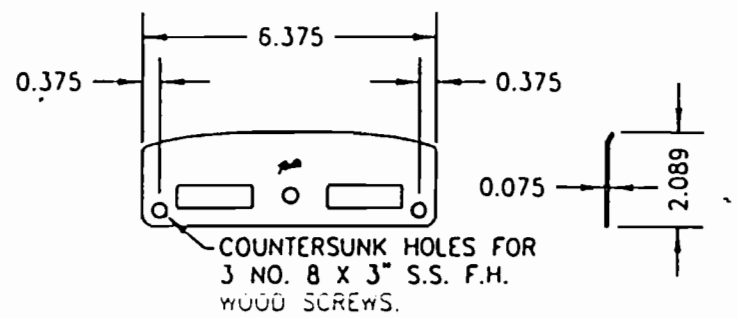
DOUBLE OUTSWING WITH SIDELIGHTS
MAXIMUM COMBINATION OF 4 PANELS
(PANELS MAY BE ANY COMBINATION OF ACTIVE OR INACTIVE)

EXTERIOR ELEVATIONS

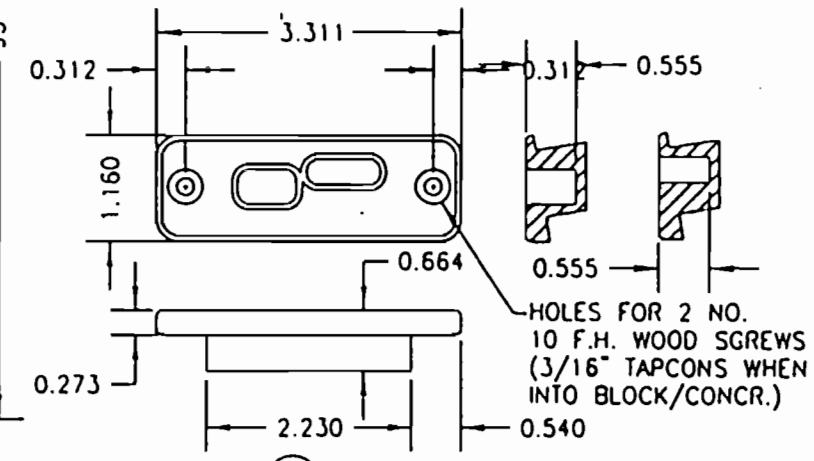
FOR FASTENER, HINGE AND DESIGN LOAD INFORMATION, SEE SHEET 1.



(26) HEAD STRIKE
6063-T6 ALUMINUM



(28) JAMB STRIKE
BRASS



(27) SILL STRIKE
6063-T6 ALUMINUM

STRIKE DETAILS

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 02-1003.03
Expiration Date 12/09/07
By _____
Miami-Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE NOV 15 2001
BY _____
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO 01-0124.05

DRAWN BY: W.W.S. | CHECKED BY: W.W.S.
PLOT: 1-16 | DATE: 01/05/01

NO	REVISION DESCRIPTION	BY	DATE

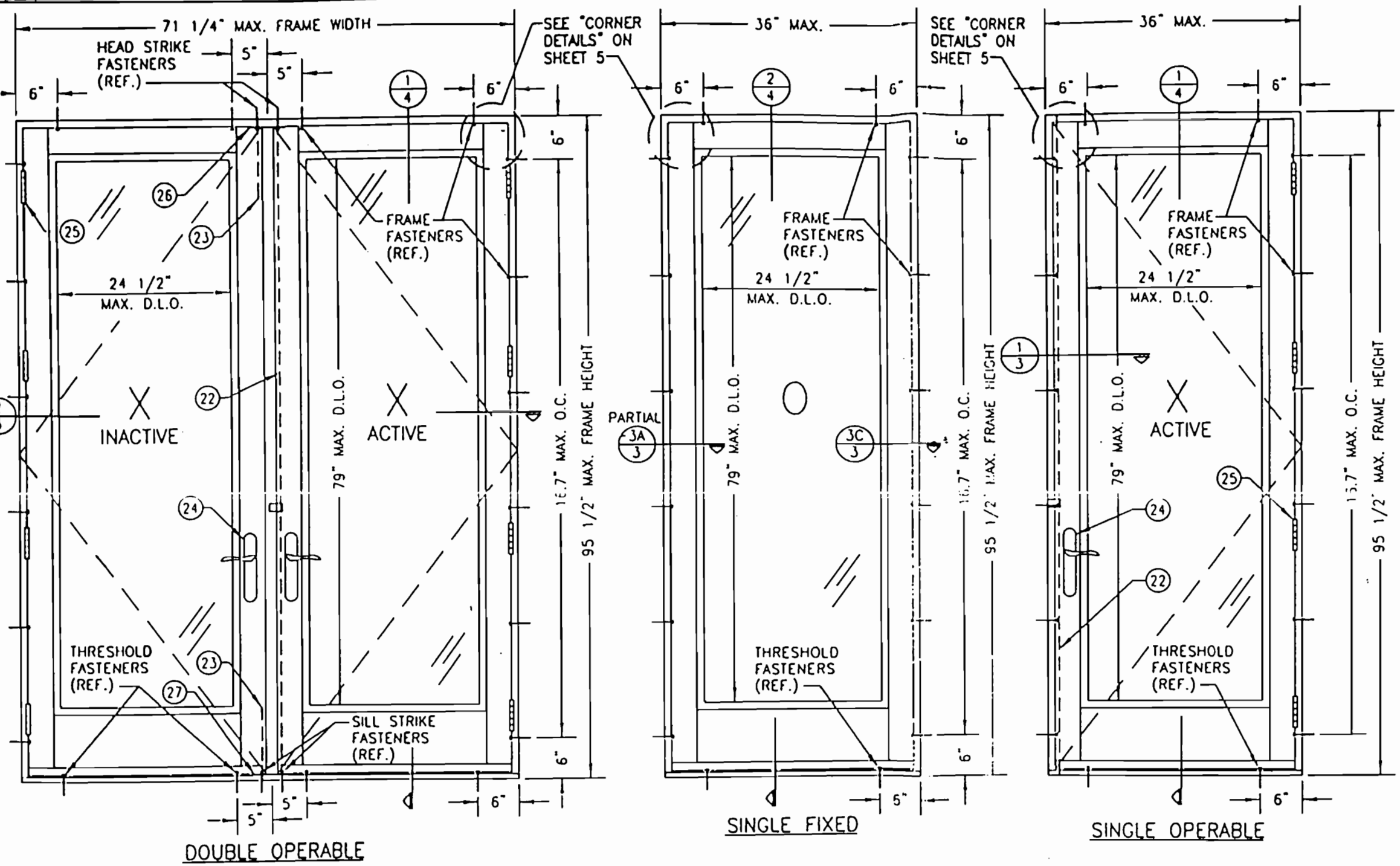
DRAWING TITLE: ALUMINUM CLAD OUTSWING FRENCH DOORS

MANUFACTURER
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANDPIPER DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
SEP 07 2001
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1035 | REV.
SHEET NO. 2 or 5



ALLOWABLE DESIGN LOAD	
POSITIVE	NEGATIVE
70 PSF	75 PSF
TYP. FOR ALL SINGLE & MULTIPLE DOOR UNITS.	

HINGE TABLE	
DOOR FRAME HEIGHT	MINIMUM NO. HINGES REQUIRED
82" OR LESS	3
83" TO 95.5"	4

NOTES:
1. APPLICABLE FOR 4" & 8" HINGES.
2. HINGE LOCATIONS = 8 1/4" FROM TOP & BOTTOM RAIL CORNERS TO CENTER OF HINGE & EQUALLY SPACED BETWEEN.

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AS SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. IMPACT RESISTANT SHUTTERS NOT REQUIRED.
5. ALL DIMENSIONS ARE GIVEN IN INCHES UNLESS OTHERWISE SHOWN.
6. LATEX OR SILICONE CAULKING SEALANT SHALL BE USED BETWEEN ALUMINUM CLADDING AND WOOD BUCK.

EXTERIOR ELEVATIONS

PRODUCT DESCRIPTION

FRAME CONSTRUCTION:
SELECT SOFT WOOD, FINGER JOINTED WITH CLEAR PINE VENEER. EXTERIOR SURFACE CLAD WITH ALUMINUM. SOLID ALUMINUM EXTRUDED SILL.

PANEL CONSTRUCTION:
SELECT SOFT WOOD, FINGER JOINTED WITH CLEAR PINE VENEER. EXTERIOR SURFACES CLAD WITH ALUMINUM.

TYP. FRAME TO OPENING ANCHORS:

1. FRAME TO 2X_ BUCK: NO. 10 WOOD SCREWS WITH MIN. 1 3/8" BUCK EMBED SPACED PER ELEVATIONS.
2. HEAD STRIKE TO 2X_ BUCK: 4 NO. 8 F.H. S.S. WOOD SCREWS THROUGH FRAME & MIN. 1 1/4" INTO BUCK.
3. SILL STRIKE TO 2X_ BUCK: 2 NO. 10 F.H. S.S. WOOD SCREWS THROUGH OUTER SILL & INTO BUCK MIN. 1 3/8".
4. THRESHOLD TO 2X_ BUCK: NO. 10 S.S. WOOD SCREWS WITH MIN. 1 3/8" BUCK EMBED SPACED PER ELEVATIONS.
5. HINGES TO 2X_ BUCK: 2 NO. 12 S.S. WOOD SCREWS WITH MIN. 1 3/8" BUCK EMBED.
6. FRAME, STRIKES, THRESHOLD & HINGES TO BLOCK/CONCR.: 3/16" TAPCONS REPLACE NO. 8 & 10 SCREWS; 1/4" TAPCON REPLACES NO. 12 SCREWS. (ALL WITH MIN 1 1/4" BLOCK/ CONCRETE EMBED)

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 02-1003.03
Expiration Date 12-09-07
By Miami-Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE NOV 15 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0124.05

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-16	DATE: 01/05/01

NO	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: ALUMINUM CLAD OUTSWING FRENCH DOORS

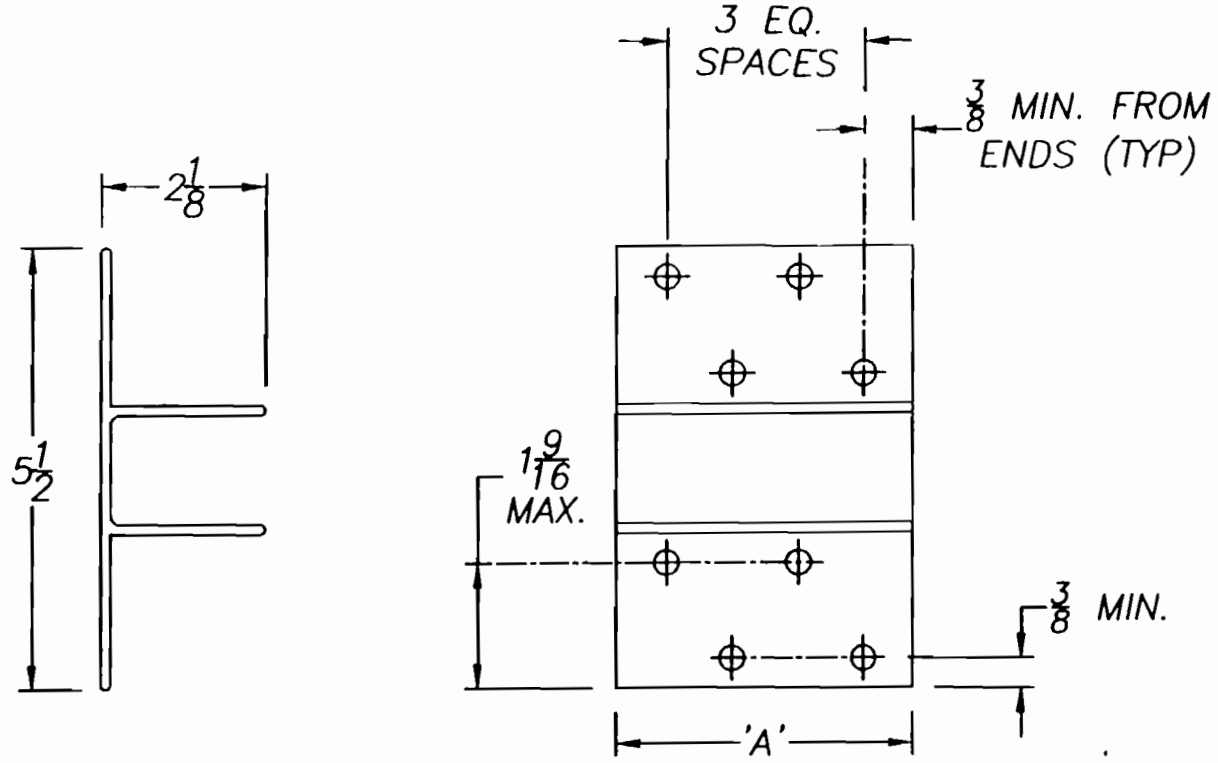
MANUFACTURER: PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANDTREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL. 33403
PHONE: 561-775-4902 FAX: 561-775-4903

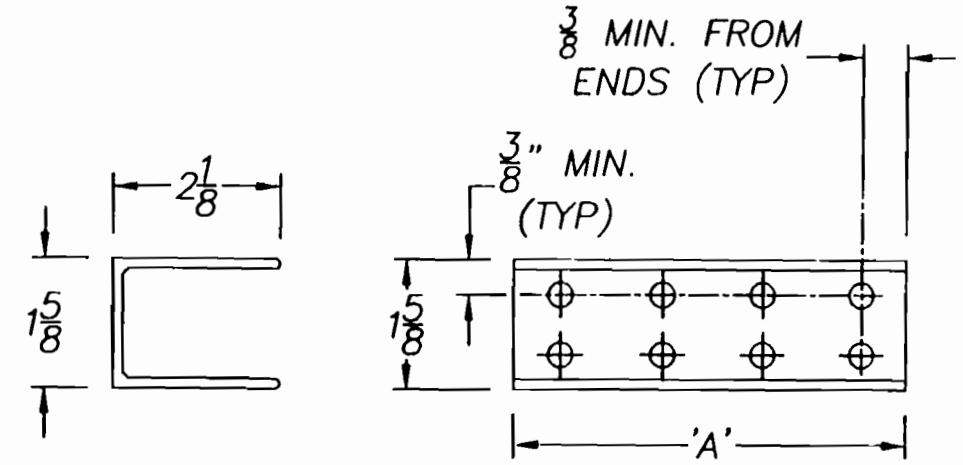
CERTIFICATION
SEP 07 2001
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.	REV.
1035	

SHEET NO. 1 OF 5



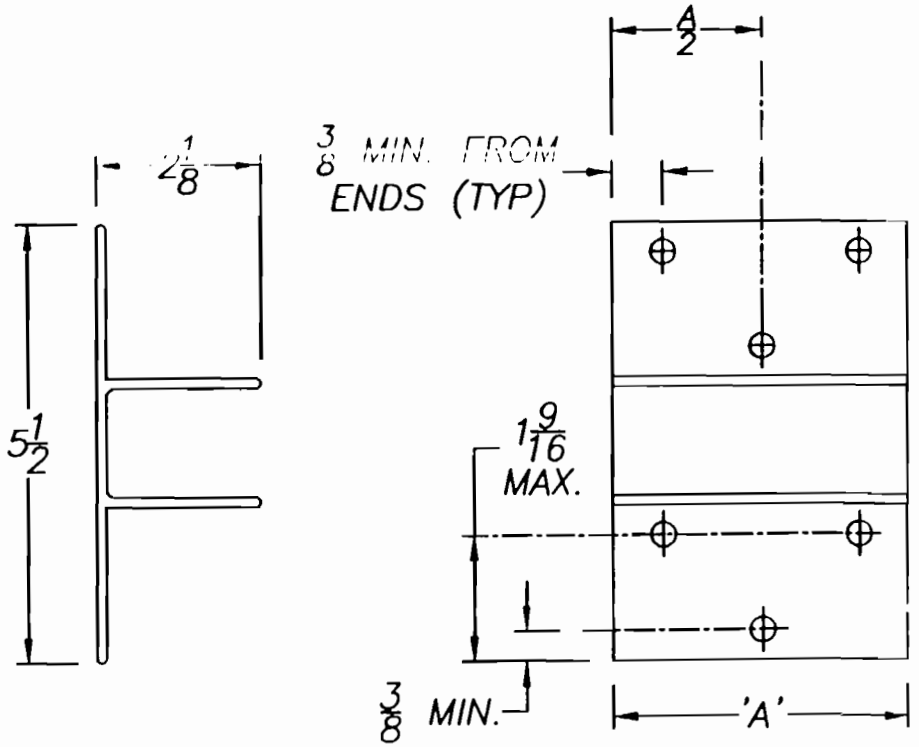
2" MULL CLIP
(8) ANCHOR LOCATIONS
EXTRUSION DWG # 513



2" MULL CLIP W/TABS
REMOVED (8) ANCHOR LOCATIONS
EXTRUSION DWG # 513

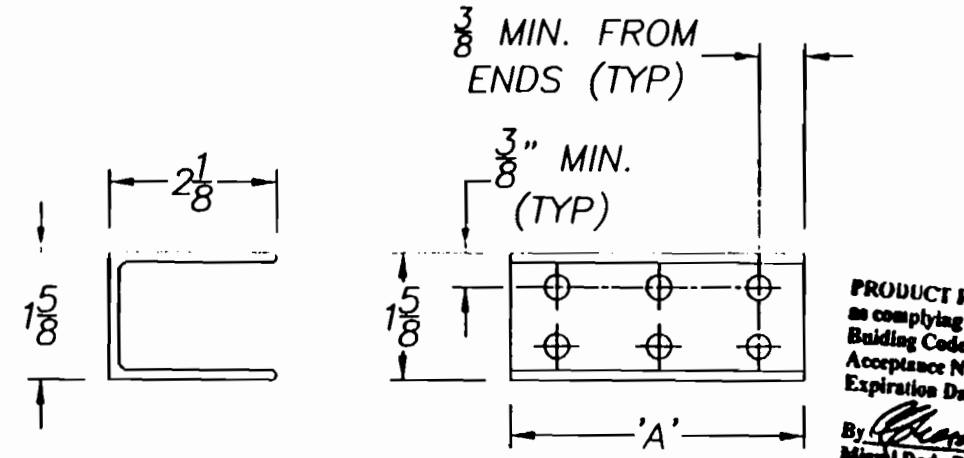
IMPORTANT:
QUANTITY OF ANCHORS SHOWN ARE FOR A PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS PLEASE REFER TO CHARTS AND FIND THE CORRECT MULL SIZE AND PRESSURE REQ'D FOR YOUR SPECIFIC APPLICATION.

CLIP LENGTH CHART FOR 2x MULL	
MULL SIZE	'A'
2 x 4 x 1/4	3 7/16
2 x 6 x 1/4	5 7/16



2" MULL CLIP
(6) ANCHOR LOCATIONS
EXTRUSION DWG # 513

5/24/01
RL Clark
3912



2" MULL CLIP W/TABS
REMOVED (6) ANCHOR LOCATIONS
EXTRUSION DWG # 513

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 02-0701.10
Expiration Date 06/28/06
By Gloria Lemon
Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 28 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0823.03

PGT INDUSTRIES

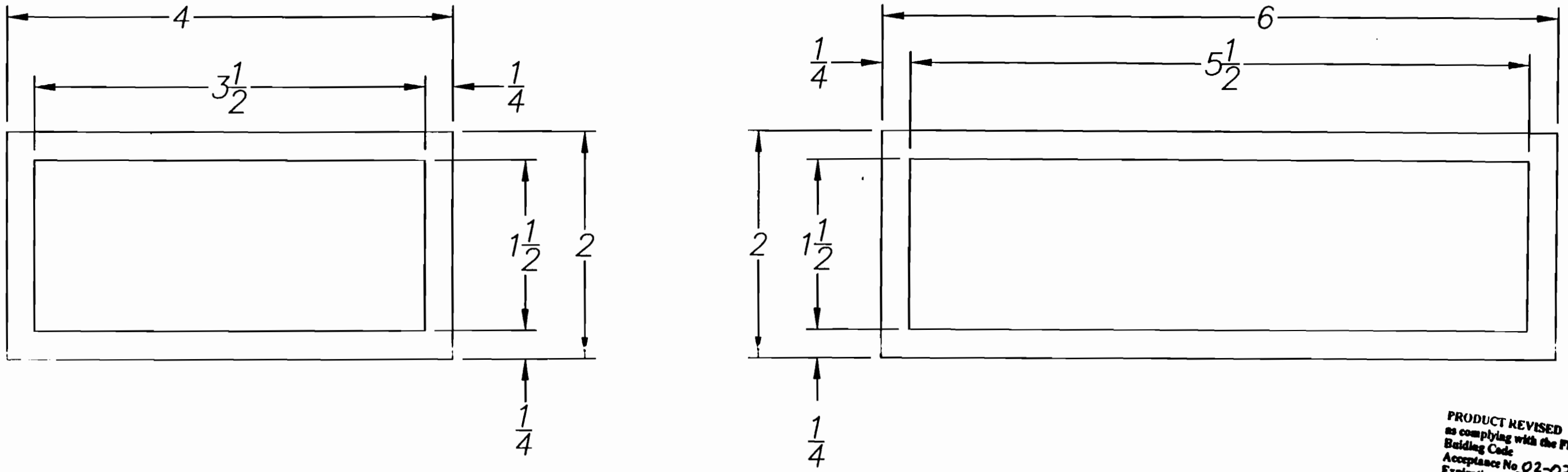
Revsd By:	Date:	Chkd By:	Date:	Revisions:	
Drawn By: P.J.P.		Date: 4/28/01			

Description: ANCHOR LOCATIONS

Title: 2" HEAVY WALL MULLION

1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 — P.O. BOX 1529 NOKOMIS, FL 34274

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	1x	3 of 5	6623	



2x HEAVY WALL MULLS

MAT'L: 6063–T6

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 02-0701.10
Expiration Date 06/28/06
By: [signature]
Miami Dade Product Control
Division

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 28 2001
BY [signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0323.02

[signature]
5/24/01
Robert L. Clark, P.E.
P.E. #39712
Structural

PGT INDUSTRIES

Revsd By:	Date:	Chkd By:	Date:	Revisions:	
Drawn By: P.J.P.		Date: 5/22/00			

Description: 2" HEAVY WALL MULLION PROFILES

1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275	P.O. BOX 1529 NOKOMIS, FL 34274	Series/Model: MULLS	Scale: 1x	Sheet: 4 of 5	Drawing No. 6623	Rev:

2x4x1/4 6 Anchors		OPENING WIDTH IN INCHES									
		50	60	70	80	90	100	110	120	130	160
MULL LENGTH IN INCHES	42	170	170	170	170	170	170	170	170	170	170
	48	170	170	170	170	170	170	170	170	170	170
	50.625	170	170	170	170	170	170	170	170	170	170
	54	170	170	170	170	170	170	170	170	170	170
	60	170	170	170	170	170	170	170	170	170	170
	63	170	170	170	170	170	166	162	160	159	159
	66	170	170	170	170	170	154	149	146	145	145
	72	170	170	166	152	142	135	129	125	123	122
	76	170	170	154	141	131	124	119	115	112	109
	78	170	167	149	136	127	119	114	110	107	104
	84	177	153	136	124	114	107	102	98	94	90
	90	163	141	125	113	104	97	92	88	85	79
	96	151	129	112	100	91	83	78	73	69	63
	108	107	90	78	69	62	57	53	49	47	41
	111	98	83	72	63	57	52	48	45	43	37
	144	45	37	32	28	26	23	21	20	18	16

2x6x1/4 6/8 Anchors		OPENING WIDTH IN INCHES																	
		50		60		70		80		90		100		110		120		130		160	
MULL LENGTH IN INCHES	42	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	48	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	50.625	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	54	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	60	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
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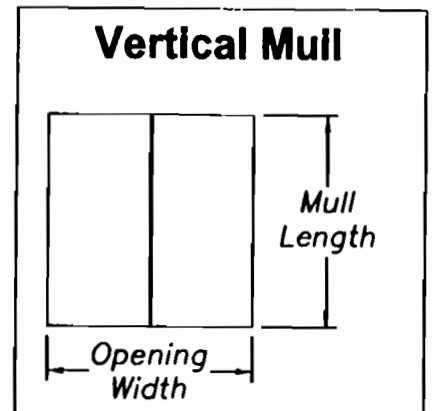
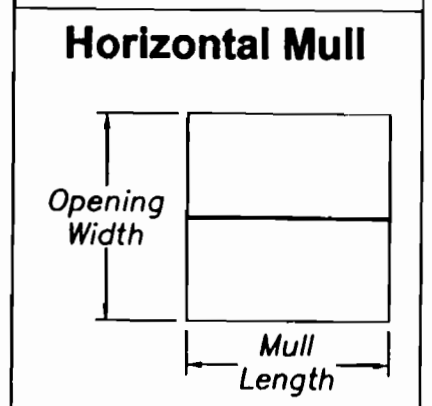
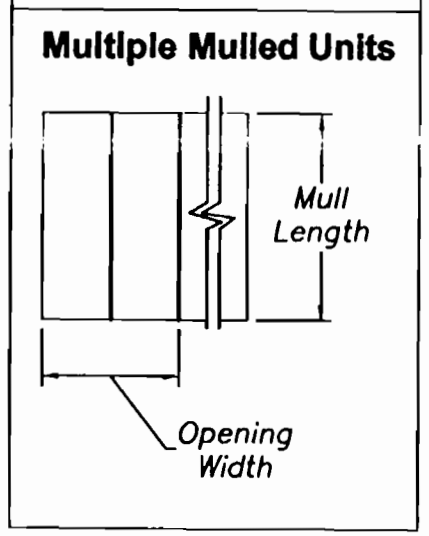
	72	170	170	170	170	170	170	165	170	154	170	146	170	140	170	136	170	134	170	133	170
	76	170	170	170	170	168	170	154	170	143	170	135	170	129	170	125	166	122	162	119	159
	78	170	170	170	170	162	170	148	170	138	170	130	170	124	165	119	159	116	155	113	151
	84	170	170	166	170	148	170	134	170	124	166	117	155	111	148	106	142	103	137	98	130
	90	170	170	153	170	136	170	123	164	113	151	106	141	100	133	96	127	92	123	86	116
	96	165	170	142	170	125	167	113	151	104	139	97	129	91	123	87	115	83	109	77	98
	108	144	170	123	163	109	141	98	125	89	112	83	102	78	95	73	88	70	83	63	73
	111	140	170	119	154	105	133	94	118	86	106	80	97	75	89	71	83	67	78	61	68
	144	105	108	89	90	78	78	69	69	61	61	56	56	51	51	47	47	44	44	37	37







PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 02-0701.10
Expiration Date 06/28/06
By
Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 28 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0323.03

NOTES:

1. MAXIMUM ALLOWABLE PRESSURE IN PSF.
2. DESIGN IS BASED ON OPENING WIDTH. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME. SEE SHEET 1.
3. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

5/4/01
RL CLARK
39712
STRUCTURAL

PGT INDUSTRIES

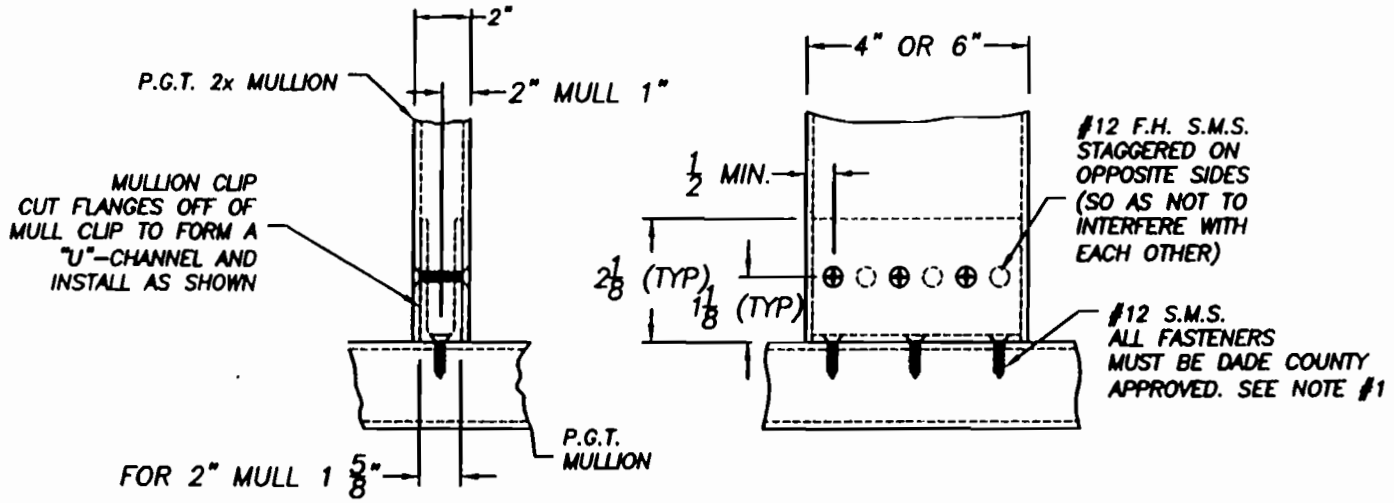
Revsd By:	Date:	Chkd By:	Date:	Revisions:	
Drawn By: P.J.P.		Date: 4/28/00			

Description: PRESSURE CHARTS

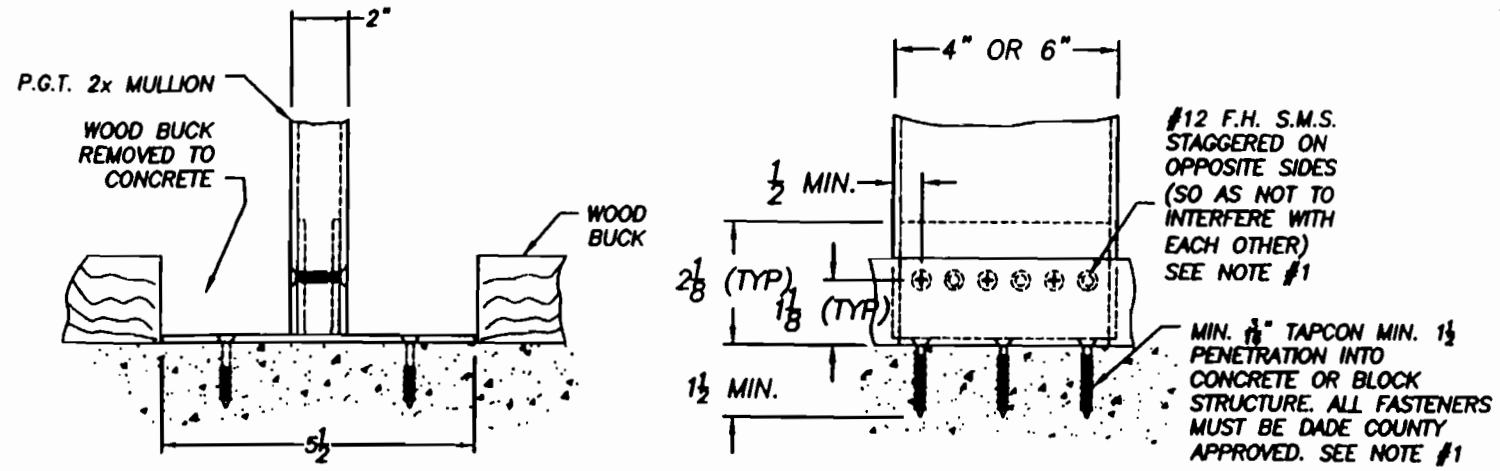
Title: 2" HEAVY WALL MULLION PRESSURE CHARTS

1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 — P.O. BOX 1529 NOKOMIS, FL 34274

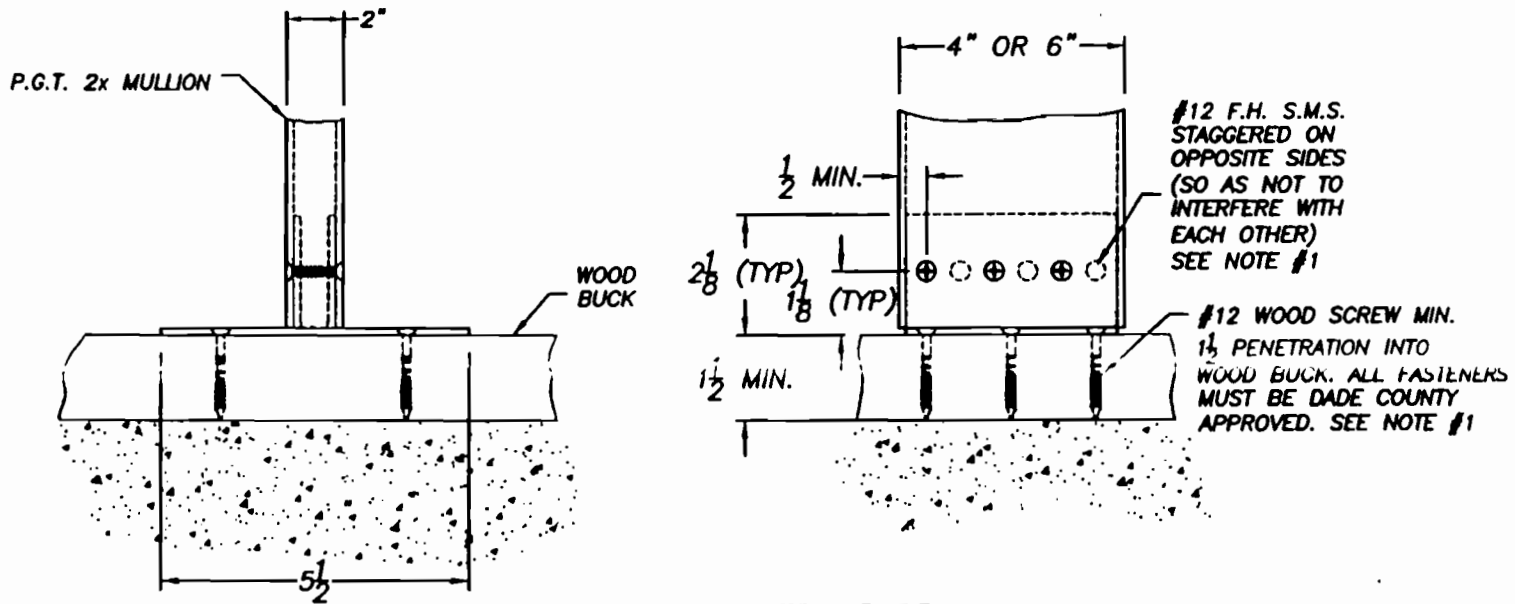
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	5 of 5	6623	



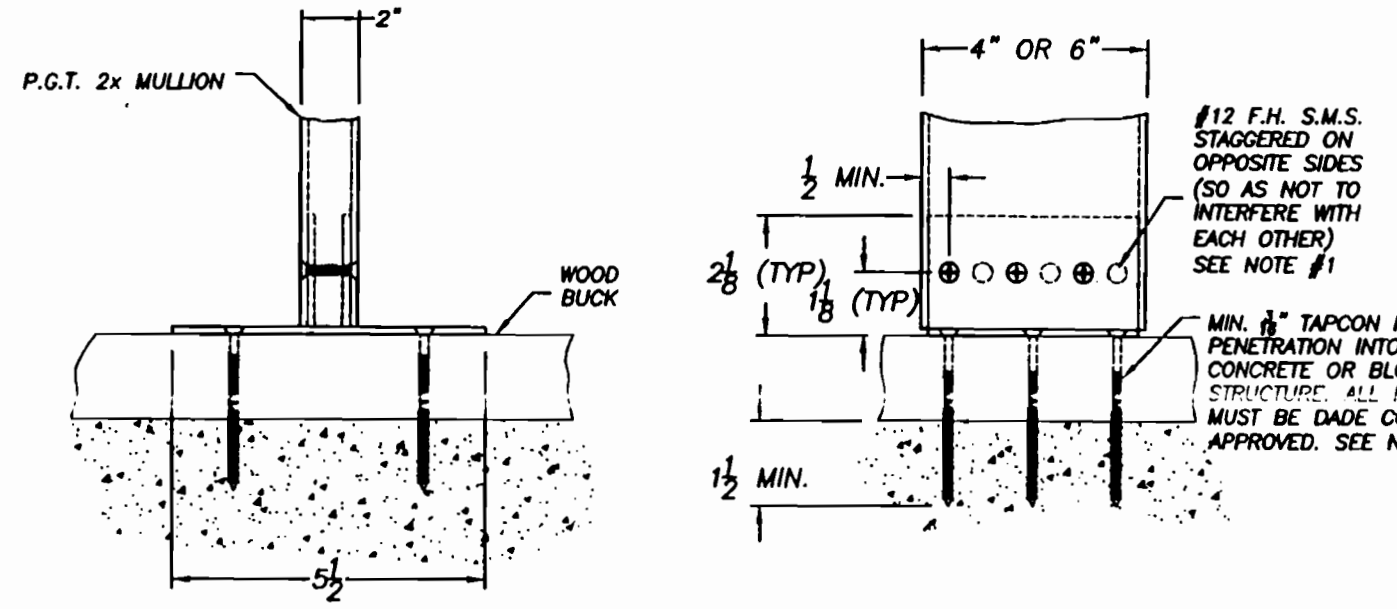
TYPICAL MULLION TO MULLION INSTALLATION TYPE "A".



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK REMOVED FROM CONC. TYPE "C".



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK TYPE "B".



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK AND CONC. TYPE "D".

NOTE:
1. FOR MULL SIZE AND QUANTITY OF ANCHORS REQUIRED SEE SHEET 5. FOR ANCHOR LOCATIONS SEE SHEET 3. QUANTITY OF ANCHORS FOR MULL-TO-CLIP IS THE SAME AS THE QUANTITY OF ANCHORS FROM CLIP-TO-OPENING.
2. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

IMPORTANT:
QUANTITY OF ANCHORS SHOWN ARE FOR A PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS PLEASE REFER TO CHARTS AND FIND THE CORRECT MULL SIZE AND PRESSURE REQ'D FOR YOUR SPECIFIC APPLICATION.

5/24/01
Robert L. Clark, P.E.
P.E. #39712
Structural

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 02-0201.10
Expiration Date 06/28/06
By Miami Dade Product Control Division

APR 1 4 2000

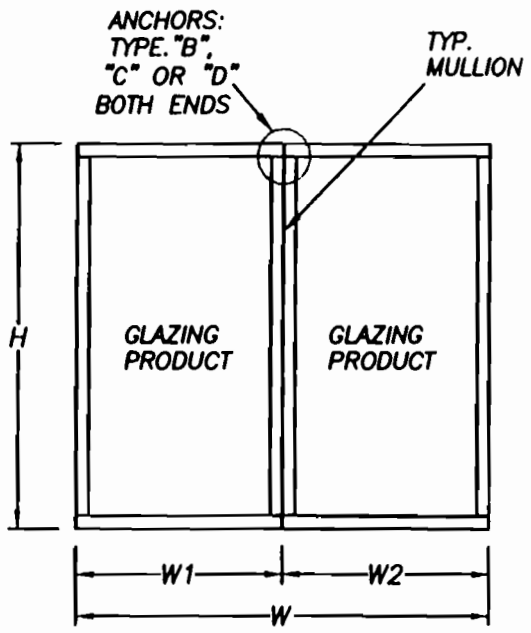
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 28 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0323.03

PGT INDUSTRIES

Revsd By:	Date:	Chkd By:	Date:	Revisions:	
Drawn By: P.J.P.		Date: 4/28/00			

Description: 2" HEAVY WALL MULLION & CLIP INSTALLATION DETAIL

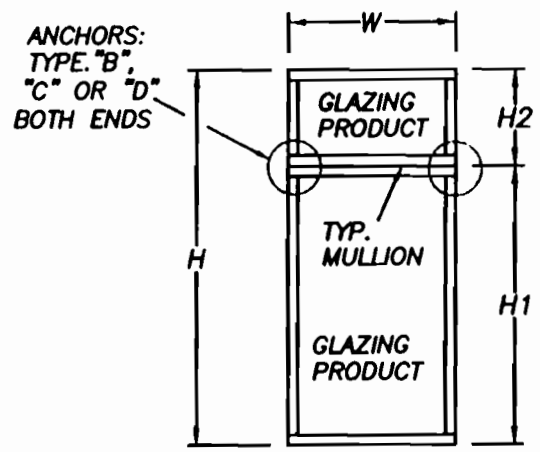
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275	P.O. BOX 1529 NOKOMIS, FL 34274	Series/Model: MULLS	Scale: 1x	Sheet: 2 of 5	Drawing No. 6623	Rev:



W = W1+W2

(2) WINDOWS MULLED TOGETHER

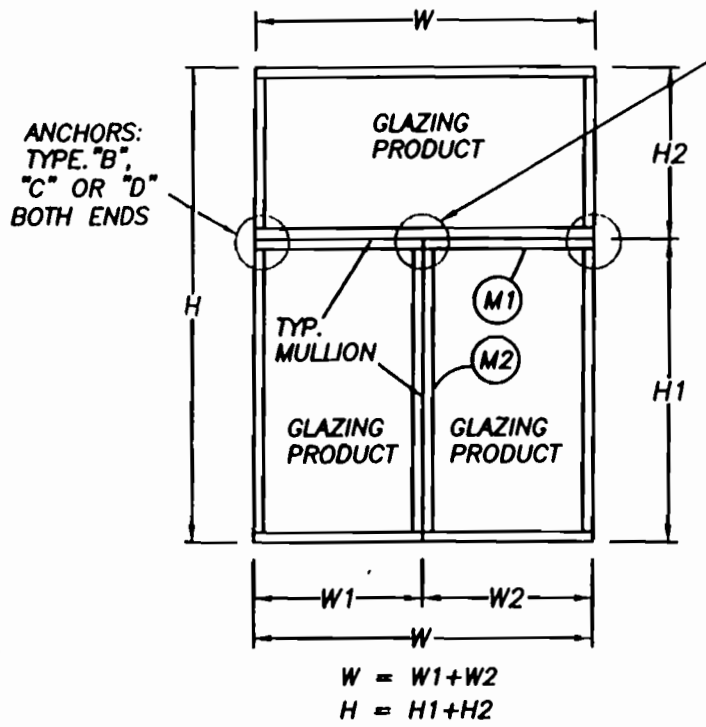
FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5 OF 5
MAX OPENING = W OR W1+W2
MULL LENGTH = H



H = H1+H2

(1) WINDOW MULLED W/ONE ABOVE

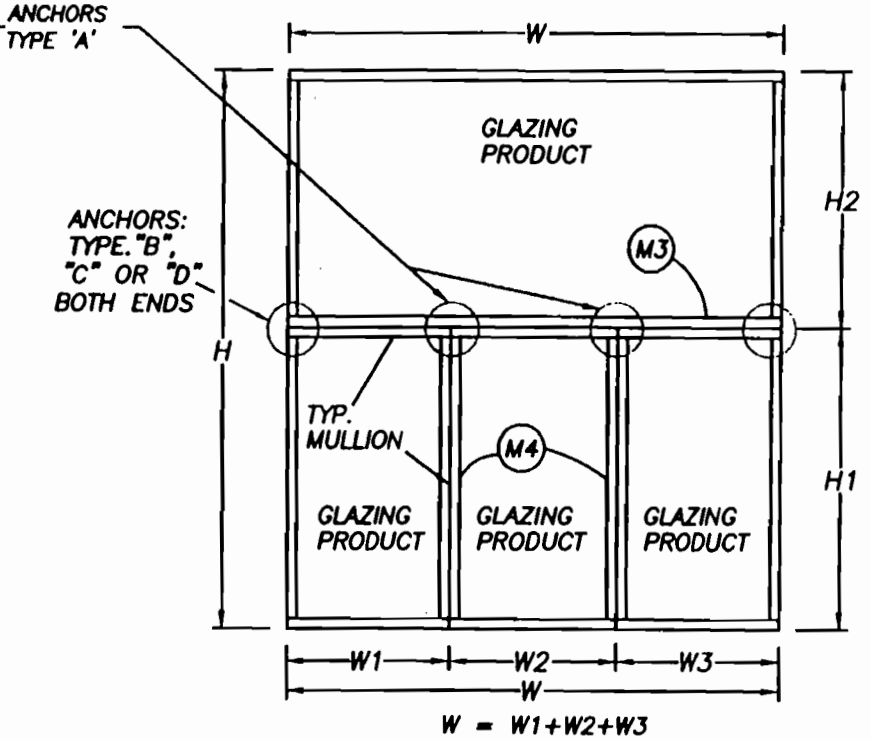
FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5 OF 5
MAX OPENING = H OR H1+H2
MULL LENGTH = W



W = W1+W2
H = H1+H2

(2) WINDOWS MULLED W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5 OF 5
M1) MAX OPENING = H OR H1+H2
MULL LENGTH = W OR W1+W2
M2) MAX OPENING = W OR W1+W2
MULL LENGTH = H1



W = W1+W2+W3
H = H1+H2

MULTIPLE WINDOWS MULLED W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5 OF 5
M3) MAX OPENING = H OR H1+H2
MULL LENGTH = W OR W1+W2+W3
M4) MAX OPENING = W1+W2 OR W2+W3
MULL LENGTH = H1

NOTES:

1. FOR ANCHORAGE TYPE, QUANTITY AND LOCATION REFER TO SHEETS 2, 3 AND 5
2. WINDOWS MAY BE MULLED TOGETHER, TO A MAX. OF 5 UNITS
3. MULLIONS ARE APPROVED FOR IMPACT & NON-IMPACT
4. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 02-0301.10
Expiration Date 06/28/06
By: Miami Dade Product Control
Division

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 2 8 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0328.08

5/24/01
Robert L. Clark, P.E.
P.E. #39712
Structural

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Revsd By:	Date:	Chkd By:	Date:	Revisions:	
Drawn By: P.J.P.		Date: 4/28/00			

Description: 2" HEAVY WALL MULLION ARRANGEMENT DETAIL

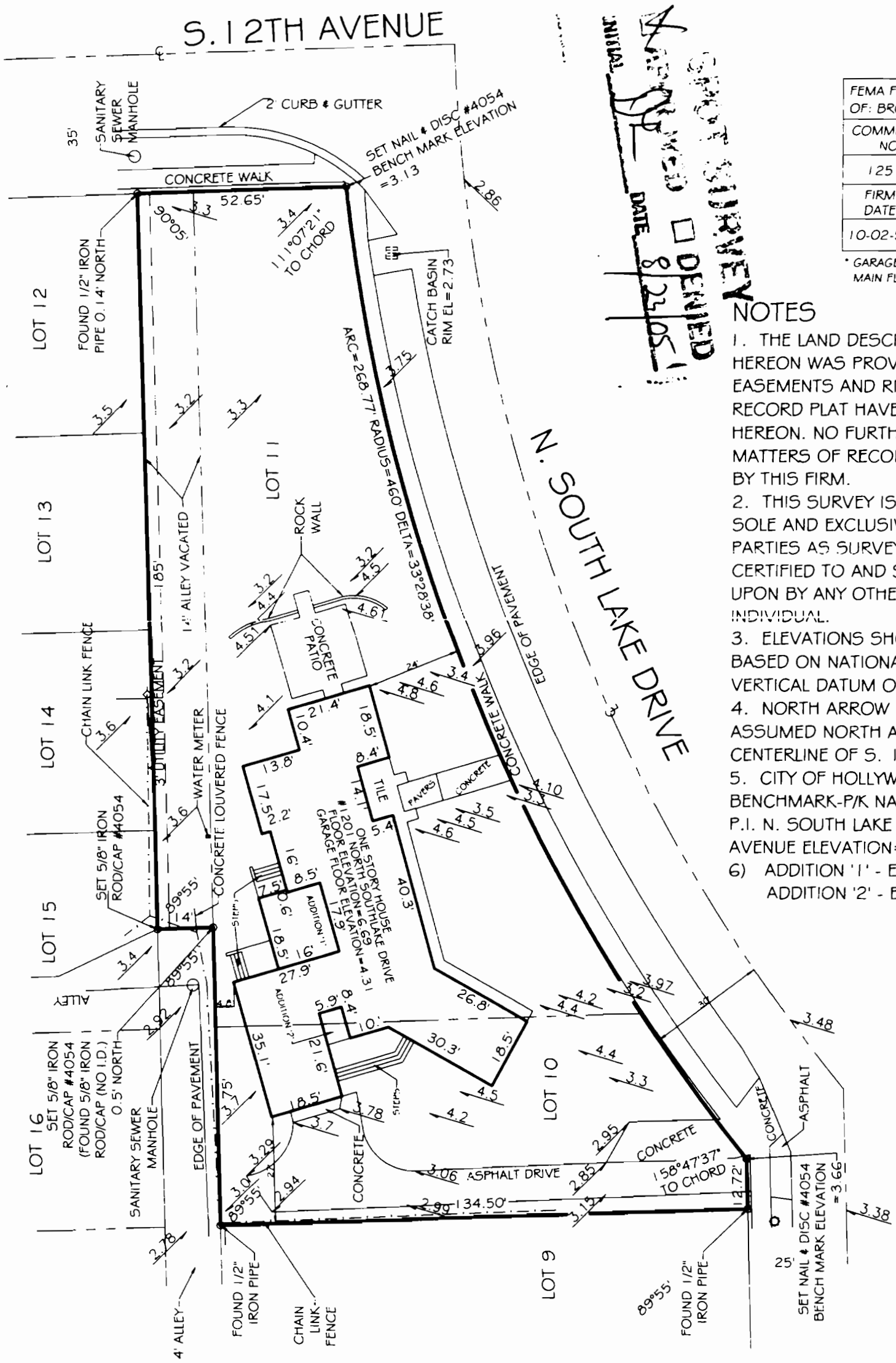
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	1x	1 of 5	6623	

DESCRIPTION:

LOTS 10 AND 11, BLOCK 27, HOLLYWOOD LAKES SECTION, BEING A SUBDIVISION OF ALL OF SECTION 14 AND ALL THAT PART OF SECTION 13 LYING WEST OF THE FLORIDA COAST LINE CANAL AND TRANSPORTATION COMPANY'S CANAL, IN TOWNSHIP 51 SOUTH, RANGE 42 EAST, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 1, PAGE(S) 32, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.COUNTY, FLORIDA.

AND

THE EAST 185 FEET OF THE ALLEY IN BLOCK 27 OF HOLLYWOOD LAKES SECTION, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 1, PAGE 32, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; AND BEING THAT PORTION OF SUCH ALLEY ABUTTING LOT 11 OF SAID BLOCK 27, EXTENDING FROM THE WESTERLY LINE OF SOUTH 12TH AVENUE TO A LINE PARALLEL TO SOUTH 12TH AVENUE AND 185 FEET WESTERLY FROM SAID WESTERLY LINE OF SOUTH 12TH AVENUE.



FEMA FLOOD INSURANCE RATE MAP OF: BROWARD COUNTY, FLORIDA			
COMMUNITY NO.	PANEL NO.	SUFFIX	ZONE
125113	0317	G	AE
FIRM DATE	BASE ELEV.	LOWEST FLR. ELEV	ADJ. GRD.
10-02-97	7.0	6.69	N/A

* GARAGE FLOOR ELEVATION=4.31
MAIN FLOOR ELEVATION=6.69

NOTES

1. THE LAND DESCRIPTION SHOWN HEREON WAS PROVIDED BY THE CLIENT. EASEMENTS AND RIGHTS-OF-WAY PER RECORD PLAT HAVE BEEN SHOWN HEREON. NO FURTHER SEARCH FOR MATTERS OF RECORD HAS BEEN MADE BY THIS FIRM.
2. THIS SURVEY IS PREPARED FOR THE SOLE AND EXCLUSIVE USE OF THE PARTIES AS SURVEYED FOR AND AS CERTIFIED TO AND SHALL NOT BE RELIED UPON BY ANY OTHER ENTITY OR INDIVIDUAL.
3. ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.
4. NORTH ARROW RELATIVE TO ASSUMED NORTH ALONG THE CENTERLINE OF S. 12TH AVENUE.
5. CITY OF HOLLYWOOD BENCHMARK-P/K NAIL & DISC 5'+/-N OF P.I. N. SOUTH LAKE DRIVE & S. 12TH AVENUE ELEVATION=3.10
6) ADDITION '1' - ELEVATION=6.6
ADDITION '2' - ELEVATION=6.6

STEPHEN H. GIBBS, FOR THE FIRM
PROFESSIONAL SURVEYOR & MAPPER
FLORIDA REGISTRATION NO. 4054

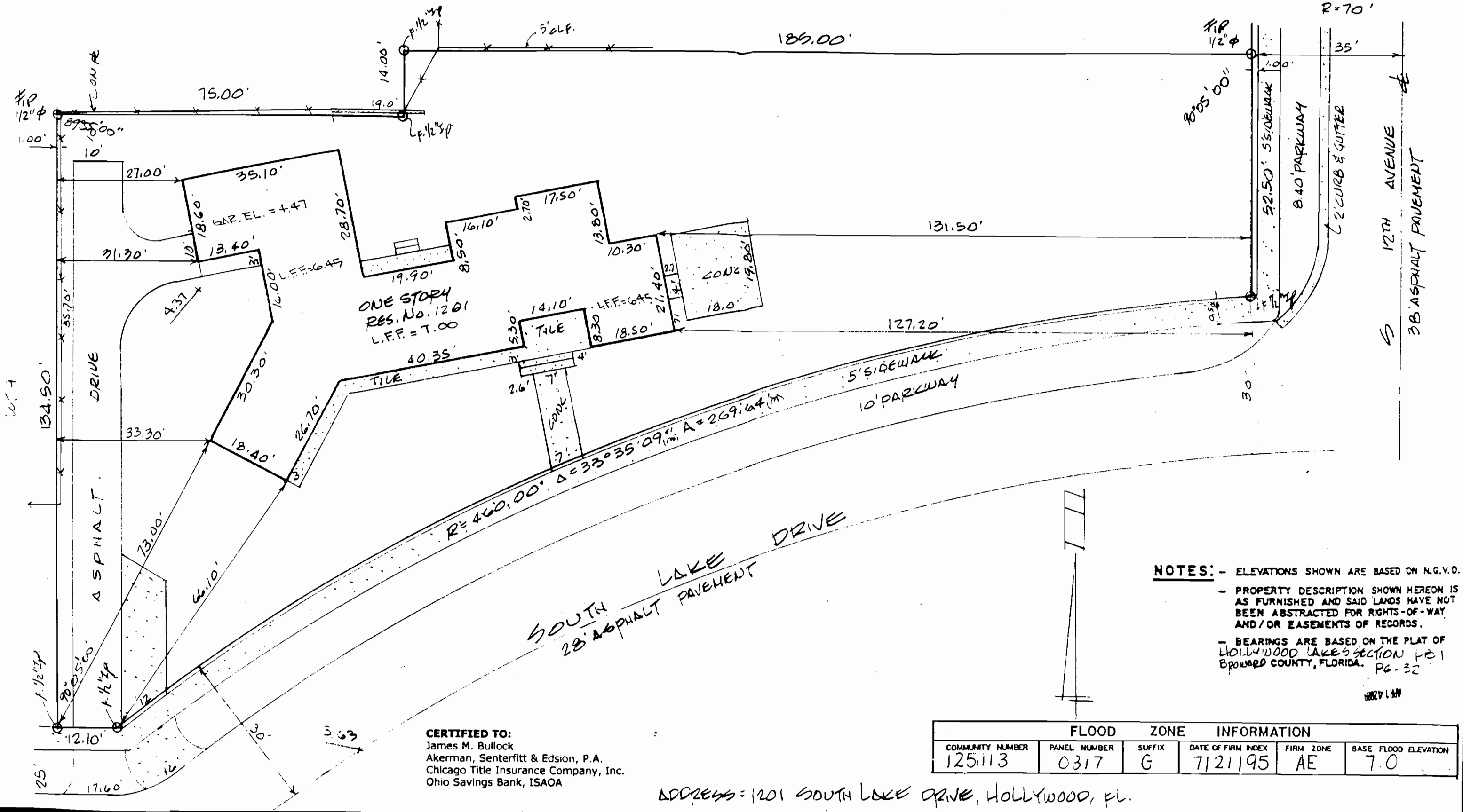
REVISION	DATE	BY
SPOT ON ADDITIONS	08-22-05	SHG

GIBBS LAND SURVEYORS
2131 HOLLYWOOD BOULEVARD, SUITE 204
HOLLYWOOD, FL 33020 (954) 923-7666
LICENSED BUSINESS NO. 7018

SKETCH OF BOUNDARY/TOPOGRAPHIC SURVEY

JOB #: RN5582	DATE: 07-13-04
SCALE: 1"=30'	FILE No.: 3-D-706
DRAWN BY: SB	CHECKED BY: SHG

NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER



CERTIFIED TO:
James M. Bullock
Akerman, Senterfitt & Edsion, P.A.
Chicago Title Insurance Company, Inc.
Ohio Savings Bank, ISAOA

NOTES:
- ELEVATIONS SHOWN ARE BASED ON N.G.V.D.
- PROPERTY DESCRIPTION SHOWN HEREON IS AS FURNISHED AND SAID LANDS HAVE NOT BEEN ABSTRACTED FOR RIGHTS-OF-WAY AND/OR EASEMENTS OF RECORDS.
- BEARINGS ARE BASED ON THE PLAT OF HOLLYWOOD LAKES SECTION FB 1 Broward COUNTY, FLORIDA. PG-32

FLOOD ZONE INFORMATION					
COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM INDEX	FIRM ZONE	BASE FLOOD ELEVATION
125113	0317	G	7/21/95	AE	7.0

ADDRESS: 1201 SOUTH LAKE DRIVE, HOLLYWOOD, FL.

LEGAL DESCRIPTION:
Lots 10 and 11, Block 27 of HOLLYWOOD LAKES SECTION, Plat Book 1, Page 32, Broward County, Florida (Folio No.514214014640) and the East 185 feet of the alley in Block 27 of Hollywood Lakes Section, measured from the westerly line of South 12th Avenue, Block 27 (Folio No.514214014650)

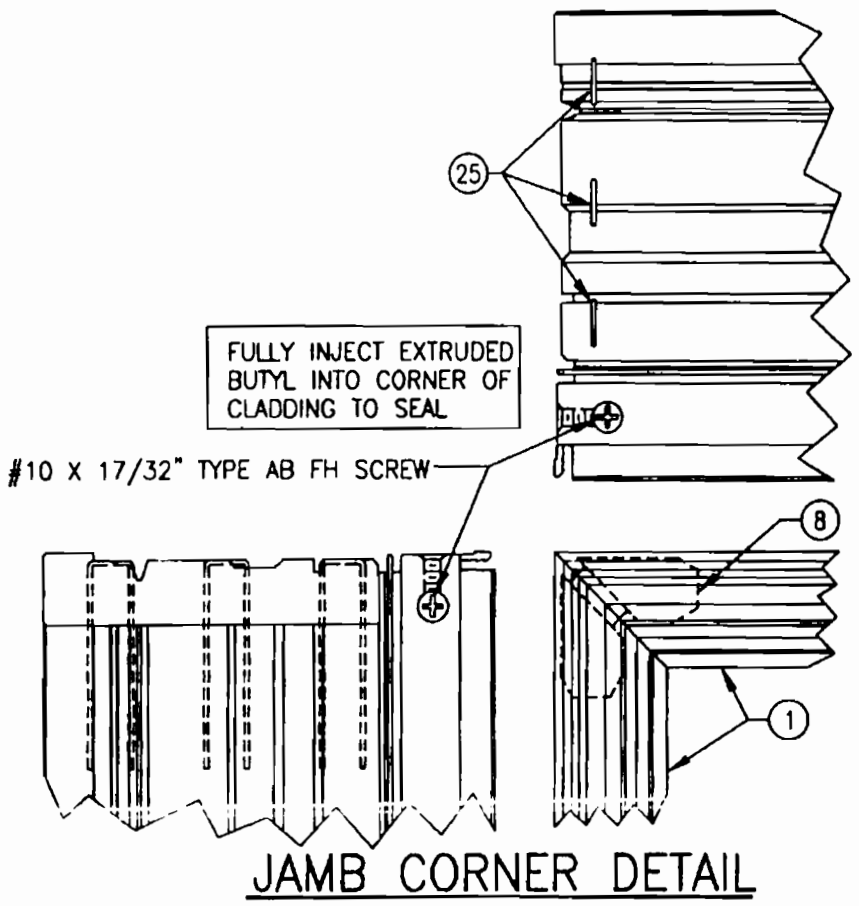
CERTIFICATION:

I HEREBY CERTIFY THAT THIS SKETCH OF SURVEY REPRESENTS A TRUE AND CORRECT SURVEY RECENTLY MADE UNDER MY DIRECTION AND THAT IT IS IN COMPLIANCE WITH THE MINIMUN TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS PERSUANT TO SECTION 472.027 FLORIDA STATUES.

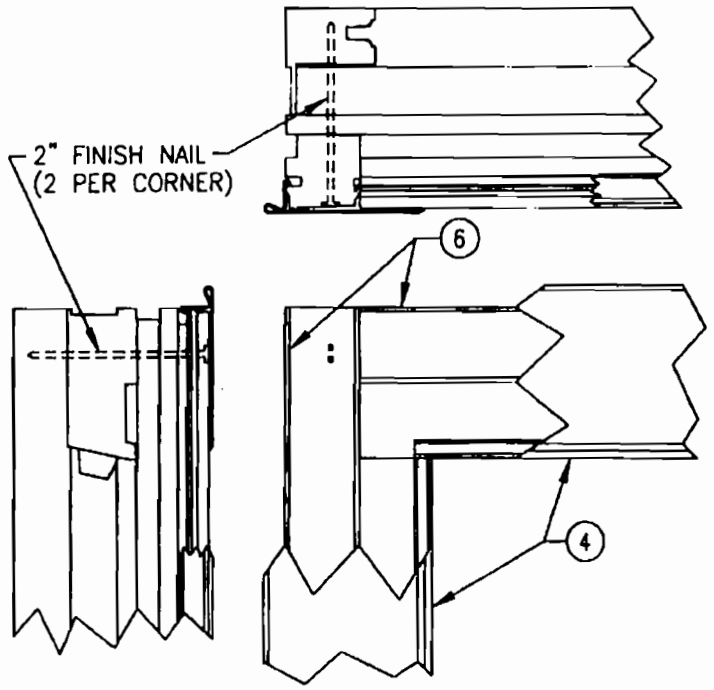
BY: _____ FOR THE FIRM
MIGUEL ESPINOSA
P.L.S. No. 5104
STATE OF FLORIDA
NOT VALID WITHOUT EMBOSSED SEAL.

BOUNDARY SURVEY
PREPARED FOR: JAMES M. BULLOCK
DATE: 4-27-2001
JOB No. 01-326
SCALE: 1" = 20'

MIGUEL ESPINOSA LAND SURVEYING, INC.
6494 S.W. 24 STREET
MIAMI, FLORIDA 33155
PHONE: (305) 740-3319
BEEPER: (305) 859-1503



JAMB CORNER DETAIL



SASH CORNER DETAIL

SASH IS MORTISED & TENONED AND GLUED WITH A THERMOSETTING EMULSION ADHESIVE; DUROLOK BY NATIONAL STARCH & CHEMICAL COMPANY.

BILL OF MATERIALS

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	JAMB	4" X 1 1/4" SELECT SOFT WOOD
2	SIDE & HEAD SASH STOP	1.92" X 0.698" SELECT SOFT WOOD
3	SILL SASH STOP	1.89" X 1.10" SELECT SOFT WOOD
4	SASH	2.16" X 1.625" SELECT SOFT WOOD
5	JAMB CLADDING/COVER	0.04" THK. 6063-T6 ALUMINUM
6	SASH CLADDING/COVER	0.0235" THK. 3003-H14 ALUMINUM
7	MULLION CLIP	0.047" THK. 6063-T6 ALUMINUM (CONT.)
8	JAMB CORNER KEY	NYLON
9	SASH REINFORCEMENT BAR	6063-T6 ALUMINUM
10	3/8" WOOD MULLION REINFORCEMENT	P.T. SOUTHERN PINE (G = 0.55)
11	ALUMINUM 3/8" MULLION REINFORCEMENT	6063-T5 OR T6 ALUMINUM W/1/8" WALL
	HARDWARE	
12	CRANK/ROTO OPERATOR	PELLA
13	4" S.S. HINGE	PELLA
14	8" S.S. HINGE	PELLA
15	2 POINT MULTI-POINT LOCK/HANDLE	PELLA; ZINC, DIE CAST W/S.S. STRIKES
16	S.S. LOCK KEEPERS	PELLA; 2 PER WINDOW
	SEALS & SEALANTS	
17	WEATHERSTRIP	PVC
18	RAINSTRIP	PVC
	MISCELLANEOUS FASTENERS	
19	1 3/8" RING SHANK NAIL	4" FROM CORNERS & 6" - 8" O.C.
20	NO. 8 X 1 1/4" S.S. PFH	4.25" FROM ENDS & 6" MAX. O.C.
21	#6 X 3/4" S.S. PFH	10 PER 4" HINGE/20 PER 8" HINGE
22	#8 X 1 1/2" S.S. PFH	2 PER LOCK KEEPER
23	#10 X 1/2" S.S. PFH	2 PER JAMB CORNER KEY
24	1" X 1/2" CORRUGATED FASTENER	4" FROM ENDS & 10" TO 12" O.C.
25	1/2" X 2 1/4" 16 GA. STAPLES	3 PER FRAME CORNER
	OTHER	
26	OPERATOR SLIDE	STAINLESS STEEL

Approved as complying with the Florida Building Code
Date AUG. 14 2003
NOA# 02-1021.04
Miami Dade Product Control Division
By Maribel Gray

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 12/01/00

NO.	REVISION DESCRIPTION	BY	DATE

ALUMINUM CLAD VENTED CASEMENT WINDOWS

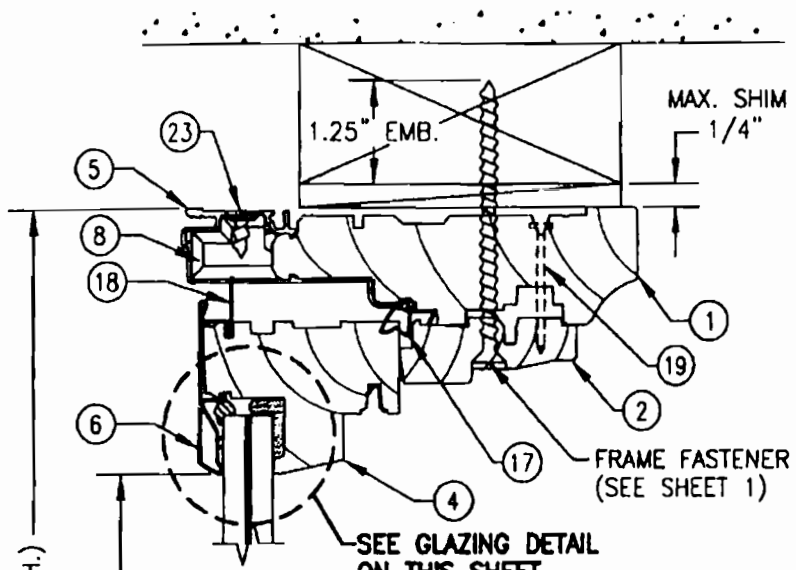
DRAWING TITLE

MANUFACTURER
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

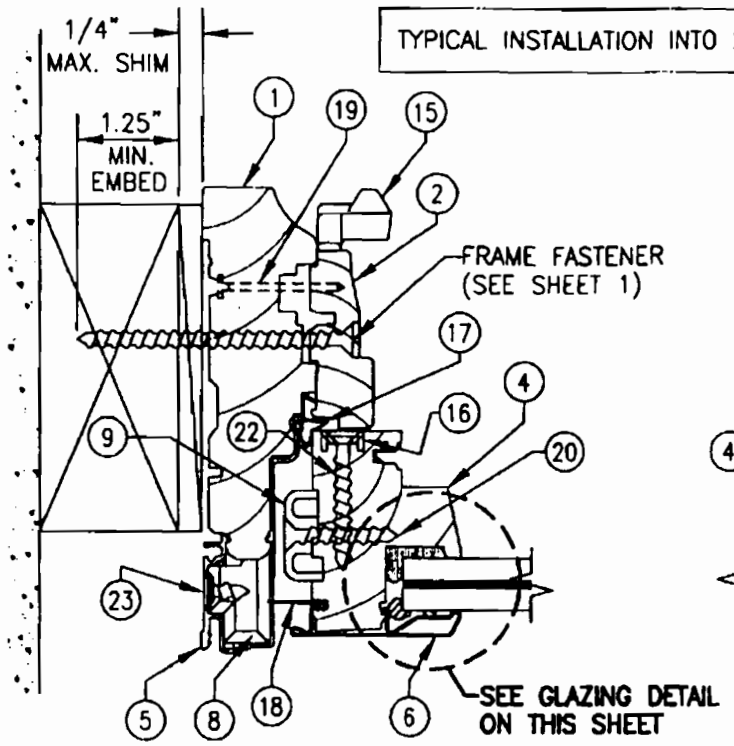
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANDTREE DRIVE; SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
JUL 24 2003
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

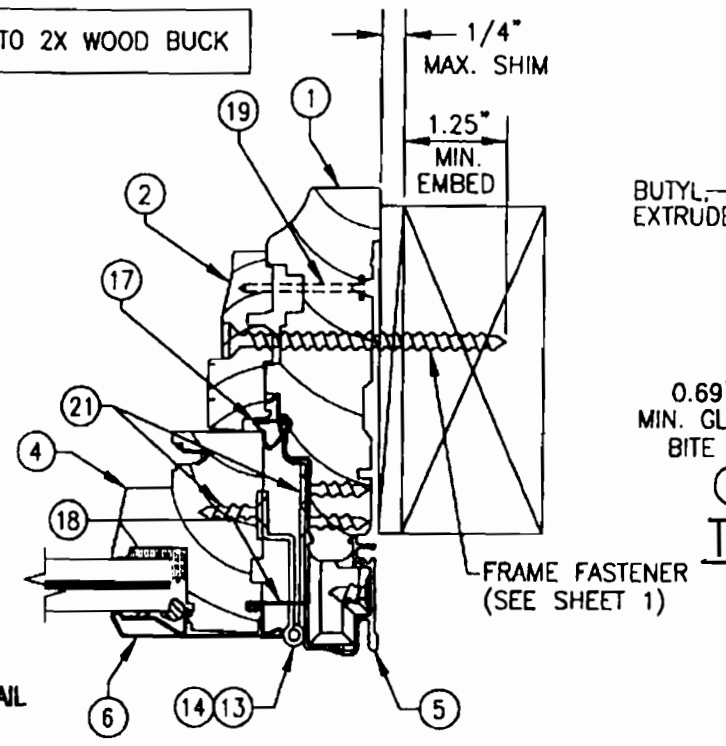
DRAWING NO. 1030 | REV.
SHEET NO. 3 OF 3



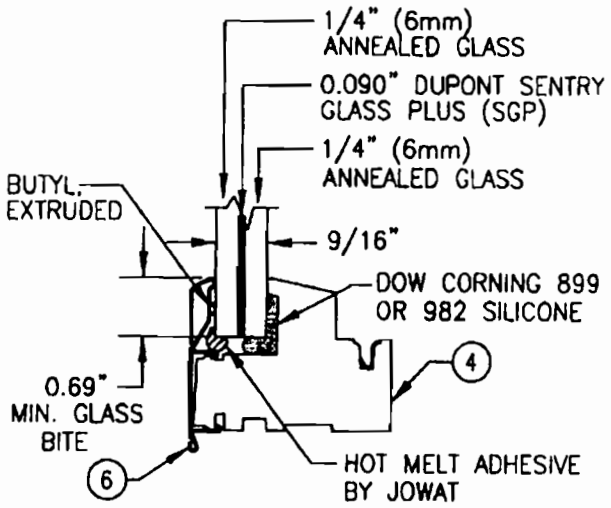
1/2 HEAD DETAIL



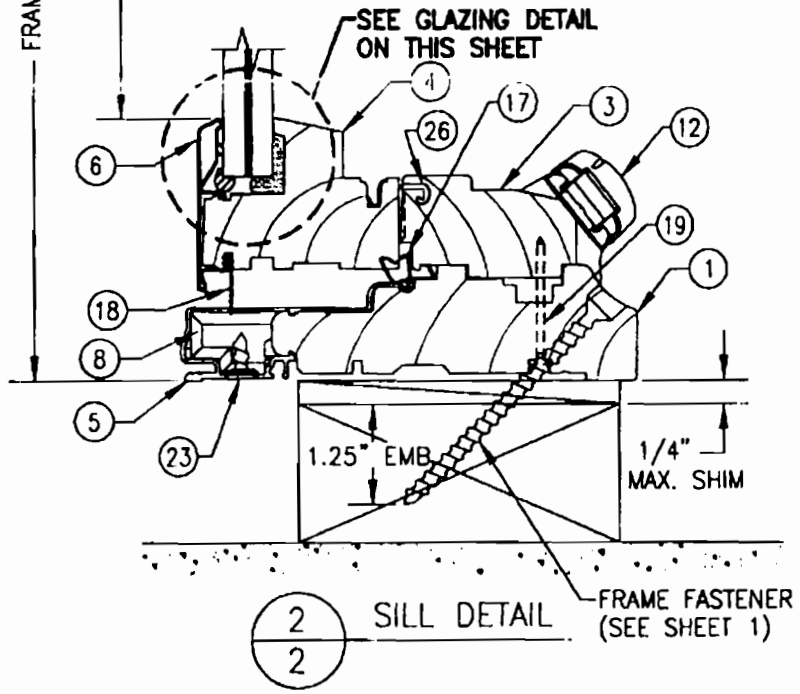
3/2 LOCK JAMB DETAIL



4/2 HINGE JAMB DETAIL

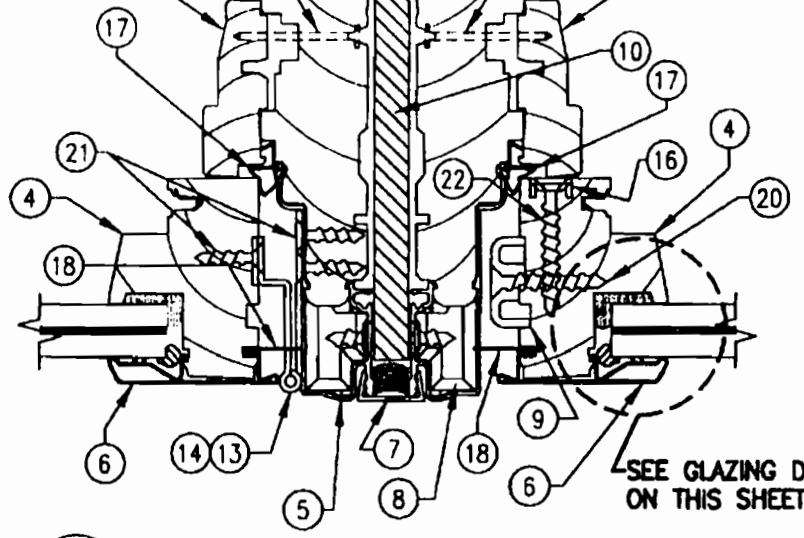


TYP. GLAZING DETAIL

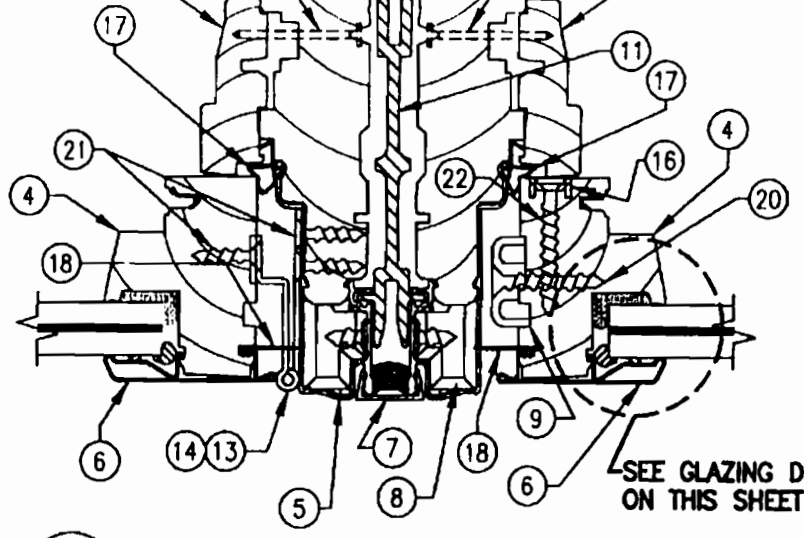


2/2 SILL DETAIL

TYPICAL INSTALLATION INTO 2X WOOD BUCK



5/2 TYP. MULLION DETAIL W/WOOD REINFORCEMENT
SHOWN WITH VENTED UNITS
(VENTED TO FIXED MULLION IS SAME)



5/2 TYP. MULLION DETAIL W/ALUMINUM REINFORCEMENT
SHOWN WITH VENTED UNITS
(VENTED TO FIXED MULLION IS SAME)

NOTE:
EITHER ALUMINUM OR WOOD
REINFORCEMENT MAY BE USED

Approved as complying with the
Florida Building Code
Date AUG. 14, 2003
NOA# 02-1021.04
Miami Dade Product Control
Division
By

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 12/01/00

NO.	REVISION DESCRIPTION	BY	DATE

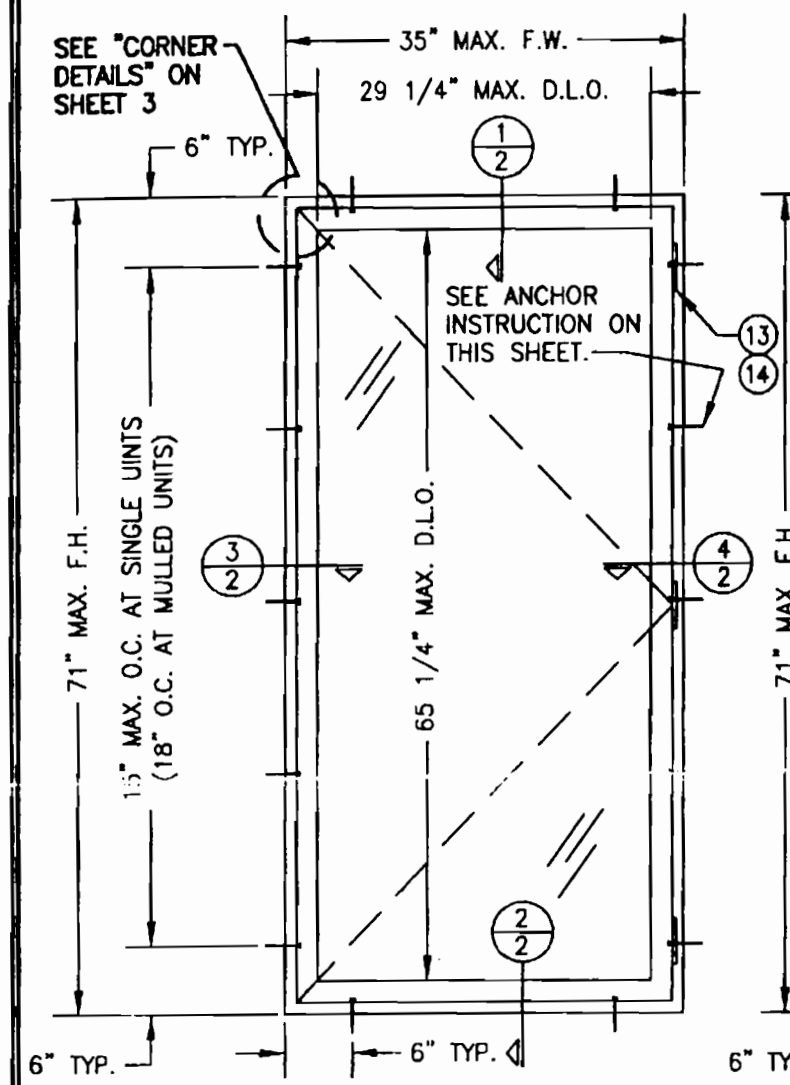
DRAWING TITLE: ALUMINUM CLAD VENTED CASEMENT WINDOWS

MANUFACTURER: PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
64'-621-1000

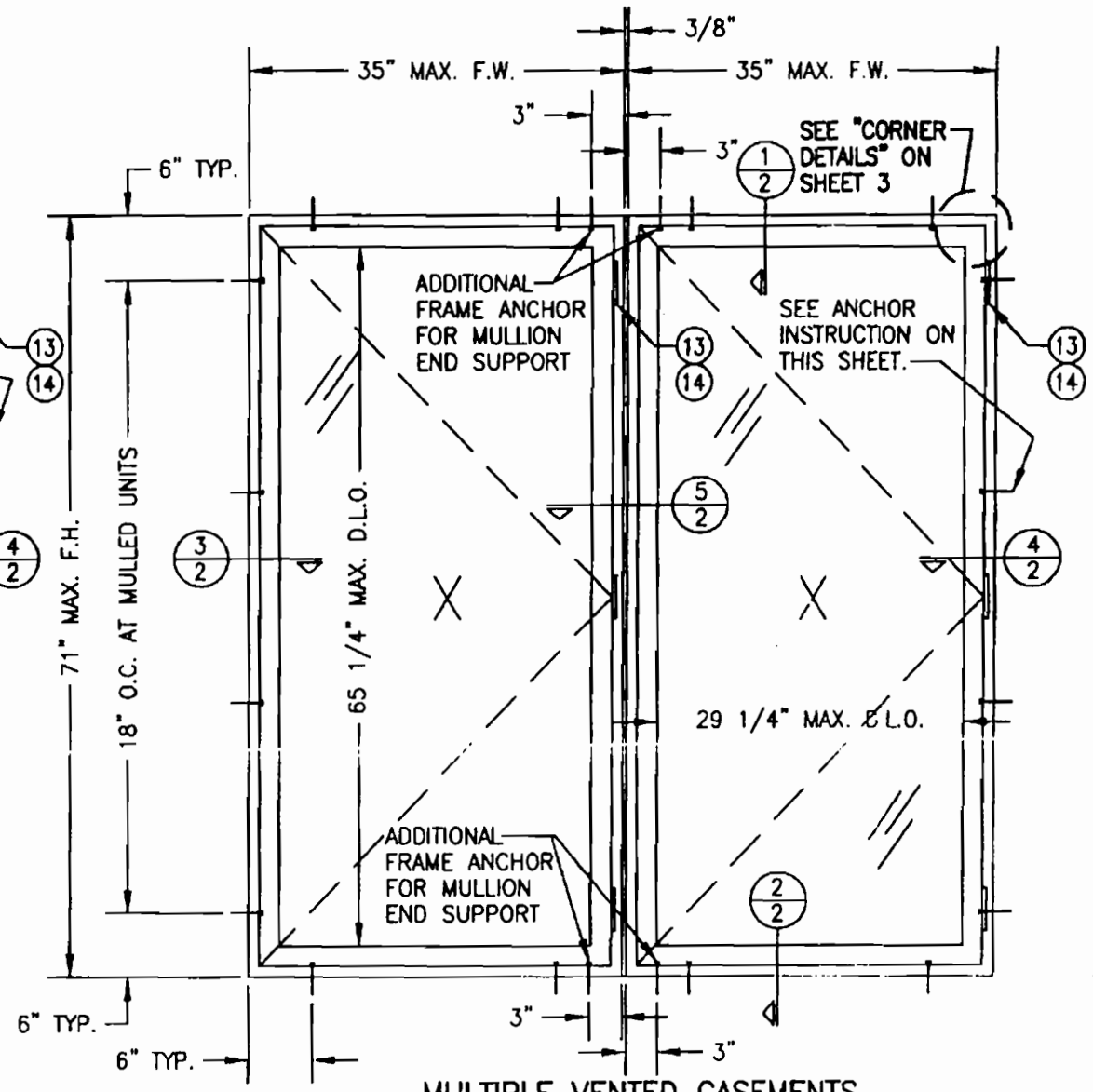
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
800 SANDTREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
JUL 24 2003
WARREN W. SCHAEFER P.E.
P.E. NO. 44135

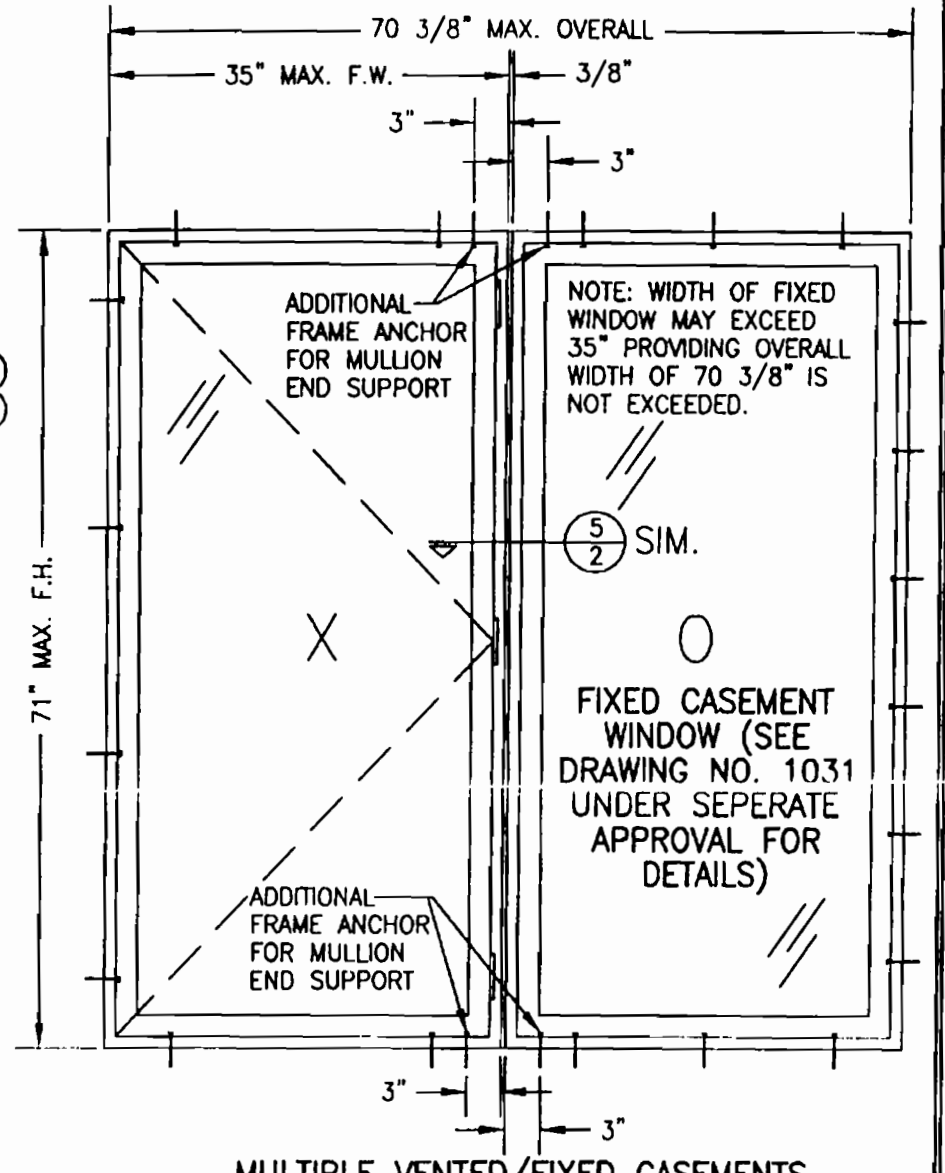
DRAWING NO. 1030 REV.
SHEET NO. 2 OF 3



SINGLE VENTED CASEMENT



MULTIPLE VENTED CASEMENTS
(MAX. FOUR UNITS MAY BE COMBINED)



MULTIPLE VENTED/FIXED CASEMENTS
(MAX. FOUR UNITS MAY BE COMBINED)
SEE OTHER ELEVATIONS FOR VENT WINDOW DETAILS

EXTERIOR ELEVATIONS

ALLOWABLE DESIGN LOAD		
UNIT	POSITIVE	NEGATIVE
SINGLE WINDOWS	75 PSF	80 PSF
MULTIPLE VENTED CASEMENTS	70 PSF	70 PSF
MULTIPLE VENTED/FIXED CASEMENTS	70 PSF	70 PSF

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE FLORIDA BUILDING CODE (F.B.C.)
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AS SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. IMPACT RESISTANT SHUTTERS NOT REQUIRED.
5. ALL DIMENSIONS ARE GIVEN IN INCHES UNLESS OTHERWISE SHOWN.
6. LATEX OR SILICONE CAULKING SEALANT SHALL BE USED BETWEEN ALUMINUM CLADDING AND WOOD BUCK.

PRODUCT DESCRIPTION

FRAME CONSTRUCTION:
SELECT SOFT WOOD, FINGER JOINTED WITH CLEAR PINE VENEER. EXTERIOR SURFACE CLAD WITH ALUMINUM.

PANEL CONSTRUCTION:
SELECT SOFT WOOD, FINGER JOINTED WITH CLEAR PINE VENEER. EXTERIOR SURFACES CLAD WITH ALUMINUM.

VENT CONSTRUCTION:
ALL CORNERS MORTISED AND TENONED, GLUED AND SECURED WITH ONE BRAD NAIL, IN THE STILES TOP AND BOTTOM RAILS.

HINGE TABLE	
WINDOW FRAME HEIGHT	MINIMUM NO. HINGES REQUIRED
41" OR LESS	2
MORE THAN 41"	3

NOTES:
1. APPLICABLE FOR 4" & 8" HINGES.
2. 4" & 8" HINGES CAN BE MIXED ON ONE WINDOW.
3. TOP & BOTTOM HINGE LOCATIONS = 3.25" FROM TOP & BOTTOM PANEL EDGE TO HINGE EDGE.

TYP. FRAME ANCHORS (VENTED CASEMENTS):

1. FRAME TO 2X_ WOOD BUCK: NO. 10 SMS WITH MIN. 1.25" BUCK EMBED SPACED PER ELEVATIONS.
2. FRAME TO BLOCK/CONCR. WITH 1X_ CONT. SPACER: 1/4" TAPCONS WITH MIN. 1 1/4" BLOCK/CONCR. EMBED & MIN. 2 1/2" BLOCK/CONCR. EDGE DISTANCE.
3. MULLION ENDS: ADDITIONAL NO. 10 SMS WITH MIN. 1 3/8" BUCK EMBED OR 1/4" TAPCON WITH MIN. 1 1/4" BLOCK/CONCR. EMBED PER ELEVATIONS.

MAR 1 4 2003

Approved as complying with the Florida Building Code
Date: AUG. 14 2003
NOA#: 02-1021.04
Miami Dade Product Control Division
By:

DRAWN BY: W.W.S. | CHECKED BY: W.W.S.
PLOT: 1=16 | DATE: 12/01/00

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATED ALLOWABLE PRESSURE	W.W.S.	10/14/02

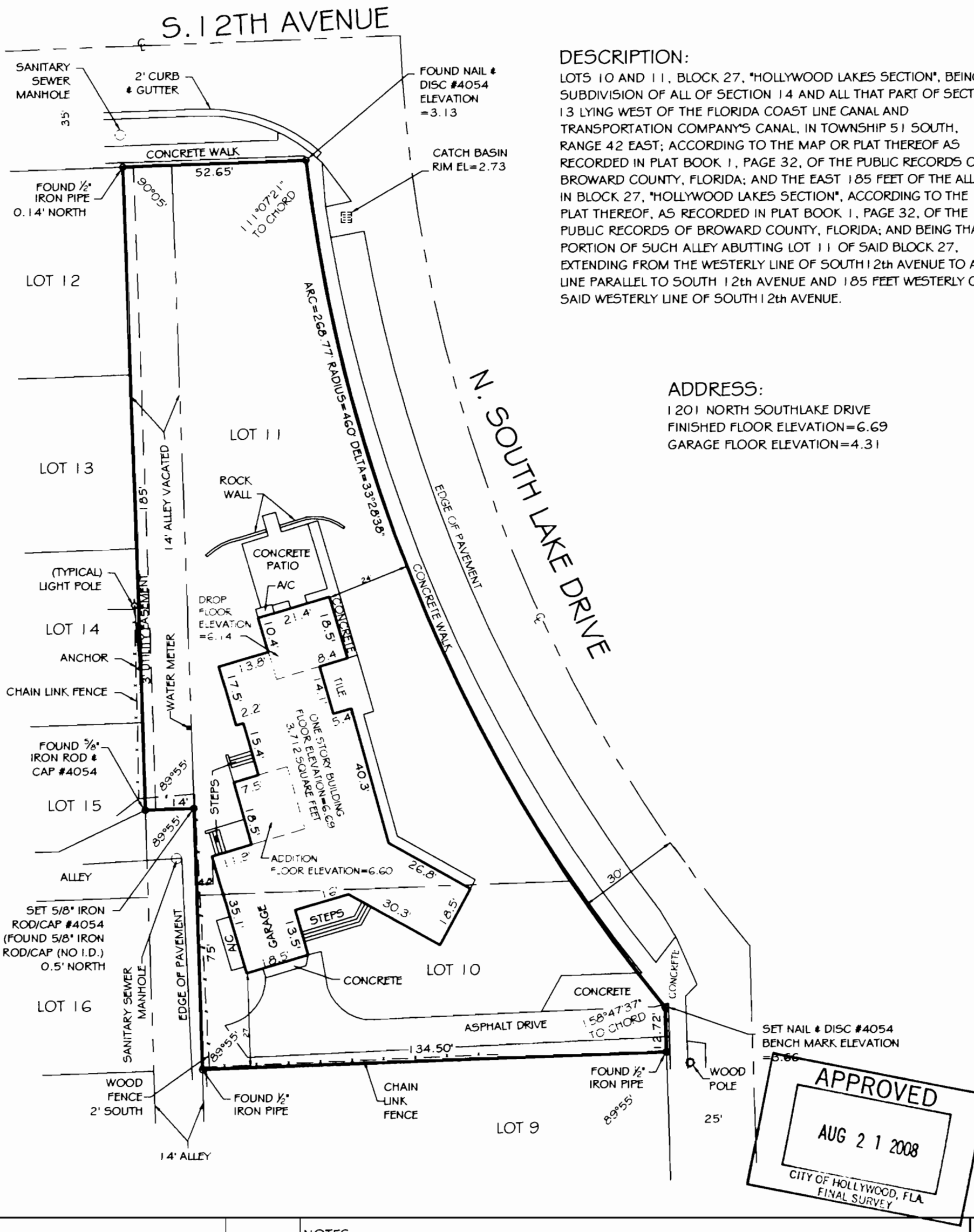
DRAWING TITLE: ALUMINUM CLAD VENTED CASEMENT WINDOWS

MANUFACTURER: PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANDTREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
JUL 24 2003
WARREN W. SCHAEFER P.E. NO. 44135

DRAWING NO. 1030 | REV.
SHEET NO. 1 OF 3



DESCRIPTION:

LOTS 10 AND 11, BLOCK 27, "HOLLYWOOD LAKES SECTION", BEING A SUBDIVISION OF ALL OF SECTION 14 AND ALL THAT PART OF SECTION 13 LYING WEST OF THE FLORIDA COAST LINE CANAL AND TRANSPORTATION COMPANY'S CANAL, IN TOWNSHIP 51 SOUTH, RANGE 42 EAST; ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 1, PAGE 32, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; AND THE EAST 185 FEET OF THE ALLEY IN BLOCK 27, "HOLLYWOOD LAKES SECTION", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 1, PAGE 32, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; AND BEING THAT PORTION OF SUCH ALLEY ABUTTING LOT 11 OF SAID BLOCK 27, EXTENDING FROM THE WESTERLY LINE OF SOUTH 12th AVENUE TO A LINE PARALLEL TO SOUTH 12th AVENUE AND 185 FEET WESTERLY OF SAID WESTERLY LINE OF SOUTH 12th AVENUE.

ADDRESS:

1201 NORTH SOUTHLAKE DRIVE
FINISHED FLOOR ELEVATION=6.69
GARAGE FLOOR ELEVATION=4.31

FEMA FLOOD INSURANCE RATE MAP						COMMUNITY NO.
CITY OF HOLLYWOOD BROWARD COUNTY, FLORIDA						125113
PANEL NO.	SUFFIX	ZONE	FIRM DATE	BASE ELEV.	LOWEST FLR. ELEV	AVG. GRD.
0317	G	AE	10-02-97	7	6.69	N/A

REVISION	DATE	BY
FINAL SURVEY - REVISED	8/11/08	SKS

NOTES

1) THE LAND DESCRIPTION SHOWN HEREON WAS PROVIDED BY THE CLIENT. EASEMENTS AND RIGHTS-OF-WAY PER RECORD PLAT HAVE BEEN SHOWN HEREON. NO FURTHER SEARCH FOR MATTERS OF RECORD HAS BEEN MADE BY THIS FIRM.
2) THIS SURVEY IS PREPARED FOR THE SOLE AND EXCLUSIVE USE OF THE PARTIES AS SURVEYED FOR AND AS CERTIFIED TO AND SHALL NOT BE RELIED UPON BY ANY OTHER ENTITY OR INDIVIDUAL.
3) ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.
4) NORTH ARROW RELATIVE TO ASSUMED NORTH ALONG THE CENTERLINE OF S. 12TH AVENUE.
5. CITY OF HOLLYWOOD BENCHMARK-P/K NAIL & DISC 5'+/-N OF P.I. N. SOUTH LAKE DRIVE & S. 12TH AVENUE ELEVATION=3.10

NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER

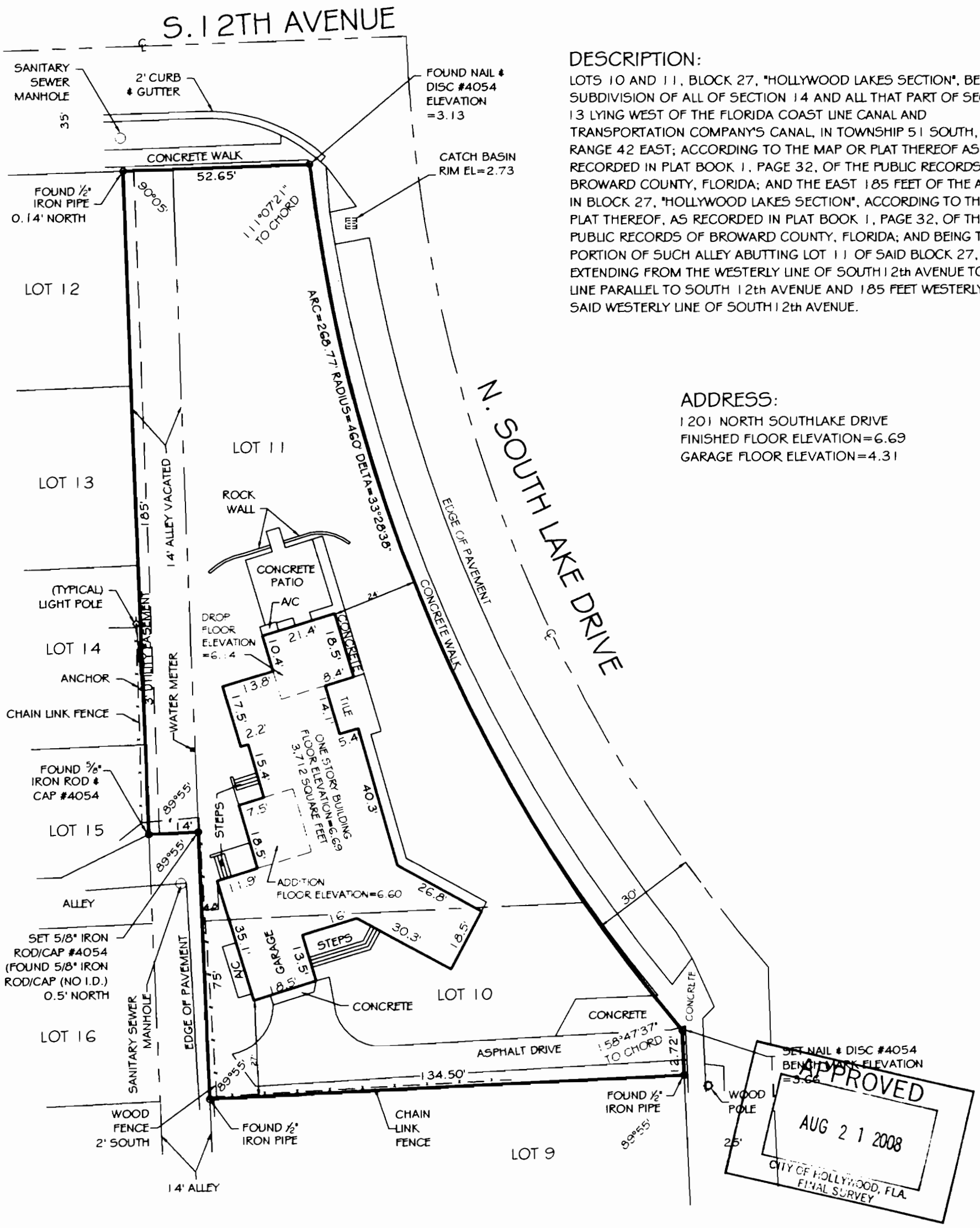
SKETCH OF BOUNDARY SURVEY

JOB #: RN5582	DATE: 8/6/08
SCALE: 1"= 20'	FILE No.: 3-D-706
DRAWN BY: KAM	CHECKED BY: SKS

STEPHEN K. SEELEY, FOR THE FIRM
PROFESSIONAL SURVEYOR & MAPPER
FLORIDA REGISTRATION NO. 4574

GIBBS LAND SURVEYORS
2131 HOLLYWOOD BOULEVARD, SUITE 204
HOLLYWOOD, FL 33020 (954) 923-7666
LICENSED BUSINESS NO. 7018

NORTH



DESCRIPTION:

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1201 NORTH SOUTHLAKE DRIVE
FINISHED FLOOR ELEVATION=6.69
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FEMA FLOOD INSURANCE RATE MAP							COMMUNITY NO.
CITY OF HOLLYWOOD BROWARD COUNTY, FLORIDA							125113
PANEL NO.	SUFFIX	ZONE	FIRM DATE	BASE ELEV.	LOWEST FLR. ELEV	AVG. GRD.	
0317	G	AE	10-02-97	7	6.69	N/A	

REVISION	DATE	BY
FINAL SURVEY - REVISED	8/11/08	SKS

NOTES

1) THE LAND DESCRIPTION SHOWN HEREON WAS PROVIDED BY THE CLIENT. EASEMENTS AND RIGHTS-OF-WAY PER RECORD PLAT HAVE BEEN SHOWN HEREON. NO FURTHER SEARCH FOR MATTERS OF RECORD HAS BEEN MADE BY THIS FIRM.
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5. CITY OF HOLLYWOOD BENCHMARK-P/K NAIL & DISC 5'+/-N OF P.I. N. SOUTH LAKE DRIVE & S. 12TH AVENUE ELEVATION=3.10

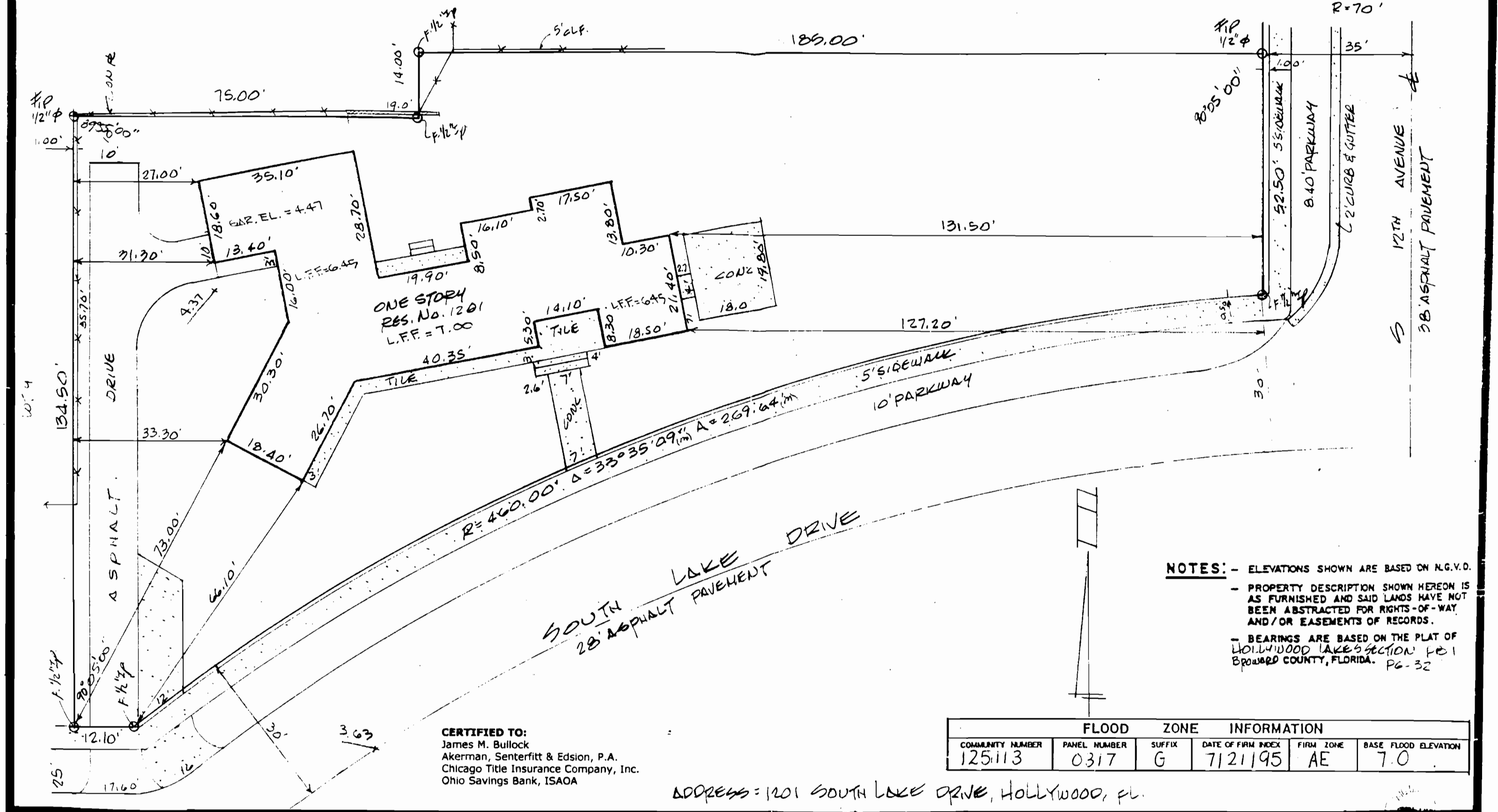
NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER

SKETCH OF BOUNDARY SURVEY

JOB #: RN5582	DATE: 8/6/08
SCALE: 1"= 20'	FILE No.: 3-D-706
DRAWN BY: KAM	CHECKED BY: SKS

STEPHEN K. SEELEY, FOR THE FIRM
PROFESSIONAL SURVEYOR & MAPPER
FLORIDA REGISTRATION NO. 4574

GIBBS LAND SURVEYORS
2131 HOLLYWOOD BOULEVARD, SUITE 204
HOLLYWOOD, FL 33020 (954) 923-7666
LICENSED BUSINESS NO. 7018



NOTES:

- ELEVATIONS SHOWN ARE BASED ON N.G.V.D.
- PROPERTY DESCRIPTION SHOWN HEREON IS AS FURNISHED AND SAID LANDS HAVE NOT BEEN ABSTRACTED FOR RIGHTS-OF-WAY AND/OR EASEMENTS OF RECORDS.
- BEARINGS ARE BASED ON THE PLAT OF HOLLYWOOD LAKES SECTION NO 1 Broward COUNTY, FLORIDA. PG-32

FLOOD ZONE INFORMATION					
COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM INDEX	FIRM ZONE	BASE FLOOD ELEVATION
125113	0317	G	7/21/95	AE	7.0

CERTIFIED TO:
James M. Bullock
Akerman, Senterfitt & Edsion, P.A.
Chicago Title Insurance Company, Inc.
Ohio Savings Bank, ISAOA

ADDRESS: 1201 SOUTH LAKE DRIVE, HOLLYWOOD, FL.

LEGAL DESCRIPTION:
Lots 10 and 11, Block 27 of HOLLYWOOD LAKES SECTION, Plat Book 1, Page 32, Broward County, Florida (Folio No. 514214014640) and the East 185 feet of the alley in Block 27 of Hollywood Lakes Section, measured from the westerly line of South 12th Avenue, Block 27 (Folio No. 514214014650)

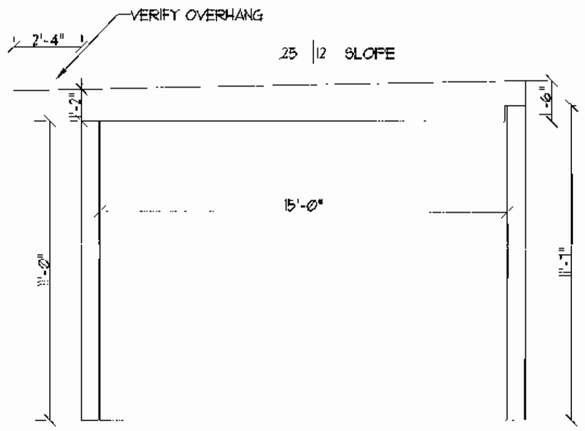
CERTIFICATION:

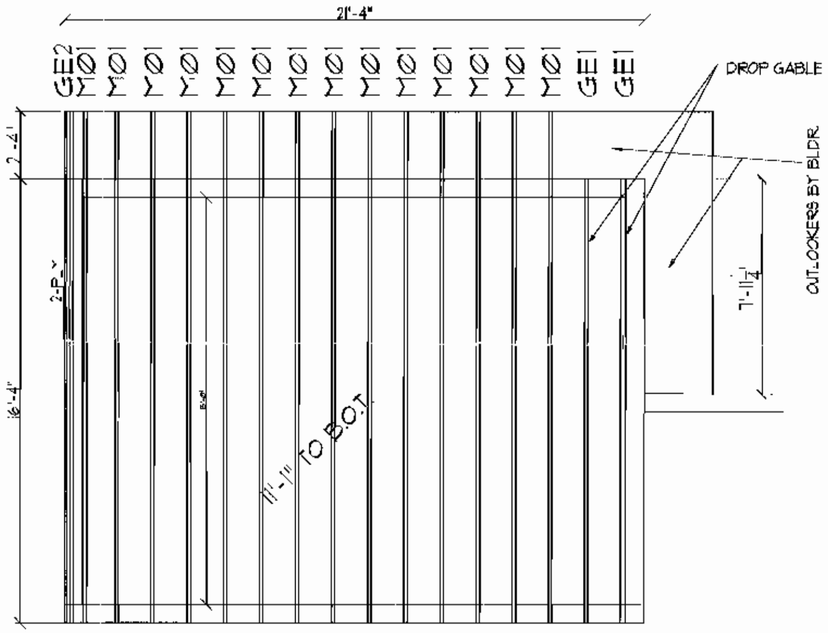
I HEREBY CERTIFY THAT THIS SKETCH OF SURVEY REPRESENTS A TRUE AND CORRECT SURVEY RECENTLY MADE UNDER MY DIRECTION AND THAT IT IS IN COMPLIANCE WITH THE MINIMUN TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS PERSUANT TO SECTION 472.027 FLORIDA STATUES.

BY: _____ FOR THE FIRM
MIGUEL ESPINOSA
P.L.S. No. 5104
STATE OF FLORIDA
NOT VALID WITHOUT EMBOSSED SEAL.

BOUNDARY SURVEY
PREPARED FOR: JAMES M. BULLOCK
DATE: 4-27-2001
JOB No. 01-326
SCALE: 1" = 20'

MIGUEL ESPINOSA LAND SURVEYING, INC.
6494 S.W. 24 STREET
MIAMI, FLORIDA 33155
PHONE: (305) 740-3319
BEEPER: (305) 859-1503





NOTICE

Field Bracing is not the responsibility of the truss fabricator, truss designer, nor plate manufacturer. Persons erecting trusses are cautioned to seek professional advice regarding erection bracing which is always required to prevent toppling and dominoing during erection, and permanent bracing which may be required in specific applications. Trusses shall be erected and fastened in a straight and plumb position. When no sheathing is applied directly to the top chords, they shall be braced at 24" o.c max. Where no rigid ceiling is applied directly to the bottom chords, they shall be braced at 6'-0" o.c. max. Trusses shall be handled with reasonable care during erection to prevent excessive damage or personal injury.

See Engineering for connections, nailing schedules, etc.

NOTE: Labeling trusses is a service, not a requirement. Engineered drawings supercede labeling of trusses. It is the responsibility of the builder to utilize engineered drawings when erecting trusses.

Girder truss to girder truss connections which exceed the capacity of a standard hanger or truss to wall connections are the responsibility of the builder.

GENERAL NOTES

1. TRUSSES SPACED 24" ON CENTER U.O.N.
2. ALL WALL, BEAM & COLUMN MOUNTED TRUSS HANGERS BY BUILDER
3. SOME DOWN FRAMING BY BUILDER.
4. SOME VALLEY FRAMING BY BUILDER.

FLORIDA
QUALITY TRUSS
PH: (954) 975-3384
FAX: (954) 978-8980
3120 N.W. 16TH TERRACE
POMPANO BEACH, FL 33064

ALI YEMENICILER
FL. REG. # 54733

SHOP DRAWING APPROVAL

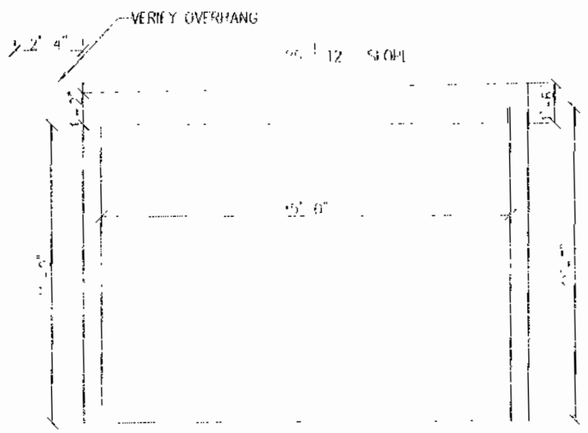
THIS DRAWING IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER LAYOUTS. APPROVAL OF THIS LAYOUT IS NECESSARY BEFORE ANY WORK CAN BE DONE. PLEASE VERIFY AND/OR INDICATE TRUSS PLACEMENT, DIRECTIONS, DIMENSIONS, BEARING CONDITIONS, PITCHES, SHAPES, OVERHANGS, CHIMNEY, CUPOLA LOADS AND CONNECTIONS SHALL BE SUPPLIED BY A/E OF RECORD.

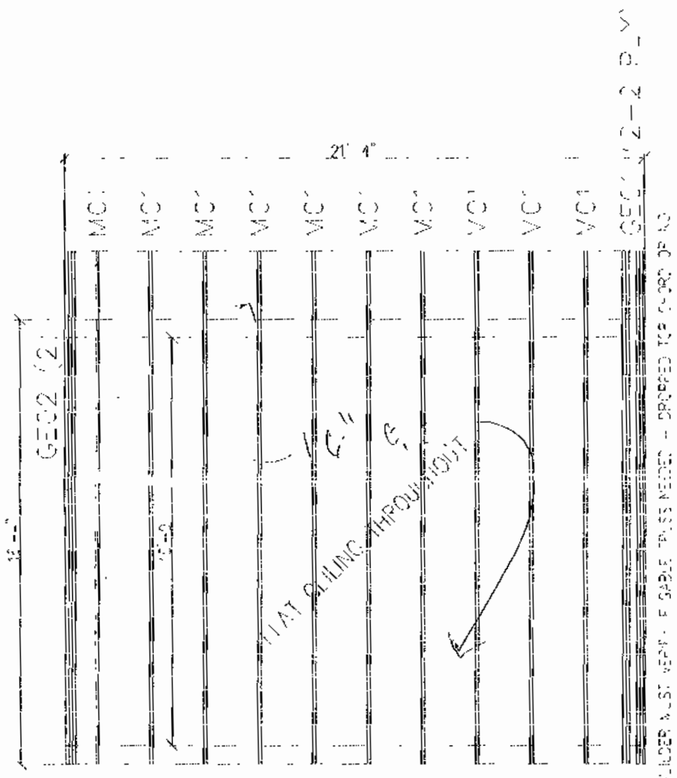
Approved By. Date:

CUSTOMER: BILL SEAY

DATE 1-27-04	REV.	BY. R. Feeley
SCALE 1/4"=1'-0"	10-18-04 PER BLDR	CHK.
1201 S. SOUTH LAKE DRIVE		PROJECT NO. 04060
HOLLYWOOD, FLORIDA		DWG NO. 04060

BULLOCK RESIDENCE





APR 1 0 2008

5/2/04

APR 15 2008

APPROVED FOR TRUSS LAYOUT ONLY

BULLOCK RESIDENCE

NOTICE

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See Engineering for connections, nailing schedules, etc.

NOTE: Labeling trusses is a service, not a requirement. Engineered drawings supercede labeling of trusses. It is the responsibility of the builder to utilize engineered drawings when erecting trusses.

Girder truss to girder truss connections which exceed the capacity of a standard hanger or truss to wall connections are the responsibility of the builder.

GENERAL NOTES

1. TRUSSES SPACED 24" ON CENTER, U.O.N.
2. ALL WALL, BEAM & COLUMN MOUNTED
3. TRUSS HANGERS BY BUILDER
4. SOME DOWN FRAMING BY BUILDER
5. SOME VALLEY FRAMING BY BUILDER

FLORIDA QUALITY TRUSS
TEL: (954) 975-3384
FAX: (954) 978-9980
920 N.W. 16TH TERRACE
POMPANO BEACH, FL 33064

YEKTA KAVASOGLU, P.E.
FL. REG. # 41310
CIVIL-STRUCTURAL

SHOP DRAWING APPROVAL

THIS DRAWING IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER LAYOUTS. APPROVAL OF THIS LAYOUT IS NECESSARY BEFORE ANY WORK CAN BE DONE. PLEASE VERIFY AND/OR INDICATE TRUSS PLACEMENT, DIRECTIONS, DIMENSIONS, BEARING CONDITIONS, PITCHES, SHAPES, OVERHANGS, CHIMNEY, CUPOLA LOADS AND CONNECTIONS SHALL BE SUPPLIED BY A/E OF RECORD.

Approved By _____ Date _____

CUSTOMER: BILL SEAY

DATE 1-27-04	BY	BY R. Feeley
SCALE 1/4"=1'-0"	2-13-04 PER BLDR	CHK
1201 S SOUTH LAKE DRIVE		PROJECT NO 04060
HOLLYWOOD, FLORIDA		DWG NO 04060

FEB 2 9 2008

M-040560

ROOM FINISH SCHEDULE

#	ROOM DECRIPTION	FLOORS MTL.	FLOORS BASE	WALLS MTL.	WALLS WSCT	CEILINGS MTL.	CEILINGS HGT.	REMARKS
101	ENTRY	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
102	ENTRY CLOSET	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
103	M.E.	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
104	RECYCLE	9" x 9" terrazo tile	cove	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
105	KITCHEN	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
106	CHEF'S TOILET	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	8' 8"±	clg. plaster as required
107	DINING ROOM	9" x 9" terrazo tile	cove	½" gap w/ wood trim	none	paint existing plaster	8' 8"±	drop soffit along south for A/C
108	BATHROOM #2	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
109	LIN. CLOSET #2	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
110	CORRIDOR	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
111	CLOSET #2	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
112	BEDROOM #2	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
113	WORKROOM	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
114	MEDIA ROOM	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
115	M.E. #2	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
116	LIVING ROOM	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
117	CLOSET #1	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
118	DRESSING ROOM	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
119	BATHROOM #1	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
120	DRESSING ROOM	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
121								
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DRAWING INDEX

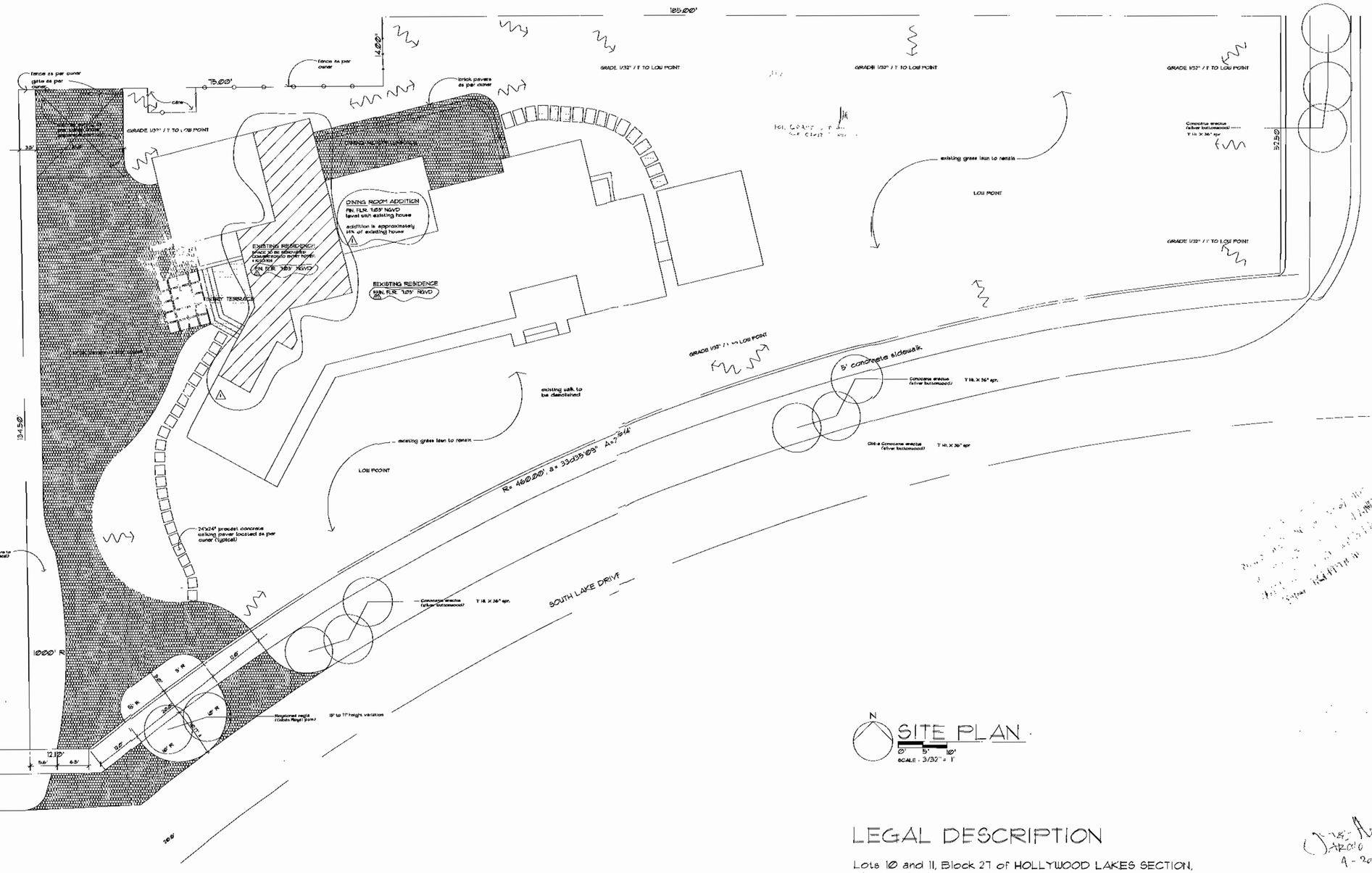
SHEET #	CONTENT DESCRIPTION	REMARKS
		SEE SURVEY FOR ACCURATE PROPERTY DIMENSIONS & LEGAL DESCRIPTION
A- 1	SITE PLAN & GENERAL NOTES	
A- 2	ARCHITECTURAL FLOOR PLAN	
A- 3	EXTERIOR ELEVATIONS	
A- 4	WALL SECTION	
STRUCTURAL DRAWINGS		
S- 1	FOUNDATION PLAN	
S- 2	DETAILS & SCHEDULES	
ELECTRICAL		
E- 1	ELECTRIDAL FLOOR PLAN, PANEL SCHEDULE & NOTES	
E- 2	PANEL SCHEDULES, RISER DIAGRAM & NOTES	

BUILDING AREA CALCULATIONS

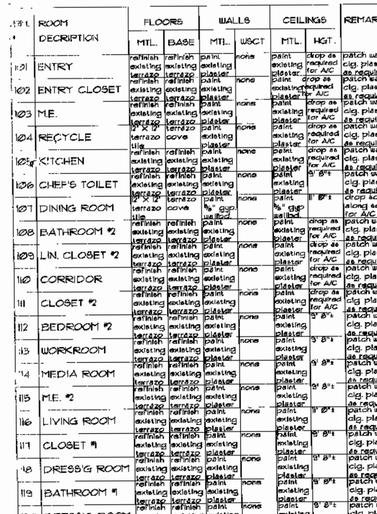
EXISTING HOME	AREA
existing area to be renovated	686
existing house to be remdaled	2235
TOTAL EXISTING HOME PRIOR TO ADDITION	2921
dining room addition	316
TOTAL HOME AREA AFTER ADDITION	3237

GENERAL NOTES
1. Contractor shall visit the site of the work and shall become totally aware of all the conditions and materials that are to be encountered during construction.
2. All dimensions shown on plans are to be verified in the field and any discrepancies shall be brought to the attention of the Architect prior to proceeding with any work.
3. All existing surfaces that are effected by these renovations shall be repaired with new materials to match adjacent existing or renovated surface. This applies to both interior and exterior surfaces.
4. Contractor shall refer to OWNER for all materials and construction of interior non-structural partitions, cabinetry, soffits, fixtures and finishes.
5. Contractor shall verify that all floors/walls/partitions to be demolished are nonstructural prior to any demolition of such. Architect shall be notified immediately if any walls/partitions are believed or found to be structural unles specifically indicated on documents.

⚠ SANITARY SEWER NOTE
Existing house is connected to City of Hollywood sewer.



SITE PLAN
SCALE : 3/32" = 1'



FRAME WALL SECTION
frame wall

LEGAL DESCRIPTION

Lots 10 and 11, Block 27 of HOLLYWOOD LAKES SECTION, Plat Book 32, Broward County, Florida
(Folio No. 5142140)

JORGE MIGUEL HERNANDEZ
ARCHITECTURE

BUILDING PERMIT SET
FOR CONSTRUCTION

a restoration & addition for the
BULLOCK RESIDENCE
1201 N. South Lake Drive Hollywood, Fl.

Revisions
1 RESPONSE TO BLDG DEPT.

Date: 2-27-04

Sheet A-1 of 4

ROOM FINISH SCHEDULE

RM #	ROOM DESCRIPTION	FLOORS MTL	FLOORS BASE	WALLS MTL	WALLS MISC	CEILINGS MTL	CEILINGS HGT	REMARKS
101	ENTRY	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
102	ENTRY CLOSET	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
103	M.E.	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
104	RECYCLE	12" x 12" tile	terrazo cove	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
105	KITCHEN	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
106	CHEF'S TOILET	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
107	DINING ROOM	12" x 12" terrazo tile	terrazo cove	paint existing plaster	none	paint existing plaster	11' 8"±	drop soffit along south wall for A/C
108	BATHROOM #2	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
109	LIN. CLOSET #2	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
110	CORRIDOR	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
111	CLOSET #2	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	drop as required for A/C	patch wall & clg. plaster as required
112	BEDROOM #2	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
113	WORKROOM	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
114	MEDIA ROOM	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
115	M.E. #2	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
116	LIVING ROOM	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	11' 8"±	patch wall & clg. plaster as required
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118	DRESS'G ROOM	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
119	BATHROOM #1	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
120	DRESS'G ROOM	refinish existing terrazo	refinish existing terrazo	paint existing plaster	none	paint existing plaster	9' 8"±	patch wall & clg. plaster as required
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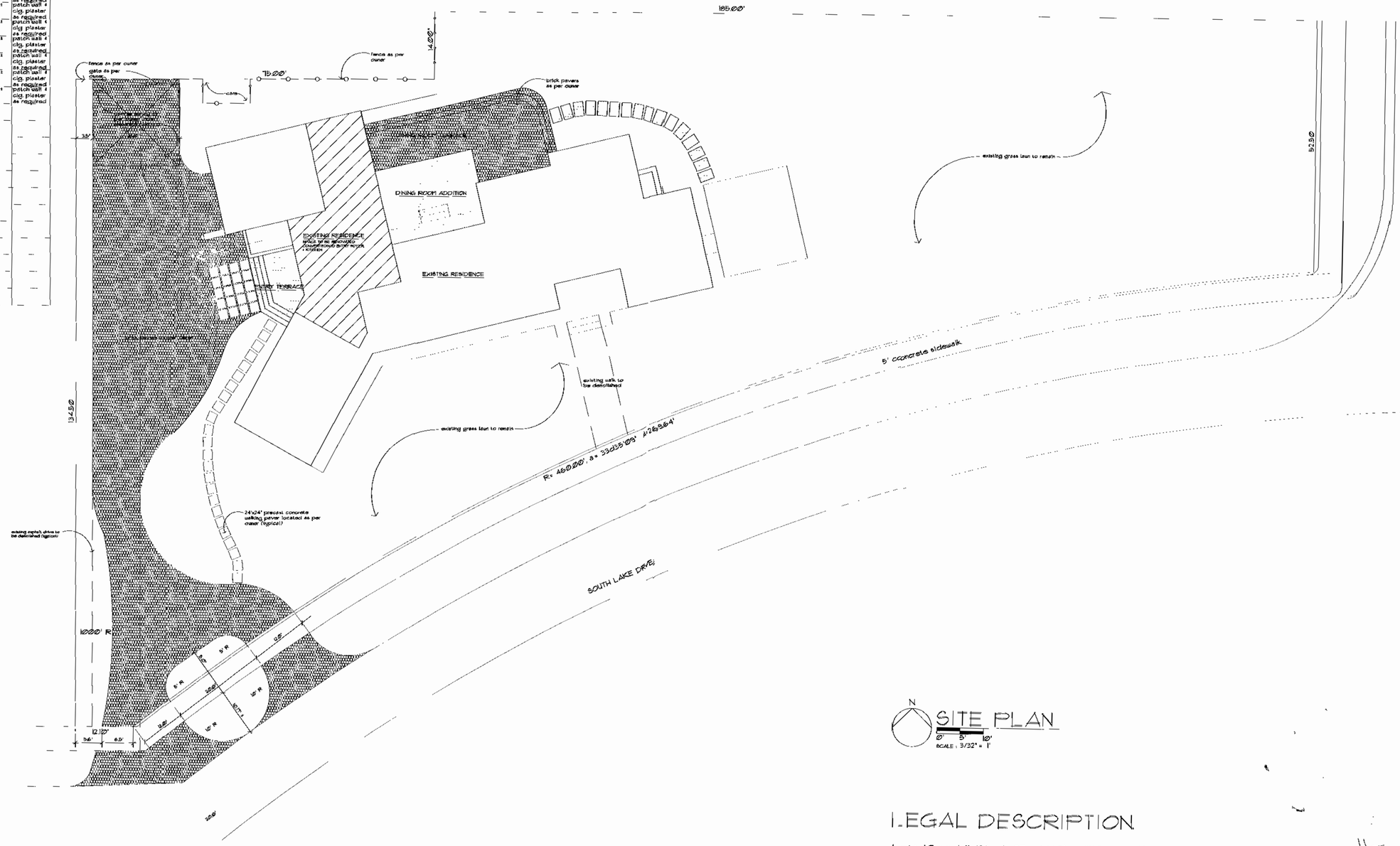


N

SITE PLAN

0' 5' 10'
SCALE : 5/32" = 1'

LEGAL DESCRIPTION

Lots 10 and 11, Block 27 of HOLLYWOOD LAKES SECTION, Plat Book 32, Broward County, Florida (Folio No. 5142140)

JORGE MIGUEL HERNANDEZ
FLA. REGISTERED CONTRACTOR #CGC 1516662
ARCHITECTURE
2201 HARRISON STREET, SUITE 2-2
HOLLYWOOD FLORIDA

BUILDING PERMIT SET
FOR CONSTRUCTION

BULLOCK RESIDENCE
1201 N. South Lake Drive Hollywood, Fla.

a restoration & addition for the

Revisions	Date:
	2-27-04

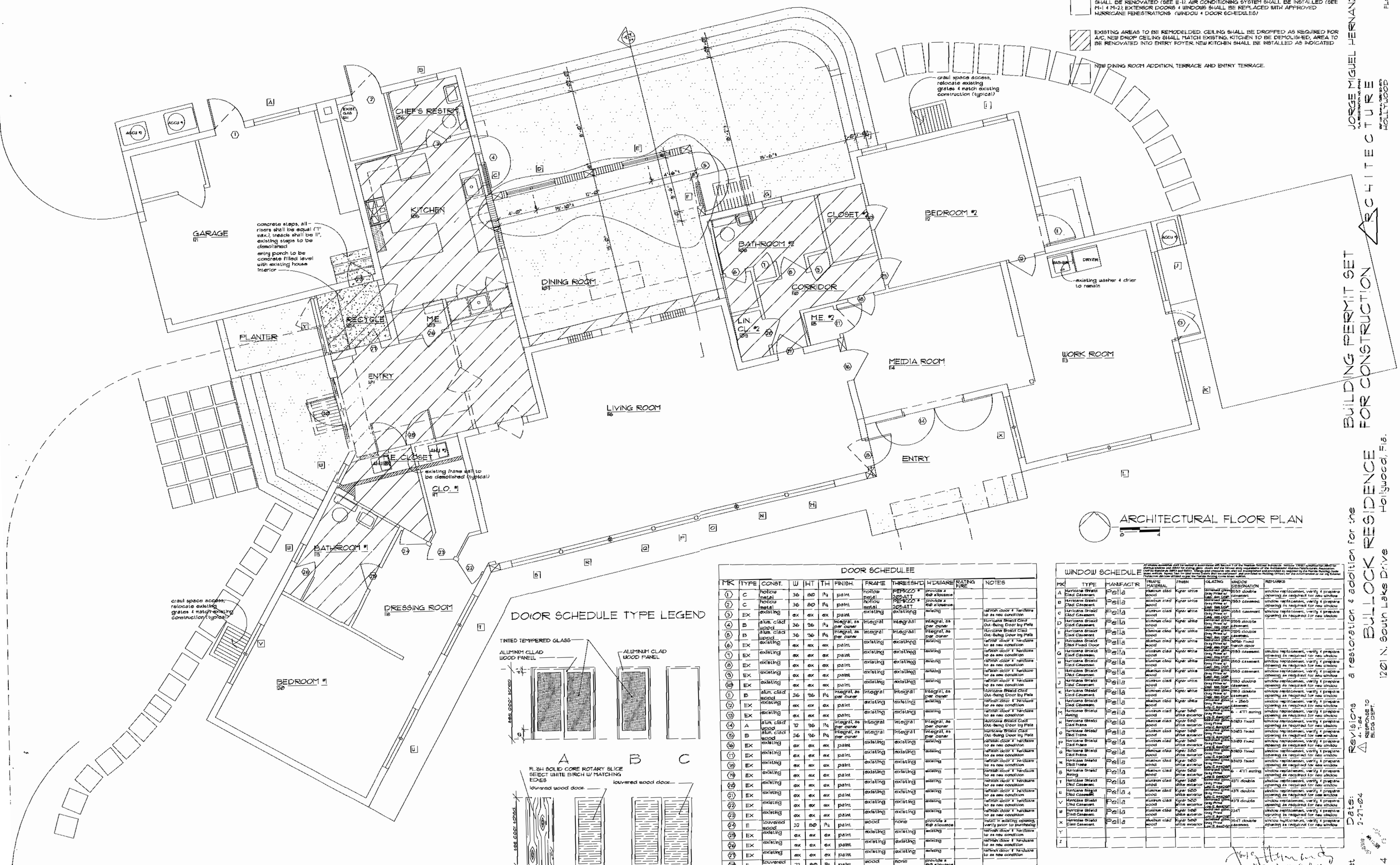
Sheet A-1 of 4

CONSTRUCTION LEGEND

EXISTING HOUSE INTERIOR TO BE REMODELED AS PER OWNER. ELECTRICAL SYSTEMS SHALL BE RENOVATED (SEE E-1). AIR CONDITIONING SYSTEM SHALL BE INSTALLED (SEE M-1 & M-2). EXTERIOR DOORS & WINDOWS SHALL BE REPLACED WITH APPROVED HURRICANE FENESTRATIONS. (WINDOW & DOOR SCHEDULES)

EXISTING AREAS TO BE REMODELDED. CEILING SHALL BE DROPPED AS REQUIRED FOR A/C. NEW DROP CEILING SHALL MATCH EXISTING. KITCHEN TO BE DEMOLISHED, AREA TO BE RENOVATED INTO ENTRY FOYER. NEW KITCHEN SHALL BE INSTALLED AS INDICATED

NEW DINING ROOM ADDITION, TERRACE AND ENTRY TERRACE.



ARCHITECTURAL FLOOR PLAN

DOOR SCHEDULE TYPE LEGEND

DOOR SCHEDULE

MK	TYPE	CONST.	W	HT	TH	FINISH	FRAME	THRESHOLD	HDWARE	RATING FIRE	NOTES
1	C	hollow metal	36	80	1¾	paint	hollow metal	PEMKCO # 36BATT	provide a $60 allowance		
2	C	hollow metal	36	80	1¾	paint	hollow metal	PEMKCO # 36BATT	provide a $60 allowance		
3	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
4	B	alum. clad wood	36	96	1¾	Integral, as per owner	integral	integral	integral, as per owner		Hurricane Shield Clad Out-Swing Door by Pella
5	B	alum. clad wood	36	96	1¾	Integral, as per owner	integral	integral	integral, as per owner		Hurricane Shield Clad Out-Swing Door by Pella
6	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
7	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
8	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
9	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
10	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
11	B	alum. clad wood	36	96	1¾	Integral, as per owner	integral	integral	integral, as per owner		Hurricane Shield Clad Out-Swing Door by Pella
12	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
13	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
14	A	alum. clad wood	72	96	1¾	Integral, as per owner	integral	integral	integral, as per owner		Hurricane Shield Clad Out-Swing Door by Pella
15	B	alum. clad wood	36	96	1¾	Integral, as per owner	integral	integral	integral, as per owner		Hurricane Shield Clad Out-Swing Door by Pella
16	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
17	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
18	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
19	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
20	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
21	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
22	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
23	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
24	E	louvered wood existing	32	80	1¾	paint	wood	none	provide a $60 allowance		install in existing opening, verify prior to purchasing
25	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
26	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
27	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
28	F	louvered wood existing	72	80	1¾	paint	wood	none	provide a $60 allowance		
29	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition

WINDOW SCHEDULE

All windows installed shall be tested to water rating with Section 1 of the Florida Building Code, Building, Table 1609.3 modification #1 for Capital Beach as 130 mph (3 second gust) Ultimate Design Wind Speed, Exposure C. Impact Protection shall be provided as required by the Florida Building Code, Building, Section 1609.1.2 and Florida Residential Code, Section R301.2.1.2. Impact test shall prove Design Pressure shall be performed and provided by Product Approval Method A or B of the Florida Building Code, Building, Section 1711 or by Florida Residential Code, Section R609.1.1.2. Protective devices utilized as per the Florida Building Code, Building, Section 1609.1.2 and provided by Product Approval Method A or B of the Florida Building Code, Building, Section 1711 or by Florida Residential Code, Section R609.1.1.2. Protective devices utilized as per the Florida Building Code, Building, Section 1609.1.2 and provided by Product Approval Method A or B of the Florida Building Code, Building, Section 1711 or by Florida Residential Code, Section R609.1.1.2.

MK	TYPE	MANUFACTR	FRAME MATERIAL	FINISH	GLAZING	WINDOW DESIGNATION	REMARKS
A	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	2653 casement	window replacement, verify & prepare opening as required for new window
B	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	2653 casement	window replacement, verify & prepare opening as required for new window
C	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	3558 casement	window replacement, verify & prepare opening as required for new window
D	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	2868 double casement	
E	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	2896 double casement	
F	Hurricane Shield Clad Fixed Door	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	3080 fixed french door	
G	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	2653 casement	window replacement, verify & prepare opening as required for new window
H	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	2653 casement	window replacement, verify & prepare opening as required for new window
I	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	2653 casement	window replacement, verify & prepare opening as required for new window
J	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	2883 double casement	window replacement, verify & prepare opening as required for new window
K	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	2883 double casement	window replacement, verify & prepare opening as required for new window
L	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar white	laminated glass Gray Prime w/ Low-E, Argon gas	4 - 2565 casement	window replacement, verify & prepare opening as required for new window
M	Hurricane Shield Awning	Pella	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	4 - 4171 awning	window replacement, verify & prepare opening as required for new window
N	Hurricane Shield Clad Frame	Pella	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	53823 fixed	window replacement, verify & prepare opening as required for new window
O	Hurricane Shield Clad Frame	Pella	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	53823 fixed	window replacement, verify & prepare opening as required for new window
P	Hurricane Shield Clad Frame	Pella	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	53823 fixed	window replacement, verify & prepare opening as required for new window
Q	Hurricane Shield Clad Frame	Pella	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	53823 fixed	window replacement, verify & prepare opening as required for new window
R	Hurricane Shield Clad Frame	Pella	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	53323 fixed	window replacement, verify & prepare opening as required for new window
S	Hurricane Shield Awning	Pella	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	6 - 4171 awning	window replacement, verify & prepare opening as required for new window
T	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	4371 double	window replacement, verify & prepare opening as required for new window
U	Hurricane Shield Clad Casement	Pella 4	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	4371 double	window replacement, verify & prepare opening as required for new window
V	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	4379 double	window replacement, verify & prepare opening as required for new window
W	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	2347	window replacement, verify & prepare opening as required for new window
X	Hurricane Shield Clad Casement	Pella	aluminum clad wood	Kynar 5650 white exterior	laminated glass Gray Prime w/ Low-E, Argon gas	3647 double casement	window replacement, verify & prepare opening as required for new window
Y							
Z							

JORGE MIGUEL HERNANDEZ
M.A. ARCHITECTURE AND URBANISM
ARCHITECTURE
REGISTERED ARCHITECT
HOLLYWOOD
FLORIDA

BUILDING PERMIT SET
FOR CONSTRUCTION

Revisions
4-7-04 RESPONSE TO BLDG DEPT.

Date: 2-27-04

BULLOCK RESIDENCE
Hollywood, F.L.
a restoration & addition for the
1201 N. South Lake Drive

Sheet: A-2.4

CONSTRUCTION LEGEND

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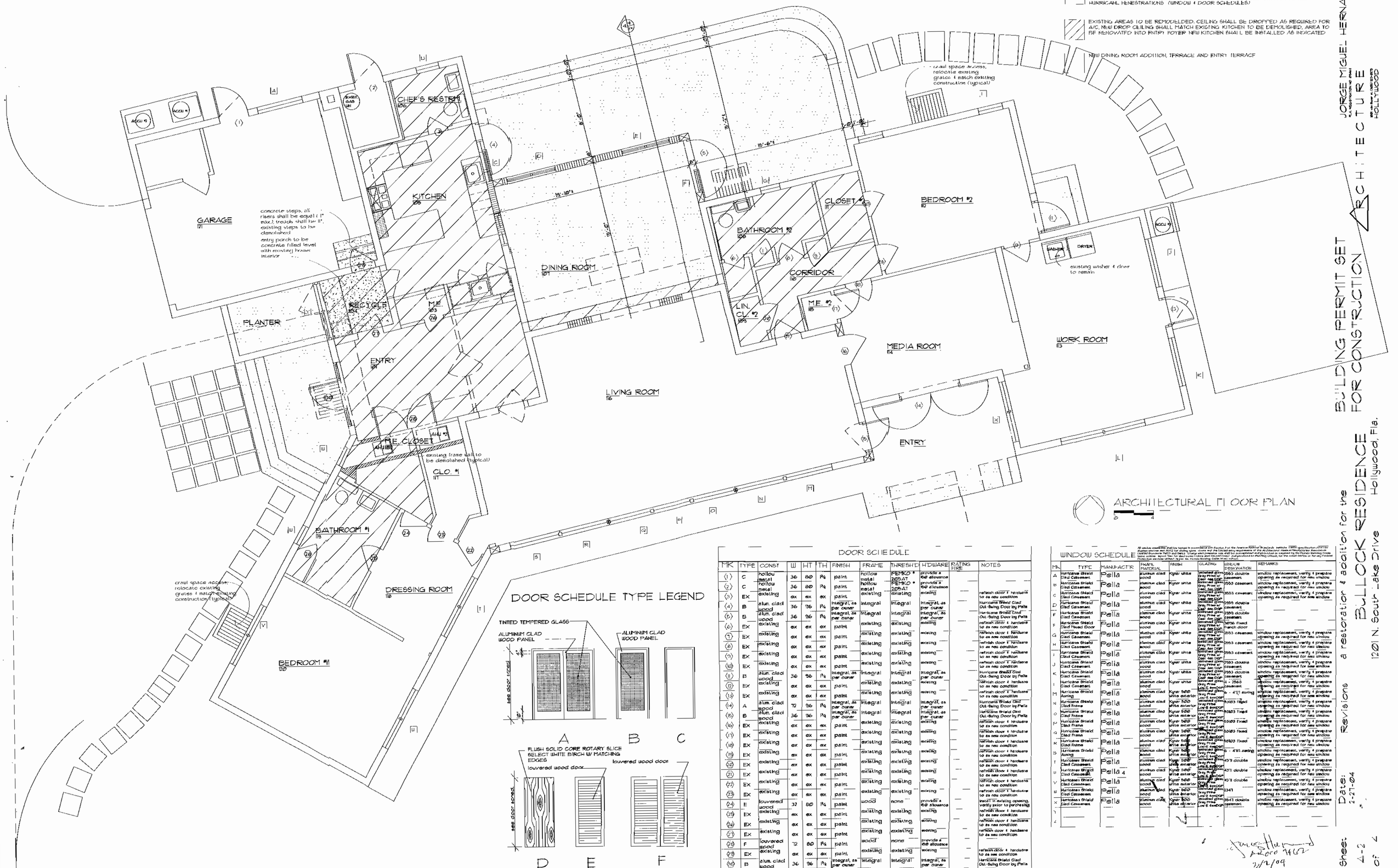
NEW DINING ROOM ADDITION, TERRACE AND ENTRY TERRACE



DOOR SCHEDULE TYPE LEGEND

DOOR SCHEDULE

MK	TYPE	CONST	W	HT	TH	FINISH	FRAME	THRESHLD	HDWARE	RATING FIRE	NOTES
(1)	C	hollow metal	36	80	1¾	paint	hollow metal	PEMKO # 2654T	provide a $60 allowance		
(2)	C	hollow metal	36	80	1¾	paint	hollow metal	PEMKO # 2654T	provide a $60 allowance		
(3)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(4)	B	alum. clad wood	36	96	1¾	integral, as per owner	integral	integral	integral, as per owner		Hurricane Shield Clad Out-Swing Door by Pella
(5)	B	alum. clad wood	36	96	1¾	integral, as per owner	integral	integral	integral, as per owner		Hurricane Shield Clad Out-Swing Door by Pella
(6)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(7)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(8)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(9)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(10)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(11)	B	alum. clad wood	36	96	1¾	integral, as per owner	integral	integral	integral, as per owner		Hurricane Shield Clad Out-Swing Door by Pella
(12)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(13)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(14)	A	alum. clad wood	72	96	1¾	integral, as per owner	integral	integral	integral, as per owner		Hurricane Shield Clad Out-Swing Door by Pella
(15)	B	alum. clad wood	36	96	1¾	integral, as per owner	integral	integral	integral, as per owner		Hurricane Shield Clad Out-Swing Door by Pella
(16)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(17)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(18)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(19)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(20)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(21)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(22)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(23)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(24)	E	louvered wood	32	80	1¾	paint	wood	none	provide a $60 allowance		
(25)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(26)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(27)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(28)	F	louvered wood	72	80	1¾	paint	wood	none	provide a $60 allowance		
(29)	EX	existing	ex	ex	ex	paint	existing	existing	existing		refinish door & hardware to as new condition
(30)	B	alum. clad wood	36	96	1¾	integral, as per owner	integral	integral	integral, as per owner		Hurricane Shield Clad Out-Swing Door by Pella

WINDOW SCHEDULE

All window assemblies shall be tested in accordance with Section 1 of the American National Standards Institute (ANSI) specification /AAMA/NWWDA 101/I.S.2 and shall comply with the following specifications: Aluminum windows and doors shall be fabricated using alloy 6063-T5 and 6063-T6 and temper. Screws used for fastening corners and trim joints shall be stainless steel. Aluminum sections in contact with concrete or masonry shall be painted with one coat of zinc chromate primer. Glass shall be as follows: Glazing shall be per manufacturer's recommendations and shall comply with the Florida Building Code, latest edition. Impact glass for wind borne debris zone and non-impact shall be provided as required by the Florida Building Code, latest edition. Impact

ELEVATION LEGEND

A - Existing smooth stucco to be pressured cleaned, patched and painted as per owner

B - Existing wood facia to be pressured cleaned, deleterious wood replaced and painted as per owner

C - Existing door to be replaced as per door schedule, required opening shall be prepared as required

D - Existing simulated brick to be removed, prepare surface and stuccoed with smooth surface to match adjacent

E - Door as per door schedule, remove existing surface as required for installation of new door

F - Fixed glass as per window/door schedule, remove existing surface as required for installation of new fenestration

G - Existing operable window to be replaced as per window schedule remove existing surface as required for installation of new fenestration

H - Existing garage door to be replaced with new hollow metal garage door as per owner, remove existing surface as required for installation of new fenestration

J - Existing wall A/C, door and/or vents to be removed enclose opening w/ CBS, finish exterior & interior to match adjacent

+13.9 / -57.8 WIND PRESSURES

DINING ROOM ADDITION — PATIO

TOP OF EXISTING CONC. BEAM ± 11'-7" V.I.F.

TOP OF EXISTING CONC. BEAM ± 10'-1" V.I.F.

FINISH FLOOR ± 0'-0"

EAST ELEVATION

0 4

DINING ROOM ADDITION

TOP OF EXISTING BEAM ± 11'-7" V.I.F.

TOP OF EXISTING BEAM ± 10'-1" V.I.F.

TOP OF EXISTING CONC. BEAM ± 10'-6" V.I.F.

TOP OF FINISH FLOOR ± 0'-0"

FINISH FLOOR ± 0'-0"

NORTH ELEVATION

0 4

DINING ROOM ADDITION

existing metal close up stair and railing penetration w/ ⅝" plywood over 2x6 @ 16" OC1 roof & stucco to match existing

existing metal stair and railing to be removed

TOP OF EXISTING CONC BEAM ± 10'-6" V.I.F.

FINISH FLOOR ± 0'-0"

WEST ELEVATION

0 4

TOP OF EXIS'G BEAM @ LIVING ROOM ± 11'-7" V.I.F. TOP OF EXIS'G BEAM @ BEDROOM ± 10'-1" V.I.F.

TOP OF EXISTING CONC BEAM ± 10'-1" V.I.F.

TOP OF FINISH FLOOR ± 0'-0"

FINISH FLOOR ± 0'-0"

SOUTH ELEVATION

0 4

AE 000 9/6/2 2/2/04

JORGE MIGUEL HERNANDEZ
AR REGISTRATION NO. 89442
ARCHITECTURE
1811 N. 29th AVENUE, SUITE 203
HOLLYWOOD, FLORIDA

BUILDING PERMIT SET
FOR CONSTRUCTION

a restoration & addition for the

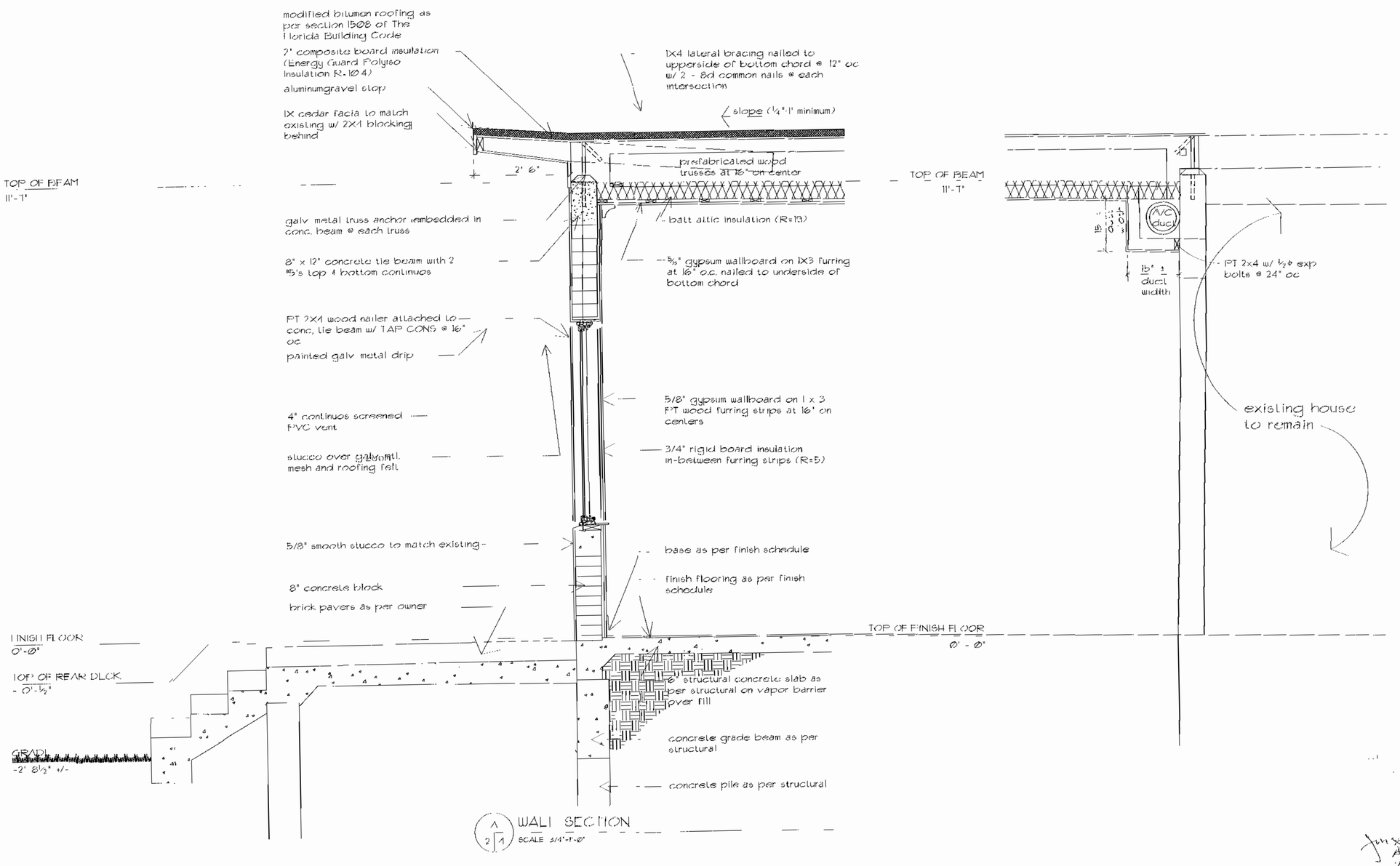
BULLOCK RESIDENCE

1201 N. South Lake Drive Hollywood, Fla.

Revisions

Date: 2-27-04

Sheet A-3 of 4



JORGE MIGUEL HERNANDEZ
ARCHITECTURE
AR 0019152
HOLLYWOOD FLORIDA

BUILDING PERMIT SET
FOR CONSTRUCTION

a restoration & addition for the
BULLOCK RESIDENCE
1201 N. South Lake Drive Hollywood, Fla.

Revisions

Date:
2-27-04

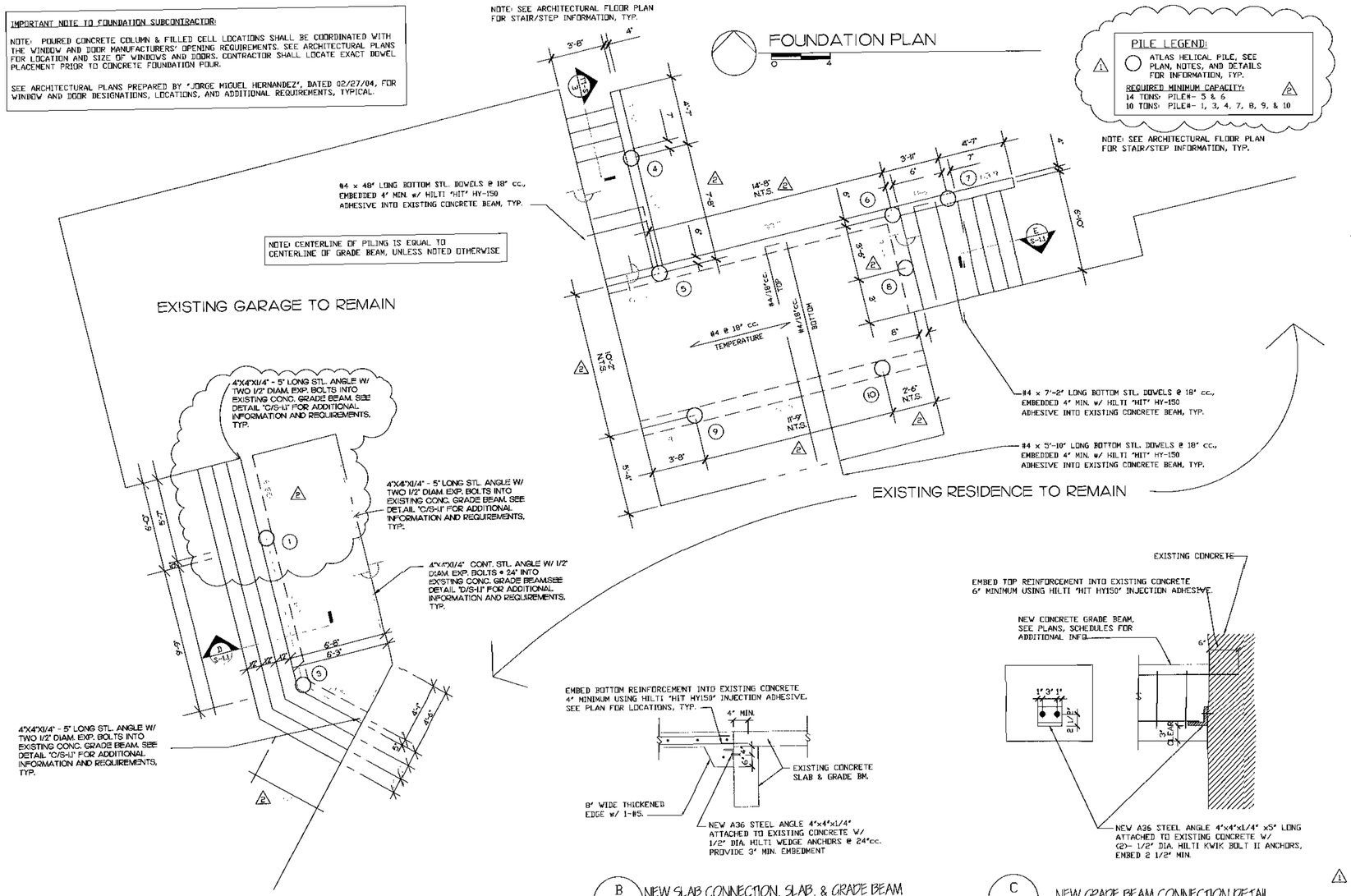
Sheet
4 of 4

Jorge Hernandez
AR 0019152
4/12/04

IMPORTANT NOTE TO FOUNDATION SUBCONTRACTOR:

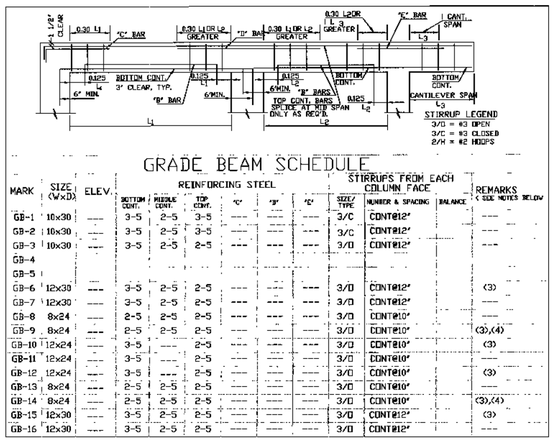
NOTE: POURED CONCRETE COLUMN & FILLED CELL LOCATIONS SHALL BE COORDINATED WITH THE WINDOW AND DOOR MANUFACTURERS' OPENING REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR LOCATION AND SIZE OF WINDOWS AND DOORS. CONTRACTOR SHALL LOCATE EXACT DOWEL PLACEMENT PRIOR TO CONCRETE FOUNDATION POUR.

SEE ARCHITECTURAL PLANS PREPARED BY "JORGE MIGUEL HERNANDEZ", DATED 02/27/04, FOR WINDOW AND DOOR DESIGNATIONS, LOCATIONS, AND ADDITIONAL REQUIREMENTS, TYPICAL.



B S-1.1 NEW SLAB CONNECTION, SLAB, & GRADE BEAM
SCALE: N.T.S.

C S-1.1 NEW GRADE BEAM CONNECTION DETAIL
SCALE: N.T.S.



GRADE BEAM SCHEDULE

MARK	SIZE (WxD)	ELEV.	REINFORCING STEEL: BOTTOM CONT.	MIDDLE CONT.	TOP CONT.	"C"	"B"	"E"	STIRRUPS FROM EACH COLUMN FACE: SIZE/ TYPE	NUMBER & SPACING	BALANCE	REMARKS (SEE NOTES BELOW)
GB-1	10x30	----	3-5	2-5	3-5	----	----	----	3/C	CONT@12"		----
GB-2	10x30	----	3-5	2-5	3-5	----	----	----	3/C	CONT@12"		----
GB-3	10x30	----	3-5	2-5	2-5	----	----	----	3/O	CONT@12"		----
GB-4												
GB-5												
GB-6	12x30	----	3-5	2-5	2-5	----	----	----	3/O	CONT@12"		(3)
GB-7	12x30	----	3-5	2-5	2-5	----	----	----	3/O	CONT@12"		----
GB-8	8x24	----	2-5	2-5	2-5	----	----	----	3/O	CONT@10"		----
GB-9	8x24	----	2-5	2-5	2-5	----	----	----	3/O	CONT@10"		(3),(4)
GB-10	12x24	----	3-5	----	2-5	----	----	----	3/O	CONT@10"		(3)
GB-11	12x24	----	3-5	----	2-5	----	----	----	3/O	CONT@10"		----
GB-12	12x24	----	3-5	----	2-5	----	----	----	3/O	CONT@10"		(3)
GB-13	8x24	----	2-5	2-5	2-5	----	----	----	3/O	CONT@10"		----
GB-14	8x24	----	2-5	2-5	2-5	----	----	----	3/O	CONT@10"		(3),(4)
GB-15	12x30	----	3-5	2-5	2-5	----	----	----	3/O	CONT@12"		(3)
GB-16	12x30	----	3-5	2-5	2-5	----	----	----	3/O	CONT@12"		----

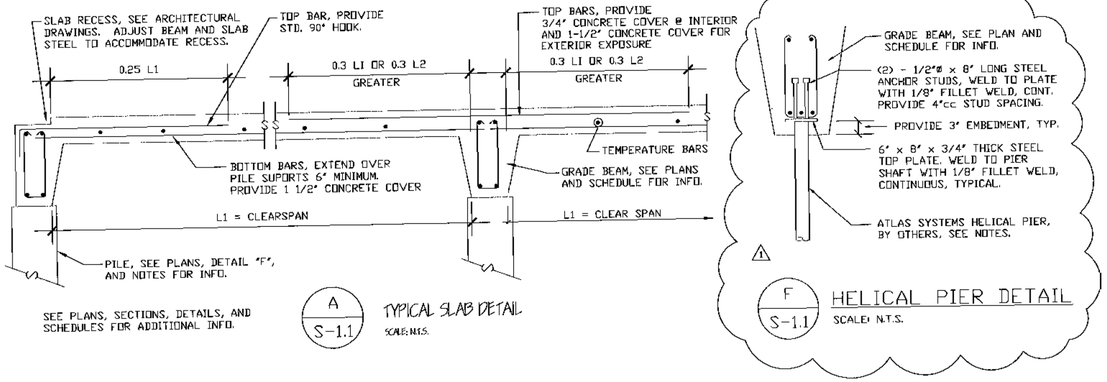
BEAM SCHEDULE NOTES:
1. THE LARGER SIZE TOP RE-BAR OF ADJACENT BEAMS SHALL EXTEND BEYOND THE SUPPORT TO THE MID-SPAN SPLICE AND SUBSTITUTE FOR THE SMALLER SIZE TOP RE-BAR, WHERE POSSIBLE.
2. SEE BEAM DIAGRAM, DETAILS, SECTIONS, AND PLANS FOR ADDITIONAL INFORMATION.
3. TOP STEEL SHALL BE CONTINUOUS AT CANTILEVER BEAMS, SEE BEAM DIAGRAM.
4. BEAM MAY BE TAPERED TO 12" MINIMUM DEPTH AT FREE END.

GENERAL NOTES: (SEE STRUCTURAL NOTES FOR ADDITIONAL SPECIFICATIONS)
1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. ALL DIMENSIONS & CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE PRECEDING WITH WORK. FIGURE DIMENSIONS TAKE PRECEDENT OVER SCALE DIMENSIONS AT ALL TIMES.
3. COORDINATE FOUNDATION PLANS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, & ELECTRICAL DRAWINGS TO ACCOMMODATE: STEPS, DEPRESSIONS, SLOPES, FINISHES, OPENINGS, AND DOWELS. SEE PLANS PREPARED BY "JORGE MIGUEL HERNANDEZ", DATED 02/27/04, FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYPICAL.
4. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES, ERRORS, OR OMISSIONS ON THE PLANS.
5. DESIGN LIVE LOADS: LIVING AREA = 40 PSF

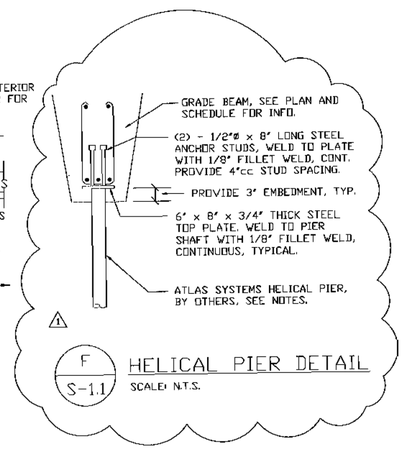
FOUNDATION SLAB NOTES:
1. ALL SLABS ARE 6 IN. THICK MINIMUM REINFORCED CONCRETE. UNLESS SHOWN OTHERWISE, TOP STEEL IS #4 @ 18"cc; BOTTOM STEEL IS #4@18"cc; AND TEMPERATURE STEEL IS #4 @ 18"cc.
2. CONCRETE SLABS SHALL BE PLACED ON WELL GRADED FILL TO INSURE UNIFORM THICKNESS AND REQUIRED REINFORCEMENT CONCRETE PROTECTION. PROVIDE 6 MIL. POLYETHYLENE VAPOR BARRIER AND TERMITE TREATMENT.
3. COORDINATE FOUNDATION PLANS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS TO ACCOMMODATE: STEPS, DEPRESSIONS, SLOPES, FINISHES, OPENINGS, AND DOWELS.
4. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES, ERRORS OR OMISSIONS ON THE PLANS.
5. PROVIDE MIN 1-1/2" CONCRETE COVER FOR TOP BARS AT EXTERIOR UNPROTECTED SURFACES.

STRUCTURAL FOUNDATION NOTES:
1. ALL PILE DESIGN, DRIVING REQUIREMENTS, FIELD LOGGING, AND BEARING CAPACITY CERTIFICATION SHALL BE BY OTHERS, ALL SUCH SERVICES SHALL BE PERFORMED BY A FLORIDA REGISTERED ENGINEER.
2. ALL PILING SHALL BE ATLAS HELICAL PILES; INSTALLED TO ATTAIN THE MINIMUM LOAD CAPACITIES DESIGNATED ON PLANS, SEE PILE LEGEND.
3. ALL CONCRETE WORK SHALL CONFORM TO ACI 301 LATEST EDITION.
4. ALL CONCRETE SHALL CONFORM TO ACI 318, LATEST EDITION, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF f' c =3000 psi.
5. ALL REINFORCING STEEL HALL BE ASTM A615, GRADE 60.
6. ALL LAPS AN SPLICES SHALL CONFORM TO ACI 318, LATEST EDITION N.
7. ALL DETAILING OF CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318 LATEST ADDITION.

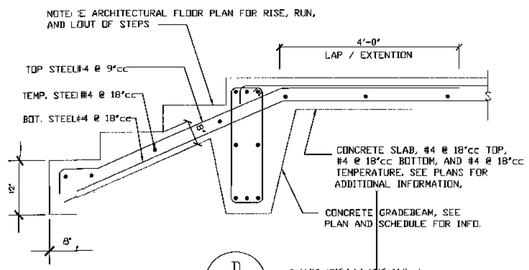
03-11-05: PILING REVISED TO ATLAS HELICAL PILES
03-21-05: GB-4, GB-5, PILE #2, AND PLANTER OMITTED. SLAB AND STEPS EXTENDED. DIMENSIONS REVISED PER FIELD CONDITIONS.



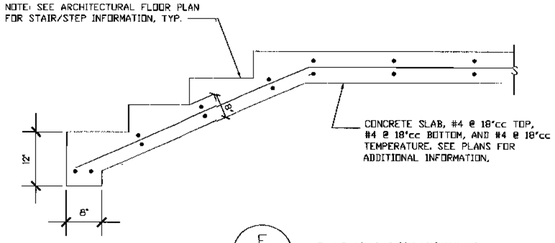
A S-1.1 TYPICAL SLAB DETAIL
SCALE: N.T.S.



F S-1.1 HELICAL PIER DETAIL
SCALE: N.T.S.



D S-1.1 STAIR-BEAM DETAIL 1
SCALE: N.T.S.



E S-1.1 SLAB AND STEP DETAIL 2
SCALE: N.T.S.

JOHN P. THOMPSON, JR.
STRUCTURAL ENGINEER
912 NORTH LIVA COURT HOLLYWOOD, FLORIDA
P.E. # 52709 (954) 894-0966

*PILING AND GRADE BEAM FOUNDATION PLAN for:
BULLOCK RESIDENCE
1230 N. SOUTHLAKE DRIVE HOLLYWOOD, FLORIDA
DATE: 07/06/04 PROJECT # 04C045

S-1.1

IMPORTANT NOTE TO FOUNDATION SUBCONTRACTOR:

NOTE: POURED CONCRETE COLUMN & FILLED CELL LOCATIONS SHALL BE COORDINATED WITH THE WINDOW AND DOOR MANUFACTURERS' DETAILING REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR LOCATION AND SIZE OF WINDOWS AND DOORS. CONTRACTOR SHALL INDICATE EXACT DOWEL PLACEMENT PRIOR TO CONCRETE FOUNDATION POUR.

SEE ARCHITECTURAL PLANS PREPARED BY "JORGE MIGUEL HERNANDEZ", DATED 02/27/04, FOR WINDOW AND DOOR DESIGNATIONS, LOCATIONS, AND ADDITIONAL REQUIREMENTS, TYPICAL.

NOTE: SEE ARCHITECTURAL FLOOR PLAN FOR STAIR/STEP INFORMATION, TYP.

FOUNDATION PLAN

PILE LEGEND:
ATLAS HELICAL PILE, SEE PLAN, NOTES, AND DETAILS FOR INFORMATION, TYP.
REQUIRED MINIMUM CAPACITY:
14 TONS: PILE#s 5 & 6
10 TONS: PILE# 1, 2, 3, 4, 7, 8, 9, & 10

NOTE: SEE ARCHITECTURAL FLOOR PLAN FOR STAIR/STEP INFORMATION, TYP.

#4 x 48" LONG BOTTOM STL. DOWELS @ 18" cc., EMBEDDED 4" MIN. w/ HILTI "HIT" HY-150 ADHESIVE INTO EXISTING CONCRETE BEAM, TYP.

NOTE: CENTERLINE OF PILING IS EQUAL TO CENTERLINE OF GRADE BEAM, UNLESS NOTED OTHERWISE.

EXISTING GARAGE TO REMAIN

#4 @ 18" cc. TEMPERATURE

#4 x 7'-2" LONG BOTTOM STL. DOWELS @ 18" cc., EMBEDDED 4" MIN. w/ HILTI "HIT" HY 150 ADHESIVE INTO EXISTING CONCRETE BEAM, TYP.

#4 x 5'-10" LONG BOTTOM STL. DOWELS @ 18" cc., EMBEDDED 4" MIN. w/ HILTI "HIT" HY 150 ADHESIVE INTO EXISTING CONCRETE BEAM, TYP.

EXISTING RESIDENCE TO REMAIN

4"X4"X1/4" - 5' LONG STL. ANGLE W/ TWO 1/2" DIAM. EXP. BOLTS INTO EXISTING CONC. GRADE BEAM. SEE DETAIL "C/S-1" FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYP.

OPEN (PLANTER)

4"X4"X1/4" - 5' LONG STL. ANGLE W/ TWO 1/2" DIAM. EXP. BOLTS INTO EXISTING CONC. GRADE BEAM. SEE DETAIL "C/S-1" FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYP

4"X4"X1/4" CONT. STL. ANGLE W/ 1/2" DIAM. EXP. BOLTS @ 24" INTO EXISTING CONC. GRADE BEAM SEE DETAIL "C/S-1" FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYP.

4"X4"X1/4" - 5' LONG STL. ANGLE W/ TWO 1/2" DIAM. EXP. BOLTS INTO EXISTING CONC. GRADE BEAM. SEE DETAIL "C/S-1" FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYP.

EMBED BOTTOM REINFORCEMENT INTO EXISTING CONCRETE 4" MINIMUM USING HILTI "HIT HY150" INJECTION ADHESIVE SEE PLAN FOR LOCATIONS, TYP.

8" WIDE THICKENED EDGE w/ 1 #5.

EXISTING CONCRETE SLAB & GRADE BM.

NEW A36 STEEL ANGLE 4"x4"x1/4" ATTACHED TO EXISTING CONCRETE W/ 1/2" DIA. HILTI WEDGE ANCHORS @ 24"cc. PROVIDE 3" MIN. EMBEDMENT

B / S 1.1 — NEW SLAB CONNECTION, SLAB, & GRADE BEAM
SCALE: N.T.S.

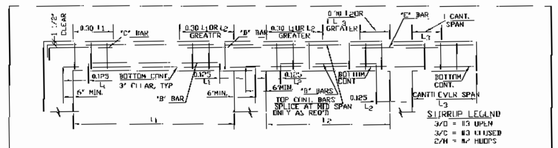
EXISTING CONCRETE

EMBED TOP REINFORCEMENT INTO EXISTING CONCRETE 6" MINIMUM USING HILTI "HIT HY150" INJECTION ADHESIVE.

NEW CONCRETE GRADE BEAM, SEE PLANS, SCHEDULES FOR ADDITIONAL INFO.

NEW A36 STEEL ANGLE 4"x4"x1/4" x5" LONG ATTACHED TO EXISTING CONCRETE W/ (2)- 1/2" DIA. HILTI KWIK BULT II ANCHORS, EMBED 2 1/2" MIN.

C / S-1.1 — NEW GRADE BEAM CONNECTION DETAIL
SCALE: N.T.S.



GRADE BEAM SCHEDULE

MARK	SIZE (WxD)	ELEV.	REINFORCING STEEL: BOTTOM CONT.	REINFORCING STEEL: MIDDLE CONT.	REINFORCING STEEL: TOP CONT.	REINFORCING STEEL: "C"	REINFORCING STEEL: "B"	REINFORCING STEEL: "L"	STIRRUPS FROM EACH COLUMN FACE: SIZE/TYPE	STIRRUPS FROM EACH COLUMN FACE: NUMBER & SPACING	STIRRUPS FROM EACH COLUMN FACE: BALANCE	REMARKS (SEE NOTES BELOW)
GB-1	10x30	-	3-5	2-5	3-5	---	---	-	3/C	CONT@12"		-
GB-2	10x30	-	3-5	2-5	3-5	-	-	---	3/C	CONT@12"		---
GB-3	10x30	--	3-5	2-5	2-5	---	---	-	3/H	CONT@12"		-
GB-4	10x30	--	3-5	2-5	2-5	---	--	-	3/D	CONT@12"		
GB-5	10x30	-	3-5	2-5	2-5	---	---	---	3/D	CONT@12"		---
GB-6	12x30	- -	3-5	2-5	2-5	---	---	---	3/D	CONT@12"		(3)
GB-7	12x30	---	3-5	2-5	2-5	- -	-	---	3/D	CONT@12"		---
GB-8	8x24	-	2-5	2-5	2-5	---	---	---	3/D	CONT@10"		---
GB-9	8x24	---	2-5	2-5	2-5	- -	-	---	3/D	CONT@10"		(3),(4)
GB-10	12x24	---	3-5	-	2-5	--	---	---	3/D	CONT@10"		(3)
GB-11	12x24	---	3-5	- -	2-5	---	---	---	3/D	CONT@10"		---
GB-12	12x24	-	3-5	---	2-5	---	---	---	3/D	CONT@10"		(3)
GB-13	8x24	--	2-5	2-5	2-5	--	---	-	3/H	CONT@10"		-
GB-14	8x24	--	2-5	2-5	2-5	---	---	---	3/D	CONT@10"		(3),(4)
GB-15	12x30	---	3-5	2-5	2-5	---	---	-	3/D	CONT@12"		(3)
GB-16	12x30	---	3-5	2-5	2-5	--	--	-	3/H	CONT@12"		--

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2. ALL PILING SHALL BE ATLAS HELICAL PILES, INSTALLED TO ATTAIN THE MINIMUM LOAD CAPACITIES DESIGNATED ON PLANS. SEE PILE LEGEND.
3. ALL CONCRETE WORK SHALL CONFORM TO ACI 301 LATEST EDITION.
4. ALL CONCRETE SHALL CONFORM TO ACI 318, LATEST EDITION, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF f'c =3000 psi.
5. ALL REINFORCING STEEL HALL BE ASTM A615, GRADE 60.
6. ALL LAPS AN SPLICES SHALL CONFORM TO ACI 318, LATEST EDITION N.
7. ALL DETAILING OF CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318 LATEST ADDITION.

03-11-05 PILING REVISED TO ATLAS HELICAL PILES

SLAB RECESS, SEE ARCHITECTURAL DRAWINGS. ADJUST BEAM AND SLAB STEEL TO ACCOMMODATE RECESS.

TOP BAR, PROVIDE STD. 90° HOOK.

TOP BARS, PROVIDE 3/4" CONCRETE COVER @ INTERIOR AND 1-1/2" CONCRETE COVER FOR EXTERIOR EXPOSURE.

0.25 L1

0.3 L1 OR 0.3 L2 GREATER

0.3 L1 OR 0.3 L2 GREATER

BOTTOM BARS, EXTEND OVER PILE SUPORTS 6" MINIMUM. PROVIDE 1 1/2" CONCRETE COVER

TEMPERATURE BARS

GRADE BEAM, SEE PLANS AND SCHEDULE FOR INFO.

L1 CLEARSPAN

L1 = CLEAR SPAN

PILE, SEE PLANS, DETAIL "F", AND NOTES FOR INFO.

SEE PLANS, SECTIONS, DETAILS, AND SCHEDULES FOR ADDITIONAL INFO.

A / S-1.1 — TYPICAL SLAB DETAIL
SCALE: N.T.S.

GRADE BEAM, SEE PLAN AND SCHEDULE FOR INFO.

(2) - 1/2"Ø x 8" LONG STEEL ANCHOR STUDS, WELD TO PLATE WITH 1/8" FILLET WELD, CONT. PROVIDE 4"cc STUD SPACING.

PROVIDE 3" EMBEDMENT, TYP.

6" x 8" x 3/4" THICK STEEL TOP PLATE. WELD TO PIER SHAFT WITH 1/8" FILLET WELD, CONTINUOUS, TYPICAL.

ATLAS SYSTEMS HELICAL PIER, BY OTHERS, SEE NOTES.

1 / S-1.1 — HELICAL PIER DETAIL
SCALE: N.T.S.

NOTE: SEE ARCHITECTURAL FLOOR PLAN FOR RISE, RUN, AND LAYOUT OF STEPS

4'-0" LAP / EXTENTION

TOP STEEL, #4 @ 9"cc

ILMP. STEEL, #4 @ 18"cc

BOT. STEEL, #4 @ 18"cc

CONCRETE SLAB, #4 @ 18"cc TOP, #4 @ 18"cc BOTTOM, AND #4 @ 18"cc TEMPERATURE. SEE PLANS FOR ADDITIONAL INFORMATION.

CONCRETE GRADEBEAM, SEE PLAN AND SCHEDULE FOR INFO.

D / S-1.1 — STAIR-BEAM DETAIL 1
SCALE: N.T.S.

NOTE: SEE ARCHITECTURAL FLOOR PLAN FOR STAIR/STEP INFORMATION, TYP.

CONCRETE SLAB, #4 @ 18"cc TOP, #4 @ 18"cc BOTTOM, AND #4 @ 18"cc TEMPERATURE SEE PLANS FOR ADDITIONAL INFORMATION.

E / S-1.1 — SLAB AND STEP DETAIL 2
SCALE: N.T.S.

JOHN P. THOMPSON, JR.
STRUCTURAL ENGINEER
5 2 NORTH 14TH COURT HOLLYWOOD, FLORIDA
(954) 924-0886
FLORIDA REGISTRATION NO. 0045705

PROJECT: BULLOCK RESIDENCE
20 N SOUTHLAKE DR HOLLYWOOD, FLORIDA
DATE: 07.06.04 PROJECT # 04-045

S-1.1

IMPORTANT NOTE TO FOUNDATION SUBCONTRACTOR:

NOTE: POURED CONCRETE COLUMN & FILLED CELL LOCATIONS SHALL BE COORDINATED WITH THE WINDOW AND DOOR MANUFACTURERS' OPENING REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR LOCATION AND SIZE OF WINDOWS AND DOORS. CONTRACTOR SHALL LOCATE EXACT DOWEL PLACEMENT PRIOR TO CONCRETE FOUNDATION POUR.

SEE ARCHITECTURAL PLANS PREPARED BY "JORGE MIGUEL HERNANDEZ", DATED 02/27/04, FOR WINDOW AND DOOR DESIGNATIONS, LOCATIONS, AND ADDITIONAL REQUIREMENTS, TYPICAL.

NOTE: SEE ARCHITECTURAL FLOOR PLAN FOR STAIR/STEP INFORMATION, TYP.

FOUNDATION PLAN

0 4

CONCRETE PILE LEGEND:
PILES SHALL BE:
○ 14" DIA. - 17 TONS

NOTE: SEE ARCHITECTURAL FLOOR PLAN FOR STAIR/STEP INFORMATION, TYP..

#4 x 48" LONG BOTTOM STL. DOWELS @ 18" cc., EMBEDDED 4" MIN. w/ HILTI "HIT" HY-150 ADHESIVE INTO EXISTING CONCRETE BEAM, TYP.

NOTE: CENTERLINE OF PILING IS EQUAL TO CENTERLINE OF GRADE BEAM, UNLESS NOTED OTHERWISE

EXISTING GARAGE TO REMAIN

#4 @ 18" cc. TEMPERATURE

#4 x 7'-2" LONG BOTTOM STL. DOWELS @ 18" cc., EMBEDDED 4" MIN. w/ HILTI "HIT" HY-150 ADHESIVE INTO EXISTING CONCRETE BEAM, TYP.

#4 x 5'-10" LONG BOTTOM STL. DOWELS @ 18" cc., EMBEDDED 4" MIN. w/ HILTI "HIT" HY-150 ADHESIVE INTO EXISTING CONCRETE BEAM, TYP.

EXISTING RESIDENCE TO REMAIN

4"X4"X1/4" - 5' LONG STL. ANGLE W/ TWO 1/2" DIAM. EXP. BOLTS INTO EXISTING CONC. GRADE BEAM. SEE DETAIL "C/S-1" FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYP.

OPEN (PLANTER)

4"X4"X1/4" - 5" LONG STL. ANGLE W/ TWO 1/2" DIAM. EXP. BOLTS INTO EXISTING CONC. GRADE BEAM. SEE DETAIL "C/S-1" FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYP.

4"X4"X1/4" CONT. STL. ANGLE W/ 1/2" DIAM. EXP. BOLTS @ 24" INTO EXISTING CONC. GRADE BEAM.SEE DETAIL "D/S-1" FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYP.

4"X4"X1/4" - 5' LONG STL. ANGLE W/ TWO 1/2" DIAM. EXP. BOLTS INTO EXISTING CONC. GRADE BEAM. SEE DETAIL "C/S-1" FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYP.

EXISTING CONCRETE

EMBED TOP REINFORCEMENT INTO EXISTING CONCRETE 6" MINIMUM USING HILTI "HIT HY150" INJECTION ADHESIVE.

NEW CONCRETE GRADE BEAM, SEE PLANS, SCHEDULES FOR ADDITIONAL INFO.

EMBED BOTTOM REINFORCEMENT INTO EXISTING CONCRETE 4" MINIMUM USING HILTI "HIT HY150" INJECTION ADHESIVE. SEE PLAN FOR LOCATIONS, TYP.

4" MIN.

EXISTING CONCRETE SLAB & GRADE BM.

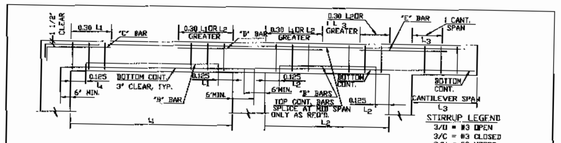
8" WIDE THICKENED EDGE w/ 1-#5.

NEW A36 STEEL ANGLE 4"x4"x1/4" ATTACHED TO EXISTING CONCRETE W/ 1/2" DIA. HILTI WEDGE ANCHORS @ 24"cc. PROVIDE 3" MIN. EMBEDMENT

NEW A36 STEEL ANGLE 4"x4"x1/4" x5" LONG ATTACHED TO EXISTING CONCRETE W/ (2)- 1/2" DIA. HILTI KWIK BOLT II ANCHORS, EMBED @ 1/2" MIN.

B S-1.1 NEW SLAB CONNECTION, SLAB, & GRADE BEAM
SCALE: N.T.S.

C S-1.1 NEW GRADE BEAM CONNECTION DETAIL
SCALE: N.T.S.



GRADE BEAM SCHEDULE

MARK	SIZE (WxD)	ELEV.	REINFORCING STEEL: BOTTOM CONT.	MIDDLE CONT.	TOP CONT.	"C"	"B"	"C"	STIRRUPS FROM EACH COLUMN FACE: SIZE/TYPE	NUMBER & SPACING	BALANCE	REMARKS (SEE NOTES BELOW)
GB-1	10x30	---	3-S	2-S	3-S	---	---	---	3/C	CONT@12"		---
GB-2	16x30	---	3-S	2-S	3-S	---	---	---	3/C	CONT@12"		---
GB-3	10x30	---	3-S	2-S	2-S	---	---	---	3/O	CONT@12"		---
GB-4	10x30	---	3-S	2-S	2-S	---	---	---	3/O	CONT@12"		---
GB-5	10x30	---	3-S	2-S	2-S	---	---	---	3/O	CONT@12"		---
GB-6	12x30	---	3-S	2-S	2-S	---	---	---	3/O	CONT@12"		(3)
GB-7	12x30	---	3-S	2-S	2-S	---	---	---	3/O	CONT@12"		---
GB-8	8x24	---	2-S	2-S	2-S	---	---	---	3/O	CONT@10"		---
GB-9	8x24	---	2-S	2-S	2-S	---	---	---	3/O	CONT@10"		(3),(4)
GB-10	12x24	---	3-S	---	2-S	---	---	---	3/O	CONT@10"		(3)
GB-11	12x24	---	3-S	---	2-S	---	---	---	3/O	CONT@10"		---
GB-12	12x24	---	3-S	---	2-S	---	---	---	3/O	CONT@10"		(3)
GB-13	8x24	---	2-S	2-S	2-S	---	---	---	3/O	CONT@10"		---
GB-14	8x24	---	2-S	2-S	2-S	---	---	---	3/O	CONT@10"		(3),(4)
GB-15	12x30	---	3-S	2-S	2-S	---	---	---	3/O	CONT@12"		(3)
GB-16	12x30	---	3-S	2-S	2-S	---	---	---	3/O	CONT@12"		---

BEAM SCHEDULE NOTES:
1. THE LARGER SIZE TOP RE-BAR OF ADJACENT BEAMS SHALL EXTEND BEYOND THE SUPPORT TO THE MID-SPAN SPLICE AND SUBSTITUTE FOR THE SMALLER SIZE TOP RE-BAR, WHERE POSSIBLE.
2. SEE BEAM DIAGRAM, DETAILS, SECTIONS, AND PLANS FOR ADDITIONAL INFORMATION.
3. TOP STEEL SHALL BE CONTINUOUS AT CANTILEVER BEAMS, SEE BEAM DIAGRAM.
4. BEAM MAY BE TAPERED TO 12" MINIMUM DEPTH AT FREE END.

GENERAL NOTES: (SEE STRUCTURAL NOTES FOR ADDITIONAL SPECIFICATIONS)
1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. ALL DIMENSIONS & CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE PROCEEDING WITH WORK. FIGURE DIMENSIONS TAKE PRECEDENT OVER SCALE DIMENSIONS AT ALL TIMES.
3. COORDINATE FOUNDATION PLANS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, & ELECTRICAL DRAWINGS TO ACCOMMODATE: STEPS, DEPRESSIONS, SLOPES, FINISHES, OPENINGS, AND DOWELS. SEE PLANS PREPARED BY "JORGE MIGUEL HERNANDEZ", DATED 02/27/04, FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYPICAL.
4. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES, ERRORS, OR OMISSIONS IN THE PLANS.
5. DESIGN LIVE LOADS: LIVING AREA = 40 PSF

FOUNDATION SLAB NOTES:
1. ALL SLABS ARE 6 IN. THICK MINIMUM REINFORCED CONCRETE. UNLESS SHOWN OTHERWISE, TOP STEEL IS #4 @ 18"cc; BOTTOM STEEL IS #4@18"cc; AND TEMPERATURE STEEL IS #4 @ 18"cc.
2. CONCRETE SLABS SHALL BE PLACED ON WELL GRADED FILL TO INSURE UNIFORM THICKNESS AND REQUIRED REINFORCEMENT CONCRETE PROTECTION. PROVIDE 6 MIL. POLYETHYLENE VAPOR BARRIER AND TERMITE TREATMENT.
3. COORDINATE FOUNDATION PLANS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS TO ACCOMMODATE: STEPS, DEPRESSIONS, SLOPES, FINISHES, OPENINGS, AND DOWELS.
4. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES, ERRORS OR OMISSIONS ON THE PLANS.
5. PROVIDE MIN 1-1/2" CONCRETE COVER FOR TOP BARS AT EXTERIOR UNPROTECTED SURFACES.

STRUCTURAL FOUNDATION NOTES:
1. ALL PILE DESIGN, DRIVING REQUIREMENTS, FIELD LOGGING, AND BEARING CAPACITY CERTIFICATION SHALL BE BY OTHERS, ALL SUCH SERVICES SHALL BE PERFORMED BY A FLORIDA REGISTERED ENGINEER.
2. ALL PILING SHALL BE 14 IN. MIN. DIA.AUGERCAST CONCRETE, INSTALLED TO ATTAIN THE MINIMUM LOAD CAPACITIESS DESIGNATED: 17 TON BEARING; 1.25 TON LATERAL SEE SOILS ENGINEER REPORT FOR PILE DIAMETER/DEPTH REQUIREMENTS.
3. ALL CONCRETE WORK SHALL CONFORM TO ACI 301 LATEST EDITION.
4. ALL CONCRETE SHALL CONFORM TO ACI 318, LATEST EDITION, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF f' c =3000 psi.
5. ALL REINFORCING STEEL HALLL BE ASTM A615, GRADE 60.
6. ALL LAPS AN SPLICES SHALL CONFORM TO ACI 318, LATEST EDITION N.
7. ALL DETAILING OF CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318 LATEST ADDITION.

SLAB RECESS, SEE ARCHITECTURAL DRAWINGS. ADJUST BEAM AND SLAB STEEL TO ACCOMMODATE RECESS.

TOP BAR, PROVIDE STD. 90° HOOK.

TOP BARS, PROVIDE 3/4" CONCRETE COVER @ INTERIOR AND 1-1/2" CONCRETE COVER FOR EXTERIOR EXPOSURE

0.25 L1 | 0.3 L1 OR 0.3 L2 GREATER | 0.3 L1 OR 0.3 L2 GREATER

BOTTOM BARS, EXTEND OVER PILE SUPORTS 6" MINIMUM. PROVIDE 1 1/2" CONCRETE COVER

TEMPERATURE BARS

GRADE BEAM, SEE PLANS AND SCHEDULE FOR INFO.

L1 = CLEARSPAN | L1 = CLEAR SPAN

CONCRETE PILE, SEE PLANS AND NOTES FOR INFO.

EXTEND PILE REINFORCEMENT 18" MIN. INTO BEAM, (NOT SHOWN FOR CLARITY).

SEE PLANS, SECTIONS, DETAILS, AND SCHEDULES FOR ADDITIONAL INFO.

A S-1.1 TYPICAL SLAB DETAIL
SCALE: N.T.S.

NOTE: SEE ARCHITECTURAL FLOOR PLAN FOR RISE, RUN, AND LAYOUT OF STEPS

TOP STEEL, #4 @ 9"cc

TEMP. STEEL, #4 @ 18"cc

BOT. STEEL, #4 @ 18"cc

4'-0" LAP / EXTENTION

12"

8"

CONCRETE SLAB, #4 @ 18"cc TOP, #4 @ 18"cc BOTTOM, AND #4 @ 18"cc TEMPERATURE. SEE PLANS FOR ADDITIONAL INFORMATION,

CONCRETE GRADEBEAM, SEE PLAN AND SCHEDULE FOR INFO.

D S-1.1 STAIR-BEAM DETAIL 1
SCALE: N.T.S.

NOTE: SEE ARCHITECTURAL FLOOR PLAN FOR STAIR/STEP INFORMATION, TYP.

12"

8"

CONCRETE SLAB, #4 @ 18"cc TOP, #4 @ 18"cc BOTTOM, AND #4 @ 18"cc TEMPERATURE. SEE PLANS FOR ADDITIONAL INFORMATION,

E S-1.1 SLAB AAND STEP DETAIL 2
SCALE: N.T.S.

John P. Thompson, P.E.
PERMIT SET
Date: JUL 06 2004

7/6/04

JOHN P. THOMPSON, JR.
STRUCTURAL ENGINEER
512 NORTHLINA COURT HOLLYWOOD, FLORIDA
P.E. # 52705 (954) 494-3966

PILING AND GRADE-BEAM FOUNDATION PLAN for:
BULLOCK RESIDENCE
1210 N. SOUTHLAKE DRIVE HOLLYWOOD, FLORIDA
DATE: 07/06/04 PROJECT # 04045

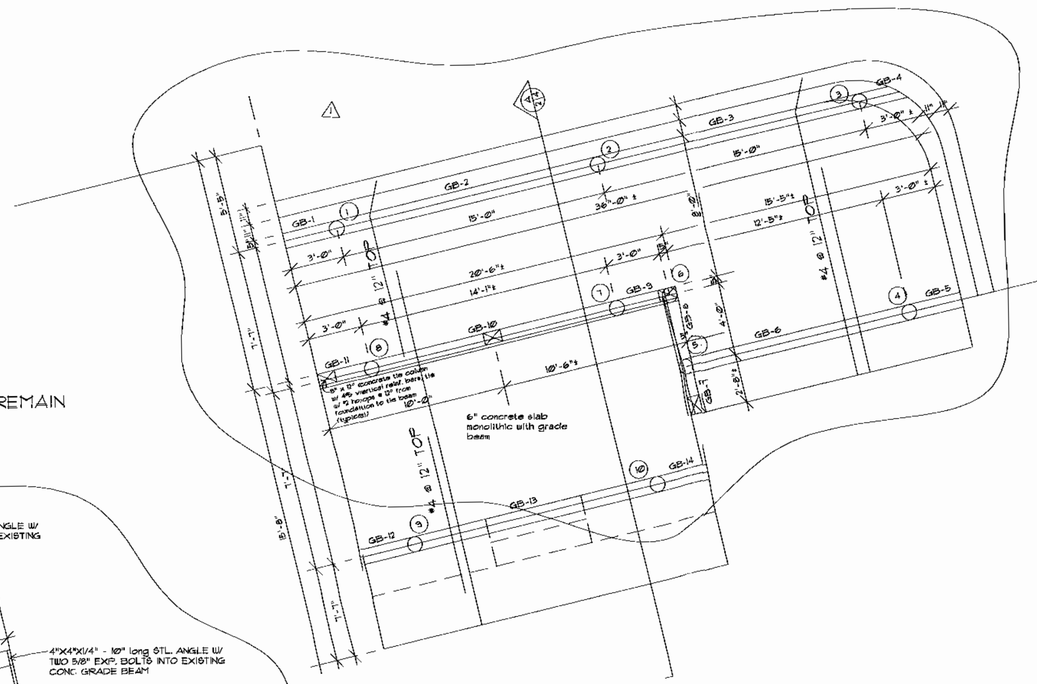
S-1.1

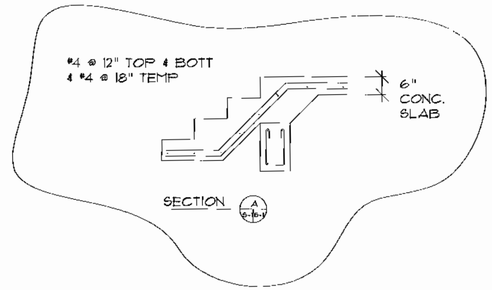
OCT

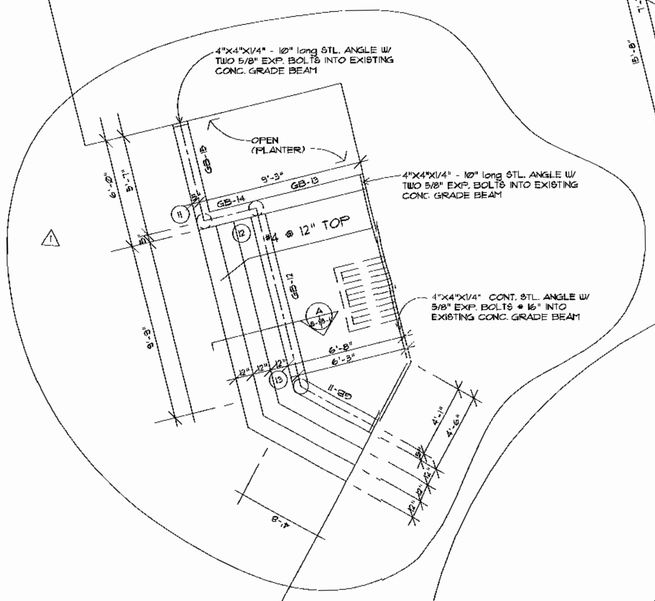
GRADE BEAM SCHEDULE

MARK	TOP OF BM. ELEVATION	SIZE W	SIZE D	REINFORCEMENT BOTT.	REINFORCEMENT TOP	REINFORCEMENT "E"	HOOPS SIZE	HOOPS SPACING E/E	REMARKS
GB-1	-3'-1"	10"	24"	2 #6	2 #6	-	#3	4 @ 10" ea. end	
GB-2	-3'-1"	10"	24"	2 #7	2 #6	-	#3	10 @ 10" ea. end bal. @ 24"	
GB-3	-3'-1"	10"	24"	2 #6	2 #6	-	#3	7 @ 10" ea. end	
GB-4	-3'-1"	10"	24"	2 #6	2 #6	-	#3	7 @ 10" ea. end	
GB-5	-3'-1"	10"	24"	2 #6	2 #6	-	#3	5 @ 10" ea. end	
GB-6	-3'-1"	10"	24"	2 #6	2 #6	-	#3	continuos @ 8"	see section
GB-7	-1'-0"	10"	19"	2 #5	2 #5	-	#3	4 @ 8" ea. end	
GB-8	-1'-0"	10"	19"	2 #6	2 #6	-	#3	4 @ 8" ea. end	
GB-9	-1'-7"	10"	20"	2 #6	2 #6	-	#3	5 @ 6" ea. end bal. @ 24"	
GB-10	-1'-7"	10"	24"	3 #5	2 #6	-	#3	7 @ 10" ea. end	
GB-11	-3'-1"	10"	24"	2 #6	2 #6	-	#3	4 @ 10" ea. end	
GB-12	-3'-1"	10"	24"	2 #7	2 #6	-	#3	10 @ 10" ea. end bal. @ 24"	
GB-13	-3'-1"	10"	24"	2 #6	2 #6	-	#3	7 @ 10" ea. end	
GB-14	-3'-1"	10"	24"	2 #6	2 #6	-	#3	7 @ 10" ea. end	
GB-15	-3'-1"	10"	24"	2 #6	2 #6	-	#3	5 @ 10" ea. end	

EXISTING GARAGE TO REMAIN







EXISTING RESIDENCE TO REMAIN

FOUNDATION PLAN

AUGERED GROUT INJECTED PILES

1. Furnish all labor, materials, equipment, incidentals transportation, erection/installation and supervision necessary to complete all piling and related work called for on the plans and herein or reasonably inferable from either or both, including but not limited to the following:
   (a) augered cast in place grouted piles
   (b) accurate layout and installation of all piles
   (c) records

2. Foundation contractor shall familiarize self with the nature of the project, existing on site and adjacent utilities and potential hazards and take whatever precautions necessary to protect the owner from any damage or liability. A visual inspection of any nearby structures shall be performed by a State of Florida registered structural engineer prior to foundation construction. All existing cracks, damages or potentially hazardous conditions shall be noted, documented and reported prior to installation.

3. The piles shall be AUGER-CAST TYPE PILES. Augered Grout Injected Piles shall have a minimal diameter as indicated and shall be cast with grout developing 4,000 PSI at the end of seven days. Reinforcing shall consist of 4 - #5 vertical rebars full length of pile, with #3 ties at 12" on center, extended at the top into grade beam 18" minimum and placed centered with the pile. All piles all piles shall be driven to a minimum depth as indicated or as required by the Geotechnical Engineer, to develop the minimum bearing capacity as follows:

   10" diameter pile - 17 ton capacity

4. - Submit evidence that the Auger Grout Pile Contractor has been engaged in the successful installation of Augered Grout Injected Piles for at least 5 years and that the crane operators or kayperson who gives direction to the crane operators, have at least 2 years of experience in the successful installation of said pile system.

5. Piles not installed in accordance with accepted procedures shall be rejected and additional piles shall be installed as directed by Foundation Engineer.

6. LOCATION OF PILES: Piles shall be located as shown on plans or as directed by Engineer. Pile centers shall be located to an accuracy of (+/-) 1 inch.

7. TOLERANCE: Piles shall be installed within 3 inches of plan positions

8. OBSERVATIONS: The owner will retain the services of a State of Florida registered Engineer qualified as a soil and foundation Engineer, to conduct full time observations during the installation of the piles. The Engineer will also employed to represent the interests of the owner and also the contractor when necessary. The Engineer shall maintain a separate log of each pile.

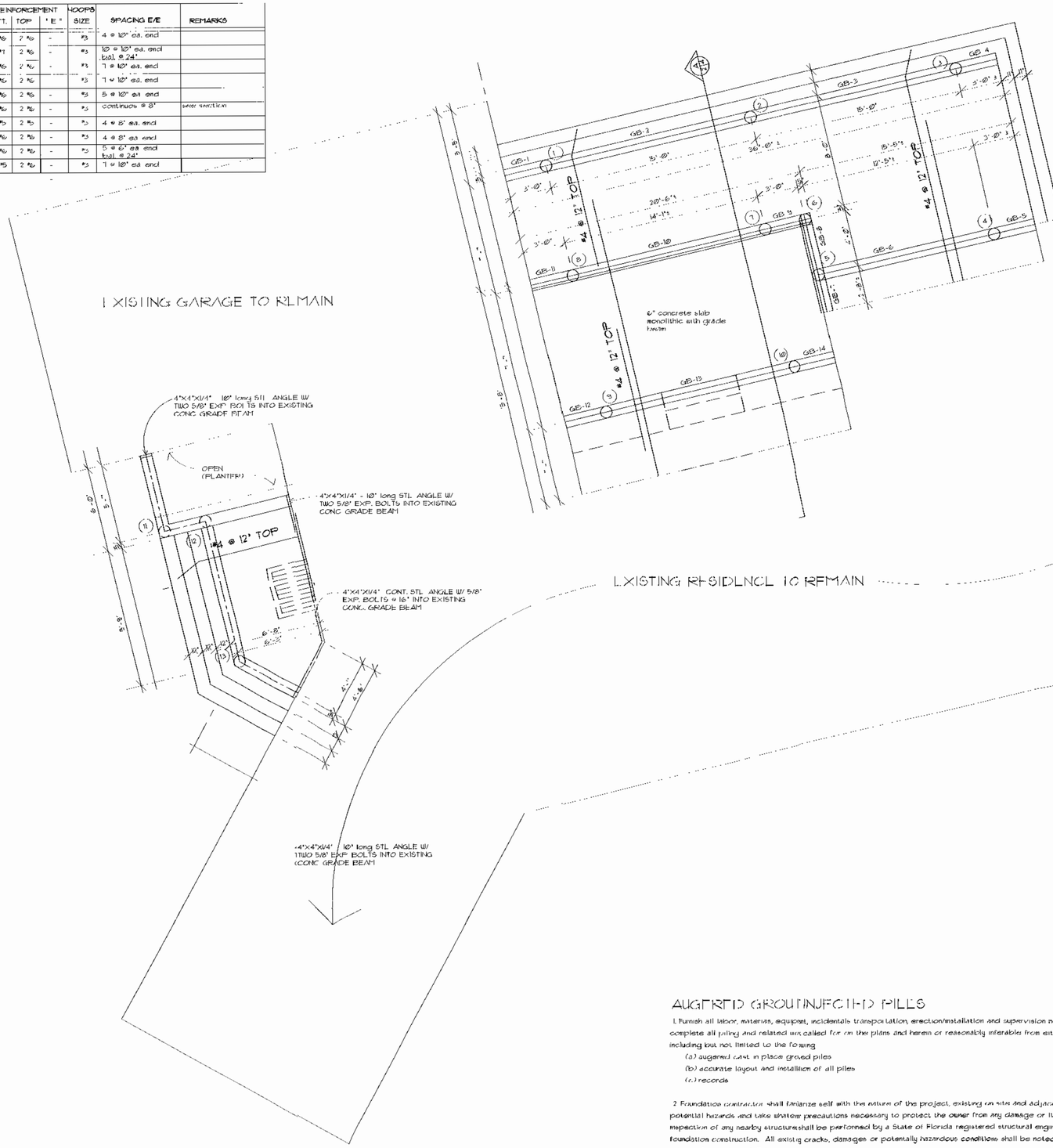
1-20-09

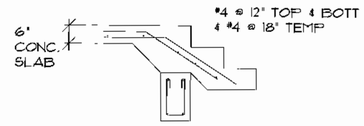
JORGE MIGUEL HERNANDEZ
R.A. REGISTRATION No. 6662
ARCHITECTURE
FLORIDA
BUILDING PERMIT SET
FOR CONSTRUCTION
a restoration & addition for the
BULLOCK RESIDENCE
1201 N. South Lake Drive Hollywood, Fla.

Revisions	Date:
1 12-1-04 RESPONSE TO BLDG DEPT.	2-27-04

Sheet S-1
of 2

MARK	TOP OF BM. ELEVATION	SIZE W	SIZE D	REINFORCEMENT BOTT.	REINFORCEMENT TOP	REINFORCEMENT 'E'	HOOPS SIZE	HOOPS SPACING E/E	REMARKS
GB-1	-3'-1"	12"	24"	2 #6	2 #6	-	#3	4 @ 10" ea. end	
GB-2	-3'-1"	10"	24"	2 #7	2 #6	-	#3	10 @ 10" ea. end bal. @ 24"	
GB-3	-3'-1"	10"	24"	2 #6	2 #6	-	#3	7 @ 10" ea. end	
GB 4	-3'-1"	10"	24"	2 #6	2 #6		#3	7 @ 10" ea. end	
GB 5	-3'-1"	10"	24"	2 #6	2 #6	-	#3	5 @ 10" ea end	
GB-6	-3'-1"	10"	24"	2 #6	2 #6	-	#3	continuous @ 8"	over excation
GB 7	-1'-0"	10"	18"	2 #5	2 #5	-	#3	4 @ 8" ea. end	
GB-8	-1' 0"	10"	18"	2 #6	2 #6	-	#3	4 @ 8" ea end	
GB-9	-1'- 1"	10"	20"	2 #6	2 #6	-	#3	5 @ 6" ea end bal. @ 24"	
GB-10	-1'- 1"	10"	24"	3 #5	2 #6	-	#3	7 @ 10" ea. end	





SECTION A-A

FOUNDATION PLAN

AUGERED GROUT INJECTED PILES

1. Furnish all labor, materials, equipment, incidentals transportation, erection/installation and supervision necessary to complete all piling and related work called for on the plans and herein or reasonably inferable from either or both, including but not limited to the following
   (a.) augered cast in place grouted piles
   (b.) accurate layout and installation of all piles
   (c.) records

2. Foundation contractor shall familiarize self with the nature of the project, existing on site and adjacent utilities and potential hazards and take whatever precautions necessary to protect the owner from any damage or liability. A visual inspection of any nearby structures shall be performed by a State of Florida registered structural engineer prior to foundation construction. All existing cracks, damages or potentially hazardous conditions shall be noted, documented and reported prior to installation

3. The piles shall be AUGER CAST TYPE PILES. Augered Grout Injected Piles shall have a minimal diameter As indicated and shall be cast with grout developing 4,000 PSI at the end of seven days. Reinforcing shall consist of 4 - #5 vertical rebars full length of pile, with #3 ties at 12" on center, extended at the top into grade beam 18" minimum and placed centered with the pile. All piles all piles shall be driven to a minimum depth As indicated or as required by the Geotechnical Engineer, to develop the minimum bearing capacity as follows:

   10" diameter pile - 17 ton capacity

4. - Submit evidence that the Auger Grout Pile Contractor has been engaged in the successful installation of Augered Grout Injected Piles for at least 5 years and that the crane operators or key person who gives directions to the crane operators, have at least 2 years of experience in the successful installation of said pile system

5. Piles not installed in accordance with accepted procedures shall be rejected and additional piles shall be installed as directed by Foundation Engineer.

6. LOCATION OF PILES: Piles shall be located as shown on plans or as directed by Engineer. Pile centers shall be located to An Accuracy of (+/-) 1 inch

7. TOLERANCE: Piles shall be installed within 3 inches of plan positions

8. OBSERVATIONS: The owner will retain the services of a State of Florida registered Engineer qualified as a soil and foundation Engineer, to conduct full time observations during the installation of the piles. The Engineer will be employed to represent the interests of the owner and aid the contractor when necessary. The Engineer shall maintain a separate log of each pile

JORGE MIGUEL HERNANDEZ
FLA. REGISTRATION NO. 0044421
ARCHITECTURE
AND LANDSCAPE DESIGN
FLORIDA

BUILDING PERMIT SET
FOR CONSTRUCTION

Revisions

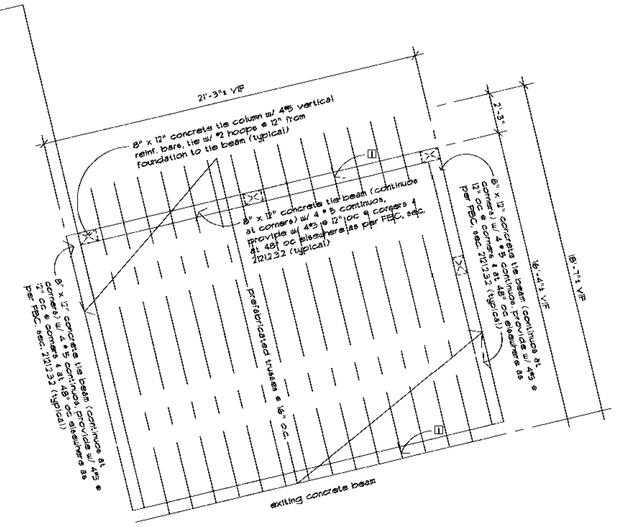
Date: 2-27-04

Sheet S-2 of 2

a restoration & addition for the

BULLOCK RESIDENCE

1201 N. South Lake Drive Hollywood, Fla.



ROOF RAMING PLAN

HURRICANE METAL METAL STRAP CONNECTOR SCHEDULE				
MARK	MANUFACTURER	PRODUCT CODE & FASTENER SCHEDULE	UPLIFT CAPACITY	UPLIFT (MAX.) CALCULATED
1	USP	TA20R (attach w/ 8 10d nails	1450	1350 lbs.
2				

STRUCTURAL NOTES

CONCRETE & REINFORCEMENT

1. All concrete shall conform to ACI-318-77 & shall have a minimum compressive strenth of FC.=3000 PSI .

2. All concrete work in accordance with "Specifications for Structural Concrete for Building", ACI 301-latest edition. Production of concrete, delivery, placing and curing to be in accordance with "Hot Weather Concreting", ACI 305R, latest edition.

3. All concrete to be regular weight with a design strength of 3,000 psi at 28 days (unless otherwise noted), maximum slump 5".

4. All reinforcement to be new millet steel conforming to the latest ASTM A-615 grade 60. Fabricated in accordance with ACI 315 and CRSI Manual of Standard Practice.

5. Concrete cover unless otherwise detailed on drawings,

footings bottom.....3"
top & sides..2"

slab on grde centered

columns & beams (to the ties).....1 1/2"

6. Column reinforcement dowels to be same size and number as verticals rebars above lap 36 bar diameter or minimum of 18 inches, UON. Provide rigid templates for dowel location. Provide standard hooks at top of all vertical reimforcement at non-continuos columns (UON).

7. All dowel for columns shall be secured in position prior to concreting. Pushing the dowels into position in wet concrete is not permitted.

8. Beam reinforcement lapped 36 bar diameters or minimum 18 inches , bottom bars spliced only ay supports, top bars spliced only at mid-spans. All top bars hookedat noncontinuos edges (UON). All hooks to be standard 90 degree hooks as required (UON).

NON-REINFORCED MASONRY BEARING BLOCK

1. Hollow load bearing masonry units shall conform to ASTM C-90, TYPE I, GRADE N, REGULAR WEIGHT, with a minimum design compressive strength on net area of fm=2,000 psi. Construction shall be in accordance wit ACI 530.1 specifications.

2. Mortar shall conform to ASTM C-270, Type 'M' or 'S'.

3. Lay all masonry with full face head joints and with face shell mortar bedding.

4. Concrete in tie columns shall be placed against in place masonry.

5. HORIZONTAL REINFORCING

provide galvanized #9 gauge wire, truss type, horizontal joint reinforcing every second block course (1'-4" oc vertically) stepped 1 1/2" and extended 4" into concrete columns. Provide special horizontal reinforcecing at 'T' and 'L' intersection.

Provide "DOVE-TAIL' anchors at 16" oc vertically for all masonry placed adjacent to already in place columns.

6. Concrete tie columns are required at 16 ft. on centers maximum(smaller spacing may be required to limit the masonry panel area to 240 sq. ft.), at every corner or change of wal direction, on each side of openings larger than 4 ft., at gable and shed end corners and at free standing (of walls exceeding 2 ft.. All tie columns and columns shall be extended to the top of the parapet wall (unless otherwise indicated on the plans or details).

7. In the event of a discrepancy between these requirements and the columns indicated on the plans, the more stringent requirement or condition shall be used.

8. Any masonry opening between 3 and 8 ft. in width shall have one #5 vertical rebar on each side, placed in block cell filled with concrete. These rebars shall be hooked at the foundation and at the tie beam and lapped 30" minimum.

9. Changes in level of concrete tie beames and beams shall occur at tie column or column location.

10. LINTELS

A. The contractor shall provide precast . concrete or cast-in-site lintels at the heads off all openings in masonry walls not exceeding six (6) feet in width where beams have not been specified. For opening adjacent to concrete columns thne lintel shall be cast -in-place with the column.

B. Lintel may be integral with the structureal or the tie beam when head of the opning is 16" or less below. Continue beams typical bottom rebars through abd 2-#5 bottom truss bars at drops and 2-#3 stirrups at 6 inches oc each end at drop.

C. Minimum bearing for all lintels 8" each eside or provide dowels and pockets in adjacennt concrete columns.

STRUCTURAL WOOD

1. All wood trusses shall be designed and fabricated in accordance with the applicable provisions of the latest edition of "The National Design Specifications for Wood Constructipn (NDS), American Forest and Paper Association (AFPA), Design Specification for Metal Plate Connected Wood Trusses (ANSI/TPI 1), Truss Plate Institute (TPI) and The South Florida Building Code, latest edition.

2. Contractor shall provide shop drawings indicating truss enginering and framing plan sealed by a State of Florida registered structural engineer to the architect for review and approval prior to fabrication.

3. All wood used shall have a minimum fiber stress in bending of 1000 psi.

4. All joists, beams and trusses shall be anchored to the support to resist uplift as per The South Florida Building Code (latest edition) and ASCE 7- latest edition.

5. All wood in direct contact with concretes shall be pressure treated.

TERMITE PROTECTION

All soil and fill under floors and/or within oor under buildings shall have preconstruction soil treatment for protection against termites. The Standards of the National Pest Control Association shall be deemed as approved in respect to preconstruction soil treatment for protection against termites. Certificate of Compliance shall be issued to the building department & owner by a licensed pest control company.

JORGE MIGUEL FERNANDEZ
R.A. REGISTERED ARCHITECT
6801 SW 32nd STREET
HOLLYWOOD FLORIDA

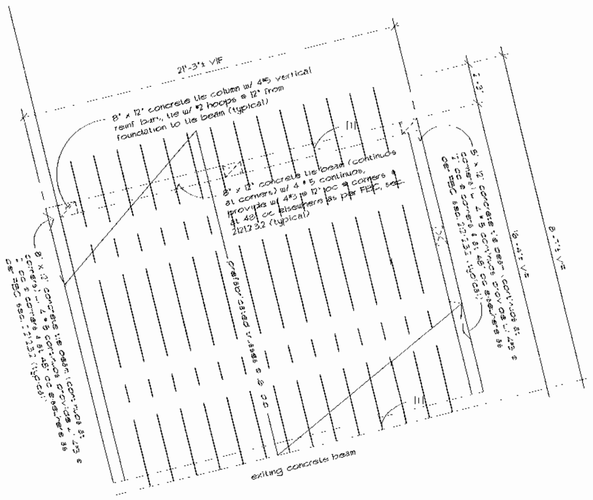
RC - ITECTURE

BUILDING PERMIT SET
FOR CONSTRUCTION

a restoration & addition for the
BULLOCK RESIDENCE
1201 N. South Lake Drive Hollywood, Fla.

Revisions
4-1-04 RESPONSE TO BLDG DEPT.

Sheet S-2 Date: 2-27-04 of 2



ROOF FRAMING PLAN

HURRICANE METAL METAL STRAP CONNECTORS				
MARK	MANUFACTURER	PRODUCT CODE & FASTENER SCHEDULE	UPLIFT CAPACITY	UPLIFT (MAX.) CALCULATED
[1]	USP	TAPR218 attach w/ 12 10d nails	1495	1350 lbs
[2]				

STRUCTURAL NOTES

CONCRETE & REINFORCEMENT

1. All concrete shall conform to ACI-318-77 & shall have a minimum compressive strenth of FC.=3000 PSI .

2. All concrete work in accordance with "Specifications for Structural Concrete for Building", ACI 301-latest edition. Production of concrete, delivery, placing and curing to be in accordance with "Hot Weather Concreting", ACI 305R, latest edition

3. All concrete to be regular weight with a design strength of 3,000 psi at 28 days (unless otherwise noted), maximum slump 5".

4. All reinforcement to be new millet steel conforming to the latest ASTM A 615 grade 60. Fabricated in accordance with ACI 315 and CRSI Manual of Standard Practice

5. Concrete cover unless otherwise detailed on drawings,

footings	bottom.....3"
	top & sides..2"
slab on grde	centered
columns & beams (to the ties)....	1 1/2"

6. Column reinforcement dowels to be same size and number as verticals rebars above lap 36 bar diameter or minimum of 18 inches, UON. Provide rigid templates for dowel location. Provide standard hooks at top of all vertical reinforcement at non continuos columns (UON)

7. All dowel for columns shall be secured in position prior to concreting. Pushing the dowels into position in wet concrete is not permitted

8. Beam reinforcement lapped 36 bar diameters or minimum 18 inches , bottom bars spliced only ay supports, top bars spliced only at mid-spans. All top bars hooksdat noncontinuos edges (UON). All hooks to be standard 90 degree hooks as required (UON).

NON-REINFORCED MASONRY BEARING BLOCK

1. Hollow load bearing masonry units shall conform to ASTM C 90, TYPE I, GRADE N, REGULAR WEIGHT, with a minimum design compressive strength on net area of fm-2,000 psi. Construction shall be in accordance wit ACI 5301 specifications.

2. Mortar shall conform to ASTM C-270, Type 'M' or 'S'.

3. Lay all masonry with full face head joints and with face shell mortar bedding.

4. Concrete in tie columns shall be placed against in place masonry.

5. HORIZONTAL REINFORCING

provide galvanized #3 gauge wire, truss type, horizontal joint reinforcing every second block course (1'-4" oc vertically) lapped 1 1/2" and extended 4" into concrete columns. Provide special horizontal reinforceing at 'T' and 'L' intersection.

Provide "DOVE-TAIL" anchors at 6' oc vertically for all masonry placed adjacent to already in place columns.

6. Concrete tie columns are required all 16 ft. on centers maximum(smaller spacing may be required to limit the masonry panel area to 240 sq ft.), at every corner or change of wal direction, on each side of openings larger than 4 ft. at gable and shed end corners and at free standing of walls exceeding 2 ft. All tie columns and columns shall be extended to the top of the parapet wall (unless otherw se indicated on the plans or details).

7. In the event of a discrepancy between these requirements and the columns indicated on the plans, the more stringent requirement or condition shall be used.

8. Any masonry opening between 3 and 8 ft. in width shall have one #5 vertical rebar on each side, placed in block cell filled with concrete. These rebars shall be hooked at the foundation and at the tie beam and lapped 30" minimum

9. Changes in level of concrete tie beams and beams shall occur at tie column or column location

10. LINTELS

A. The contractor shall provide precast concrete or cast in-site lintels at the heads of all openings in masonry walls not exceeding six (6) feet in width where beams have not been specified. For opening adjacent to concrete columns the lintel shall be cast -in-place with the columnn.

B. Lintel may be integral with the structural or the tie beam when head of the opning iss 16" or less below. Continue beams typical bottom rebars through abd 2-#5 bottom truss bars at drops and 2-#3 stirrups at 6 inches oc each end at drop

C. Minimum bearing for all lintels 8" each side or provide dowels and pockets in adjacent concrete columns.

SPECIFICATIONS shall be minimum 8 inches deep with 2-#5 bottom. Notify architect for spans larger than 6 feet with no specified beams over

STRUCTURAL WOOD

1. All wood trusses shall be designed and fabricated in accordance with the applicables provisions of the latest edition of "The National Design Specifications for Wood Construction (NDS), American Forest and Paper Assodation (AFPA), Design Specification for Metal Plate Connected Wood Trusses (ANSI/TPI 1), Truss Plate Institute (TPI) and The South Florida Building Code, latest edition.

2. Contractor shall provide shop drawings indicating truss engineering and framing plan sealed by a State of Florida registered structural engineer to the architect for review and approval prior to fabrication

3. All wood used shall have a minimum fiber stress in bending of 1000 psi.

4. All joists, beams and trusses shall be anchored to the support to resist uplift as per The South Florida Building Code (latest edition) and ASCE 7- latest edition

5. All wood in direct contact withconcrete shall be pressure treated.

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P2006 0412
3/2/09

JORGE MIGUEL HERNA
ARCHITECTURE
HOLLYWOOD

BUILDING PERMIT SET
FOR CONSTRUCTION

a restoration & addition for the
BULLOCK RESIDENCE
1201 N. South Lake Drive
Hollywood, Fla.

Revisions

Date:
2-27-04

Sheet S-2 of 2

EXISTING ELECTRICAL SERVICE TO BE REPLACED

120/240 - 1φ - 60HZ
400 AMP meter combo

GARAGE 101

CHEF'S RESTRM 106

KITCHEN 105

DINING ROOM 101

PLANTER

RECYCLE 104

M.E. 103

ENTRY 101

LIVING ROOM 116

M.E. CLOSET

CLO. #1 117

BATHROOM #1 119

DRESSING ROOM 118

BEDROOM #1 120

plugmold under window sill

plugmold along baseboard

plugmold 32" AFF

FNL 'A'

FNL 'C'

BATHROOM #2 108

CLOSET #2 111

BEDROOM #2 112

CORRIDOR 110

LIN. CL. #2 109

M.E. #2 115

MEDIA ROOM 114

WORK ROOM 113

plugmold 34" AFF

plugmold 54" AFF

FNL 'B'

ENTRY

ELECTRICAL FLOOR PLAN

0 4

JORGE MIGUEL HERNANDEZ
FLA REGISTRATION NO. 69462
ARCHITECTURE
1819 TYLER STREET
HOLLYWOOD FLORIDA

BUILDING PERMIT SET
FOR CONSTRUCTION

a restoration & addition for the

BULLOCK RESIDENCE

1201 N. South Lake Drive Hollywood, Fla.

Revisions
Δ 2-1-04 RESPONSE TO BCP COMMENTS

Date: 2-27-04

Sheet E-1 of 2

Jorge Hernandez
A.R.C.U.S. 6178
A-20-94

ELECTRICAL FLOOR PLAN

1/4" = 1'-0"

JORGE MIGUEL HERNANDEZ
R.A. REGISTERED ARCHITECT
FLORIDA
ARCHITECTURE
1800 HARRISON ST. SUITE 1800-1811
HOLLYWOOD

BUILDING PERMIT SET
FOR CONSTRUCTION

BULLOCK RESIDENCE
a restoration & addition for the
201 N. South Lake Drive Hollywood, Fla.

Revisions

Date: 2-27-04

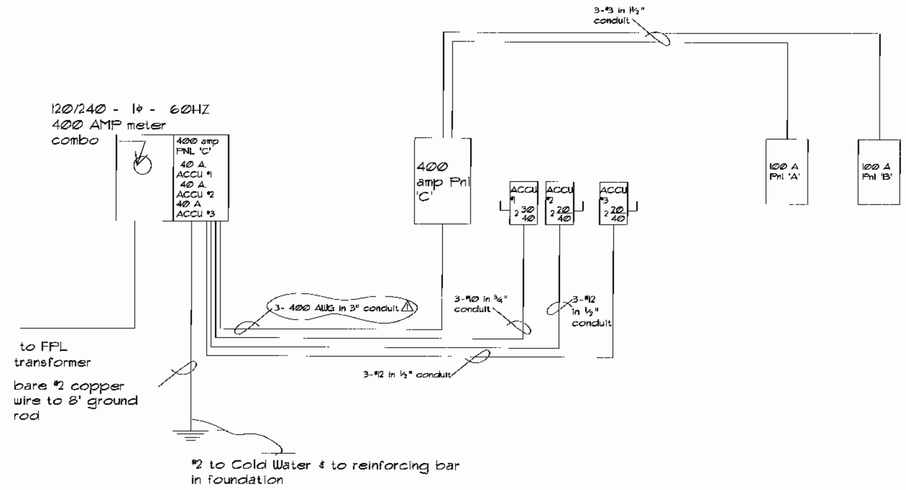
Sheet E-2 of 2

Jorge Hernandez
AR0009424
2/27/04

ELECTRICAL SYMBOL LEGEND

ALL ELECTRICAL SYMBOLS MARKED WITH AN (X) ARE EXISTING TO BE REPLACED. THIS IS A SCHEMATIC REPRESENTATION BASED ON EXISTING DRAWINGS AND ARCHITECT'S LIMITED OBSERVATION, IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO VERIFY AND REPLACE ALL EXISTING ITEMS.

- EF — EXHAUST FAN
- 240V OUTLET mounted as required by appliance
- 120V-20A DUPLEX OUTLET, WATERPROOF
- GFI — 120V-20A DUPLEX OUTLET, ground fault interruptor
- 120V-20A DUPLEX OUTLET floor mounted
- 120V-20A DUPLEX OUTLET mounted 18" AFF
- 120V-20A DUPLEX OUTLET mounted 42" AFF
- TELEPHONE OUTLET mounted 42" AFF or as noted
- TELEPHONE OUTLET mounted 18" AFF
- TELEPHONE OUTLET floor mounted
- INTERCOM
- plugmold , (60" long strips, 10 outlets each MOD # V209GB506 &/or 36" long strips, 6 outlets each, MOD. #V209GB306 as Manuf. by WIREMOLD
- recessed wall washer light
- recessed light fixture
- ceiling surface mounted light fixture
- wall surface mounted light fixture
- COMPUTER OUTLET mounted 42" AFF or as noted
- TELEVISION OUTLET munted 18" AFFF or as noted
- POWER CONDUIT RUN CONCEALED FROM VIEW
- SWITCHING CONDUIT RUN CONCEALED FROM VIEW
- 120V -20A TOGGLE SWITCH-42" AFF
- 2-2POLE, 3-3 WAY, 4-4 WAY, D-DIMMER, K-KEY, F-FAN SPEED CONTROL
- (S) smoke detector



ELEC. RISER DIAGRAM

N.T.S.

ELECTRICAL NOTES & SPECIFICATIONS

Electrical contractor shall wire and connect all motors, starters, controls or other electrical items provided by other trades.

Electrical contractor shall coordinate all work with the local electric and telephone utilities along with any communications and/or security companies involved in the project.

All fuses shall be time-delay current limiting, CLASS 'RK' (0-600A) or CLASS 'L' (0-600A). Fuses shall be sized as shown on the documents.

All wiring shall be copper, minimum size #12 AWG. Insulation shall be THHN or THWN. All wiring shall be in conduit.

Electrical contractor shall replace all existing rubber covered wire with #12 copper THHN wire minimum. All switches and outlets shall be new. Switches and outlets shall be Decora as manufactured by Levinton.

All gutter and wireway sizes shall comply with N.E.C. article 361-5 and tables 373-6(A) & (B).

Electrical equipment exposed to the weather shall be waterproofed.

Conduit exposed to the weather shall be IMC or rigid galvanized steel. Flexible conduit shall only be used for short final connections to interior lighting fixtures and equipment. No conduit shall be run in the duct work. All conduits through the roof shall penetrate the roof using proper approved flashing.

All under ground conduit shall be heavy wall galvanized steel asphaltum plated, and wrapped with anti corrosion tape (SLIPKNOT #220 or equal) or schedule 40 PVC with proper size equipment grounding conductor. All sweeps and above floor extensions shall be heavy wall galvanized steel conduit. Seals shall be used whereever the conduit thru the floor or grade.

DEMAND LOAD CALCULATIONS

General lighting load	
3100 sq. ft. @ 3w/sq. ft.	9300 watts
2-20 amp appliance outlet circuits @ 1500 watts each	3000 watts
Laundry circuit	12000 watts
Range cooktop	8200 watts
Microwave oven	1450 watts
Double oven	7100 watts
Dishwashers (2)	2400 watts
Cothes dryer	5600 watts
Two water heaters @ 7500 watts each	15000 watts
TOTAL OTHER LOAD	64050 watts
1st 10 kW @ 100%	10000 watts
Remainder @ 40% (52.7 kW X .4)	21080 watts
	31080 watts
15.4 kW of heat load @ 40% (15.4 kW X .4)	6160 watts
Total calculated load	37240 watts

Calculated service load shall be 37240watts/240volts = 155.167 amps

PANEL ID : A
VOLTAGE : 120/240
AMP RATING : 100
PHASE & WIRE : 1 ph, 3 wire
ISC RATING : 10,000

CKT	BKR	WIRE/CON	DESCRIPTION	KW per PHASE		DESCRIPTION	WIRE/CON	BKR	CKT
1	20 GFCI	3-#12 IN 1/2" C.	bedroom #1 plugmold	1.5	1.9	bedroom #1 plugmold	3-#12 IN 1/2" C.	20 GFCI	2
3	20 GFCI	3-#12 IN 1/2" C.	bedroom #1 plugmold	1.9	1.9	bedroom #1 plugmold	3-#12 IN 1/2" C.	20 GFCI	4
5	20 GFCI	3-#12 IN 1/2" C.	bedroom #1 plugmold	1.9	1.9	dressing rm plugmold	3-#12 IN 1/2" C.	20	6
7	20	3-#12 IN 1/2" C.	LR west wall plugmold	1.9	1.9	LR west wall plugmold	3-#12 IN 1/2" C.	20	8
9	20	3-#12 IN 1/2" C.	entry plugmold	1.9	1.9	entry plugmold	3-#12 IN 1/2" C.	20	10
11	20	3-#12 IN 1/2" C.	recycs plugmold	1.9	1.9	garage plugmold	3-#12 IN 1/2" C.	20 GFCI	12
13	20 GFCI	3-#12 IN 1/2" C.	garage plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20	14
15	20	3-#12 IN 1/2" C.	living rm. plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20	16
17	20 GFCI	3-#12 IN 1/2" C.	living rm. plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20	18
19	20	3-#12 IN 1/2" C.	living rm. plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20	20
21	20	3-#12 IN 1/2" C.	spare	1.9	1.9	spare	3-#12 IN 1/2" C.	20	22
23	20	3-#12 IN 1/2" C.	spare	1.9	1.9	spare	3-#12 IN 1/2" C.	20	24
				22.8	22.8				

demand load (.4) 45.6 (1000)/240 = 76 amps

PANEL ID : B
VOLTAGE : 120/240
AMP RATING : 100
PHASE & WIRE : 1 ph, 3 wire
ISC RATING : 10000

CKT	BKR	WIRE/CON	DESCRIPTION	KW per PHASE		DESCRIPTION	WIRE/CON	BKR	CKT
1	20	3-#12 IN 1/2" C.	media room plugmold	1.9	1.9	media room plugmold	3-#12 IN 1/2" C.	20	2
3	20	3-#12 IN 1/2" C.	media room plugmold	1.9	1.9	media room plugmold	3-#12 IN 1/2" C.	20	4
5	20	3-#12 IN 1/2" C.	media room plugmold	1.9	1.9	bedroom #2 plugmold	3-#12 IN 1/2" C.	20 GFCI	6
7	20 GFCI	3-#12 IN 1/2" C.	bedroom #2 plugmold	1.9	1.9	bedroom #2 plugmold	3-#12 IN 1/2" C.	20 GFCI	8
9	20 GFCI	3-#12 IN 1/2" C.	bedroom #2 plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20 GFCI	10
11	20 GFCI	3-#12 IN 1/2" C.	workroom plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20	12
13	20	3-#12 IN 1/2" C.	workroom plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20	14
15	20	3-#12 IN 1/2" C.	workroom plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20	16
17	20	3-#12 IN 1/2" C.	cloth washer	1.9	1.2	laundry circuit	3-#12 IN 1/2" C.	20 GFCI	18
19	30	3-#10 IN ¾" C.	dryer	5.7	5.0	ACCU #3 & AHU #3 *	3-#8 IN ¾" C.	50	20
21									22
23					22.8				24

demand load 5.0 + (.4 X40.6) (1000)/240 = 88.5 A

LOCATION : east wing
TYPE : 120/240
MOUNTING : FLUSH
NEMA RATING : 1
MAINS : MLO

PANEL ID : C
VOLTAGE : 120/240
AMP RATING : 250
PHASE & WIRE : 1 phase, 3 wire
ISC RATING : 10,000

CKT	BKR	WIRE/CON	DESCRIPTION	KW per PHASE		DESCRIPTION	WIRE/CON	BKR	CKT
1	20 GFCI	3-#12 IN 1/2" C.	garage wine & ltg.	1.5	1.0	kit. toilet outlet & ltg	3-#12 IN 1/2" C.	20 GFCI	2
3	20	3-#12 IN 1/2" C.	refrige / freezer	1.6	1.9	appliance outlets #1	3-#12 IN 1/2" C.	20 GFCI	4
5	20 GFCI	3-#12 IN 1/2" C.	appliance outlets #2	1.9	1.9	apliance outlets #3	3-#12 IN 1/2" C.	20 GFCI	6
7	20	3-#12 IN 1/2" C.	kichen exhaust fan	1.9	1.9	kitchen lighting	3-#12 IN 1/2" C.	20	8
9	20	3-#12 IN 1/2" C.	food disposal #1	1.9	1.9	food disposal #2	3-#12 IN 1/2" C.	20	10
11	20	3-#12 IN 1/2" C.	dishwasher #1	1.9	1.9	dishwasher #2	3-#12 IN 1/2" C.	20	12
13	20	3-#12 IN 1/2" C.	trash compactor	1.9	1.0	entry porch lighting	3-#12 IN 1/2" C.	20	14
15	20	3-#12 IN 1/2" C.	entry lighting	1.0	1.0	closets #1 & dressing	3-#12 IN 1/2" C.	20	16
17	20 GFCI	3-#12 IN 1/2" C.	bathroom #1	1.0	1.0	bedroom #1	3-#12 IN 1/2" C.	20	18
19	20	3-#12 IN 1/2" C.	dining & living rooms	1.0	1.0	living room	3-#12 IN 1/2" C.	20	20
21	20	3-#12 IN 1/2" C.	dining room	1.6	1.9	bathroom #2	3-#12 IN 1/2" C.	20 GFCI	22
23	20	3-#12 IN 1/2" C.	corridor	1.2	1.6	bedroom #2	3-#12 IN 1/2" C.	20	24
25	20	3-#12 IN 1/2" C.	enclosed porch	1.0	1.9	enc. porch & entry	3-#12 IN 1/2" C.	20	26
27	20	3-#12 IN 1/2" C.	recreation room	0.8	1.9	compiter main	3-#12 IN 1/2" C.	20	28
29	50	3-#8 IN 1" C.	ACCU #3 & AHU #2 *	10.0	5.7	range	3-#8 IN 1" C.	40	30
31									32
33			space		5.0	ACCU #1 & AHU #1 *	3-#8 IN 1" C.	40	34
35			space						36
37			space			space			38
39			space			space			40
41			space			space			42

total load 51.3 KW (1000)/240 = 213.75 AMPS

BUILDING PERMIT SET
FOR CONSTRUCTION

ARCHITECTURE

JORGE MIGUEL HERNANDEZ
FLA. REGISTRATION NO. 0044161
www.arquitectura.com
305.777.0000

FLORIDA

a restoration & addition for the
BULLOCK RESIDENCE
1201 N. South Lake Drive
Hollywood, Fla.

Revisions
4-1-04 RESPONSE TO BLDG DEPT.

Date:
2-27-04

Sheet
E-2
of 2

ELECTRICAL SYMBOL LEGEND

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- EXHAUST FAN
- 240V OUTLET mounted as required by apppliance
- 120V-20A DUPLEX OUTLET, WATERPROOF
- 120V-20A DUPLEX OUTLET, ground fault interruptor
- 120V-20A DUPLEX OUTLET floor mounted
- 120V-20A DUPLEX OUTLET mounted 18" AFF
- 120V-20A DUPLEX OUTLET mounted 42" AFF
- TELEPHONE OUTLET mounted 42" AFF or as noted
- TELEPHONE OUTLET mounted 18" AFF
- TELEPHONE OUTLET floor mounted
- INTERCOM

plugmold , (60" long strips, 10 outlets each MOD # V20GBB06 t/or 36" long strips, 6 outlets each, MOD. #V20GB306 as Manuf. by WIREMOLD

- recessed wall washer light
- recessed light fixture
- ceiling surface mounted light fixture
- wall surface mounted light fixture
- COMPUTER OUTLET mOunted 42" AFF or as noted
- TELEVISION OUTLET munted 18" AFFF or as noted
- POWER CONDUIT RUN CONCEALED FROM VIEW
- SWITCHING CONDUIT RUN CONCEALED FROM VIEW
- 120V -20A TOGGLE SWITCH-42" AFF

2-2POLE, 3-3 WAY, 4-4 WAY, D-DIMMER, K-KEY, F-FAN SPEED CONTROL

ELECTRICAL NOTES & SPECIFICATIONS

Electrical contractor shall wire and connect all motors, starters, controls or other electrical items provided by other trades.

Electrical contractor shall coordinate all work with the local electric and telephone utilities along with any communications and/or security companies involved in the project.

All fuses shall be time-delay current limiting, CLASS 'RK' (0-600A) or CLASS 'L' (0-600A). Fuses shall be sized as shown on the documents.

All wiring shall be copper. minimum size #12 AWG. Insulation shall be THHN or THWN. All wiring shall be in conduit.

Electrical contractor shall replace all existing rubber covered wire with #12 copper THHN wire minimum. All switches and outlets shall be new. Switches and outlets shall be Decora as manufactured by Levinton.

All gutter and wireway sizes shall comply with N.E.C. article 361-5 and tables 373-6(A) & (B).

Electrical equipment exposed to the weather shall be waterproofed.

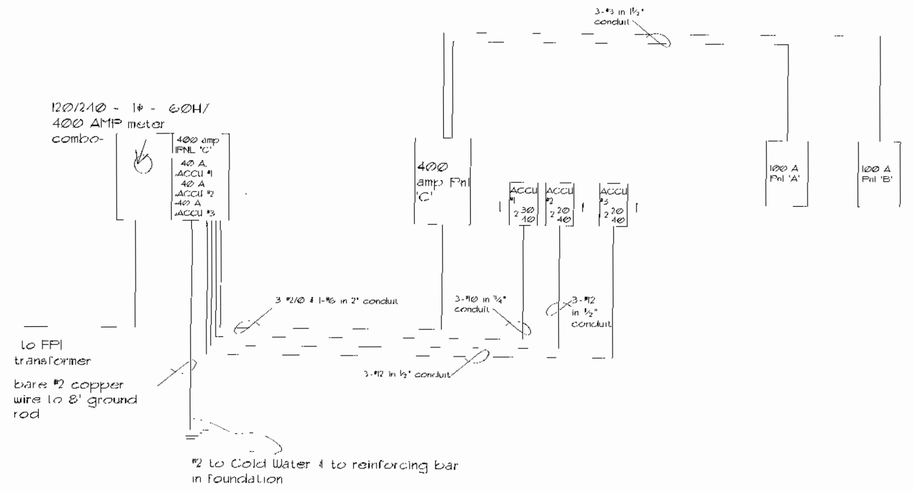
Conduit exposed to the weather shall be IMC or rigid galvanized steel. Flexible conduit shall only be used for short final connections to interior lighting fixtures and equipment. No conduit shall be run in the duct work. All conduits through the roof shall penetrate the roof using proper approved flashing.

All under ground conduit shall be heavy wall galvanized steel asphaltum plated, and wrapped with anti corrosion tape (SLIPKNOT #220 or equal) or schedule 40 PVC with proper size equipment grounding conductor. All sweeps and above floor extensions shall be heavy wall galvanized steel conduit. Seals shall be used whereever the conduit thru the floor or grade.

DEMAND LOAD CALCULATIONS

General lighting load	
3100 sq. ft. @ 3w/sq. ft.	9300 watts
2-20 amp appliance outlet	
circuits @ 1500 watts each	3000 watts
Laundry circuit	12000 watts
Range cooktop	8200 watts
Microwave oven	1450 watts
Double oven	7100 watts
Dishwashers (2)	2400 watts
Cothes dryer	5600 watts
Two water heaters @ 7500 watts each	15000 watts
TOTAL OTHER LOAD	64050 watts
1st 10 kW @ 100%	10000 watts
Remainder @ 40% (52.7 kW X .4)	21080 watts
	31080 watts
15.4 kW of heat load @ 40% (15.4 kW X .4)	6160 watts
Total calculated load	37240 watts

Calculated service load shall be 37240watts/240volts = 155.167 amps



ELEC. RISER DIAGRAM

N.T.S.

PANEL ID : A
VOLTAGE : 120/240
AMP RATING : 100
PHASE & WIRE : 1ph, 3 wire
ISC RATING : 10,000

CKT	BKR	WIRE/CON	DESCRIPTION	KW per PHASE		DESCRIPTION	WIRE/CON	BKR	CKT
1	20	3-#12 IN 1/2" C.	bedroom #1 plugmold	1.0	1.9	bedroom #1 plugmold	3-#12 IN 1/2" C.	20	2
3	20	3-#12 IN 1/2" C.	bedroom #1 plugmold	1.3	1.9	bedroom #1 plugmold	3-#12 IN 1/2" C.	20	4
5	20	3-#12 IN 1/2" C.	bedroom #1 plugmold	1.9	1.9	dressing rm plugmold	3-#12 IN 1/2" C.	20	6
7	20	3-#12 IN 1/2" C.	LR west wall plugmold	1.9	1.9	LR west wall plugmold	3-#12 IN 1/2" C.	20	8
9	20	3-#12 IN 1/2" C.	entry plugmold	1.9	1.9	entry plugmold	3-#12 IN 1/2" C.	20	10
11	20	3-#12 IN 1/2" C.	recyce plugmold	1.9	1.9	garage plugmold	3-#12 IN 1/2" C.	20 GFCI	12
13	20 GFCI	3-#12 IN 1/2" C.	garage plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20	14
15	20	3-#12 IN 1/2" C.	living rm. plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20	16
17	20 GFCI	3-#12 IN 1/2" C.	living rm. plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20	18
19	20	3-#12 IN 1/2" C.	living rm. plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20	20
21	20	3-#12 IN 1/2" C.	spare	1.9	1.9	spare	3-#12 IN 1/2" C.	20	22
23	20	3-#12 IN 1/2" C.	spare	1.9	1.9	spare	3-#12 IN 1/2" C.	20	24
			demand load	22.8	22.8				

(A) 45.6 (1000)/240 = 76 amps

PANEL ID : B
VOLTAGE : 120/240
AMP RATING : 100
PHASE & WIRE : 1ph, 3 wire
ISC RATING : 10,000

CKT	BKR	WIRE/CON	DESCRIPTION	KW per PHASE		DESCRIPTION	WIRE/CON	BKR	CKT
1	20	3-#12 IN 1/2" C.	media room plugmold	1.9	1.9	media room plugmold	3-#12 IN 1/2" C.	20	2
3	20	3-#12 IN 1/2" C.	media room plugmold	1.9	1.9	media room plugmold	3-#12 IN 1/2" C.	20	4
5	20	3-#12 IN 1/2" C.	media room plugmold	1.9	1.9	bedroom #2 plugmold	3-#12 IN 1/2" C.	20	6
7	20	3-#12 IN 1/2" C.	bedroom #2 plugmold	1.9	1.9	bedroom #2 plugmold	3-#12 IN 1/2" C.	20	8
9	20	3-#12 IN 1/2" C.	bedroom #2 plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20 GFCI	10
11	20 GFCI	3-#12 IN 1/2" C.	workroom plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20	12
13	20	3-#12 IN 1/2" C.	workroom plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20	14
15	20	3-#12 IN 1/2" C.	workroom plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20	16
17	20	3-#12 IN 1/2" C.	cloth washer	1.9	1.2	laundry circuit	3-#12 IN 1/2" C.	20 GFCI	18
19	30	3-#10 IN ¾" C.	dryer	5.7	5.0	ACCU #3 & AHU #3 *	3-#8 IN ¾" C.	50	20
21									22
23									24
			demand load		22.8				

(A) 45.6 (1000)/240 = 76 amps

LOCATION : west wing
TYPE : 120/240
MOUNTING : FLUSH
NEMA RATING : 1
MAINS : MLO

LOCATION : east wing
TYPE : 120/240
MOUNTING : FLUSH
NEMA RATING : 1
MAINS : MLO

PANEL ID : C
VOLTAGE : 120/240
AMP RATING : 250
PHASE & WIRE : 1 phase, 3 wire
ISC RATING : 10,000

CKT	BKR	WIRE/CON	DESCRIPTION	KW per PHASE		DESCRIPTION	WIRE/CON	BKR	CKT
1	20 GFCI	3-#12 IN 1/2" C.	garage outlets & ltg.	1.5	1.0	kit. toilet outlet & ltg.	3-#12 IN 1/2" C.	20 GFCI	2
3	20	3-#12 IN 1/2" C.	refrigerator / freeser	1.6	1.9	appliance outlets #1	3-#12 IN 1/2" C.	20 GFCI	4
5	20 GFCI	3-#12 IN 1/2" C.	appliance outlets #2	1.9	1.9	apliance outlets #3	3-#12 IN 1/2" C.	20 GFCI	6
7	20	3-#12 IN 1/2" C.	kichen exhaust fan	1.9	1.9	kitchen lighting	3-#12 IN 1/2" C.	20	8
9	20	3-#12 IN 1/2" C.	food disposal #1	1.9	1.9	food disposal #2	3-#12 IN 1/2" C.	20	10
11	20	3-#12 IN 1/2" C.	dishwasher #1	1.9	1.9	dishwasher #2	3-#12 IN 1/2" C.	20	12
13	20	3-#12 IN 1/2" C.	trash compactor	1.9	1.0	entry porch lighting	3-#12 IN 1/2" C.	20	14
15	20	3-#12 IN 1/2" C.	entry lighting	1.0	1.0	closets #1 & dressing	3-#12 IN 1/2" C.	20	16
17	20 GFCI	3-#12 IN 1/2" C.	bathroom #1	1.0	1.0	bedroom #1	3-#12 IN 1/2" C.	20	18
19	20	3-#12 IN 1/2" C.	dining & living rooms	1.0	1.0	living room	3-#12 IN 1/2" C.	20	20
21	20	3-#12 IN 1/2" C.	dining room	1.6	1.9	bathroom #2	3-#12 IN 1/2" C.	20 GFCI	22
23	20	3-#12 IN 1/2" C.	corridor	1.2	1.6	bedroom #2	3-#12 IN 1/2" C.	20	24
25	20	3-#12 IN 1/2" C.	enclosed porch	1.0	1.9	enc. porch & entry	3-#12 IN 1/2" C.	20	26
27	20	3-#12 IN 1/2" C.	recreation room	0.8	1.9	compiter main	3-#12 IN 1/2" C.	20	28
29	50	3-#8 IN 1" C.	ACCU #2 & AHU #2 *	10.0	5.7	range	3-#6 IN 1" C.	40	30
31									32
33			space						34
35			space		5.0	ACCU #1 & AHU #1 *	3-#8 IN 1" C.	40	36
37			space						38
39			space			space			40
41			space			space			42
			total load						

51.3 KW (1000)/240 = 213.75 AMPS

BUILDING PERMIT SET
FOR CONSTRUCTION

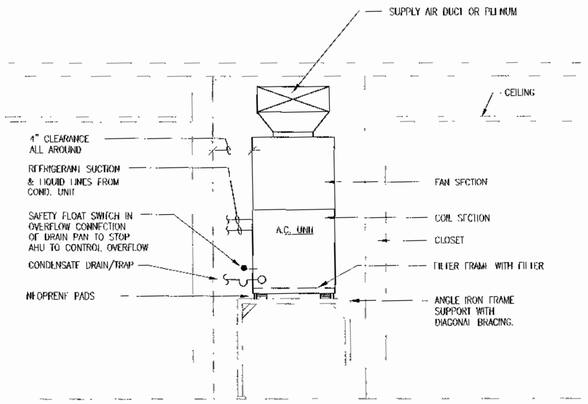
JORGE MIGUEL FERNANDEZ
ARCHITECTURE
HOLLYWOOD

a restoration & addition for the
BULLOCK RESIDENCE
1201 N. South Lake Drive Hollywood, Fla.

Revisions

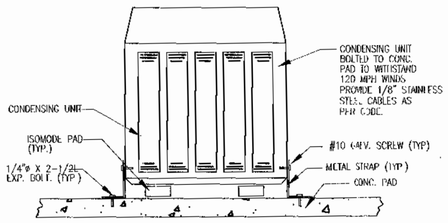
Date: 2-27-04

Sheet: E-1 of 2



TYPICAL A/C UNIT MOUNTING DETAIL (VERTICAL)

N.T.S.



CONDENSING UNIT MOUNTING DETAIL

NTS

AIR COOLED SPLIT A/C UNIT SCHEDULE

		AHU-1	AHU-2
AIR HANDLING UNIT	UNIT DESIGNATION	AHU-1	AHU-2
	AREA SERVED	SEE PLAN	SEE PLAN
	OPERATING WEIGHT LBS	200	110
	DESIGN MANUFACTURER	SPACEPAK	SPACEPAK
	MODEL NUMBER	ESP-3642V	ESP-4860V
FAN	TOTAL AIR CFM	720	960
	VENT AIR CFM	-	-
	EXTERNAL STATIC PRESSURE IN. OF H2O	0.5	0.6
	FAN MOTOR HP (NON-OVERLOAD)/F.L.A.	1/3 - 1.8	1/2 - 2.8
	ELECTRICAL SERVICE AVAILABLE	230-1-60	230-1-60
	SMOKE DETECTOR	-	-
	GRAND TOTAL CAPACITY BTU/HR	32,600	42,500
COIL	TOTAL SENSIBLE CAPACITY BTU/HR.	24,500	32,900
	ENTERING AIR TEMP. DB/WB.	80/67	80/67
FILTER	TYPE AND THICKNESS	PERMANENT 1"	PERMANENT 1"
	QUANTITY & SIZE	PER MFGR	PER MFGR
HEAT	ELECTRIC HEAT CAPACITY KW	6	10
	NO. OF HEATING STEPS	2	2
AIR COOLED CONDENSING UNIT	UNIT DESIGNATION	CU-1	CU-2
	TYPE OF FAN	PROP.	PROP.
	NO. OF FANS AND HP (E.A)	1 - 1/5	1 - 1/5
	AMBIENT AIR TEMP. DB	95	95
	NO. OF COMPRESSORS	1	1
	CAPACITY REDUCTION	100-0	100-0
	COMPRESSOR F.L.A. (EA.)	15.4	23.6
	ELECTRICAL SERVICE AVAILABLE	230-1-60	230-1-60
	OPERATING WEIGHT LBS.	245	160
	DESIGN MANUFACTURER MODEL NO.	CARRIER 38TSA036	CARRIER 38TNA048
	/SEER	17.0	17.0
	REFLINE SIZE ,SUCT./LIQ.O.D. INCH	7/8"- 3/8"	1 1/8"- 3/8"

NOTES: 1 PROVIDE PROGRAMMABLE THERMOSTAT W/SUB-BASE, AHU MOUNTED CIRCUIT BREAKER, SIGHT GLASS, SUCTION LINE FRIER DRIER.

2 COORDINATE REF. PIPING SIZES WITH MFGR PROVIDE ALL ACCESSORIES RECOMMENDED BY MFGR.

3 PROVIDE ALTERNATE BID FOR AIR HANDLING UNIT AND COND. UNIT TO HAVE ACRYLIC COATING ON ALL PARTS INCLUDING COILS & FINS (5 YEAR COATING & PRODUCT). OWNERS OPTION TO ACCEPT.

4. ELECTRICAL HEATER SHALL BE INSTALLED IN SUPPLY AIR DUCTS.

5. PROVIDE CRANKCASE HEATER, COMPRESSOR START ASSIST, CYCLE PROTECTOR, SOLENOID VALVE, MOTOR MASTER CONTROL, TIME DELAY, LOW & HIGH PRESSURE SWITCH.

SPLIT HEAT PUMP SYSTEM FOR WORKROOM. AHUU/HP:

"CARRIER" SYSTEM 5.5 ONE 018 OR EQUIVALENT, 40 ONE 018 FAN COIL UNIT WALL MOUNTED, 38BK 018 OUTDOOR HEAT PUMP UNIT, 17,300 BTUH TOTAL CAPACITY, 11,800 BTUH SENSIBLE CAPACITY, 16,900 BTUH HIGH HEATING CAPACITY, 11.5 SEER, 2.85 COP, 6.8 HSPF, 455 CFM. PROVIDE CRANKCASE HEATER AND SOLENOID VALVE. COMPRESSOR RLA 11.7 AMPS, FAN 0.7 AMPS, 15.3 MCA, INDOOR FAN FLA 0.53 AMPS. 230V-1-60.

HVAC LEGEND

AHU	AIR HANDLING UNIT
CU	CONDENSING UNIT
EF	EXHAUST FAN
(T)	THERMOSTAT (PROGRAMMABLE)
UC	1" UNDERCUT (ALL BEDROOM DOORS, TOILET DOORS & AS INDICATED)
HP	HEAT PUMP UNIT.

HVAC GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH FLORIDA BUILDING CODE, FLORIDA ENERGY EFFICIENCY CODE AND ALL LOCAL ORDINANCES.
2. CONTRACTORS SHALL FURNISH ALL LABOR MATERIALS, EQUIPMENT, PERMITS, FEES, INSPECTIONS, AND INSURANCE ETC. REQUIRED
3. CONTRACTOR SHALL VERIFY SPACE CONDITIONS AND DIMENSIONS AND SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO FABRICATING DUCTWORK OR INSTALLING EQUIPMENT OR PIPING.
4. AIR CONDITIONING DUCTWORK SHALL BE CONSTRUCTED OF ONE AND HALF INCH THICK (R-6 MINIMUM) FIBERGLASS DUCTBOARD WITH REINFORCED ALUMINUM FOIL FACED COVERING FABRICATED AND INSTALLED PER S.M.A.C.N.A RECOMMENDATIONS. USE R-4.2 IN CONDITIONED SPACE.
5. ALL VENTILATION AND EXHAUST DUCTWORK SHALL BE OF GALVANIZED SHEET METAL CONSTRUCTION AS PER S.M.A.C.N.A. RECOMMENDATIONS.
6. REFRIGERANT PIPING SHALL BE TYPE "L" COPPER TUBING SIZED AND INSTALLED PER MANUFACTURER RECOMMENDATIONS. INSULATE SUCTION AND CONDENSATE PIPING WITH 3/4 INCH THICK FOAM PLASTIC OF FIRE RETARDANT TYPE 25/50 MAXIMUM SMOKE DEVELOPED AND FLAME SPREAD RATING RESPECTIVELY PER TEST IN NFPA- 255. FINISH, WHERE EXPOSED WITH TWO COATS OF ACRYLIC LACQUER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
7. ALL EQUIPMENT, MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. COMPRESSOR SHALL CARRY A FIVE-YEAR FACTORY GUARANTEE.
8. AIR CONDITIONING SYSTEM SHALL BE BALANCED TO OBTAIN COMFORT CONDITIONS WITHOUT DRAFT IN ALL AREAS AND TO DELIVER AIR QUANTITIES INDICATED IN THE DRAWINGS.
9. THERMOSTAT SHALL BE HEAT /COOL TYPE WITH FAN AND SYSTEM SELECTOR SWITCH ON SUB-BASE MOUNT 54" ABOVE FINISHED FLOOR WHERE SHOWN OR PER HANDICAP CODE REQUIREMENTS
10. ALL DUCT ELBOWS GREATER THAN FORTY-FIVE (45) DEGREES SHALL BE FITTED WITH TURNING VANES.
11. ALL DUCT DIMENSIONS INDICATED IN THE DRAWINGS ARE CLEAR AIR- SIDE DIMENSIONS.
12. PROVIDE READY ACCESSIBILITY TO DAMPERS AND OTHERS PARTS OF THE SYSTEM REQUIRED TO BE REACHED FOR MAINTENANCE OR OPERATIONS.
13. VERIFY ALL VOLTAGES WITH ELECTRICAL CONTRACTORS BEFORE ORDERING ANY EQUIPMENT.
14. VIBRATION ISOLATION: ALL EQUIPMENT AS PER MANUFACTURE'S RECOMMENDATIONS OR AS SCHEDULE ON DRAWINGS.
15. ALL OUTSIDE EQUIPMENT SHALL BE SECURED TO WITHSTAND 150 M.P.H. WINDS.
16. ALL EQUIPMENT SHALL BE AS SPECIFIED OR APPROVED EQUAL SUBMIT SHOP DRAWINGS.
17. FLEXIBLE DUCT SHALL BE FACTORY FABRICATED ROUND DUCTWORK COMPOSED OF CORROSION-RESISTANT METAL ENCLOSED IN POLYESTER FILM, THEN COVERED WITH 1 1/2 INCH THICK 3/4 PCF (R 6 MINIMUM) DENSITY FIBERGLASS INSULATION BLANKET SHEATHED IN A VAPOR BARRIER OF ALUMINUM METALIZED POLYESTER FILM LAMINATED TO GLASS MESH, MASTIC BACK COATED. THE DUCT SHALL COMPLY WITH NFPA BULLETIN 90-A AND BE LISTED AS CLASS 1 AIR DUCT, UL 181. DUCT SHALL BE "WIREMOLD" TYPE WG OR EQUAL. USE R-4.2 IN CONDITIONED SPACE.
18. UNDERGROUND REFRIGERANT PIPING IF ANY, SHALL RUN IN PVC CONDUIT WITH SEALED ENDS.
19. AIR CONDITIONING RIGID DUCTWORK SHALL BE FACTORY FABRICATED FIBERGLASS DUCTWORK FOR VELOCITY TO 2000 FPM. RIGID DUCTWORK MAY BE FIELD FABRICATED OF COATED FIBERGLAS IN ACCORDANCE WITH FACTORY INSTRUCTIONS

APPROVED
CITY OF HOLLYWOOD, FLA.
M.CHANGON

2/12/24

Innovative Engineering Group Inc. CA#6717
5532 N.W. 72nd Ave
Miami, FL 33166
305-888-9826
Sudhir K. Gupta, P.E.
Fla. Reg. No. 29169

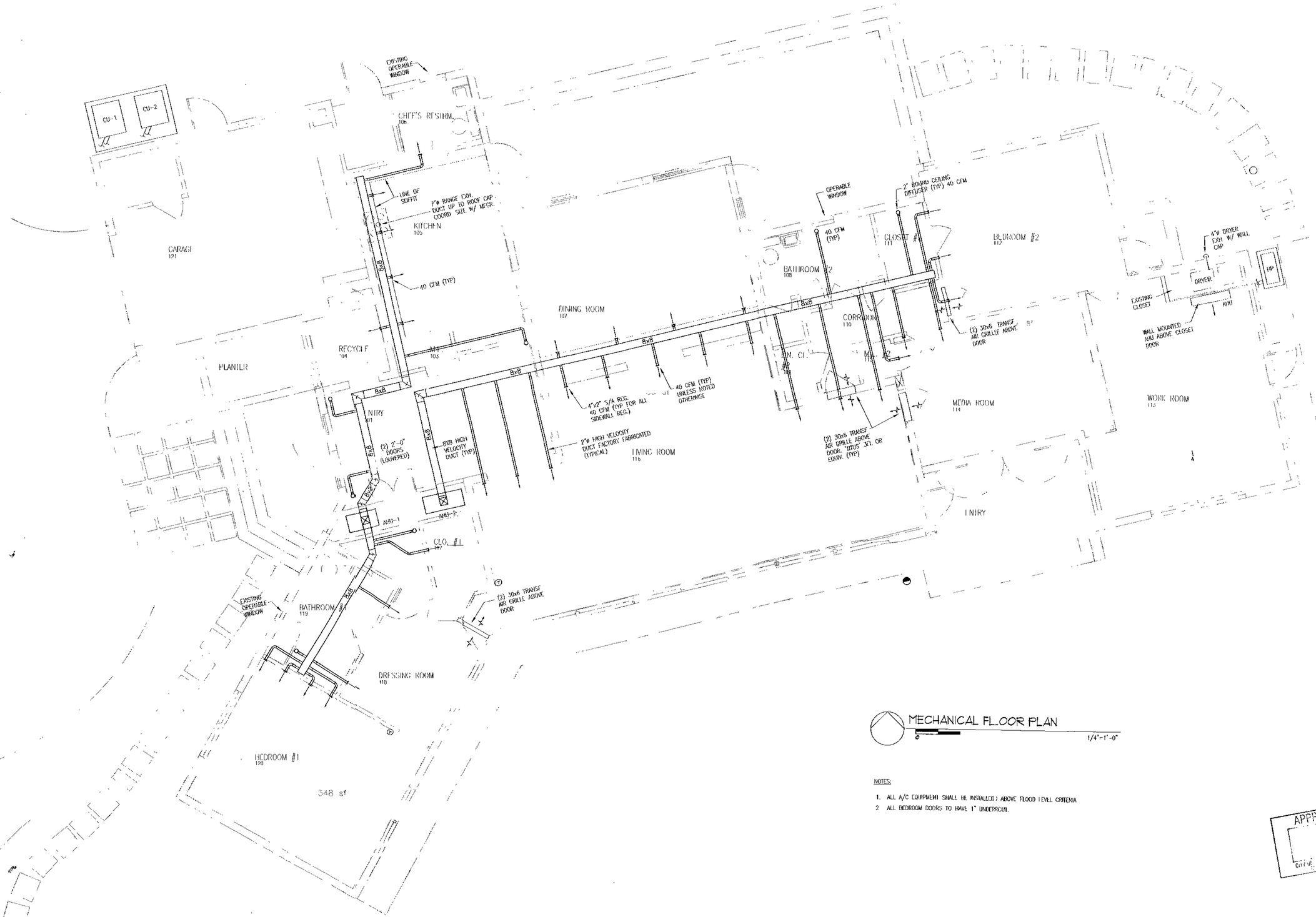
JORGE MIGUEL HERNANDEZ
ARCHITECTURE
ARCHITECTURE PLANNING
LOT 1 WOOD
FLORIDA

Revisions

a restoration & addition for the
BULLOCK RESIDENCE
1201 N. South Lake Drive
Hollywood, FL.

Date: 02-5-24

Sheet M-1 of



MECHANICAL FLOOR PLAN

1/4"=1'-0"

NOTES:

1. ALL A/C EQUIPMENT SHALL BE INSTALLED ABOVE FLOOD LEVEL CRITERIA
2. ALL BEDROOM DOORS TO HAVE 1" UNDERCUT.

APPROVED

CITY OF HOLLYWOOD, FLA.

Innovative Engineering Group Inc. CA#6717
5532 N.W. 72nd Ave
Miami, FL 33166
305-888-9626
Sudhir K. Gupta, P.E.
Fla. Reg. No. 29199

2/12/04

Sheet M-2 of

Date: 02-17-04

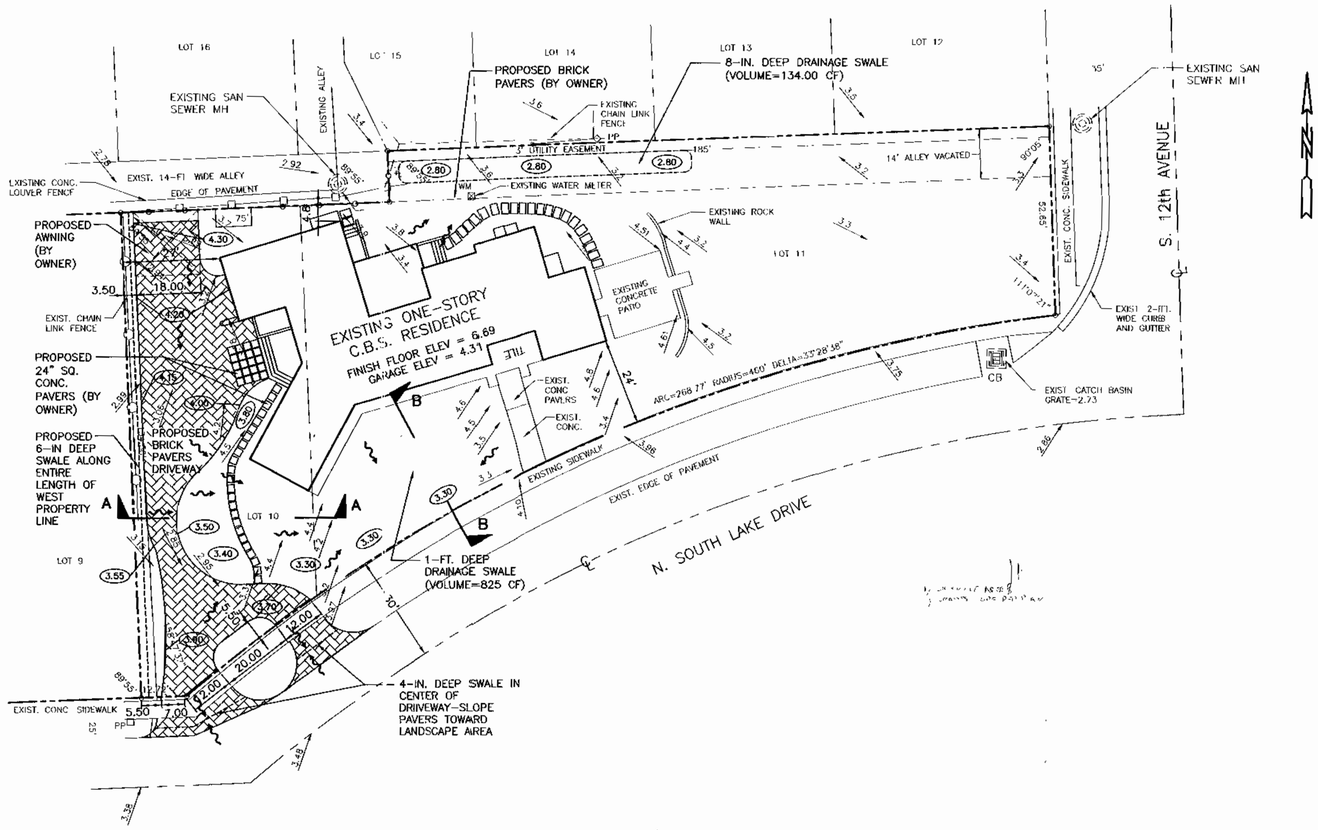
Revisions

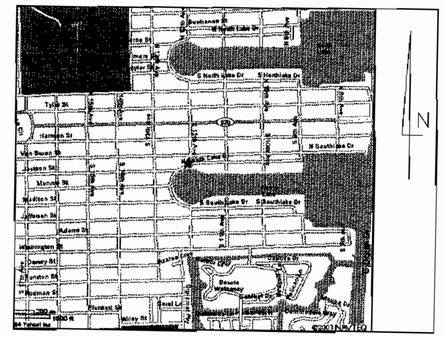
a restoration & addition for the

BULLOCK RESIDENCE

120 N. Coun Lake Drive Hollywood, Fla.

JORGE MIGUEL HERNANDEZ
ARCHITECTURE
FLORIDA





LOCATION MAP

NOT TO SCALE

DRAINAGE CALCULATIONS

AREA OF NEW DRIVEWAY = 2,732.77 S.F.

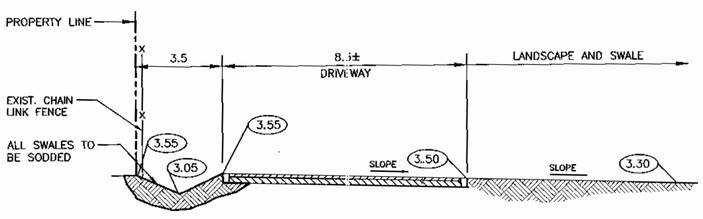
DRAINAGE RETENTION REQUIRED:
2,732.77 S.F. x 0.9 x 2.5" x FT/12
= 512.39 C.F.

DRAINAGE RETENTION PROVIDED IN SWALES ON WEST SIDE AND SOUTH SIDE OF PROPERTY = 938.75 C.F.

AREA OF BUILDING ADDITION AND PATIO = 639 S.F.

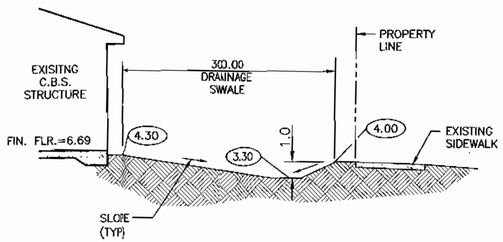
DRAINAGE RETENTION REQUIRED:
639 S.F. x 0.9 x 2.5" x FT/12 = 119.8 C.F.

DRAINAGE RETENTION PROVIDED IN SWALE ON NORTH SIDE OF PROPERTY = 134.00 C.F.



SECTION A-A

N.T.S



SECTION B-B

N.T.S.

LEGEND

- PROPOSED PRECAST CONCRETE PAVERS
- (8.60) PROPOSED ELEVATION
- PROPOSED SURFACE FLOW
- 7.10 EXISTING ELEVATION
- O PP EXISTING WOOD POWER POLE
- OE EXISTING OVERHEAD POWER
- EXISTING FENCE

DRAINAGE PLAN AND SECTIONS

SCALE 1" = 20'-0"

C:/CADD/04-35/04-36_C1 KJH 07/29/04

FINAL APPROVAL

FLA. REG. ENG. NO. 41831

SCALE: 1"=20'

DATE: 07/23/04

FIELD BOOK: N.A.

DRAWN BY: KJH

DESIGNED BY: SCH

CHECKED BY: SCH

HOLLAND ENGINEERING INC.
civil engineers
111 SOUTH 21ST AVENUE - HOLLYWOOD - FL - 33020
(954)367-0371 - (954)367-0372 Fax
SUSAN C. HOLLAND, PE
Reg. no. 41831

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

DRAINAGE PLAN AND SECTIONS FOR BULLOCK RESIDENCE
1201 N. SOUTHLAKE DRIVE
HOLLYWOOD, FLORIDA

NO. OF SHEETS: 1

SHEET NO.: C-1

CAD FILE NO. 04-36

EXISTING ELECTRICAL SERVICE TO BE REPLACED

120/240 - 1Ø - 60HZ
400 AMP meter combo

CHEF'S RESTROOM
104

KITCHEN
105

GARAGE
121

DINING ROOM
107

RECYCLE
102

M.E.
103

PLANTER

ENTRY
101

LIVING ROOM
116

M.E. CLOSET
117

CLO. #1
111

BATHROOM #1
115

DRESSING ROOM
118

BEDROOM #1
120

BATHROOM #2
108

CLOSET #2
111

BEDROOM #2
112

CORRIDOR
110

LIN. CL.
109

M.E. #2
115

MEDIA ROOM
114

WORK ROOM
113

ENTRY

plugmold under window sill

plugmold 32" AFF

plugmold along baseboard

plugmold 34" AFF

plugmold 54" AFF

DRYER

WASHER

ELECTRICAL FLOOR PLAN

JORGE MIGUEL HERNANDEZ
ARCHITECTURE
FLORIDA
HOLLYWOOD

BUILDING PERMIT SET
FOR CONSTRUCTION

a restoration & addition for the
BULLOCK RESIDENCE
1201 N. South Lake Drive Hollywood, Fla.

Revisions
4-11-04
RESPONSE TO BLDG DEPT.
6-4-04
RESPONSE TO BLDG DEPT.

Date:
2-27-04

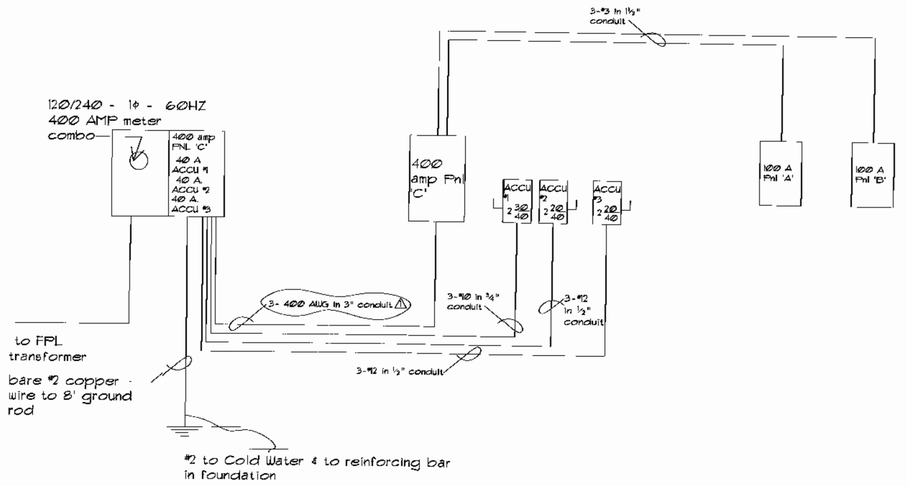
Sheet
E-1
of 2

7/28/04

ELECTRICAL SYMBOL LEGEND

ALL ELECTRICAL SYMBOLS MARKED WITH AN (X) ARE EXISTING TO BE REPLACED. THIS IS A SCHEMATIC REPRESENTATION BASED ON EXISTING DRAWINGS AND ARCHITECT'S LIMITED OBSERVATION, IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO VERIFY AND REPLACE ALL EXISTING ITEMS.

- EXHAUST FAN
- 240V OUTLET mounted as required by apppliance
- 120V-20A DUPLEX OUTLET, WATERPROOF
- 120V-20A DUPLEX OUTLET, ground fault interruptor
- 120V-20A DUPLEX OUTLET floor mounted
- 120V-20A DUPLEX OUTLET mounted 18" AFF
- 120V-20A DUPLEX OUTLET mounted 42" AFF
- TELEPHONE OUTLET mounted 42" AFF or as noted
- TELEPHONE OUTLET mounted 18" AFF
- TELEPHONE OUTLET floor mounted
- INTERCOM
- plugmold , (60" long strips, 10 outlets each MOD * V209GB506 &/or 36" long strips, 6 outlets each, MOD. *V209GB306 as Manuf. by WIREMOLD
- recessed wall washer light
- recessed light fixture
- ceiling surface mounted light fixture
- wall surface mounted light fixture
- COMPUTER OUTLET mOunted 42" AFF or as noted
- TELEVISION OUTLET munted 18" AFFF or as noted
- POWER CONDUIT RUN CONCEALED FROM VIEW
- SWITCHING CONDUIT RUN CONCEALED FROM VIEW
- 120V -20A TOGGLE SWITCH-42" AFF
- 2-2POLE, 3-3 WAY, 4-4 WAY, D-DIMMER, K-KEY, F-FAN SPEED CONTROL
- (S) smoke detector



ELEC. RISER DIAGRAM

N.T.S.

ELECTRICAL NOTES & SPECIFICATIONS

Electrical contractor shall wire and connect all motors, starters, controls or other electrical items provided by other trades.

Electrical contractor shall coordinate all work with the local electric and telephone utilities along with any communications and/or security companies involved in the project.

All fuses shall be time-delay current limiting, CLASS 'RK' (0-600A) or CLASS 'L' (0-600A). Fuses shall be sized as shown on the documents.

All wiring shall be copper, minimum size #12 AWG. Insulation shall be THHN or TWHN. All wiring shall be in conduit.

Electrical contractor shall replace all existing rubber covered wire with #12 copper THHN wire minimum. All switches and outlets shall be new. Switches and outlets shall be Decora as manufactured by Leviton.

All gutter and wireway sizes shall comply with N.E.C. article 361-5 and tables 373-6(A) & (B).

Electrical equipment exposed to the weather shall be waterproofed.

Conduit exposed to the weather shall be IMC or rigid galvanized steel. Flexible conduit shall only be used for short final connections to interior lighting fixtures and equipment. No conduit shall be run in the duct work. All conduits through the roof shall penetrate the roof using proper approved flashing.

All under ground conduit shall be heavy wall galvanized steel asphaltum plated, and wrapped with anti corrosion tape (SLIPKNOT #220 or equal) or schedule 40 PVC with proper size equipment grounding conductor. All sweeps and above floor extensions shall be heavy wall galvanized steel conduit. Seals shall be used whereever the conduit thru the floor or grade.

DEMAND LOAD CALCULATIONS

General lighting load	
3100 sq. ft. @ 3w/sq. ft.	9300 watts
2-20 amp appliance outlet	
circuits @ 1500 watts each	3000 watts
Laundry circuit	12000 watts
Range cooktop	8200 watts
Microwave oven	1450 watts
Double oven	7100 watts
Dishwashers (2)	2400 watts
Cothes dryer	5600 watts
Two water heaters @ 7500 watts each	15000 watts
TOTAL OTHER LOAD	64050 watts
1st 10 kW @ 100%	10000 watts
Remainder @ 40% (52.7 kW X .4)	21080 watts
	31080 watts
20.0 kW of heat load @ 65% (20.0 kW X 65)	13000 watts
Total calculated load	44080 watts

⚠ Calculated service load shall be 44080 watts/240volts = 183.66 amps

PANEL ID : A
VOLTAGE : 120/240
AMP RATING : 100
PHASE & WIRE : 1 ph, 3 wire
ISC RATING : 10,000

LOCATION : west wing
TYPE : 120/240
MOUNTING : FLUSH
NEMA RATING : 1
MAINS : MLO

CKT	BKR	WIRE/CON	DESCRIPTION	KW per PHASE		DESCRIPTION	WIRE/CON	BKR	CKT
1	20 AFCI	3-#12 IN 1/2" C.	bedroom #1 plugmold	1.9	1.9	bedroom #1 plugmold	3-#12 IN 1/2" C.	20 AFCI	2
3	20 AFCI	3-#12 IN 1/2" C.	bedroom #1 plugmold	1.9	1.9	bedroom #1 plugmold	3-#12 IN 1/2" C.	20 AFCI	4
5	20 AFCI	3-#12 IN 1/2" C.	bedroom #1 plugmold	1.9	1.9	dressing rm plugmold	3-#12 IN 1/2" C.	20 AFCI	6
7	20 AFCI	3-#12 IN 1/2" C.	LR west wall plugmold	1.9	1.9	LR west wall plugmold	3-#12 IN 1/2" C.	20 AFCI	⚠ 8
9	20 AFCI	3-#12 IN 1/2" C.	entry plugmold	1.9	1.9	entry plugmold	3-#12 IN 1/2" C.	20 AFCI	10
11	20 AFCI	3-#12 IN 1/2" C.	recyce plugmold	1.9	1.9	garage plugmold	3-#12 IN 1/2" C.	20 AFCI	12
13	20 AFCI	3-#12 IN 1/2" C.	garage plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20 AFCI	14
15	20 AFCI	3-#12 IN 1/2" C.	living rm. plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20 AFCI	16
17	20 AFCI	3-#12 IN 1/2" C.	living rm. plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20 AFCI	18
19	20 AFCI	3-#12 IN 1/2" C.	living rm. plugmold	1.9	1.9	living rm. plugmold	3-#12 IN 1/2" C.	20 AFCI	20
21	⚠ 20 AFCI	3-#12 IN 1/2" C.	smoke detectors	1.9	1.9	spare	3-#12 IN 1/2" C.	20	22
23	20	3-#12 IN 1/2" C.	spare	1.9	1.9	spare	3-#12 IN 1/2" C.	20	24
			demand load	22.8	22.8				

(.4) 45.6 (1000)/240 = 76 amps

PANEL ID : B
VOLTAGE : 120/240
AMP RATING : 100
PHASE & WIRE : 1 ph, 3 wire
ISC RATING : 10,000

LOCATION : east wing
TYPE : 120/240
MOUNTING : FLUSH
NEMA RATING : 1
MAINS : MLO

CKT	BKR	WIRE/CON	DESCRIPTION	KW per PHASE		DESCRIPTION	WIRE/CON	BKR	CKT
1	⚠ 20 AFCI	3-#12 IN 1/2" C.	media room plugmold	1.9	1.9	media room plugmold	3-#12 IN 1/2" C.	⚠ 20 AFCI	2
3	20 AFCI	3-#12 IN 1/2" C.	media room plugmold	1.9	1.9	media room plugmold	3-#12 IN 1/2" C.	20 AFCI	4
5	20 AFCI	3-#12 IN 1/2" C.	media room plugmold	1.9	1.9	bedroom #2 plugmold	3-#12 IN 1/2" C.	⚠ 20 AFCI	6
7	⚠ 20 AFCI	3-#12 IN 1/2" C.	bedroom #2 plugmold	1.9	1.9	bedroom #2 plugmold	3-#12 IN 1/2" C.	20 AFCI	8
9	20 AFCI	3-#12 IN 1/2" C.	bedroom #2 plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20 AFCI	10
11	20 AFCI	3-#12 IN 1/2" C.	workroom plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20 AFCI	12
13	20 AFCI	3-#12 IN 1/2" C.	workroom plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20 AFCI	14
15	20 AFCI	3-#12 IN 1/2" C.	workroom plugmold	1.9	1.9	workroom plugmold	3-#12 IN 1/2" C.	20 AFCI	16
17	20	3-#12 IN 1/2" C.	cloth washer	1.9	1.2	laundry circuit	3-#12 IN 1/2" C.	20 AFCI	18
19	30	3-#10 IN ¾" C.	dryer	5.1	5.0	ACCU #3 & AHU #3 *	3-#8 IN ¾" C.	50	20
21									22
23									24
			demand load		22.8				

50 * (.4 X 426) (1000)/240 = 885 A ⚠

PANEL ID : C
VOLTAGE : 120/240
AMP RATING : 250
PHASE & WIRE : 1 phase, 3 wires
ISC RATING : 10,000

LOCATION : C
TYPE : 120/240
MOUNTING : FLUSH
NEMA RATING : 1
MAINS : MLO

CKT	BKR	WIRE/CON	DESCRIPTION	KW per PHASE		DESCRIPTION	WIRE/CON	BKR	CKT
1	20 GFCI	3-#12 IN 1/2" C.	garage outlets & lig.	1.5	1.0	kit. toilet outlet & lig.	3-#12 IN 1/2" C.	20 GFCI	2
3	20	3-#12 IN 1/2" C.	refrigerator / freezer	1.6	1.9	appliance outlets #1	3-#12 IN 1/2" C.	20 GFCI	4
5	20 GFCI	3-#12 IN 1/2" C.	appliance outlets #2	1.9	1.9	apliance outlets #3	3-#12 IN 1/2" C.	20 GFCI	6
7	20	3-#12 IN 1/2" C.	kitchen exhaust fan	1.9	1.9	kitchen lighting	3-#12 IN 1/2" C.	20	8
9	20	3-#12 IN 1/2" C.	food disposal #1	1.9	1.9	food disposal #2	3-#12 IN 1/2" C.	20	10
11	20	3-#12 IN 1/2" C.	dishwasher #1	1.9	1.9	dishwasher #2	3-#12 IN 1/2" C.	20	12
13	20	3-#12 IN 1/2" C.	trash compactor	1.9	1.0	entry porch lighting	3-#12 IN 1/2" C.	20	14
15	20	3-#12 IN 1/2" C.	entry lighting	1.0	1.0	closets #1 & dressing	3-#12 IN 1/2" C.	20	16
17	20 GFCI	3-#12 IN 1/2" C.	bathroom #1	1.0	1.0	bedroom #1	3-#12 IN 1/2" C.	20	18
19	20	3-#12 IN 1/2" C.	dining & living roomss	1.0	1.0	living room	3-#12 IN 1/2" C.	20	20
21	20	3-#12 IN 1/2" C.	dining room	1.6	1.9	bathroom #2	3-#12 IN 1/2" C.	20 GFCI	22
23	20	3-#12 IN 1/2" C.	corridor	1.2	1.6	bedroom #2	3-#12 IN 1/2" C.	20	24
25	20	3-#12 IN 1/2" C.	enclosed porch	1.0	1.9	enc. porch & entry	3-#12 IN 1/2" C.	20	26
27	20	3-#12 IN 1/2" C.	recreation room	0.8	1.9	compiter main	3-#12 IN 1/2" C.	20	28
29	50	3-#6 IN 2" C.	ACCU #2 & AHU #2 *	10.0	5.7	range	3-#8 IN 1" C.	40	30
31	⚠								32
33			space		5.0	ACCU #1 & AHU #1 *	3-#8 IN 1" C.	40	34
35			space						36
37			space			space			38
39			space			space			40
41			space			space			42
			total load	31.3 KW (1000)/240 = 213.75 AMPS					

JORGE MIGUEL HERNANDEZ
P.A. REGISTERED ARCHITECT
ARCHITECTURE
REGISTERED ARCHITECT
HOLLYWOOD
FLORIDA

BUILDING PERMIT SET
FOR CONSTRUCTION

a restoration & addition for the
BULLOCK RESIDENCE
1201 N. South Lake Drive
Hollywood, Fla.

Revisions
⚠ 4-7-04 REVISIONS TO BLOCK DIAGRM.
⚠ 7-26-04 REVISIONS TO BLOCK DIAGRM.

Date: 2-27-04

Sheet E-1 of 2

7/26/04

WINGERTER
LABORATORIES INC.

Engineering Testing and Inspection Service
Established 1949

SCANNED
BUILDING DIV.

March 10, 2005

Mr. James Bullock
1201 North South Lake Drive
Hollywood, Florida 33019

RE: Addendum to Report of Subsurface Soil Exploration and Geotechnical Engineering Evaluation of Subsurface Conditions dated June 4, 2004
Proposed Residence Addition
1201 North South Lake Drive, Hollywood, Florida.
WLI Order No.: 04-1421

Dear Mr. Bullock:

WINGERTER LABORATORIES, INC. (WLI) is pleased to present this addendum to our Report of Subsurface Soil Exploration and Geotechnical Engineering Evaluation of Subsurface Conditions dated June 4th, 2004. This addendum is being provided at the request of Mr. Bill Seay in order to include a Helical Piers foundation alternative to provide support for the proposed residence addition.

Helical Piers:

Helical piers (such as the "Chance" or "Atlas" helix piers) can be easily installed in areas where there is restricted access to large equipment, and consist of 5 to 10 feet long steel shafts which are equipped with one, two or three helices of diameters ranging from 8 to 14 inches. These piers are installed by drilling the lead section (which contains the helices) into the soil first. Once the lead section is installed, solid shaft extensions are added and the pier installation procedures are continued until the pier attains the required depth and resistance.

Based on our evaluation of the subsurface data available and manufacture's technical documentation, using acceptable geotechnical engineering criteria, a helical pier with a minimum of a single, 14 inch diameter helix installed into the dense, limestone rock formation at a depth of approximately 10 to 13 feet will be required to provide support for a maximum allowable compressive capacity of 17 tons (34 kips). These same piers are expected to develop a safe, uplift capacity of 8 tons (16 kips).

Helical pier installation shall be performed by a qualified, licensed specialty contractor with experience in this type of work. Furthermore, installation of the helical piers shall be performed in accordance with the manufacture's installation specifications and guidelines.

The specialty contractor may substitute the single 14 inch diameter helix pier recommended herein with other diameters or multiple helices combinations of varying diameters, provided that the load bearing capacity requirements are maintained.

Helical piles that are rotated without further penetration are to be rejected unless load bearing capacity is verified by a load test. The helical pile can be relocated to an adjacent location approved by the structural engineer.

SCANNED
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Experience indicates that the actual subsoil conditions at a site could vary from those generated on the basis of test borings made at specific locations. Therefore, it is essential that a geotechnical engineer be retained to provide soil engineering services during the site preparation, excavation and foundation phases of the proposed project. This is to observe compliance with the design concepts, specifications and recommendations and to allow design changes in the event that subsurface conditions differ from those anticipated prior to the start of construction.

The geotechnical inspector as referenced hereinbefore shall be a Registered Professional Engineer licensed in the State of Florida and experienced in the practice of geotechnical engineering, or his designated field agent. The results of all inspections by the geotechnical inspector shall be submitted on report or log forms duly signed and sealed in accordance with Rule 61G15-18.011 of the Florida Administrative Code.

In dealing with the unseen subsurface dimension, a prudent test boring program acts to identify the general range of conditions and to reduce, but not eliminate, the risks of unknown conditions. Therefore, **WLI** cannot offer a warrantee, expressed or implied, that materials or conditions other than those revealed in the test borings will not be encountered, nor that the relative proportions and density of the materials will not vary from those reported.

Also, since the criteria furnished to **WLI** constitutes our total knowledge and understanding of the project; inaccuracies, deviations or alterations of the criteria may invalidate these recommendations to the extent they impact the magnitude, distribution, and elevation of applied loads, or impact the nature of the construction.

We appreciate this opportunity to be of service to you during this phase of the project. If you have any questions or comments regarding the information contained in this report, please call us at (305) 944-3401.

Prepared By:

Alexis Pamagua, EI
Geotechnical Engineer

Respectfully submitted,
WINGERTER LABORATORIES, INC.

3-1-05

Robert H. Schuler, P.E., P.G.
Florida Registration No. 34715
Special Inspector No. 0400

Time Charges: NC

The original of this report was signed and sealed by the above referenced Florida Registered Professional Engineer in accordance with Rule 61G15-18.011 of the Florida Administrative Code.

0803353

CITY of HOLLYWOOD, FLORIDA

DEPARTMENT OF DEVELOPMENT ADMINISTRATION

Letter of Transmittal

To: City of Hollywood
2600 Hollywood Blvd.
Hollywood, FL 33022-4807
Phone: (954) 921-3335 • Fax: (954) 921-3037

Date: 03/21/05
Process Number: 66066
E-Mail Address: W-SEAY@bellsouth.net
Project/Reference: BULLOCK

For Review By: (check ☑ all applicable spaces)

Division: ☒ Building ☐ Zoning ☐ Engineering ☐ Fire ☐ Water/Sewer ☐ Drainage

Discipline: ☒ Structural ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Reserve Capacity Charges

From: William Seay, Inc.
2020 Taylor St., 2C
Address: Hlwd., FL 33020

E-Mail Address: W-SEAY@bellsouth.net
Contact: William Seay
Phone: 954 923-0288 Fax: 954 923-3681

PLANS SUBMITTED: (check ☑)

☐ Architectural sheet #_____	☐ Fire sheet #_____
☒ Structural sheet # S1.1	☐ Zoning sheet #_____
☐ Electrical sheet #_____	☐ Engineering sheet #_____
☐ Mechanical sheet #_____	☐ RCC sheet #_____
☐ Plumbing sheet #_____	☐ Drainage sheet #_____
☐ Water sheet #_____	☐ Sewer sheet #_____

SCANNED APR 1 C 2005 BUILDING DIV.

WE ARE SUBMITTING TO YOU (check ☑)

Via ☒ hand delivery ☐ Postal delivery
☐ special delivery ☐ fax copy

- ☐ E-mail
- ☐ initial (original) sets of plans
- ☐ corrected (non-permitted) plans
- ☒ revised (permitted) plans
- ☐ shop drawings: ☐ structural steel, ☐ wood trusses, ☐ glass/glazing, ☐ product approvals, ☐ fire protection
- ☐ spot survey
- ☐ final survey
- ☐ energy (insulation) certification
- ☐ special inspector letter
- ☒ soil report – revision
- ☐ inspection reports
- ☐ energy calcs
- ☐ site plans
- ☐ other_____

Special Instructions:

change from Auger CAST to helical piles

For Departmental Use Only:

Received by: _____ Date: 3/22/05

ENGINEERING PACKAGE

0803353

FLORIDA
QUALITY TRUSS

TEL: (954) 975-3384
FAX: (954) 978-8980
3120 N.W. 16TH TERRACE
POMPANO BEACH, FL. 33064

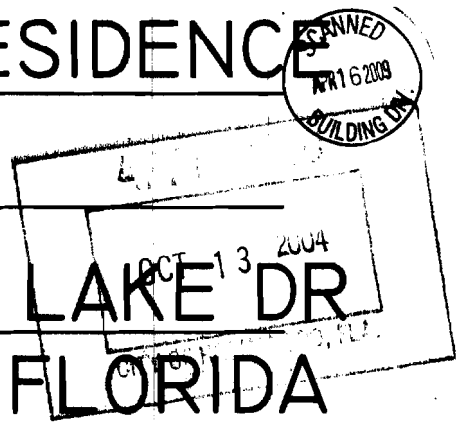
Customer BILL SEAY

Job # 04060

PROJECT BULLOCK RESIDENCE

COUNTY BROWARD

1201 S SOUTH LAKE DR
HOLLYWOOD, FLORIDA



Designer : RJF

REV:

REV:

C:\Documents and Settings\RobertFarley\Desktop\COVER2.DWG, 2/23/2004 4:08:35 PM, Bob

FLORIDA QUALITY TRUSS

POMPANO BEACH, FL 33064
Phone: 954-975-3384

Project:
Model:
Block No:
Lot No:

Contact: Site:
Name:
Phone: HOLLYWOOD, FLORIDA
Fax:
Office:

Tentative Delivery Date:

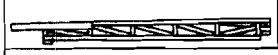
To:
BILL SEAY
954-394-8895

Deliver To:
BULLOCK RESIDENCE
HOLLYWOOD, FLOR

Production List

Job Number:
Page: 1
Date: 02-23-2004 - 4:07:18 PM
Project ID: 04060

Account No:
Designer: RJF
Salesperson:
Quote Number:

Profile:	Qty:	Truss Id:	Span:	Truss Type:	Slope:	LOH	ROH		
	4	(2) 2-Ply GE01 74 lbs. each	16 - 4 - 0 2X8/2X4	ROOF TRUSS	1 - 6 - 3 0.25 0.00	2 - 4 - 0	0 - 0 - 0	1142.0 Minutes	1
	2	GE02 86 lbs. each	16 - 4 - 0 2X8/2X4	ROOF TRUSS	1 - 6 - 0 0.25 0.00	2 - 4 - 0	0 - 0 - 0	613.0 Minutes	2
	10	M01 89 lbs. each	16 - 4 - 0	ROOF TRUSS	1 - 6 - 0 0.25 0.00	2 - 4 - 0	0 - 0 - 0	2239.0 Minutes	3

√ approved 10/4/04

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other requirements of the Contract.

By

SCAN
APR 1 0 2009
BUILDING DIV.

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Approval shall no
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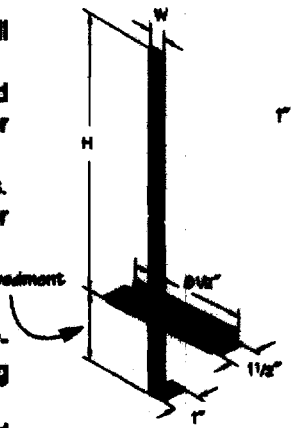
Specifications, correct dimen-
sions for proper fitting
, performance, construction or any
other requirements of the Contract.

By

APPROVED
OCT 13 2004

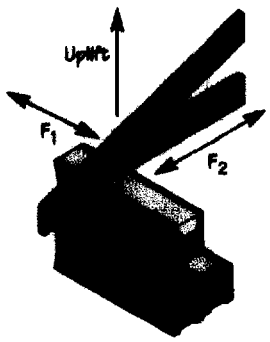
Installation:

- Use all specified fasteners. See General Notes, page 14.
- Embed 4" into concrete bond beam or block wall grout.
- For double anchor installations: anchors should be installed on opposite sides of wood member and centered in masonry bond beam.
- Designer may specify alternative nailing schedules. Refer to Nail Specification table on page 16 for nail shear values, load values shall not exceed published allowable loads.
- When using alternative nailing schedules, lowermost holes in strap shall be filled progressing upward towards the top of the strap.
- Moisture barrier may be required for HTA and TA installations.



TA22R

TA24



Typical TA18 installation

TA12 TA12R	--	1	6-SN												
TA14 TA14R	--	1	8-SN												
TA16 TA16R	--	1	10-SN												
TA18 TA18R	--	1	10-SN												

1) Allowable loads shown are for wind or seismic loads; no further increase shall be permitted.
2) Anchors shall be installed on opposite sides of the wood member, centered in masonry bond beam.
3) Minimum edge and end distance shall be 1-3/4" for SN nails.
4) Grout or concrete compressive strength shall be 2000 psi or greater at 28 days.
5) SN x 1-1/2" nails are 0.113" diameter by 1-1/2" long.
6) "R" after TA number indicates reduced knee version as in TA12R.
7) Double shear values for additional thicknesses may be interpolated.

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APR 16 2009
BUILDING DIV.

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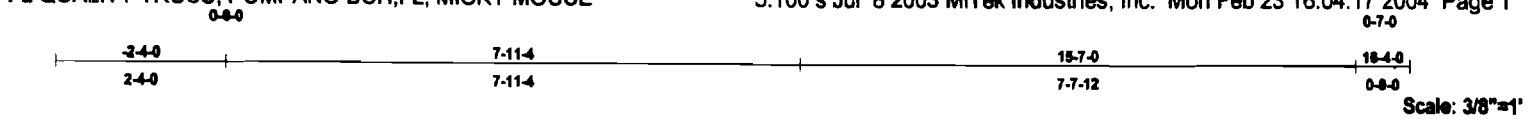
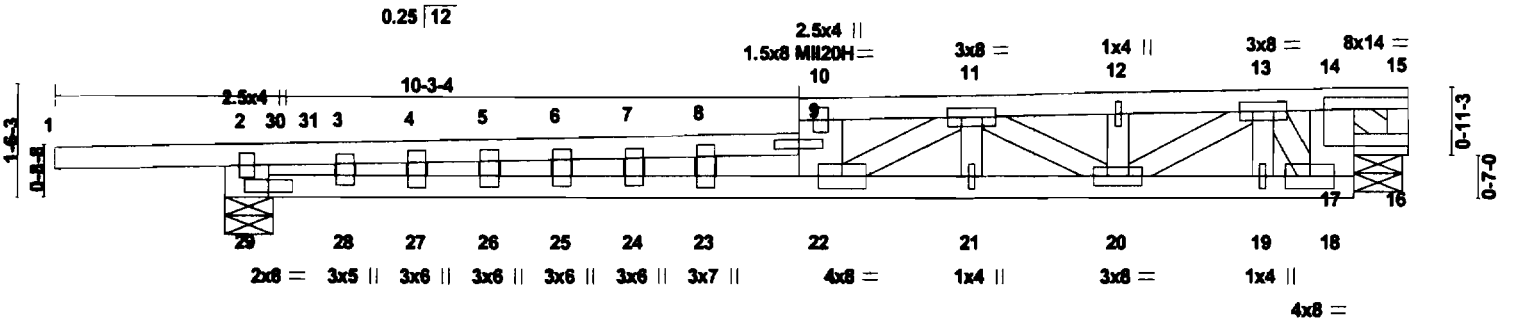
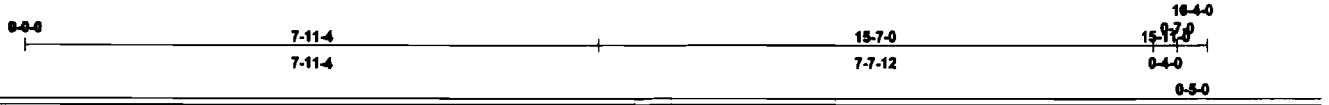
Job	Truss	Truss Type	Qty	Ply	04060 BULLOCK RESIDENCE
04060	GE01	JF TRUSS	2	2	Job Reference (optional)

FL QUALITY TRUSS, POMPANO BCH,FL, MICKY MOUSE 5.100 s Jul 8 2003 MiTek Industries, Inc. Mon Feb 23 16:04:17 2004 Page 1



Scale: 3/8"=1'





LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.49	Vert(LL)	0.14	23-24	>999	360	MII20	249/190
TCDL	15.0	Lumber Increase	1.33	BC	0.44	Vert(TL)	-0.18	23-24	>992	240	MII20H	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.19	Horz(TL)	-0.01	29	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 149 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP DSS *Except*
14-18 2 X 8 SYP No.1
WEBS 2 X 4 SYP DSS *Except*
2-29 2 X 8 SYP DSS, 10-22 2 X 8 SYP DSS
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 19-20,18-19,16-17.

REACTIONS (lb/size) 29=845/0-8-0, 16=-4304/0-8-0, 17=5471/0-8-0
Max Horz 17=62(load case 3)
Max Uplift29=-632(load case 3), 16=-4304(load case 1), 17=-3219(load case 3)
Max Grav29=845(load case 1), 16=2549(load case 3), 17=5471(load case 1)

FORCES (lb) - First Load Case Only
TOP CHORD 2-29=-579, 1-2=5, 2-30=-1564, 30-31=-1563, 3-31=-1562, 3-4=-1562, 4-5=-1561, 5-6=-1559, 6-7=-1558, 7-8=-1557, 8-9=-1557, 9-22=-243, 9-10=-102, 10-11=-771, 11-12=1074, 12-13=1074, 13-14=3176, 14-15=1014, 15-16=687
BOT CHORD 28-29=1557, 27-28=1557, 26-27=1557, 25-26=1557, 24-25=1557, 23-24=1557, 22-23=1557, 21-22=81, 20-21=31, 19-20=-2437, 18-19=-2437, 17-18=768, 14-17=-3506, 16-17=-4599
WEBS 13-19=214, 12-20=-191, 11-21=72, 13-18=-1173, 13-20=1586, 11-20=-1258, 11-22=833, 4-27=-39, 3-28=-44, 5-26=-39, 6-25=-42, 7-24=-30, 8-23=-65, 14-16=4323

NOTES
1) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 8 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 8 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) Wind: ASCE 7-98; 140mph; h=10ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed;C-C interior zone, end vertical left and right exposed;Lumber DOL=1.33 plate grip DOL=1.33.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Provide adequate drainage to prevent water ponding.
5) All plates are MII20 plates unless otherwise indicated.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.

Continued on page 2

APPROVED
OCT 13 2004
SCANNED
APR 16 2005
BUILDING DIV.
FEB 23 2004

Job	Truss	Truss Type	Qty	Ply	04060 BULLOCK RESIDENCE
04060	GE01	JOF TRUSS	2	2	Job Reference (optional)

NOTES

8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-94.
9) Bearing at joint(s) 29 considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 632 lb uplift at joint 29, 4304 lb uplift at joint 16 and 3219 lb uplift at joint 17.
11) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
12) Uplift for first LC exceeds limits

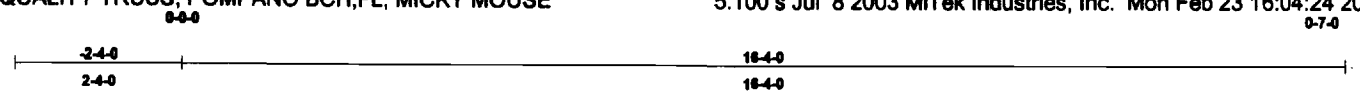
LOAD CASE(S) Standard

SCANNED
APR 16 2009
BUILDING DIV.

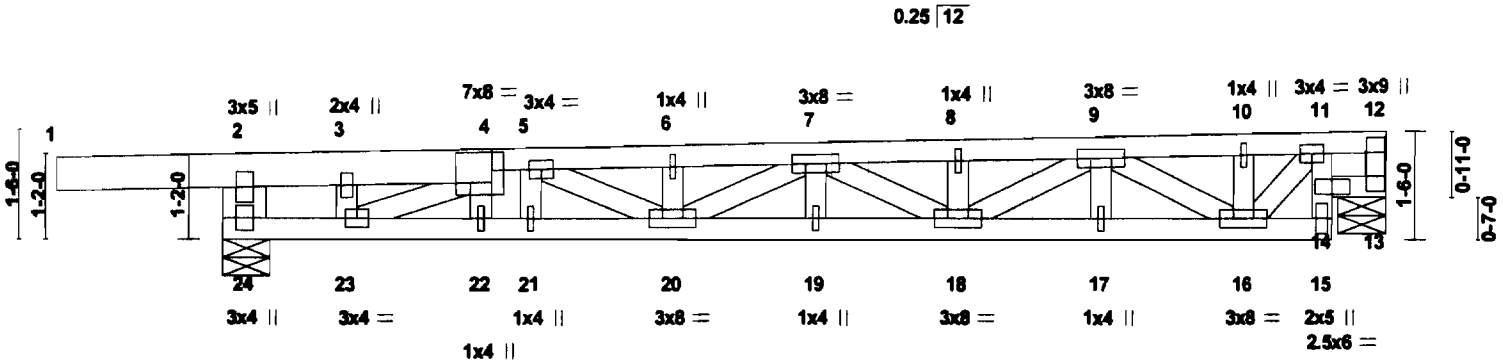
FEB 2 3 2004

Job	Truss	Truss Type	Qty	Ply	04060 BULLOCK RESIDENCE
04060	GE02	OF TRUSS	2	1	Job Reference (optional)

FL QUALITY TRUSS, POMPANO BCH,FL, MICKY MOUSE 5.100 s Jul 8 2003 MiTek Industries, Inc. Mon Feb 23 16:04:24 2004 Page 1



Scale: 3/8"=1'



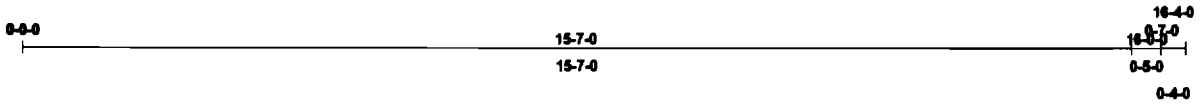


Plate Offsets (X,Y): [4:0-2-8,0-5-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.53	Vert(LL)	0.15	19	>999	360	MII20	249/190
TCDL	15.0	Lumber Increase	1.33	BC	0.69	Vert(TL)	-0.25	19-20	>775	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(TL)	0.02	13	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 87 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except* 1-4 2 X 6 SYP No.2
BOT CHORD 2 X 4 SYP DSS *Except* 11-15 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except* 2-24 2 X 8 SYP No.1
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 3-6-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-6 oc bracing.

REACTIONS (lb/size) 24=1131/0-8-0, 13=854/0-8-0
Max Horz 24=49(load case 3)
Max Uplift24=-710(load case 3), 13=-385(load case 3)

FORCES (lb) - First Load Case Only
TOP CHORD 2-24=-913, 1-2=5, 2-3=-685, 3-4=-671, 4-5=-2388, 5-6=-3003, 6-7=-3003, 7-8=-2813, 8-9=-2812, 9-10=-1192, 10-11=-1193, 11-12=-411, 12-13=-345
BOT CHORD 23-24=672, 22-23=2381, 21-22=2358, 20-21=2358, 19-20=3127, 18-19=3127, 17-18=2182, 16-17=2182, 15-16=567, 14-15=140, 11-14=-354, 13-14=417
WEBS 10-16=-214, 9-17=56, 8-18=-166, 7-19=50, 6-20=-202, 5-21=-63, 4-22=147, 5-20=714, 7-20=-143, 7-18=-357, 9-18=722, 9-16=-1138, 11-16=917, 3-23=557, 4-23=-1872

NOTES
1) Wind: ASCE 7-98; 140mph; h=10ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed;C-C interior zone; end vertical left and right exposed;Lumber DOL=1.33 plate grip DOL=1.33.
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
3) Provide adequate drainage to prevent water ponding.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-94.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 710 lb uplift at joint 24 and 385 lb uplift at joint 13.

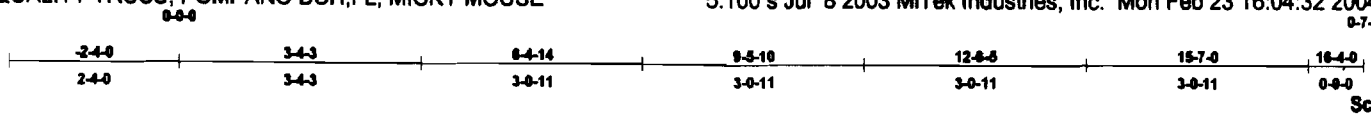
LOAD CASE(S) Standard

SCANNED
APR 16 2009
BUILDING DIV.

FEB 23 2004

Job	Truss	Truss Type	Qty	Ply	04060 BULLOCK RESIDENCE
04060	M01	OF TRUSS	10	1	Job Reference (optional)

FL QUALITY TRUSS, POMPANO BCH,FL, MICKY MOUSE 5.100 s Jul 8 2003 MiTek Industries, Inc. Mon Feb 23 16:04:32 2004 Page 1



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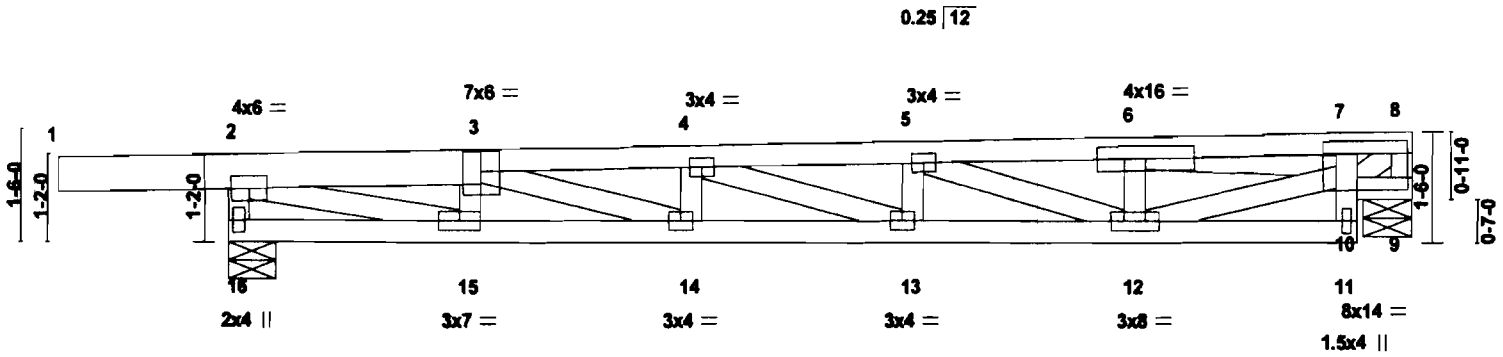


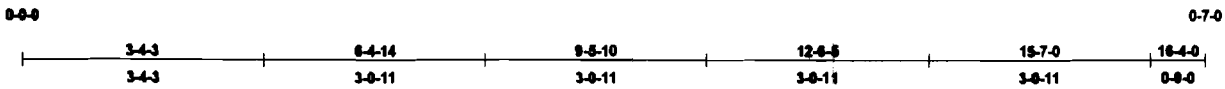


Plate Offsets (X,Y): [3:0-3-0,0-3-4], [9:0-5-8,0-4-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.86	Vert(LL)	0.13	13-14	>999	360	MII20	249/190
TCDL	15.0	Lumber Increase	1.33	BC	0.55	Vert(TL)	-0.21	13-14	>890	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(TL)	0.01	10	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 90 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
1-3 2 X 6 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 3-11-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 16=990/0-8-0, 9=-1847/0-8-0, 10=2845/0-8-0
Max Horz 16=49(load case 3)
Max Uplift16=-634(load case 3), 9=-1847(load case 1), 10=-1288(load case 3)
Max Grav16=990(load case 1), 9=836(load case 3), 10=2845(load case 1)

FORCES (lb) - First Load Case Only
TOP CHORD 2-16=-917, 1-2=5, 2-3=-1781, 3-4=-2373, 4-5=-1980, 5-6=-695, 6-7=1439, 7-8=1524, 8-9=1268
BOT CHORD 15-16=157, 14-15=1841, 13-14=2366, 12-13=1977, 11-12=-455, 10-11=51, 7-10=-672, 9-10=-448
WEBS 2-15=1667, 3-15=-392, 3-14=548, 4-14=-88, 4-13=-410, 5-13=187, 5-12=-1362, 6-12=260, 10-12=1170, 6-10=-2163, 8-10=-1408

SCANNED
APR 16 2009
BUILDING DIV.

NOTES
1) Wind: ASCE 7-98; 140mph; h=10ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed;C-C interior zone; end vertical left and right exposed;Lumber DOL=1.33 plate grip DOL=1.33.
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-94.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 634 lb uplift at joint 16, 1847 lb uplift at joint 9 and 1288 lb uplift at joint 10.
5) Uplift for first LC exceeds limits

LOAD CASE(S) Standard

FEB 2 3 2004

SCANNED
MAY 6 2009
BUILDING DIV.

FLORIDA QUALITY TRUSS

TEL: (954) 975-3384
FAX: (954) 978-8980
3120 N.W. 16TH TERRACE
POMPANO BEACH, FL. 33064

Customer BILL SEAY

Job # 05392 (FOMERLY 04060)

PROJECT BULLOCK ADDITION

APPROVED
SEP 11
CITY OF HOLLYWOOD, FL
STRUCTURAL

Designer : TL

Florida Quality Truss
3120 NW 16th Terr.
Pompano Beach , FL 33064

To:
BILL SEAY

Delivery List

Job Number: **05392**
Page: 1
Date: 10-19-2005 - 3:22:10 PM
Project ID: 05392

Project:
Model:
Block No:
Lot No:

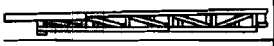
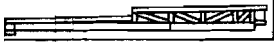
Contact:
Name:
Phone:
Fax:
Site:
Office:

Deliver To:
BULLOCK RESIDENCE

Account No:
Designer: T.L.
Salesperson:
Quote Number:

Tentative Delivery Date:

SCANNED NOV 16 2005

Profile	Qty:	Truss Id:	Span:	Truss Type:	Slope:	LOH	ROH		
	14	**MO1** 85 lbs. each	**16 - 4 - 0** 2X6/2X4	ROOF TRUSS	1 - 6 - 0 **0.25** 0.00	2 - 4 - 0	0 - 0 - 0		**1**
	2	(1) 2-Ply **GE02** 89 lbs. each	**16 - 4 - 0** 2X6/2X4	ROOF TRUSS	1 - 6 - 0 **0.25** 0.00	2 - 4 - 0	0 - 0 - 0		**2**
	4	(2) 2-Ply **GE01** 77 lbs. each	**16 - 4 - 0** 2X8/2X6	ROOF TRUSS	1 - 6 - 0 **0.25** 0.00	0 - 0 - 0	0 - 0 - 0		**3**

Job	Truss	Truss Type	Qty	Ply	BULLOCK ADDITION
05392	MO1	ROOF TRUSS	14	1	Job Reference (optional)

FL QUALITY TRUSS, POMPANO BEACH, FL. 33064, TL — 6.200 s Feb 11 2005 MiTek Industries, Inc. Wed Oct 19 14:56:07 2005 Page 1

-2-4-0	3-4-3	6-4-14	9-5-10	12-6-5	15-7-0	16-4-0
2-4-0	3-4-3	3-0-11	3-0-11	3-0-11	3-0-11	0-9-0

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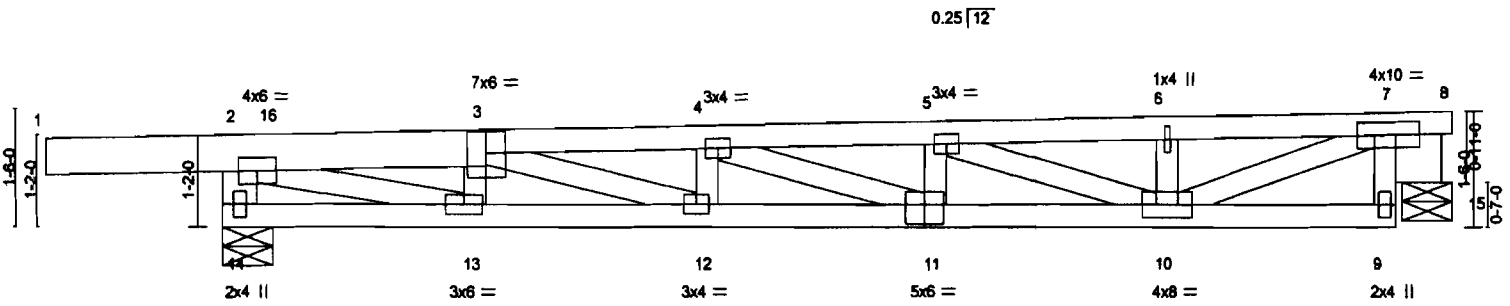


3-4-3	6-4-14	9-5-10	12-6-5	15-7-0	16-4-0
3-4-3	3-0-11	3-0-11	3-0-11	3-0-11	0-9-0

Plate Offsets (X,Y): [3:0-3-0,0-3-4], [7:0-2-12,0-2-0], [11:0-3-0,0-3-0]

LOADING (psf)		SPACING	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.25	TC	0.38	Vert(LL)	0.13	11-12	>999	360	MII20	249/190
TCDL	15.0	Lumber Increase	1.25	BC	0.67	Vert(TL)	-0.22	11-12	>811	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(TL)	0.02	15	n/a	n/a		
BCDL	10.0	Code FBC2001/TPI2002		(Matrix)							Weight: 85 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.2D *Except*
3-8 2 X 4 SYP No.3
BOT CHORD 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
2-14 2 X 6 SYP No.2D, 7-15 2 X 6 SYP SS

BRACING
TOP CHORD
Structural wood sheathing directly applied or 3-10-14 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 5-11-9 oc bracing.

REACTIONS (lb/size)
14 = 723/0-8-0
15 = 600/0-8-0
Max Horz
14 = 45(load case 5)
Max Uplift
14 = -382(load case 3)
15 = -233(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD								
2-14	= -672/490	1-2	= 0/3	2-16	= -1358/616			
3-16	= -1355/616	3-4	= -1915/948	4-5	= -1809/915			
5-6	= -1114/562	6-7	= -1113/565	7-8	= -1/0			
9-15	= -1/38	7-15	= -548/339					
BOT CHORD								
13-14	= -41/122	12-13	= -669/1404	11-12	= -962/1910			
10-11	= -924/1806	9-10	= -8/21					
WEBS								
2-13	= -666/1269	3-13	= -311/205	3-12	= -305/528			
4-12	= -105/105	4-11	= -109/40	5-11	= 0/74			
6-10	= -736/377	6-10	= -161/128	7-10	= -611/1170			

NOTES
1) Wind: ASCE 7-98; 140mph (3-second gust); h=10ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS interior zone and C-C Exterior(2) -2-4-0 to 0-8-0, Interior(1) 0-8-0 to 16-4-0 zone; end vertical left exposed; Lumber DOL=1.33 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
4) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 382 lb uplift at joint 14 and 233 lb uplift at joint 15.

LOAD CASE(S)
Standard

SCANNED APR 16 2009 BUILDING DIV.

MAR 01 2006

Job	Truss	Truss Type	Qty	Ply	BULLOCK ADDITION
05392	GE02	ROOF TRUSS	1	2	Job Reference (optional)

FL: QUALITY TRUSS, POMPANO BEACH, FL. 33064, TL — 6.200 s Feb 11 2005 MiTek Industries, Inc. Wed Oct 19 14:56:01 2005 Page 1

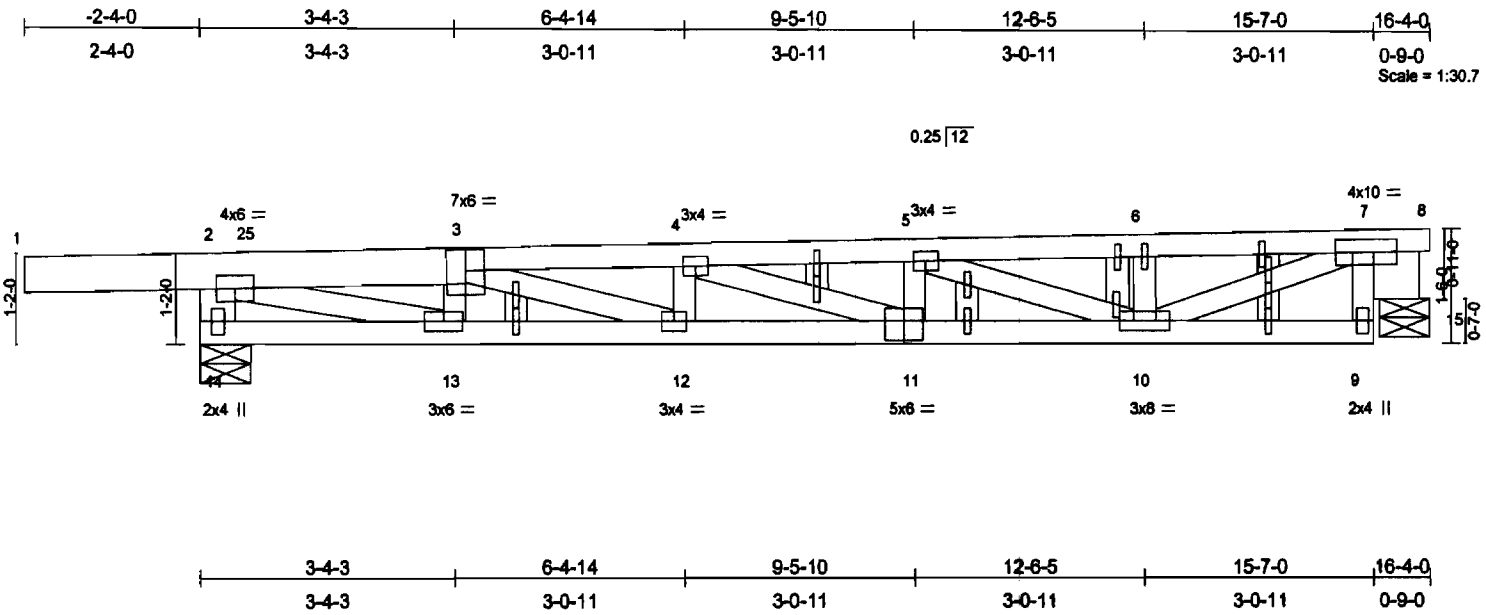


Plate Offsets (X,Y): [3:0-3-0,0-3-4], [7:0-2-12,0-2-0], [10:0-2-0,0-0-5], [11:0-3-0,0-3-0], [16:0-1-9,0-0-8], [22:0-2-1,0-0-4], [24:0-1-11,0-0-8]

LOADING (psf)		SPACING	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.25	TC	0.19	Vert(LL)	0.06	11-12	>999	360	MII20	249/190
TCDL	15.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	-0.11	11-12	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(TL)	0.01	15	n/a	n/a		
BCDL	10.0	Code FBC2001/TPI2002		(Matrix)							Weight: 178 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.2D *Except*
3-6 2 X 4 SYP No.3
BOT CHORD 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
2-14 2 X 6 SYP No.2D, 7-15 2 X 6 SYP SS
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

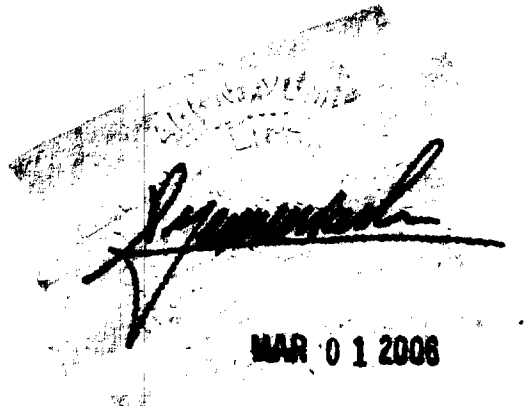
REACTIONS (lb/size)
14 = 723/0-8-0
15 = 600/0-8-0
Max Horz
14 = 45(load case 5)
Max Uplift
14 = -382(load case 3)
15 = -233(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD					
2-14	= -672/490	1-2	= 0/3	2-25	= -1356/816
3-25	= -1355/816	3-4	= -1915/948	4-5	= -1809/915
5-6	= -1114/562	6-7	= -1113/565	7-8	= -1/0
9-15	= -1/38	7-15	= -548/339		
BOT CHORD					
13-14	= -41/122	12-13	= -669/1404	11-12	= -962/1910
10-11	= -924/1806	9-10	= -8/21		
WEBS					
2-13	= -666/1269	3-13	= -311/205	3-12	= -305/528
4-12	= -105/105	4-11	= -109/40	5-11	= 0/74
5-10	= -736/377	6-10	= -161/128	7-10	= -611/1170

NOTES
1) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
Top chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc, 2 X 8 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-98; 140mph (3-second gust); h=10ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS interior zone and C-C Exterior(2) -2-4-0 to 0-8-0, Interior(1) 0-8-0 to 16-4-0 zone; and vertical left exposed; Lumber DOL=1.33 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1x4 MII20 unless otherwise indicated.
7) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
8) Gable studs spaced at 2-0-0 oc.
9) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 382 lb uplift at joint 14 and 233 lb uplift at joint 15.

LOAD CASE(S)
Standard



Job	Truss	Truss Type	Qty	Ply	BULLOCK ADDITION
05392	GE01	ROOF TRUSS	2	2	Job Reference (optional)

FL. QUALITY TRUSS, POMPANO BEACH, FL. 33064, TL — 6.200 s Feb 11 2005 MiTek Industries, Inc. Wed Oct 19 14:55:35 2005 Page 1

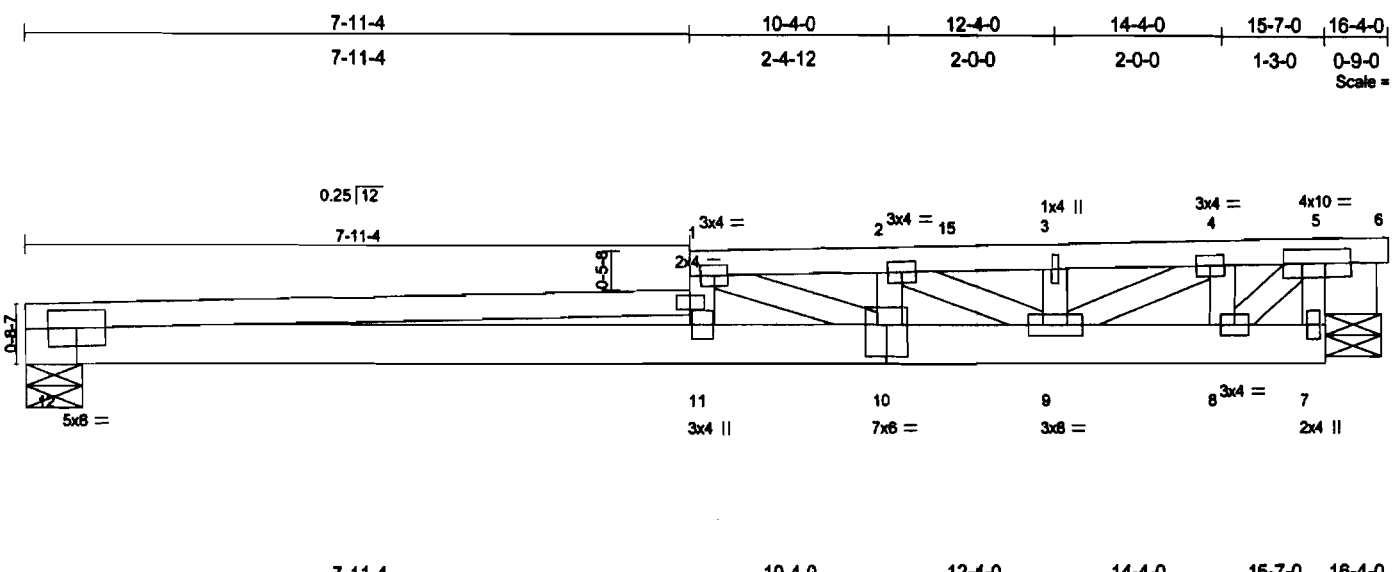


Plate Offsets (X,Y): [5:0-2-12,0-2-0], [10:0-3-0,0-4-8]

LOADING (psf)		SPACING	1-4-0	CSI		DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.78	Vert(LL)	0.28 11-12	>647	360	MII20	249/190
TCDL	15.0	Lumber Increase	1.33	BC	0.50	Vert(TL)	-0.40 11-12	>450	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.11	Horz(TL)	0.02 12	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)						Weight: 155 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.3
BOT CHORD 2 X 6 SYP No.2D *Except*
5-7 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
12-12 2 X 6 SYP SS, 5-14 2 X 6 SYP SS
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD
Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 7-8.

REACTIONS (lb/size)
12 = 207/0-8-0
14 = 490/0-8-0
Max Horz
14 = 51(load case 5)
Max Uplift
12 = -12(load case 4)
14 = -168(load case 4)
Max Grav
12 = 237(load case 2)
14 = 490(load case 1)

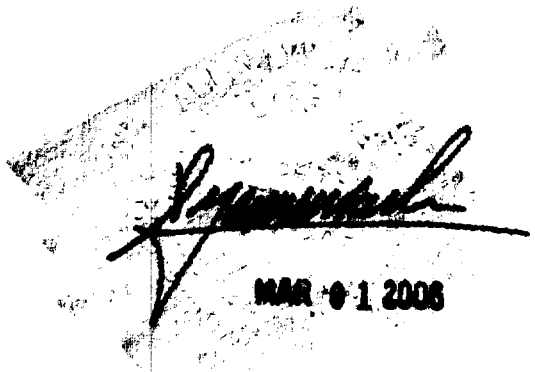
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD							
1-11	= -451/290	1-2	= -1271/747	2-15	= -861/539		
3-15	= -861/539	3-4	= -862/542	4-5	= -392/266		
5-6	= -1/0	7-14	= -7/22	5-14	= -464/324		
BOT CHORD							
11-12	= 0/0	10-11	= -291/593	9-10	= -666/1261		
8-9	= -199/392	7-8	= -22/63				
WEBS							
4-8	= -308/218	3-9	= -153/131	2-10	= -30/220		
5-8	= -351/554	4-9	= -316/533	2-9	= -447/233		
1-10	= -432/736						

NOTES
1) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-98; 140mph (3-second gust); h=10ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS interior zone and C-C Corner(3) 8-1-0 to 11-1-0, Exterior(2) 11-1-0 to 16-4-0 zone; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
5) Provide adequate drainage to prevent water ponding.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Bearing at joint(s) 12, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 12 and 168 lb uplift at joint 14.

LOAD CASE(S)
Standard

SCANNED MAR 16 2006 BUILDING DIV.



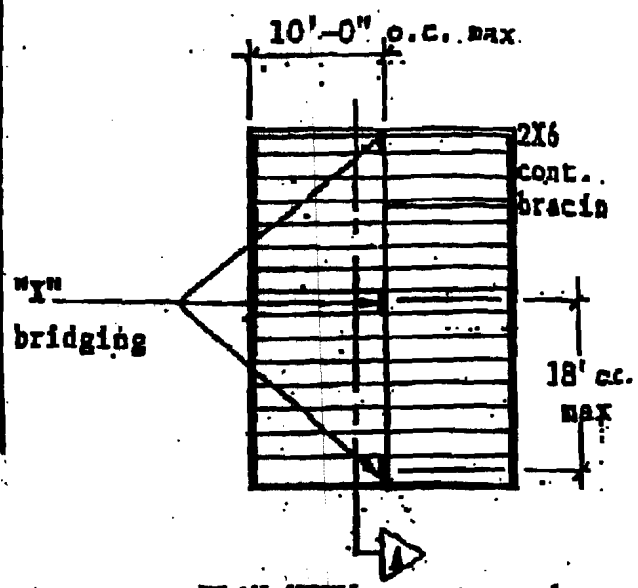
FLOOR TRUSS BRACING

<<<<Version 1.0>>>>

Customer :
Project #: 1 Truss ID :
Span : 30-6 QUANTITY : 1 Height : VARIES

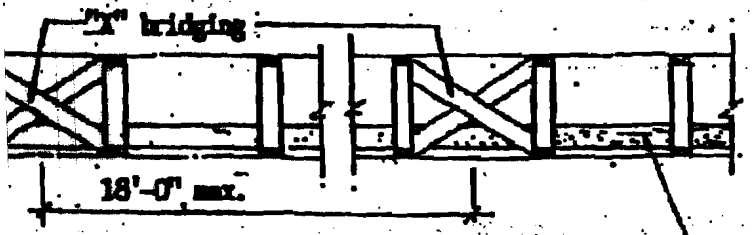
*** NOTES:**

nuous bracing to be 2X6, connected to truss framing anchor or 3-16d nails.
pans over 20'-0", add extra continuous ing attached to vertical web members to fy maximum 10'-0" o.c. spacing. Continuous ng may be replaced by continuous "X" bracing.
ridging to be provided at continuous bracing and in between (not to exceed 18'-0" o.c.) hall be 1X3 minimum with 2-8-d nails ch end.
ridging at ends of 2X6 continuous bracing e omitted if 2X6 is attached to wall or ained by other means.

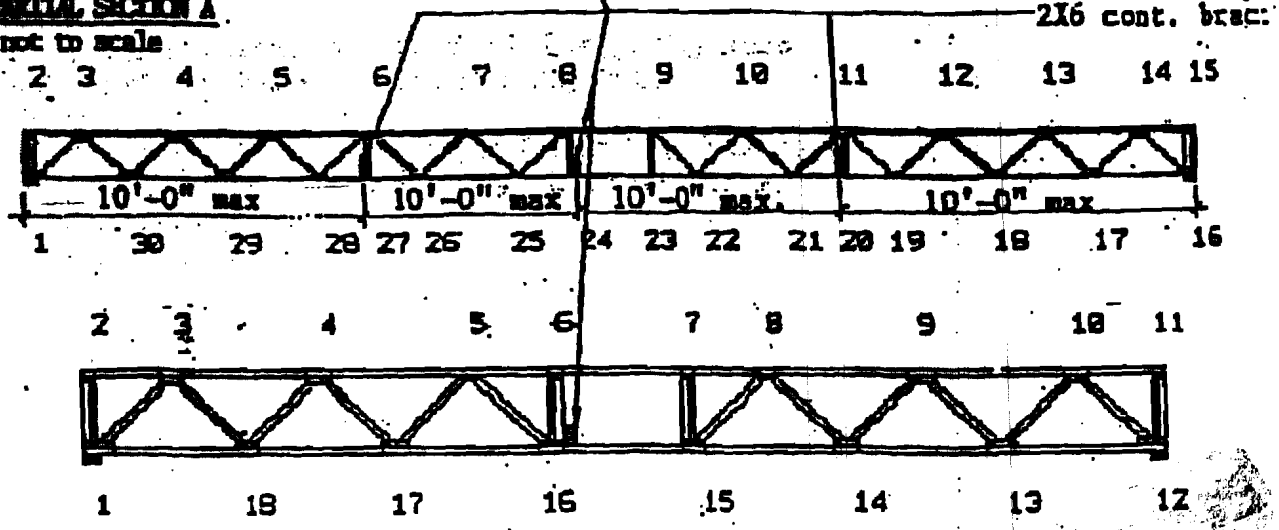


PLAN VIEW: not to scale

standard panel: 15 inches
opening is 24 inches



PARTIAL SECTION A
not to scale



SCANNED MAR 16 2006 BUILDING DIV.

LOADING (PSF)

	L	D
TOP	40	10
BOTT	0	5

STR.INC.: 1

SUGGESTED FLOOR TRUSS BRIDGING AND BRACING

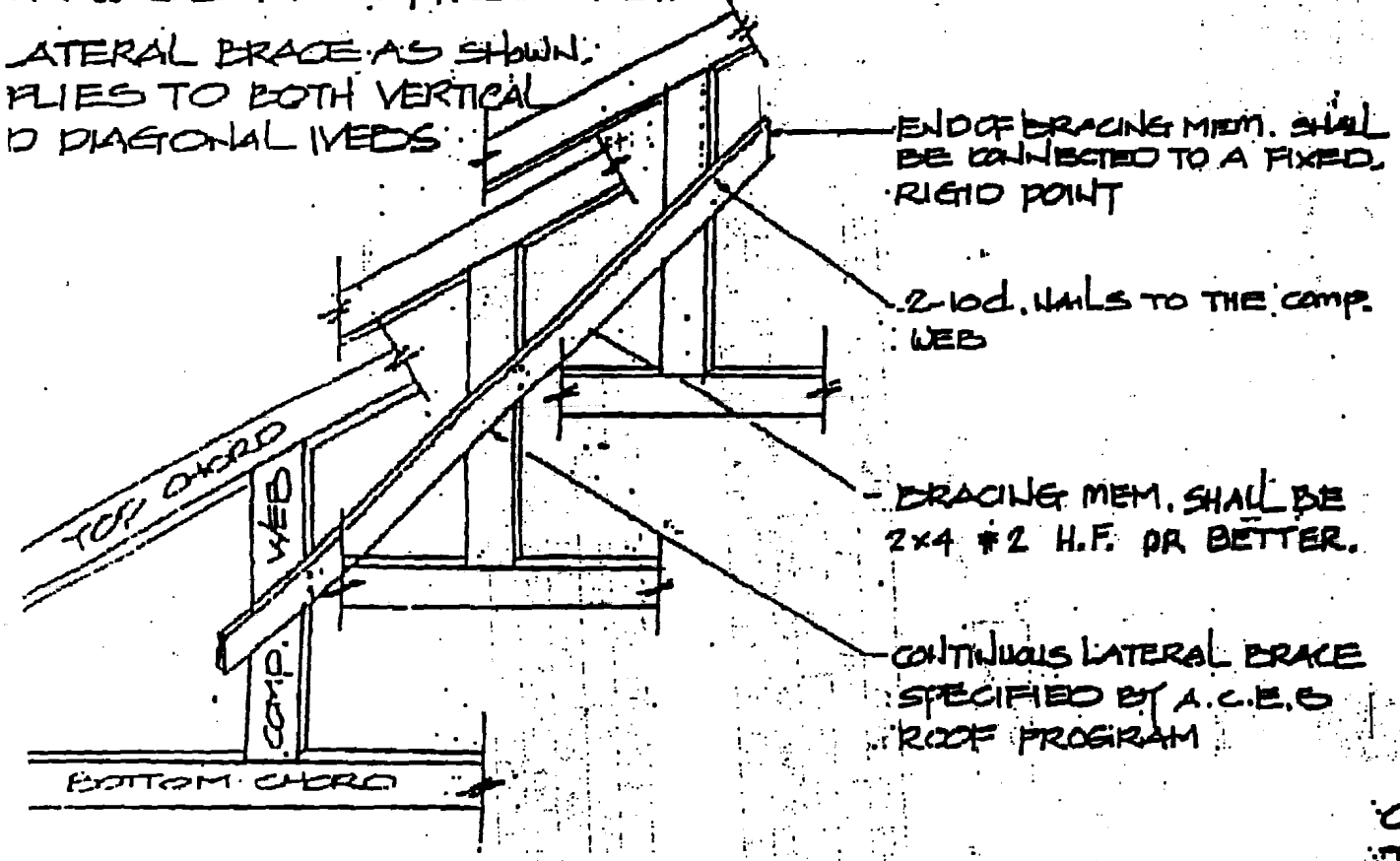
MINIMUM GRADE OF LUMBER
TOP CHORD: #2
BOT CHORD: #2
WEBS: #2

SPACING : 24 in. o.c.
NO. OF MEMBERS: 1

MAR 0 1 2006

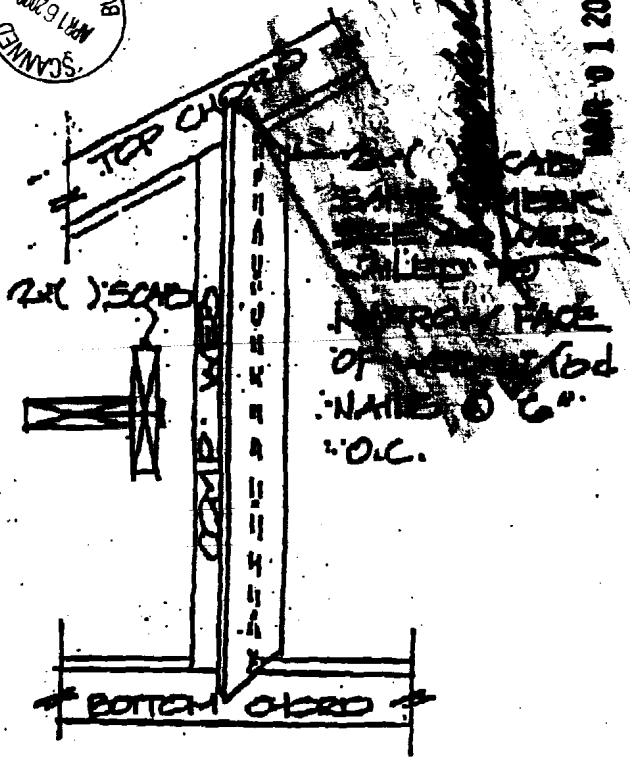
...SERVES AS
AN INTERPRETATION OF CONTINUOUS LATERAL BRACING
OF WEBS IN COMPRESSION STRESS.

LATERAL BRACE AS SHOWN.
PLIES TO BOTH VERTICAL
D DIAGONAL WEBS



½ POINTS OR ⅓ POINTS BRACING

MIN. LENGTH OF SCAB
0.8 x L (LENGTH OF WEB)

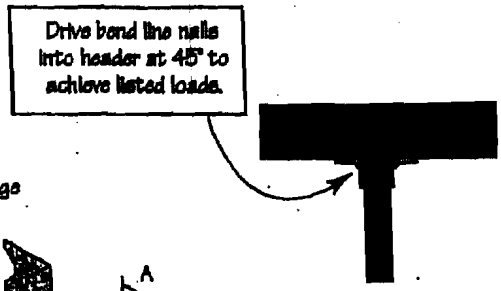


OPTIONAL T-BRACE IN CASE THAT CONTINUOUS LATERAL BRACE CAN NOT BE ACHIEVED

BEMAX OF FLORIDA.
STANDARD LATERAL BRACE
DETAIL FOR WEB

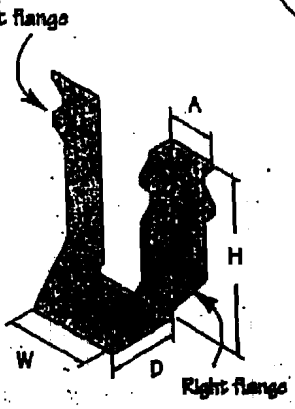
Heavy-Duty Face Mount Truss Hangers – THD series

Materials: See chart
Finish: G90 galvanizing
Options: See Specialty Options Chart. Rough/Full sizes available. THD26, THD28, THD26-2, THD28-2, & THD210-2 are available in Triple Zinc. To order, add *TZ*, to stock number, as in **THD28-TZ**. THD hangers with widths greater than 3" can have one flange inverted with no load reduction. Specify right *(R)* or left *(L)*.
Codes: SBCCI, BOCA – NER 478, FL815, L.A. City RR 25283, DSA PA-076

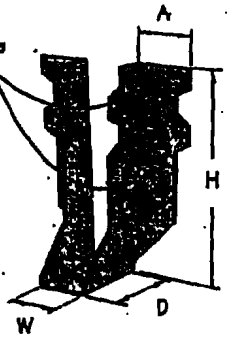


Typical THD bend line nail installation

Installation:
- Use all specified fasteners.
- Drive bend line nails into header at 45° to achieve listed loads.



THD28-2

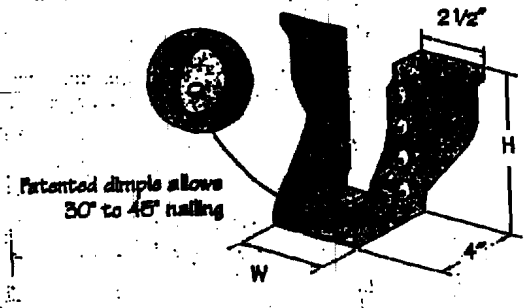


THD28

Joist / Truss Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions W	H	D	A	Fastener Schedule[2] Header	Truss	Allowable Loads (Lbs.) Floor 160%	Roof 115%	Roof 125%	Uplift[1] 133%	Uplift[1] 160%
2 x 6 - 8	THD26	--	18	1-5/8	5-1/16	3	1-7/8	(18) 16d	(12) 10d x 1-1/2	2480	2855	3090	1810	2170
2 x 6 - 10	THD26	--	18	1-5/8	7	3	1-7/8	(25) 16d	(16) 10d x 1-1/2	3885	3885	3885	2530	2530
(2) 2 x 6 - 8	THD26-2	HHUS26-2	14	3-7/16	5-3/8	3	2	(18) 16d	(12) 16d	2880	2880	3885	1800	2265
(2) 2 x 6 - 10	THD26-2	HHUS26-2	14	3-7/16	7-1/8	3	2	(25) 16d	(16) 16d	3885	4615	4885	3485	3485
(2) 2 x 10 - 12	THD210-2	HHUS210-2	14	3-7/16	9-1/8	3	2	(35) 16d	(20) 10d	5330	6135	6885	3145	3775
4 x 6 - 8	THD46	HHUS46	14	3-5/8	5-5/16	3	2	(18) 16d	(12) 10d	2880	2880	3885	1800	2265

Heavy-Duty Truss Hangers – THDH series

Materials: 12 gauge
Finish: G90 galvanizing
Options: See Specialty Options Chart. THDH28-2 is available in Triple Zinc. To order, add *TZ*, to stock number, as in **THDH28-2TZ**.
Codes: SBCCI, BOCA – NER 608, ICBO 2039, FL821
Patents: #5,217,317



THDH26-2

Installation:
- Use all specified fasteners.
- Drive joist nails into dimple guides at 30° to 45° to achieve listed loads.

Joist / Truss Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions W	H	Fastener Schedule[2] Header	Truss	Allowable Loads (Lbs.) Floor 160%	Roof 115%	Roof 125%	Uplift[1] 133%	Uplift[1] 160%
(2) 2 x 6 - 8	THDH26-2	HGUS26-2	12	3-1/4	5-1/2	(22) 16d	(8) 16d	4175	4800	5030	2605	2605
(2) 2 x 6 - 10	THDH26-2	HGUS26-2	12	3-1/4	7-1/4	(36) 16d	(16) 16d	6485	7455	7830	5185	5185
(3) 2 x 6 - 8	THDH26-3	HGUS26-3	12	5-1/8	5-3/8	(20) 16d	(8) 16d	3880	4460	4795	2235	2235
(3) 2 x 6 - 10	THDH26-3	HGUS26-3	12	5-1/8	7-1/8	(36) 16d	(10) 16d	6485	7455	8025	2605	2605

SCANNED MAR 16 2009 BUILDING DIV.

1) Uplift loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.
2) Joist nails need to be toe nailed at a 30° to 45° angle to achieve allowable loads shown.

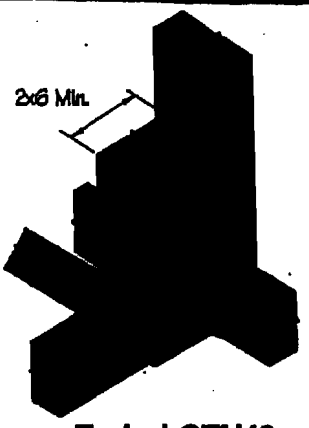
High Uplift Girder Truss Hangers – GTU & GTWS series

The *GTU* and *GTWS* series girder-to-girder hangers feature high uplift capacities along with high gravity load ratings.

GTU – Utilizes bolting through the vertical member of the supported truss, which spreads the load more effectively throughout the multiple truss members.

GTWS – Low profile version, which utilizes USP's *WS3 Wood Screw*, shown on page 18.

Materials: See chart
Finish: GTU – USP primer; GTWS – G90 galvanizing
Codes: SBCCI, BOCA – NER 532, FL577, FL578, FL819, Dade County, FL 04-0427.04 — GTU40 & GTU80, Dade County, FL 01-0724.06 — GTU100



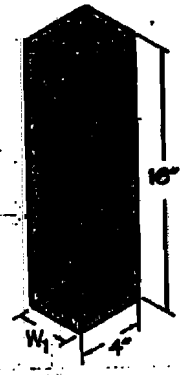
Typical GTU40 Installation

Typical GTWS Installation

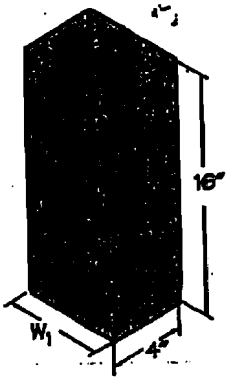
Installation

- Use all specified fasteners.
- WS Wood Screws are included with hangers where specified.
- GTU40 and GTU80 shall be installed to a minimum 2x6 vertical member of a girder truss having a maximum 2x8 bottom chord.
- GTU100 shall be installed to a minimum 2x10 vertical member of a girder truss having a maximum 2x8 bottom chord.
- GTWS2T shall be installed to a minimum 2x4 vertical member of a girder truss with no restriction on the size of the bottom chord.
- GTWS3T shall be installed to a minimum 2x6 vertical member of a girder truss with no restriction on the size of the bottom chord.
- GTWS4T shall be installed to a minimum 2x8 vertical member of a girder truss with no restriction on the size of the bottom chord.

GTU40



GTWS2T



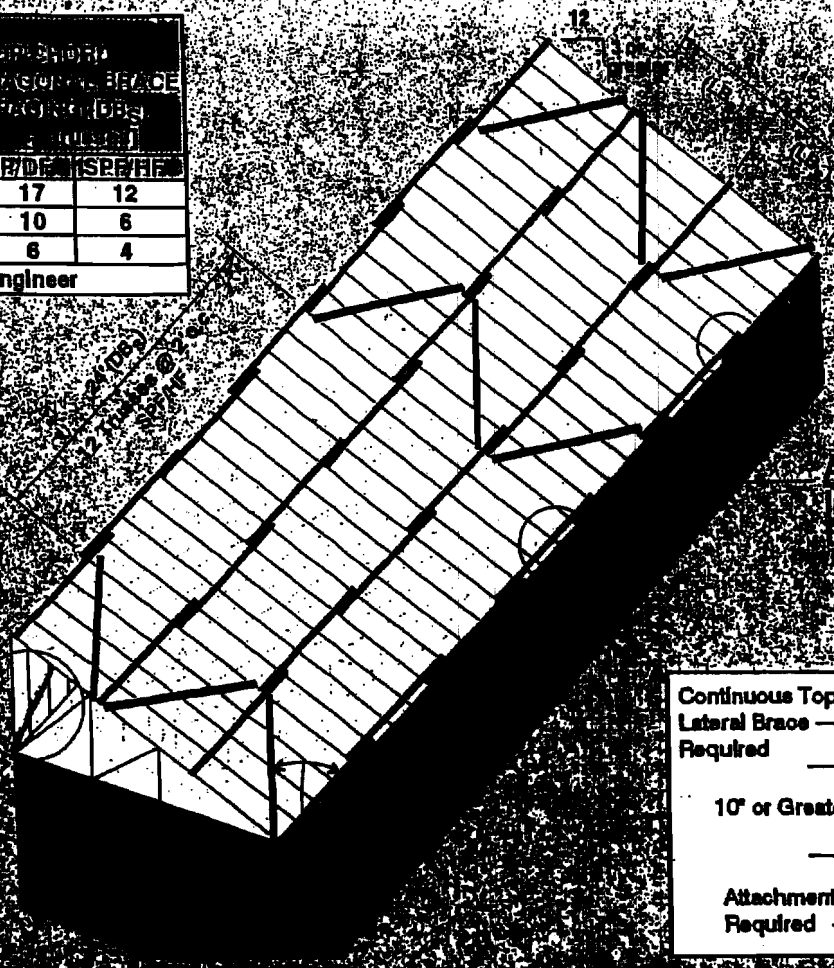
GTWS3T

USP Stock No.	Ref. No.	Steel Gauge	Dimensions W1	W2	H	D	Fastener Schedule[4] Supporting Truss Bolts[3,6]	Supporting Truss Wood Screws[5,7]	Supported Truss Bolts[3,6]	Supported Truss Nails	Supported Truss Wood Screws[5,7]	Allowable Loads (Lbs.)[1] 100%	115%	125%	Uplift[2] 133%	160%
GTU40	--	7	3-1/4	5-1/2	22-1/2	6	(6) 3/4	--	(2) 3/4	(6) 10d	--	7110	7110	7110	8250	8250
GTWS2T	--	10	3-1/4	--	16	4	--	(22) WS3	--	--	(16) WS3	6790	7740	8415	8530	7635
GTWS3T	--	10	4-7/8	--	16	4	--	(26) WS3	--	--	(24) WS3	6670	8555	10710	9790	11750

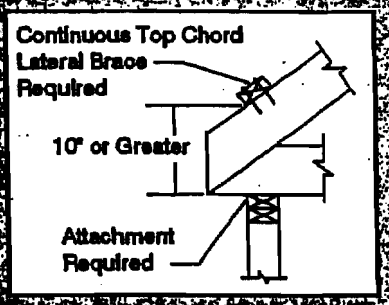
1) Allowable loads are based on 1997 NDS®.
2) Uplift loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.
3) Bolts shall conform to ASTM A 307 or better.
4) GTU series 3/4" girder bolts and GTWS WS3 wood screws require a minimum 3" wood penetration.
5) WS3 wood screws are 1/4" x 3" long and are included with the GTWS hangers.
6) All bolts of the GTU hangers shall be installed in the vertical member satisfying all code spacing requirements.
7) The wood screws of the GTWS hangers may be installed in both vertical and horizontal members.

SCANNED APR 16 2009 BUILDING DIV.

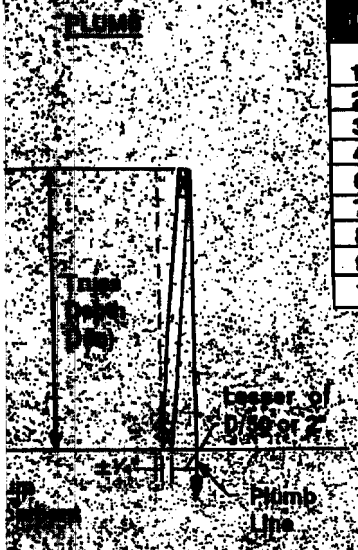
	3/12	8'	17	12
- 42'	3/12	7'	10	6
- 54'	3/12	6'	6	4
	See a registered professional engineer			



All lateral braces lapped at least 2 trusses

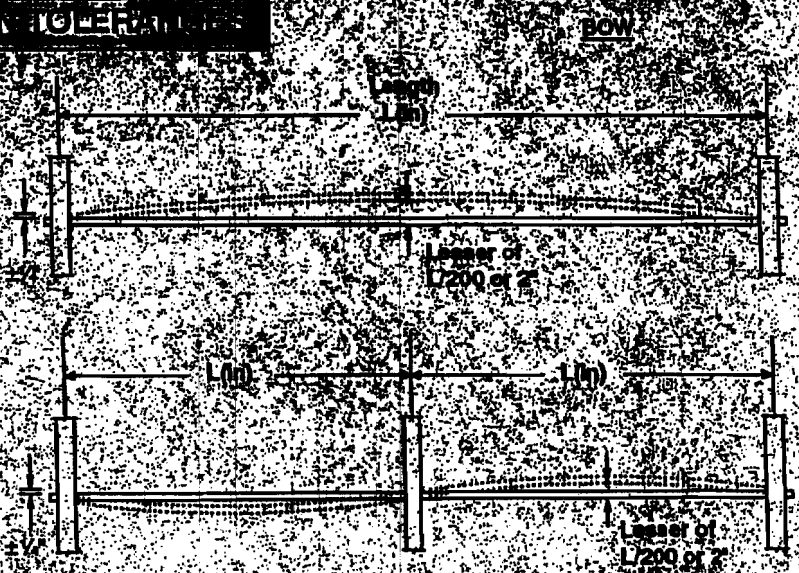


INSTALLATION TOLERANCES



12"	1/4"	1'
24"	1/2"	2'
36"	3/4"	3'
48"	1"	4'
60"	1-1/4"	5'
72"	1-1/2"	6'
84"	1-3/4"	7'
96"	2"	8'
108"	2"	9'

OUT-OF-PLUMB INSTALLATION TOLERANCES

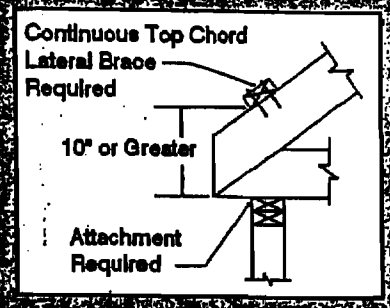


50"	1/4"	4.2'
100"	1/2"	8.3'
150"	3/4"	12.5'

200"	1"	16.7'
250"	1-1/4"	20.8'
300"	1-1/2"	25.0'

OUT-OF-PLANE INSTALLATION TOLERANCES

SPAN	ROOF PITCH	TOP CHORD LATERAL BRACE SPACING (o.c.)	DIAGONAL BRACE SPACING (o.c.)	
			2x4	SPF/HF
Up to 32'	4/12	8'	20	15
Over 32' - 48'	4/12	6'	10	7
Over 48' - 60'	4/12	5'	6	4
Over 60'	See a registered professional engineer			



Top chords that are laterally braced can buckle together and cause collapse if there is no diagonal bracing. Diagonal bracing should be nailed to the underside of the top chord when purlins are attached to the topside of the top chord.

SPAN	MINIMUM ROOF PITCH	[illegible]	[illegible]	[illegible]
Up to 32'	4/12	15'	20	15
Over 32' - 48'	4/12	15'	10	7
Over 48' - 60'	4/12	15'	6	4
Over 60'	See a registered professional engineer			

DF - Douglas Fir-Larch
HF - Hem-Fir

[illegible]

Cross bracing required at each end of the building and at 20' intervals.

Permanent continuous lateral bracing as specified by the truss engineering.

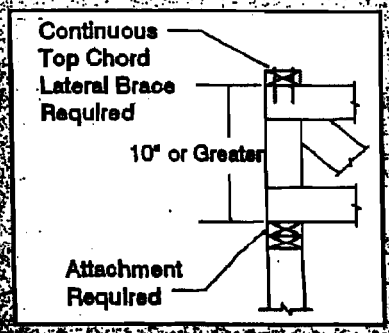
≈45°

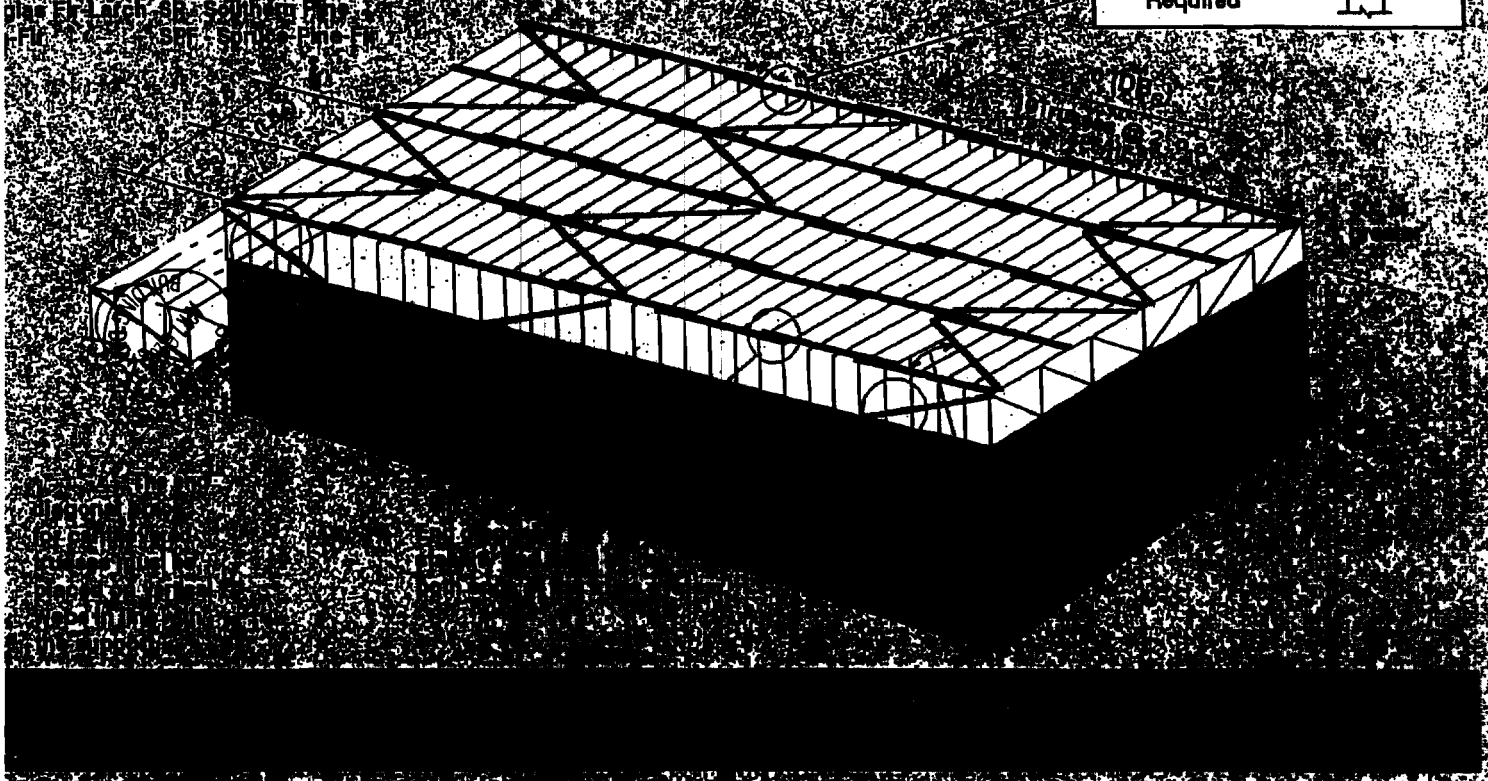
EB MEMBER PLANE

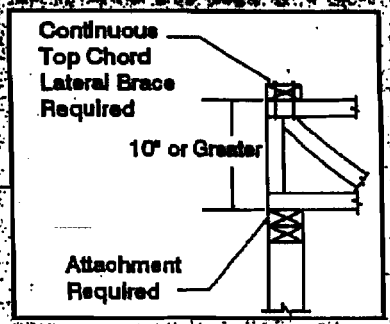
24/26 PARALLEL CHORD TRUSS

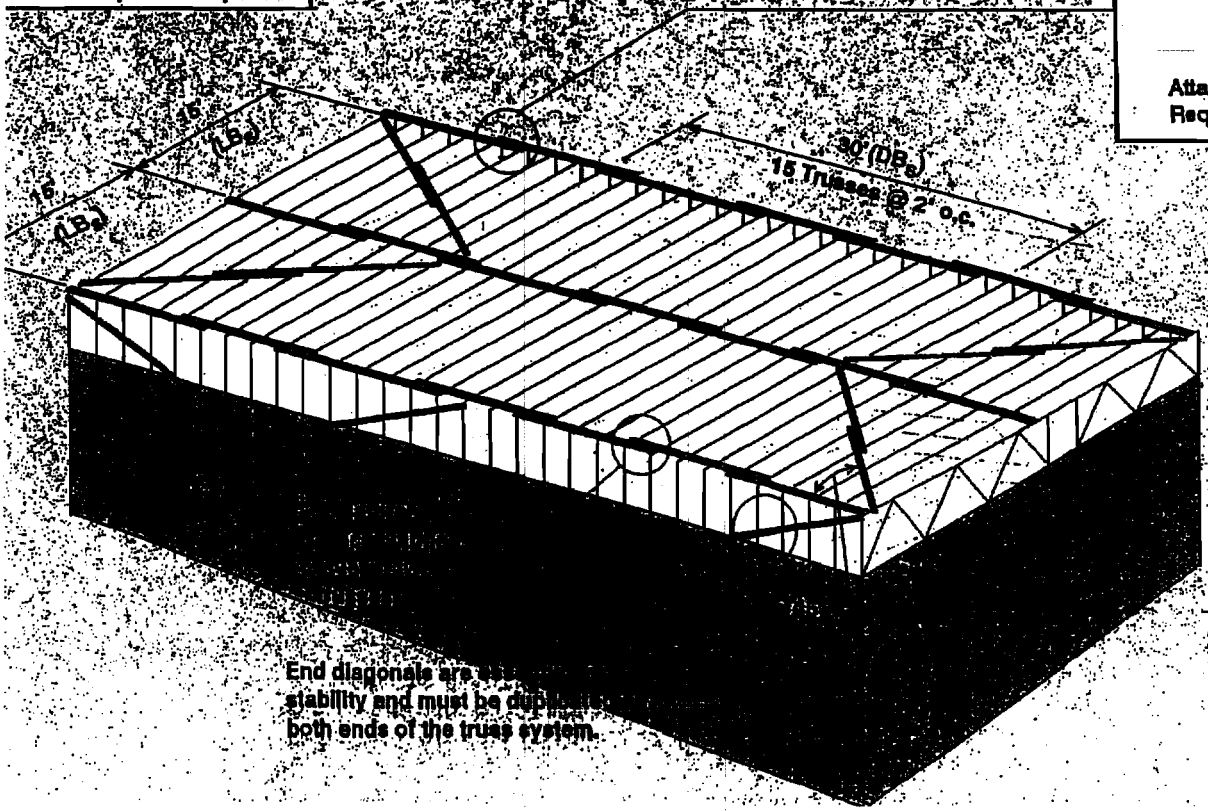
32'	30"	8'	16	10
32' - 48'	42"	6'	6	4
48' - 60'	48"	5'	4	2
60'	See a registered professional engineer			

Top chords that are laterally braced can buckle together and cause collapse if there is no diagonal bracing. Diagonal bracing should be nailed to the underside of the top chord when purlins are attached to the topside of the top chord.









Trusses must have lumber oriented in the horizontal direction to use this brace spacing.

MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

NOTICE OF ACCEPTANCE (NOA)

Raynor Garage Doors
1101 East River Road, P.O. Box 448
Dixon, IL 61021

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: TradeMark Steel Sectional Garage Door up to 18'-2" Wide

APPROVAL DOCUMENT: Drawing No. **P-3308**, titled "Spec, Wind Load TradeMark", sheets 1 through 3 of 3, dated 10/23/2009, prepared by the manufacturer, signed and sealed by Richard A. Baumann, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 10-0420.02** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

07/24/2012

APPROVED
MAY 12 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

NOA No. 12-0517.14
Expiration Date: October 20, 2015
Approval Date: August 2, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS *"Submitted under NOA # 10-0420.02"*

1. Drawing No. **P-3308**, titled "Spec, Wind Load TradeMark", sheets 1 through 3 of 3, dated 10/23/2009, prepared by the manufacturer, signed and sealed by Richard A. Baumann, P.E.

B. TESTS *"Submitted under NOA # 10-0420.02"*

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   Along with marked-up drawings and installation diagram of 16'x 7' TradeMark Sectional Steel Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-1102-09**, dated 02/03/2010, signed and sealed by Vinu J. Abraham, P.E.
2. Test report on Forced Entry Resistance Test, per FBC 2411 3.2.1, TAS 202-94 of two (one TradeMark and one Showcase) 16'x 7' Sectional Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0706-10**, dated 08/10/2010, signed and sealed by Vinu J. Abraham, P.E.
3. Test report on Tensile Test per ASTM E8, of steel sheet, prepared by Certified Testing Laboratories, Test Report No. **0037T**, dated 01/20/2010, signed and sealed by Ramesh Patel, P.E.
4. Test report on Salt Spray per ASTM B117 of painted G40 galvanized painted steel, prepared by Wendler Engineering Services, Inc., dated 04/12/2010, signed and sealed by Richard A. Baumann, P.E.

C. CALCULATIONS *"Submitted under NOA # 10-0420.02"*

1. Jamb attachment verification calculations, prepared by Wendler Engineering Services, Inc., dated 04/13/2010, signed and sealed by Richard A. Baumann, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

07/24/2012

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 12-0517.14
Expiration Date: October 20, 2015
Approval Date: August 2, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

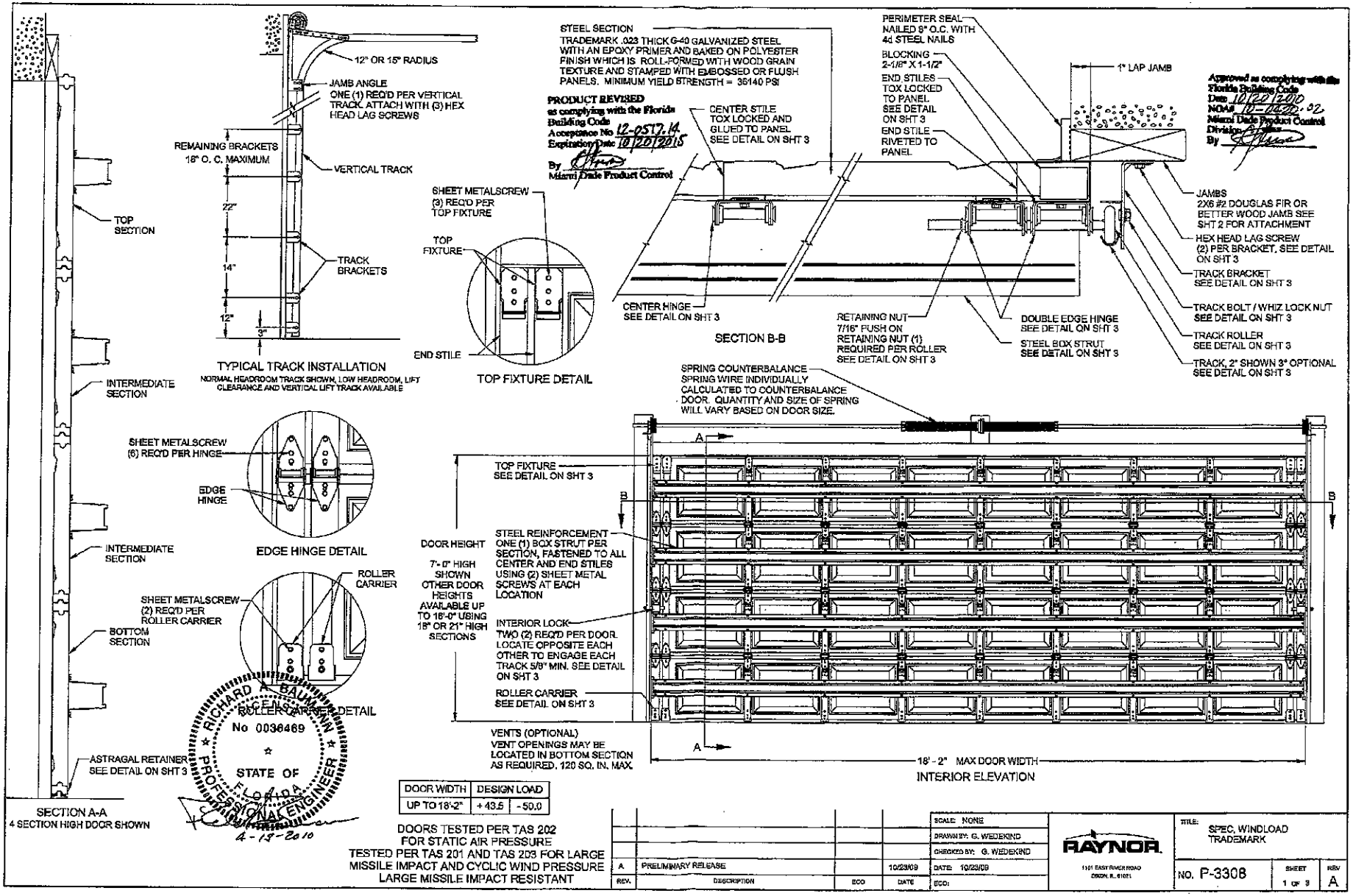
1. Statement letter of code conformance to 2010 FBC, issued by Wendler Engineering Services, Inc., dated 05/14/2012, signed and sealed by Richard A. Baumann, P.E.

   "Submitted under NOA # 10-0420.02"

2. Statement letter of code conformance with FBC 2007, issued by Wendler Engineering Services, Inc., dated 04/12/2010, signed and sealed by Richard A. Baumann, P.E.
3. Statement letter of no financial interest issued by Wendler Engineering Services, Inc., dated 04/12/2010, signed and sealed by Richard A. Baumann, P.E.

07/24/2012

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 12-0517.14
Expiration Date: October 20, 2015
Approval Date: August 2, 2012



DOOR WIDTH	DESIGN LOAD	
UP TO 18'-2"	+43.5	-50.0

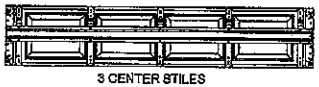
DOORS TESTED PER TAS 202 FOR STATIC AIR PRESSURE
TESTED PER TAS 201 AND TAS 203 FOR LARGE MISSILE IMPACT AND CYCLIC WIND PRESSURE
LARGE MISSILE IMPACT RESISTANT

REV.	DESCRIPTION	ECO	DATE
A	PRELIMINARY RELEASE		10/23/09

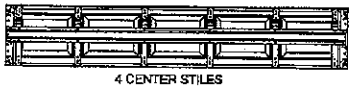
SCALE: NONE
DRAWN BY: G. WEDEKIND
CHECKED BY: G. WEDEKIND
DATE: 10/23/09
ECO:

RAYNOR
1101 EAST RIVER ROAD DIXON, IL. 61021

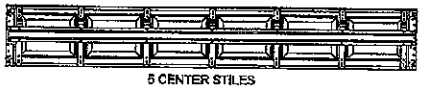
TITLE: SPEC, WINDLOAD TRADEMARK
NO. P-3308
SHEET 1 OF 3
REV A



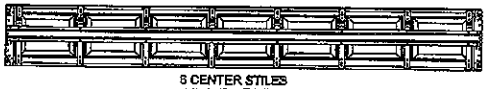
3 CENTER STILES
8' AND 9' WIDE



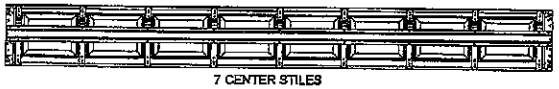
4 CENTER STILES
10' AND 11' WIDE



5 CENTER STILES
12' AND 13' WIDE



6 CENTER STILES
14' AND 15' WIDE

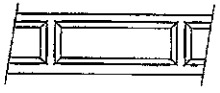


7 CENTER STILES
16' AND 18' WIDE

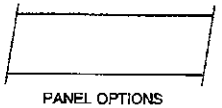
CENTER STILE LAYOUT
INTERIOR VIEW

COLONIAL PANEL

CARRIAGE HOUSE PANEL

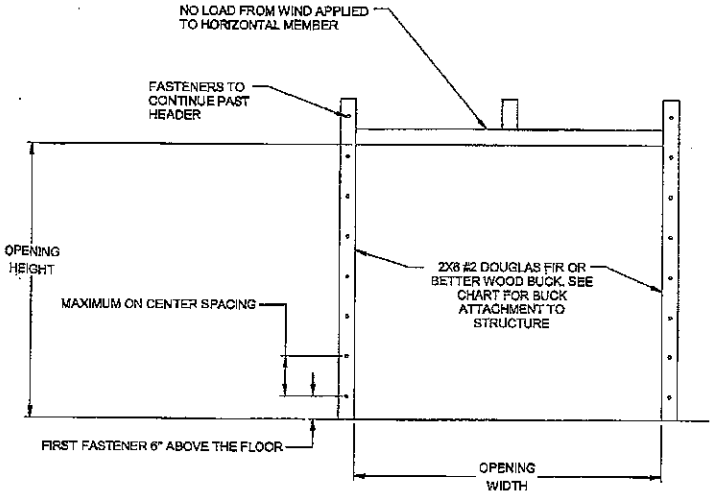


RANCH PANEL



FLUSH PANEL

PANEL OPTIONS
EXTERIOR VIEW



JAMB ATTACHMENT NOTES

1. 1/4" DIAMETER ANCHORS REQUIRE 5/8" MIN. O.D. STEEL WASHER.
2. 5/16" AND 3/8" DIAMETER FASTENERS REQUIRE 7/8" MIN O.D. STEEL WASHER.
3. MAXIMUM POSITIVE LOAD PER JAMB = (18' X 43.5 PSF) / 2 = 391.5 LBS PER FOOT
4. MAXIMUM NEGATIVE LOAD PER JAMB = (18' X 50 PSF) / 2 = 450 LBS PER FOOT.
5. DESIGN OF THE SUPPORTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER AND SHALL BE DESIGNED FOR THE JAMB LOADS LISTED IN NOTES 3 AND 4.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 12-0517.14
Expiration Date 10/20/2015
By _____
Miami Dade Product Control

Approved as complying with the Florida Building Code
Date 10/20/2010
NOA# 10-0420.02
Miami Dade Product Control Division
By _____

JAMB MATERIAL	FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE	ALLOWABLE TENSION LOAD	MAXIMUM ON CENTER SPACING
GROUT FILLED BLOCK	5/16" DIA X 3 1/4"" LONG ITW TAPCON	1 3/4"	4"	487	14-3/4"
3192 PSI CONCRETE	1/4" DIA X 3 1/4" LONG ITW TAPCON	1 3/4"	1"	510	15-1/4"
2899 PSI CONCRETE	5/16" DIA X 3 3/4" LONG ITW TAPCON	2 1/4"	1 9/16"	713	21-1/2"
2000 PSI CONCRETE	3/8" DIA X 3 1/2" POWER STUD ANCHOR	1 5/8"	1 7/8"	360	10-3/4"
4000 PSI CONCRETE	3/8" DIA X 3 1/2" POWER STUD ANCHOR	1 5/8"	1 7/8"	570	17-1/4"
WOOD DOUGLAS FIR (G=.46)	5/16" DIA. X 3 1/2"	1 1/2"	1"	352	10-1/2"
WOOD SYP (G=.55)	5/16" DIA. X 3 1/2"	1 1/2"	1"	460	13-3/4"

RICHARD A. BAUMANN
LICENSE
No 0036489
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4-13-2010

REV.	DESCRIPTION	ECO	DATE

SCALE: NONE
DRAWN BY: G. WEDEKIND
CHECKED BY: G. WEDEKIND
DATE: 10/23/09
ECO:

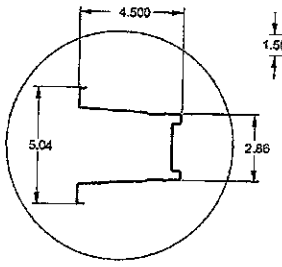
RAYNOR
1101 EAST RIVER ROAD
DUNN, IL 61021

TITLE: SPEC, WINDLOAD TRADEMARK

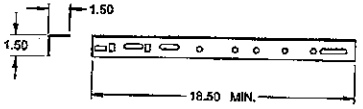
NO. P-3308

SHEET 2 OF 3

REV A

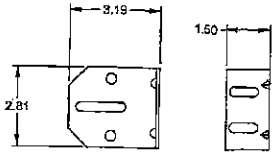


STEEL BOX STRUT DETAIL
18 GA. (.049" MIN) GALVANIZED
HIGH TENSILE STEEL
80 KSI MINIMUM YIELD

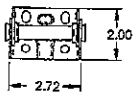


HORIZONTAL TRACK ANGLE
.086 GALV. STEEL

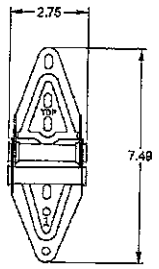
HORIZONTAL ANGLE ATTACHED WITH
5/16" X 3/4" TRACK BOLT AND WHIZ NUT



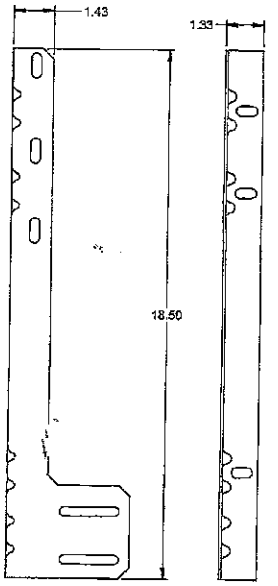
3" TRACK BRACKET
.116 GALV STEEL



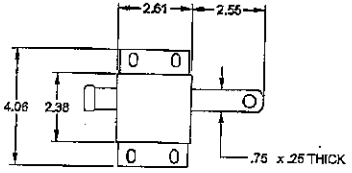
CENTER HINGE
.045 GALV. STEEL



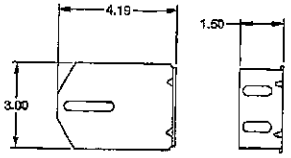
EDGE HINGE
.066 GALV.STEEL



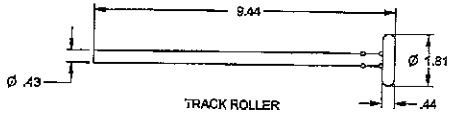
JAMB ANGLE
.078 GALV. STEEL



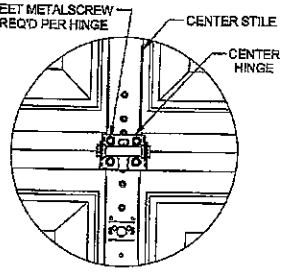
SLIDE LOCK
CASE .086 GALV. STEEL



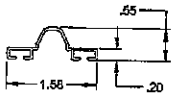
4" TRACK BRACKET
.116 GALV. STEEL



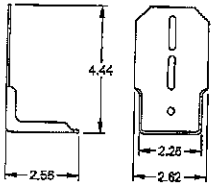
TRACK ROLLER



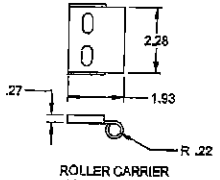
CENTER HINGE
DETAIL



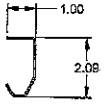
ASTRAGAL RETAINER
.039 ALUMINUM



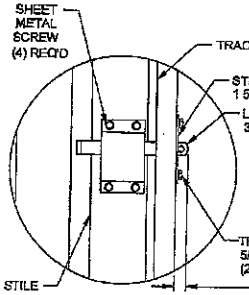
TOP FIXTURE
.086 GALV. STEEL



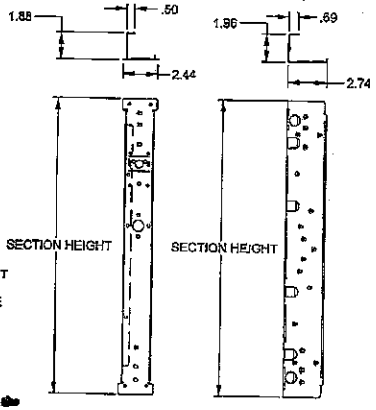
ROLLER CARRIER
.116 GALV. STEEL
ATTACHED TO TOP FIXTURE WITH
(2) TRACK BOLTS AND WHIZ NUTS



TRACK
.086 GALV. STEEL

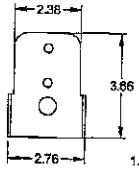


INTERIOR LOCK
DETAIL

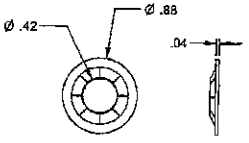


CENTER STILE
.034 GALV. STEEL

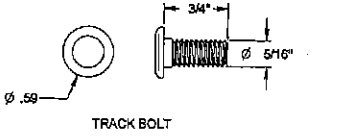
END STILE
.043 GALV. STEEL



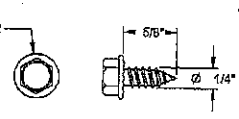
ROLLER CARRIER
.086 GALV. STEEL



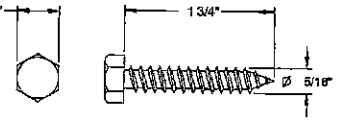
RETAINING NUT



TRACK BOLT



SHEET METAL SCREW



HEX HEAD LAG SCREW

KARL E. BAUMANN
LICENSE
No 0036489
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4-13-2010

PRODUCT REVISED
as complying with the Florida
Building Code
Compliance No 12-0517.14
Date 10/20/2016

Approved as complying with the
Florida Building Code
Date 10/23/2010
NOA# 10-0420.02
Miami-Dade Product Control
Division
By

REV.	DESCRIPTION	ECO	DATE

SCALE: NONE
DRAWN BY: G. WEDEKIND
CHECKED BY: G. WEDEKIND
DATE: 10/23/09
ECO:

RAYNOR
1101 EAST RIVER ROAD
DIXON, IL 61021

TITLE: SPEC, WINDLOAD TRADEMARK

NO. P-3308

SHEET 3 OF 5

REV A

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1–9.

OMB No. 1660-0008
Expiration Date: July 31, 2015

SECTION A – PROPERTY INFORMATION

FOR INSURANCE COMPANY USE

A1. Building Owner's Name CLARA CANTOR AND PATRICIA CANTOR — Policy Number:

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1201 NORTH SOUTHLAKE DRIVE — Company NAIC Number:

City HOLLYWOOD State FL ZIP Code 33019-1503

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOTS 10 AND 11, BLOCK 27, HOLLYWOOD LAKES SECTION, PLAT BOOK 1, PAGE 32, BROWARD COUNTY RECORDS

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL

A5. Latitude/Longitude: Lat. 26.009377 Long. -80.130864 Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 9

A8. For a building with a crawlspace or enclosure(s):
- a) Square footage of crawlspace or enclosure(s) 2898 sq ft
- b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 0
- c) Total net area of flood openings in A8.b 0 sq in
- d) Engineered flood openings? ☐ Yes ☒ No

A9. For a building with an attached garage:
- a) Square footage of attached garage 399.6 sq ft
- b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 0
- c) Total net area of flood openings in A9.b 0 sq in
- d) Engineered flood openings? ☐ Yes ☒ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
HOLLYWOOD 125113	BROWARD	FL

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
12011C0317	G	0CTOBER 2, 1997	JULY 21, 1995	AE	7 FEET

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source: _____

B11. Indicate elevation datum used for BFE in Item B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date: N/A ☐ CBRS ☐ OPA

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: USCGS B311 1970 Vertical Datum: NGVD 1929

Indicate elevation datum used for the elevations in items a) through h) below. ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: _____
Datum used for building elevations must be the same as that used for the BFE.

		Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	3.4	☒ feet	☐ meters
b) Top of the next higher floor	4.7	☒ feet	☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A	☐ feet	☐ meters
d) Attached garage (top of slab)	4.7	☒ feet	☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	4.7	☒ feet	☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	4.1	☒ feet	☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	5.1	☒ feet	☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	4.6	☒ feet	☐ meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

☒ Check here if comments are provided on back of form.
☒ Check here if attachments.
Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No

PLACE SEAL HERE

HARLEY GREENE CERTIFICATE NO. 3707 AUGUST 20, 2013 STATE OF FLORIDA SURVEYOR AND MAPPER

Certifier's Name HARLEY GREEENE License Number 3707

Title SURVEYOR AND MAPPER Company Name N/A

Address 19208 NE 25 AVE #301 City AVENTURA State FL ZIP Code 33180-3217

Signature [signature] Date AUGUST 20, 2013 Telephone 954 522-0193

IMPORTANT: In these spaces, copy the corresponding information from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1201 NORTH SOUTHLAKE DRIVE	Policy Number:
City HOLLYWOOD State FL ZIP Code 33019-1503	Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments LATITUDE AND LONGITUDE WERE OBTAINED FROM GOOGLE MAPS.
THE EQUIPMENT IN ITEM C2e IS A WATER HEATER IN THE UTILITY ROOM.
FLOOR ELEVATIONS ARE MAIN FLOOR 7.0 FEET, FLORIDA ROOM 6.4 FEET, UTILITY ROOM 4.74 FEET, GARAGE 4.7 TO 5.2 FEET, AND CRAWLSPACE 3.4 FEET

Signature [signature] Date AUGUST 20, 2013

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name

Address City State ZIP Code

Signature Date Telephone

Comments

☐ Check here if attachments.

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____ ☐ feet ☐ meters Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____ ☐ feet ☐ meters Datum _____

G10. Community's design flood elevation: _____ ☐ feet ☐ meters Datum _____

Local Official's Name Title

Community Name Telephone

Signature Date

Comments

☐ Check here if attachments.

Building Photographs

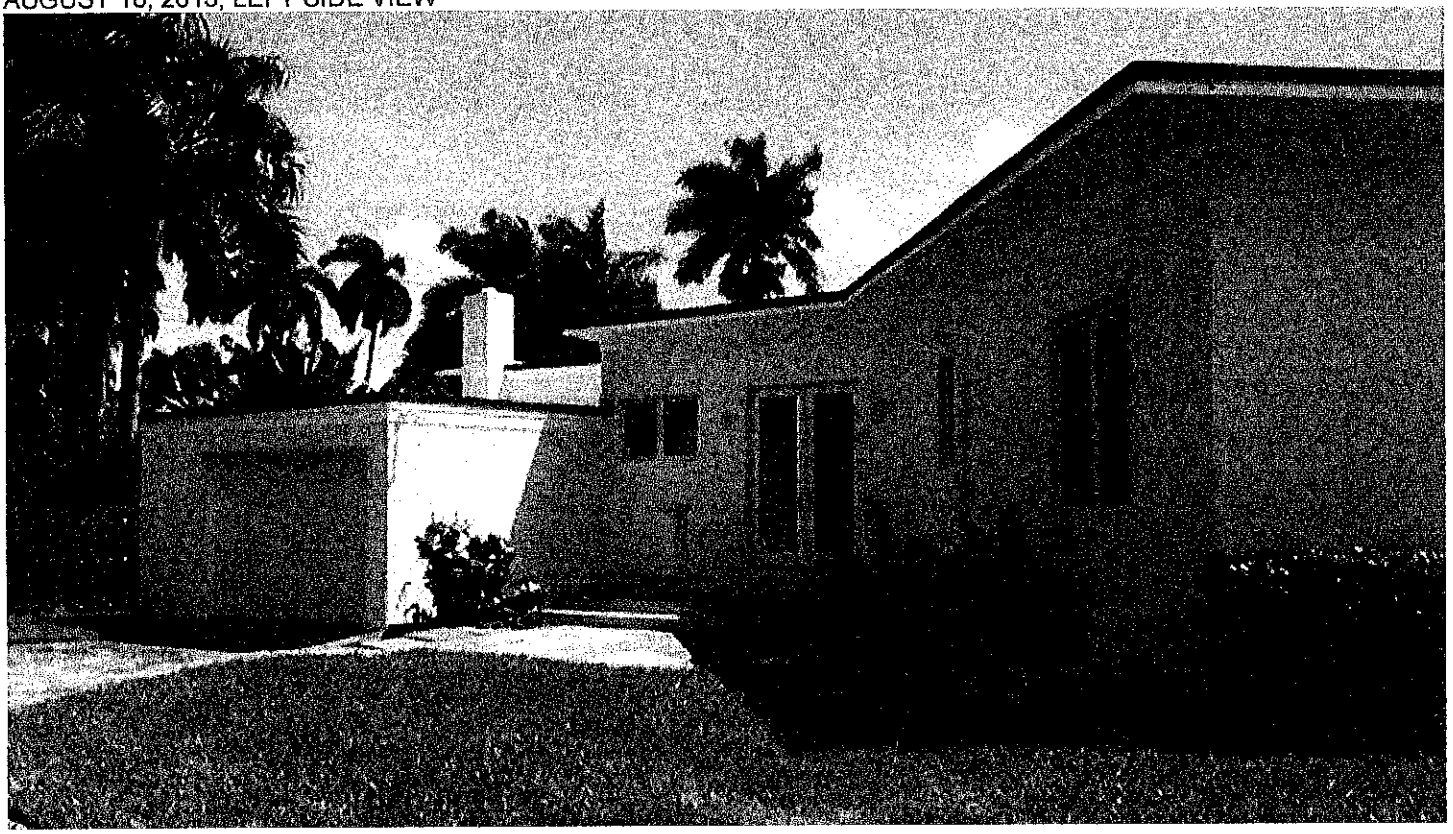
Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1201 NORTH SOUTHLAKE DRIVE	FOR INSURANCE COMPANY USE Policy Number:
City HOLLYWOOD State FL ZIP Code 33019-1503	Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

AUGUST 18, 2013, LEFT SIDE VIEW



Building Photographs

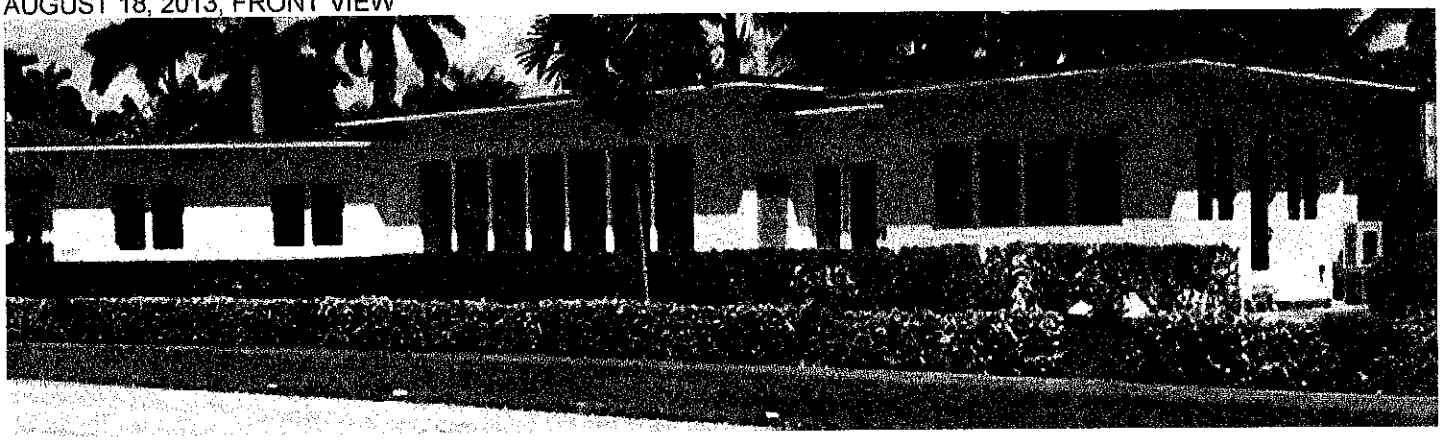
See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding information from Section A.

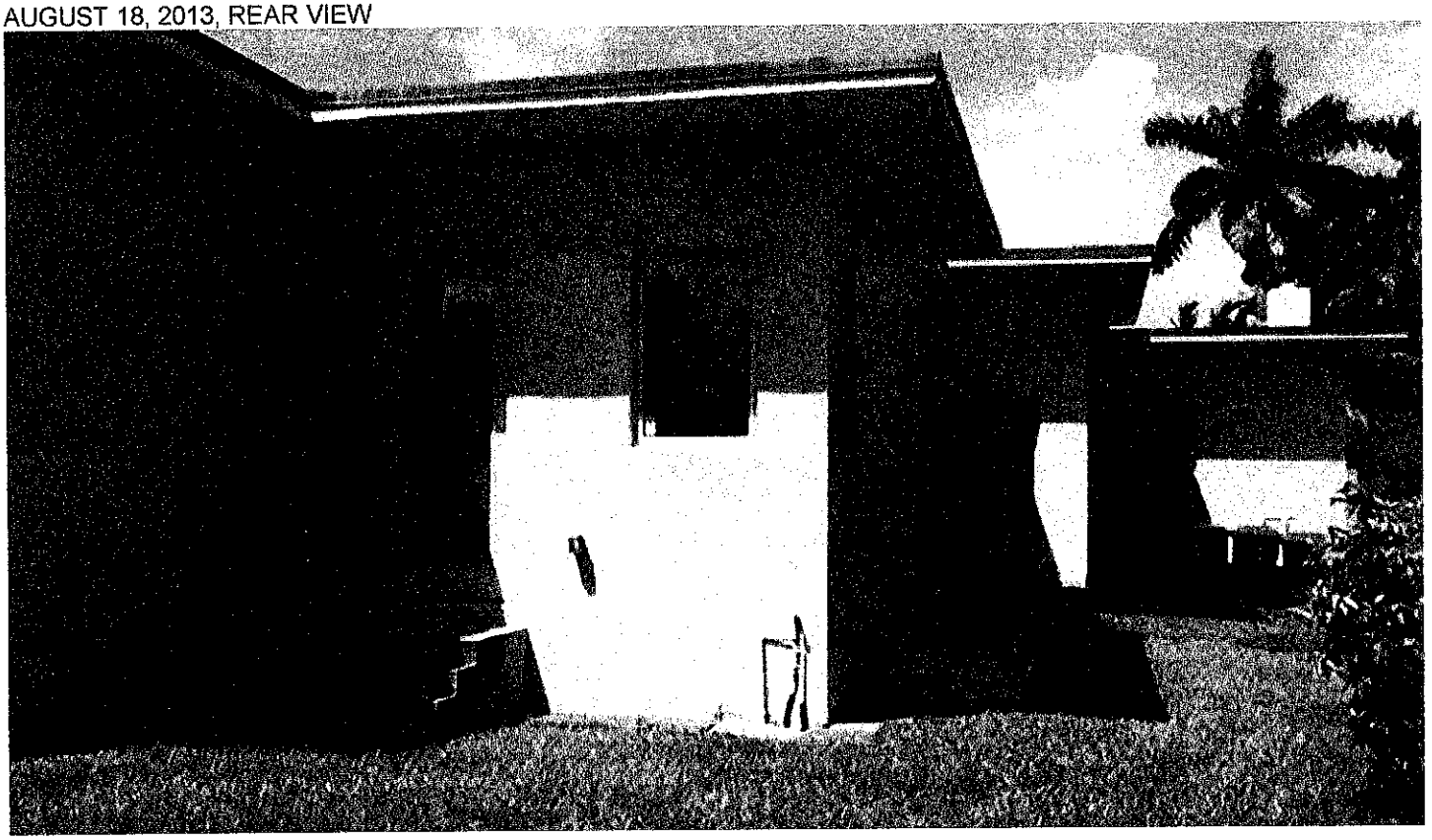
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1201 NORTH SOUTHLAKE DRIVE	FOR INSURANCE COMPANY USE Policy Number:
City HOLLYWOOD State FL ZIP Code 33019-1503	Company NAIC Number:

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

AUGUST 18, 2013, FRONT VIEW



AUGUST 18, 2013, REAR VIEW



CANTOR BOUNDARY SURVEY

1201 NORTH SOUTHLAKE DRIVE, HOLLYWOOD, FLORIDA 33019–1503

51/42/14

GRAPHIC SCALE
20' 0' 20' 40'
SCALE: 1 INCH = 20 FEET

+4.25 INDICATES "ELEVATION 4.25 FEET"
ELEVATION MEASURED ON GRADE AT PLUS SIGN

SET A 1.5' LONG, ½" DIAMETER STEEL BAR WITH A YELLOW PLASTIC CAP STAMPED "PSM 3707" ON BOUNDARY CORNER; FOUND A ⅝" DIAMETER STEEL BAR WITH A YELLOW PLASTIC CAP STAMPED "LB4054", 0.10' N 41°15'10" W OF BOUNDARY CORNER

SET A 1.5' LONG, ½" DIAMETER STEEL BAR WITH A YELLOW PLASTIC CAP STAMPED "PSM 3707" ON BOUNDARY CORNER UNDER WOOD FENCE

FOUND A 1" DIAMETER STEEL PIPE ON BOUNDARY CORNER

SET A 1.5' LONG, ½" DIAMETER STEEL BAR WITH A YELLOW PLASTIC CAP STAMPED "PSM 3707" ON BOUNDARY CORNER; FOUND A 1" DIAMETER STEEL PIPE WITH NO CAP, 0.11' WEST OF AND 0.30' SOUTH OF BOUNDARY CORNER

SET A 1.5' LONG, ½" DIAMETER STEEL BAR WITH A YELLOW PLASTIC CAP STAMPED "PSM 3707" ON BOUNDARY CORNER; FOUND A ½" DIAMETER STEEL BAR WITH NO CAP, 0.41' EAST OF BOUNDARY CORNER

FOUND A NAIL AND 0.09' DIAMETER STEEL DISC STAMPED "PSM 4054" ON BOUNDARY CORNER

FOUND A NAIL AND 0.09' DIAMETER STEEL DISC STAMPED "PSM 4054" ON BOUNDARY CORNER

N 89°58'49" E 185.00'

70' RIGHT-OF-WAY

OVERHEAD WIRES

SOUTH LINE OF ALLEY ON PLAT

ONE STORY CONCRETE BLOCK AND STUCCO RESIDENCE

CONCRETE STEPS

STEEL PACK FOR BASE OF AIR CONDITIONERS OVER CONCRETE SLAB

CRAWLSPACE ENTRANCE

CONCRETE SIDEWALK

CONCRETE DRIVEWAY

ASPHALT DRIVEWAY

WOOD FENCE

CHAIN LINK FENCE

OVERHEAD POWER LINE

N 0°04'48" W 134.71'

131.13'

125.91'

40.30' CONCRETE WALK

CENTRAL ANGLE=33°28'33" CHORD BEARINGS S 68°47'27" W

RADIUS=460.00'

ARC LENGTH=268.76'

NORTH SOUTHLAKE DRIVE ASPHALT ROADWAY

SOUTH 12TH AVENUE ASPHALT ROADWAY

CONCRETE CURB AND GUTTER

ASPHALT WALKWAY

RIGHT-OF-WAY

BLOCK 77

SOUTHLAKE

SANITARY MANHOLE

WOOD UTILITY POLE

WOOD UTILITY POLES

WATER METER BOX

VALVE BOX

CATCH BASIN

FIRE HYDRANT

WOOD STREET LIGHT POLE

SIGN

BASIS OF BEARINGS

BLUE WEST

NORTH ARROW

WEST — EAST

SOUTH

TREE TABLE

NUMBER	DIAMETER	NAME
T1	2.42'	SCHEFFLERA (MULTIPLE)
T2		ARECA PALM CLUSTER
T3	2.87'	SCHEFFLERA (MULTIPLE)
T4	0.75	RAVENALA
T5	1.00'	RAVENALA
T6	1.02'	RAVENALA
T7	0.35'	DRACENA
T8	1.45'	ROYAL PALM
T9	0.22'	SCHEFFLERA
T10	1.55'	ROYAL PALM
T11	1.42'	ROYAL PALM
T12	1.00'	PALMETTO
T13	1.23'	PALMETTO
T14	0.37'	DRACENA
T15	0.95'	PALMETTO
T16	0.65'	PALMETTO
T17	0.62'	PALMETTO
T18	0.84'	PALMETTO
T19	0.73'	PALMETTO
T20	0.58'	TREE
T21	0.72'	TRIPLE PALM
T22	0.69'	PALM
T23	0.13'	CUMRO LIMBO (FROM STUMP)
T24	0.27'	PALM
T25	0.39'	PALM
T26		ARECA PALM CLUSTER
T27	0.89'	SUTTONWOOD
T28	1.08'	PALM
T29	0.94'	PALM
T30	2.53'	SUTTONWOOD
T31	0.59'	PALM
T32	0.60'	PALM
T33	0.78'	PALM
T34	1.39'	PALM
T35	0.91'	PALM
T36	0.76'	PALM
T37	0.35'	PALM

LOCATION SKETCH

PLAT DIMENSIONS

GRAPHIC SCALE
100' 0' 100' 200'
SCALE: 1 INCH = 100 FEET

VAN BUREN STREET
50' WIDE RIGHT-OF-WAY
709.95' MEASURED (710.00' PLAT)

SOUTH 13TH AVENUE (10TH AVENUE ON PLAT)
50' WIDE RIGHT-OF-WAY
283.10' MEASURED

14' ALLEY RIGHT-OF-WAY

135.00' DEED
135.43' MEASURED
210.00' PLAT

THIS SURVEY
LOT 11 BLOCK 27

SOUTH 12TH AVENUE (10TH AVENUE ON PLAT)
50' WIDE RIGHT-OF-WAY
186.99' MEASURED
186.90' DEED

NORTH SOUTHLAKE DRIVE

BLOCK 77

SOUTHLAKE

450.00' PLAT AND MEASURED

JACKSON STREET
50' WIDE RIGHT-OF-WAY

NORTH ARROW
WEST — EAST
SOUTH

FLOOD ZONE AE
NATIONAL FLOOD INSURANCE PROGRAM
COMMUNITY NUMBER 125113
MAP AND PANEL NUMBER 12011C0317G
RATE MAP INDEX REVISED OCTOBER 2, 1997
PANEL REVISED JULY 21, 1995
BASE FLOOD ELEVATION 7.00 FEET
MAIN FLOOR ELEVATION 7.01 FEET
FLORIDA ROOM FLOOR ELEVATION 6.42 FEET
GARAGE FLOOR ELEVATION 4.73 FEET TO 5.24 FEET
UTILITY ROOM FLOOR ELEVATION 4.74 FEET
CRAWLSPACE FLOOR ELEVATION 3.4 FEET

THE BENCH MARK USED FOR THIS TOPOGRAPHIC SURVEY IS A 0.30' DIAMETER U.S. COAST AND GEODETIC SURVEY BRASS DISC STAMPED "B311 1970" ON A 4' BY 4' CONCRETE SLAB AT THE NORTHEAST CORNER OF THE JUNCTION OF HOLLYWOOD BOULEVARD AND 8TH AVENUE. ELEVATION 3.268 FEET, BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (BROWARD COUNTY BENCH MARK NUMBER 1915).
THIS SURVEY EXCEEDS THE MINIMUM PRECISION PERMITTED FOR THIS TYPE OF SURVEY BY FLORIDA ADMINISTRATIVE LAW.
UNDERGROUND FOUNDATIONS OR STRUCTURES ARE NOT SHOWN.
BEARINGS ARE BASE ON ASSUMED DUE WEST BEARING ON MARKERS FOUND ALONG NORTH RIGHT-OF-WAY LINE OF NORTH SOUTHLAKE DRIVE.
EASEMENTS OR RIGHTS-OF-WAY OF RECORD WHICH COULD BE REVEALED BY A COMPLETE SEARCH OF THE PUBLIC RECORDS MAY NOT BE SHOWN.
NO SEARCH HAS BEEN MADE IN THE PUBLIC RECORDS FOR LAND DESCRIPTION OVERLAPS OR GAPS.
ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY.

LAND DESCRIPTION: LOTS 10 AND 11, BLOCK 27, HOLLYWOOD "BY THE SEA" HOLLYWOOD LAKES SECTION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 1, PAGE 32, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, TOGETHER WITH THE EAST 185 FEET OF THE ALLEY IN SAID BLOCK 27.

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

THE SURVEY DEPICTED HERE IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE

HARLEY GREENE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA LICENSE NUMBER 3707
19208 NORTHEAST 25TH AVENUE, UNIT 301
AVENTURA, FLORIDA 33180–3217

TELEPHONE
305 832–2843 (MIAMI–DADE COUNTY)
954 522–0193 (BROWARD COUNTY)
305 785–7828 MOBILE

harleygreene@comcast.net
Skype harley.greene

© COPYRIGHT 2013 HARLEY GREENE

I HEREBY CERTIFY EXCLUSIVELY TO CLARA CANTOR AND PATRICIA CANTOR THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH PURSUANT TO SECTION 472.027, FLORIDA STATUTES, BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J–17.050 THROUGH 5J–17.052 OF THE FLORIDA ADMINISTRATIVE CODE.

REVISIONS
1.
2.
3.

HARLEY GREENE
DATE OF SURVEY–AUGUST 20, 2013

NCR CONSTRUCTION CORP

Citty of Hollywood

Building Department

As per your request enclose copy of the Break Cost that we ended under master building permit # B13-105839 in Cantor Residence

Address: 1201 N South Lake Dr. Hollywood Fl 33019

GENERAL ESTIMATE - BREAK COST

CANTOR RESIDENCE

	DEMOLITIONS	**$3,200.00**
	SITE PREPARATION	
	Tank for Garbage, Debris Removal and Clean up	
	Temp toilet	
	Interior cleaning 4 times during construction	
	Subtotal	**$3,500.00**
	PLUMBING	
	Plumbing movements	
	Subtotal	**$7,800.00**
	ELECTRICAL WORK	
	Varies	**$9,600.00**
	RESIDENCE AUTOMATION	
	Alarm and Security Cameras by others	**$2,200.00**
	SOLATUBE SKYLIGHTS	
	Choice 1: REDCO (Bathroom 1, Kitchen 2, Closet 1)	**$1,750.00**
	MECHANICAL WORK	

	Choice 2: Saturday a.m. call AA Air Conditioning Service, Inc.	$6,000.00
	INSTALLATION AND MATERIAL OF CEILING AND WALLS	
	New Installs; According to the plans	
	Window water leak fixes according to plans	
	Subtotal	$12,000.00
	FIXTURES	
	Patching Floor, Ceiling; after all discipline inspections	$1,500.00
	FLOORS	
	Installation of Porcelain tiles; wood floors, baseboards	$7,480.00
	Material	$6,700.00
	FURNISHING	
	Kintchen Cabinets	$3,330.00
	Bathroom Vanities	$2,275.00
	Counter tops	$2,000.00
	Applinaces	$3,500.00
	Doors	$1,500.00
	Closets	$2,400.00
	Glass Partitions	$3,265.00
	PAINT	
	Interior Only	$2,000.00
	TOTALS	$80,000.00

NCR CONSTRUCTION CORP

The foregoing instrument was acknowledged before me this 21 day of 01 20 15 by MARIA VICTORIA ABONDANO

( ) is personally known to me ( ) has produced as identification.

MARIA VICTORIA ABONDANO
Notary Public, State of Florida
Commission # EE101888
My Commission Expires Jun. 08, 2015

NOTARY PUBLIC (SEAL)

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1–9.

OMB No. 1660-0008
Expiration Date: July 31, 2015

SECTION A – PROPERTY INFORMATION

	FOR INSURANCE COMPANY USE
A1. Building Owner's Name CLARA CANTOR AND PATRICIA CANTOR	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1201 NORTH SOUTHLAKE DRIVE	Company NAIC Number:
City HOLLYWOOD State FL ZIP Code 33019-1503	

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOTS 10 AND 11, BLOCK 27, HOLLYWOOD LAKES SECTION, PLAT BOOK 1, PAGE 32, BROWARD COUNTY RECORDS

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL

A5. Latitude/Longitude: Lat. 26.009377 Long. -80.130864 Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 9

A8. For a building with a crawlspace or enclosure(s):
- a) Square footage of crawlspace or enclosure(s) 2898 sq ft
- b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 0
- c) Total net area of flood openings in A8.b 0 sq in
- d) Engineered flood openings? ☐ Yes ☒ No

A9. For a building with an attached garage:
- a) Square footage of attached garage 399.6 sq ft
- b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 0
- c) Total net area of flood openings in A9.b 0 sq in
- d) Engineered flood openings? ☐ Yes ☒ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
HOLLYWOOD 125113	BROWARD	FL

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
12011C0317	G	0CTOBER 2, 1997	JULY 21, 1995	AE	7 FEET

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in item B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source: _____

B11. Indicate elevation datum used for BFE in Item B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date: N/A ☐ CBRS ☐ OPA

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: USCGS B311 1970 Vertical Datum: NGVD 1929

Indicate elevation datum used for the elevations in items a) through h) below. ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: _____
Datum used for building elevations must be the same as that used for the BFE.

		Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	3.4	☒ feet	☐ meters
b) Top of the next higher floor	4.7	☒ feet	☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A	☐ feet	☐ meters
d) Attached garage (top of slab)	4.7	☒ feet	☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	4.7	☒ feet	☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	4.1	☒ feet	☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	5.1	☒ feet	☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	4.6	☒ feet	☐ meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

☒ Check here if comments are provided on back of form.
☒ Check here if attachments.

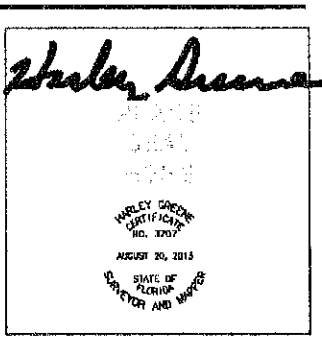
Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No

Certifier's Name HARLEY GREEENE License Number 3707

Title SURVEYOR AND MAPPER Company Name N/A

Address 19208 NE 25 AVE #301 City AVENTURA State FL ZIP Code 33180-3217

Signature Harley Greene Date AUGUST 20, 2013 Telephone 954 522-0193



IMPORTANT: In these spaces, copy the corresponding information from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1201 NORTH SOUTHLAKE DRIVE	Policy Number:
City HOLLYWOOD State FL ZIP Code 33019-1503	Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments LATITUDE AND LONGITUDE WERE OBTAINED FROM GOOGLE MAPS.
THE EQUIPMENT IN ITEM C2e IS A WATER HEATER IN THE UTILITY ROOM.
FLOOR ELEVATIONS ARE MAIN FLOOR 7.0 FEET, FLORIDA ROOM 6.4 FEET, UTILITY ROOM 4.74 FEET, GARAGE 4.7 TO 5.2 FEET, AND CRAWLSPACE 3.4 FEET

Signature [signature] Date AUGUST 20, 2013

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name

Address City State ZIP Code

Signature Date Telephone

Comments

☐ Check here if attachments.

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____ ☐ feet ☐ meters Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____ ☐ feet ☐ meters Datum _____

G10. Community's design flood elevation: _____ ☐ feet ☐ meters Datum _____

Local Official's Name Title

Community Name Telephone

Signature Date

Comments

☐ Check here if attachments.

Building Photographs

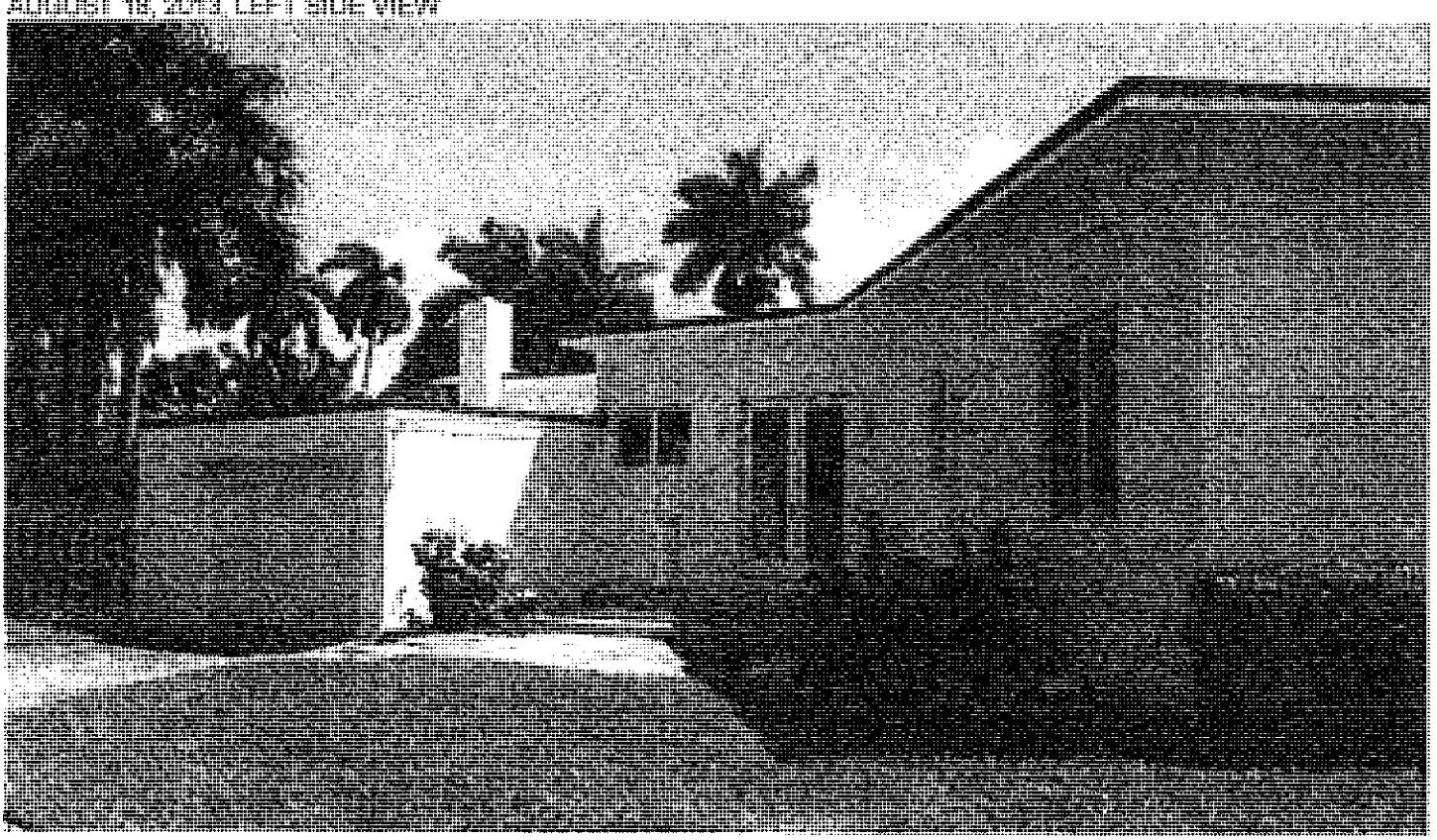
Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1201 NORTH SOUTHLAKE DRIVE	FOR INSURANCE COMPANY USE Policy Number:
City HOLLYWOOD State FL ZIP Code 33019-1503	Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

AUGUST 18, 2013. LEFT SIDE VIEW



Building Photographs

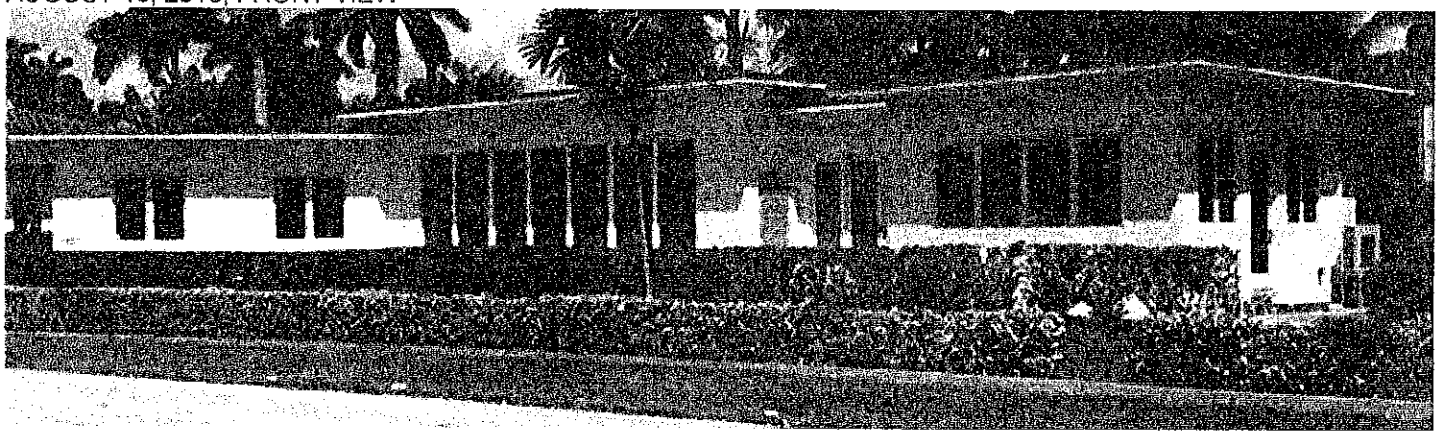
See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding information from Section A.

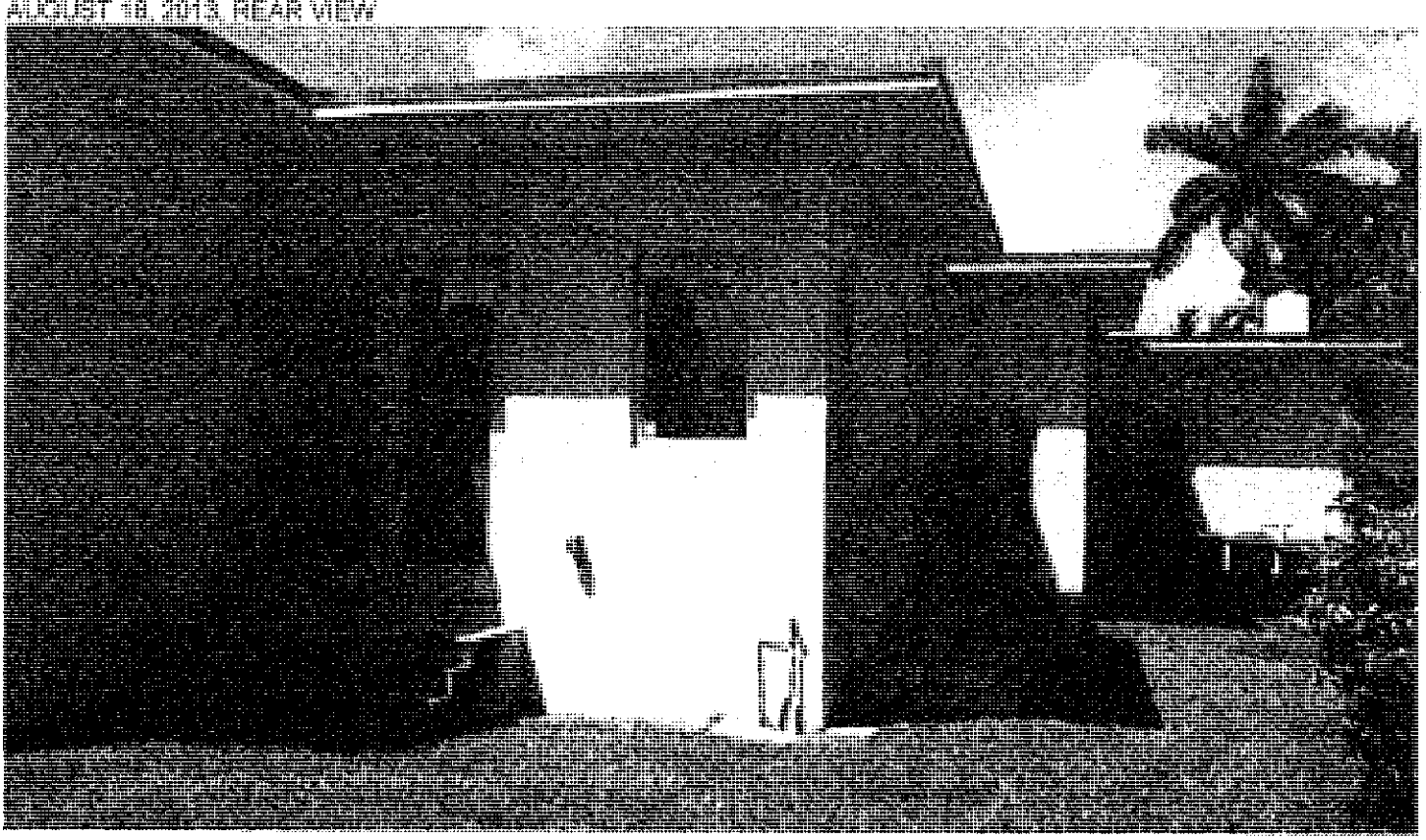
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1201 NORTH SOUTHLAKE DRIVE	FOR INSURANCE COMPANY USE Policy Number:
City HOLLYWOOD State FL ZIP Code 33019-1503	Company NAIC Number:

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

AUGUST 18, 2013, FRONT VIEW



AUGUST 18, 2013, REAR VIEW



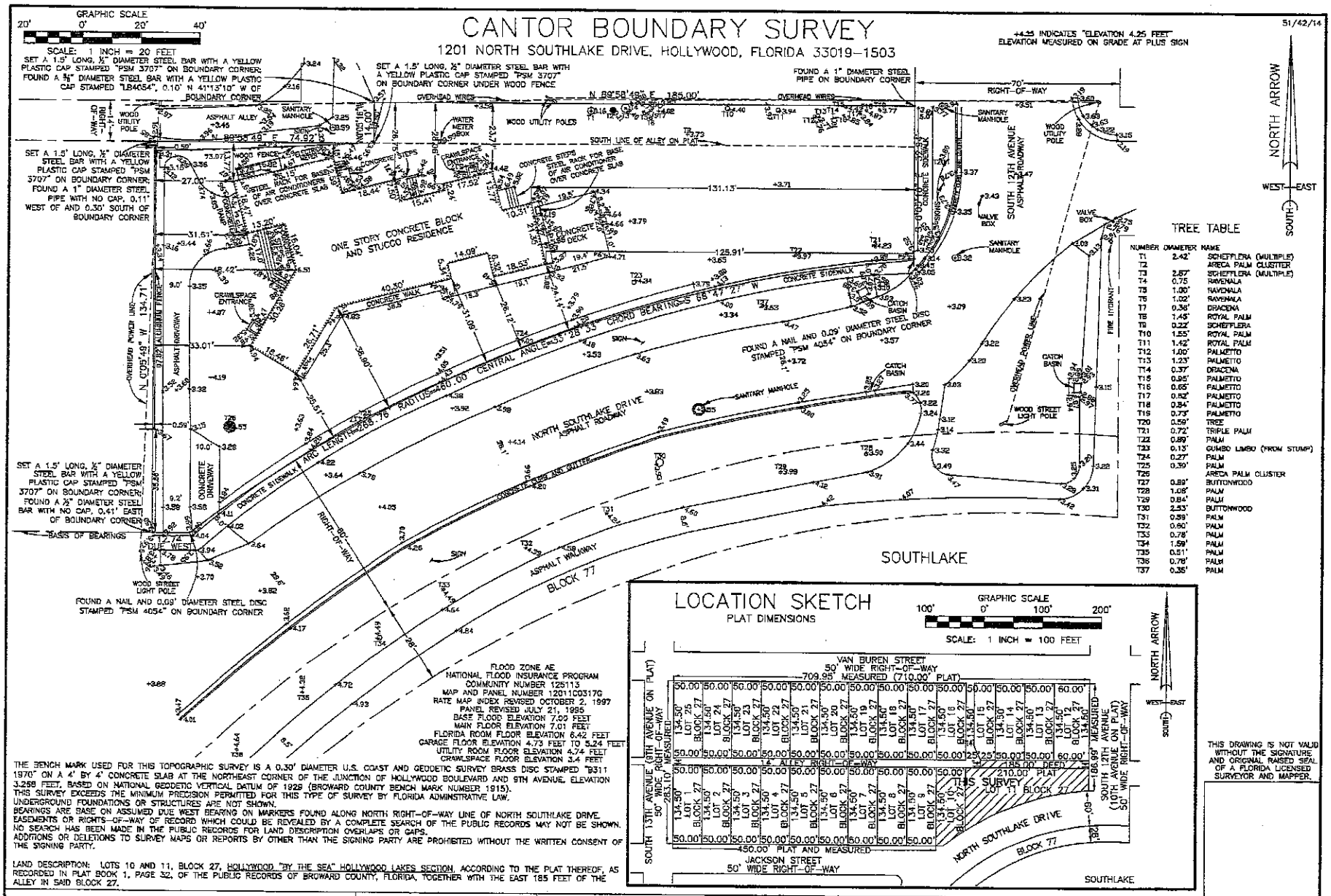
CANTOR BOUNDARY SURVEY

1201 NORTH SOUTHLAKE DRIVE, HOLLYWOOD, FLORIDA 33019-1503

51/42/14

+4.25 INDICATES "ELEVATION 4.25 FEET"
ELEVATION MEASURED ON GRADE AT PLUS SIGN

GRAPHIC SCALE
20' 0' 20' 40'
SCALE: 1 INCH = 20 FEET



TREE TABLE

NUMBER	DIAMETER	NAME
T1	2.42'	SCHEFFLERA (MULTIPLE)
T2		ARECA PALM CLUSTER
T3	2.67'	SCHEFFLERA (MULTIPLE)
T4	0.75'	RAVENALA
T5	1.00'	RAVENALA
T6	1.02'	RAVENALA
T7	0.36'	DRACENA
T8	1.45'	ROYAL PALM
T9	0.22'	SCHEFFLERA
T10	1.55'	ROYAL PALM
T11	1.42'	ROYAL PALM
T12	1.00'	PALMETTO
T13	1.23'	PALMETTO
T14	0.37'	DRACENA
T15	0.95'	PALMETTO
T16	0.65'	PALMETTO
T17	0.92'	PALMETTO
T18	0.84'	PALMETTO
T19	0.73'	PALMETTO
T20	0.59'	TREE
T21	0.72'	TRIPLE PALM
T22	0.89'	PALM
T23	0.13'	GUMBO LIMBO (FROM STUMP)
T24	0.27'	PALM
T25	0.39'	PALM
T26		ARECA PALM CLUSTER
T27	0.89'	BUTTONWOOD
T28	1.08'	PALM
T29	0.84'	PALM
T30	2.53'	BUTTONWOOD
T31	0.59'	PALM
T32	0.60'	PALM
T33	0.78'	PALM
T34	1.59'	PALM
T35	0.51'	PALM
T36	0.76'	PALM
T37	0.35'	PALM

FOUND A NAIL AND 0.09' DIAMETER STEEL DISC STAMPED "PSM 4054" ON BOUNDARY CORNER

FLOOD ZONE AE
NATIONAL FLOOD INSURANCE PROGRAM
COMMUNITY NUMBER 125113
MAP AND PANEL NUMBER 12011C0317G
RATE MAP INDEX REVISED OCTOBER 2, 1997
PANEL REVISED JULY 21, 1986
BASE FLOOD ELEVATION 7.00 FEET
MAIN FLOOR ELEVATION 7.01 FEET
FLORIDA ROOM FLOOR ELEVATION 6.42 FEET
GARAGE FLOOR ELEVATION 4.73 FEET TO 5.24 FEET
UTILITY ROOM FLOOR ELEVATION 4.74 FEET
CRAWLSPACE FLOOR ELEVATION 3.4 FEET

THE BENCH MARK USED FOR THIS TOPOGRAPHIC SURVEY IS A 0.30' DIAMETER U.S. COAST AND GEODETIC SURVEY BRASS DISC STAMPED "B311 1970" ON A 4' BY 4' CONCRETE SLAB AT THE NORTHEAST CORNER OF THE JUNCTION OF HOLLYWOOD BOULEVARD AND 9TH AVENUE, ELEVATION 3.258 FEET, BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (BROWARD COUNTY BENCH MARK NUMBER 1915).
THIS SURVEY EXCEEDS THE MINIMUM PRECISION PERMITTED FOR THIS TYPE OF SURVEY BY FLORIDA ADMINISTRATIVE LAW.
UNDERGROUND FOUNDATIONS OR STRUCTURES ARE NOT SHOWN.
BEARINGS ARE BASE ON ASSUMED DUE WEST BEARING ON MARKERS FOUND ALONG NORTH RIGHT-OF-WAY LINE OF NORTH SOUTHLAKE DRIVE.
EASEMENTS OR RIGHTS-OF-WAY OF RECORD WHICH COULD BE REVEALED BY A COMPLETE SEARCH OF THE PUBLIC RECORDS MAY NOT BE SHOWN.
NO SEARCH HAS BEEN MADE IN THE PUBLIC RECORDS FOR LAND DESCRIPTION OVERLAPS OR GAPS.
ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY.

LAND DESCRIPTION: LOTS 10 AND 11, BLOCK 27, HOLLYWOOD "BY THE SEA" HOLLYWOOD LAKES SECTION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 1, PAGE 32, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, TOGETHER WITH THE EAST 185 FEET OF THE ALLEY IN SAID BLOCK 27.

LOCATION SKETCH

PLAT DIMENSIONS

GRAPHIC SCALE
100' 0' 100' 200'
SCALE: 1 INCH = 100 FEET

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

THE SURVEY DEPICTED HERE IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE

HARLEY GREENE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA LICENSE NUMBER 3707
19208 NORTHEAST 25TH AVENUE, UNIT 301
AVENTURA, FLORIDA 33180-3217

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TELEPHONE
305 932-2843 (MIAMI-DADE COUNTY)
954 522-0193 (BROWARD COUNTY)
305 785-7825 MOBILE

harleygreene@comcast.net
Skype harley.greene

I HEREBY CERTIFY EXCLUSIVELY TO CLARA CANTOR AND PATRICIA CANTOR THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH PURSUANT TO SECTION 472.027, FLORIDA STATUTES, BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17.050 THROUGH 5J-17.052 OF THE FLORIDA ADMINISTRATIVE CODE.

REVISIONS
1.
2.
3.

HARLEY GREENE
DATE OF SURVEY-AUGUST 20, 2013

NCR CONSTRUCTION CORP

Citty of Hollywood

Building Department

As per your request enclose copy of the Break Cost that we ended under master building permit # B13-105839 in Cantor Residence

Address: 1201 N South Lake Dr. Hollywood Fl 33019

GENERAL ESTIMATE - BREAK COST

CANTOR RESIDENCE

	DEMOLITIONS	**$3,200.00**
	SITE PREPARATION	
	Tank for Garbage, Debris Removal and Clean up	
	Temp toilet	
	Interior cleaning 4 times during construction	
	Subtotal	**$3,500.00**
	PLUMBING	
	Plumbing movements	
	Subtotal	**$7,800.00**
	ELECTRICAL WORK	
	Varies	**$9,600.00**
	RESIDENCE AUTOMATION	
	Alarm and Security Cameras by others	**$2,200.00**
	SOLATUBE SKYLIGHTS	
	Choice 1: REDCO (Bathroom 1, Kitchen 2, Closet 1)	**$1,750.00**
	MECHANICAL WORK	

	Choice 2: Saturday a.m. call AA Air Conditioning Service, Inc.	$6,000.00
	INSTALLATION AND MATERIAL OF CEILING AND WALLS	
	New Installs; According to the plans	
	Window water leak fixes according to plans	
	Subtotal	$12,000.00
	FIXTURES	
	Patching Floor, Ceiling; after all discipline inspections	$1,500.00
	FLOORS	
	Installation of Porcelain tiles; wood floors, baseboards	$7,480.00
	Material	$6,700.00
	FURNISHING	
	Kintchen Cabinets	$3,330.00
	Bathroom Vanities	$2,275.00
	Counter tops	$2,000.00
	Applinaces	$3,500.00
	Doors	$1,500.00
	Closets	$2,400.00
	Glass Partitions	$3,265.00
	PAINT	
	Interior Only	$2,000.00
	TOTALS	$80,000.00

NCR CONSTRUCTION CORP

The foregoing instrument was acknowledged before me this 21 day of 01 20 15 by MARIA VICTORIA ABONDANO

( ) is personally known to me ( ) has produced as identification.

MARIA VICTORIA ABONDANO
Notary Public, State of Florida
Commission # EE 101868
My Commission Expires Jun. 09, 2015

NOTARY PUBLIC (SEAL)

MECAWind Version 2.1.0.6 ASCE 7-10

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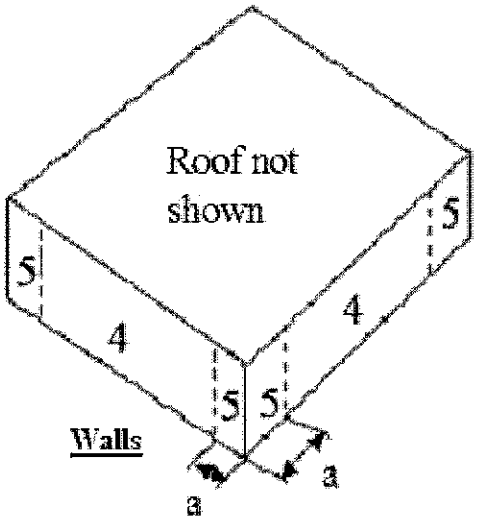
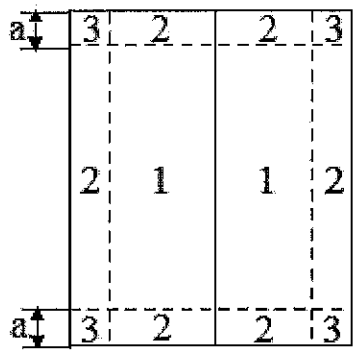
Date	: 10/8/2014	Project No.	:
Company Name	:	Designed By	:
Address	:	Description	: Windows & Doors
City	:	Customer Name	: Cantor Residence
State	:	Proj Location	: 1201 NORTH SOUTH LAKE DR.

File Location: E:\Projects\Ximena\files usb 2\INGENIERO EMILIANO\CANTOR RESIDENCE HOLLYWOOD \WINDOW SD\NOAS 9-23-14\WIND.wnd





Wind Pressure on Components and Cladding

All pressures shown are based upon ASD Design, with a Load Factor of .6

Width of Pressure Coefficient Zone "a" = 4.7 ft

Description	Width ft	Span ft	Area ft^2	Zone	Max GCp	Min GCp	Max P psf	Min P psf
Window A	2.30	6.10	14.0	4	0.88	-0.97	48.42	-51.48
Window A	2.30	6.10	14.0	5	0.88	-1.21	48.42	-59.85
Window B	2.10	6.10	12.8	4	0.88	-0.97	48.64	-51.69
Window B	2.10	6.10	12.8	5	0.88	-1.23	48.64	-60.27
Window C	3.10	1.20	3.7	4	0.90	-0.99	49.22	-52.27
Window C	3.10	1.20	3.7	5	0.90	-1.26	49.22	-61.43
Door 1	3.00	7.00	21.0	4	0.85	-0.94	47.48	-50.53
Door 1	3.00	7.00	21.0	5	0.85	-1.16	47.48	-57.96
Door 2	3.00	7.00	21.0	4	0.85	-0.94	47.48	-50.53
Window D	6.00	5.00	30.0	4	0.82	-0.91	46.64	-49.70

EJ 10-7-14 I-TO-4

MECAWind Version 2.1.0.6 per ASCE 7-10

Developed by MECA Enterprises, Inc. Copyright 2014 www.mecaenterprises.com

Date	: 10/8/2014	Project No.	:
Company Name	:	Designed By	:
Address	:	Description	: Windows & Doors
City	:	Customer Name	: Cantor Residence
State	:	Proj Location	: 1201 NORTH SOUTH LAKE DR.

File Location: E:\Projects\Ximena\files usb 2\INGENIERO EMILIANO\CANTOR RESIDENCE HOLLYWOOD\WINDOW SD\NOAS 9-23-14\WIND.wnd

Directional Procedure Simplified Diaphragrm Building (Ch 27 Part 2)

All pressures shown are based upon ASD Design, with a Load Factor of .6

Basic Wind Speed(V)	= 175.00 mph		
Structural Category	= II	Exposure Category	= C
Natural Frequency	= N/A	Flexible Structure	= No
Importance Factor	= 1.00	Kd Directional Factor	= 0.85
Damping Ratio (beta)	= 0.01		
Alpha	= 9.50	Zg	= 900.00 ft
At	= 0.11	Bt	= 1.00
Am	= 0.15	Bm	= 0.65
Cc	= 0.20	l	= 500.00 ft
Epsilon	= 0.20	Zmin	= 15.00 ft
Slope of Roof	= 0.84 : 12	Slope of Roof(Theta)	= 4.00 Deg
Ht: Mean Roof Ht	= 11.75 ft	Type of Roof	= Gabled
RHt: Ridge Ht	= 13.50 ft	Eht: Eave Height	= 10.00 ft
OH: Roof Overhang at Eave	= .00 ft	Roof Area	= 5012.00 ft^2
Bldg Length Along Ridge	= 50.00 ft	Bldg Width Across Ridge	= 100.00 ft

Gust Factor Category I Rigid Structures - Simplified Method

Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use 0.85 = 0.85

Gust Factor Category II Rigid Structures - Complete Analysis

Zm:	0.6*Ht	= 15.00 ft
lzm:	Cc*(33/Zm)^0.167	= 0.23
Lzm:	l*(Zm/33)^Epsilon	= 427.06 ft
Q:	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	= 0.89
Gust2:	0.925*((1+1.7*lzm*3.4*Q)/(1+1.7*3.4*lzm))	= 0.87

Gust Factor Summary

Not a Flexible Structure use the Lessor of Gust1 or Gust2 = 0.85

Table 26.11-1 Internal Pressure Coefficients for Buildings, GCpi

GCPi : Internal Pressure Coefficient = +/-0.55

Reduction Factor for Large Volume Buildings, Ri

Aog:	Total Area of Openings in Bldg Envelope	= .00 ft^2
Vi:	Unpartitioned Internal Value	= .00 ft^3
Ri:	0.5*((1+1/(1+(Vi/(22800*Aog))^0.5))(Eqn. 6-16)	= 1.000

Notes: 1) +GCpi = +0.55 * Ri

Notes: 2) -GCpi = -0.55 * Ri

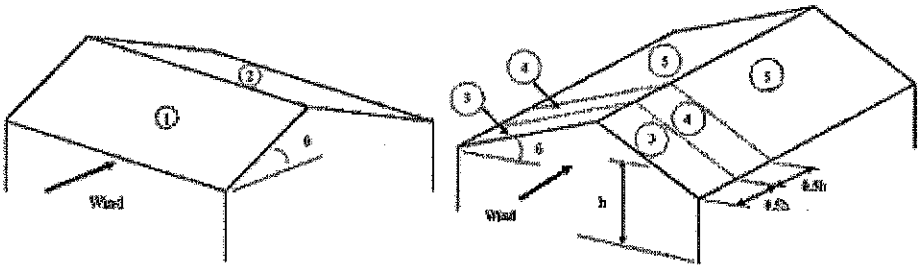
Topographic Adjustment

0.33*z	= 3.88
Kzt (0.33*z): Topographic factor at elevation 0.33*z	= 1.00
Vtopo: Adjust V per Para 27.5.2: V * [Kzt(0.33*z)]^0.5	= 175.00 mph

Net Wind Pressures on Walls (Table 27.6-1)

Wall Pressures do not include effect of internal pressure

MWFRS-Wall Pressures for Wind Normal to 100 ft wall



Gabled Roof

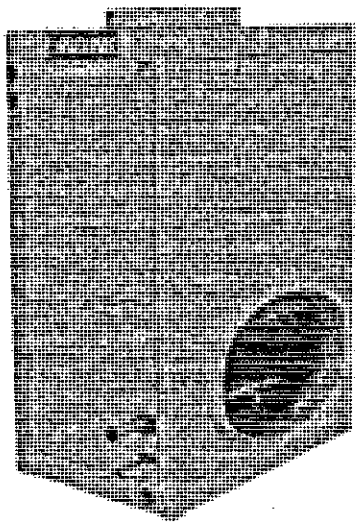
B13-105839

ESPV1-1201

SPACE PAK®
A MESTEK COMPANY

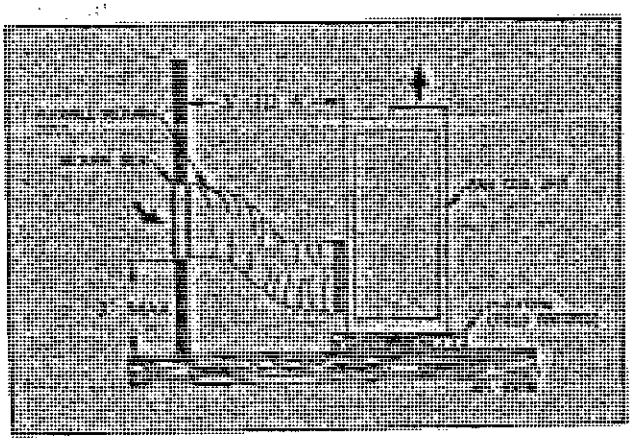
MODEL ESP-V CENTRAL AIR CONDITIONING/ HEAT PUMP SYSTEMS

2 TO 5 TONS



SpacePak makes it possible to install central cooling and heating in any home or business, regardless of structure design, age, size or type of construction. SpacePak is an air distribution system which uses a principle known as aspiration - as the air stream enters the room, it creates a gentle mixing of air in the room to provide thorough, comfortable draft-free air circulation. SpacePak eliminates stratification with a minimum floor-to-ceiling temperature difference.

IDEAL APPLICATION FLEXIBILITY
Can be located nearly anywhere -- closets, basements, crawlspaces and garages.



STANDARD FAN COIL FEATURES

- Corrosion resistant cabinet with baked enamel finish. Fully insulated with 1-1/2" lb. density batt.
- Six-row copper tube-aluminum fin evaporator coil removes up to 30% more humidity than conventional coil.
- Blower motor is factory-balanced for vibration-free operation.
- Condensate drain connection in base pan for specially-designed, factory-supplied condensate drain assembly.
- Factory-assembled, pre-wired control center with high and low voltage terminal blocks, blower relay and low voltage transformer.
- Factory-installed anti-frost control and thermal expansion valve. Optional factory-installed drain pan float switch. Sweat type suction/liquid line connections.
- All Connections located on same side of unit.
- Can be installed with a conventional outdoor condensing unit as long as capacity and refrigerant line connections meet SpacePak recommendations.
- Shipped with Nitrogen holding charge.

Model	Nominal System Capacity		Unit SEER Rating	Std. CFM@ 1.5" W.C.	Motor HP	F.L. Amps	Connections		Ship Wt. (lbs)	Recommended Condensing Unit Capacity (MBH)
	Nom. Tons	Cool MBH (1)					Suction Line	Liquid Line		
ESP-2430-V	2	23	12+	550	1/3	1.8	7/8"	3/8"	112	24
	2-1/2	27								30
ESP-3642-V	3	35	12+	850	1/2	2.8	7/8"	3/8"	134	36
	3-1/2	40								42
ESP-4860-V	4	46	12+	1150	1	3.6	7/8"	3/8"	171	48
	5	57								60

NOTES:
Electrical Characteristics: 208-230/1/60.

(1) These are typical cooling capacities. For the capacity with a specific condensing unit, check the ARI directory.

For greater efficiency, SpacePak recommends using a condensing unit with a 12 or higher SEER rating.

APPROVED

MAY 12 2014

CITY OF HOLLYWOOD, FLA.
MECHANICAL

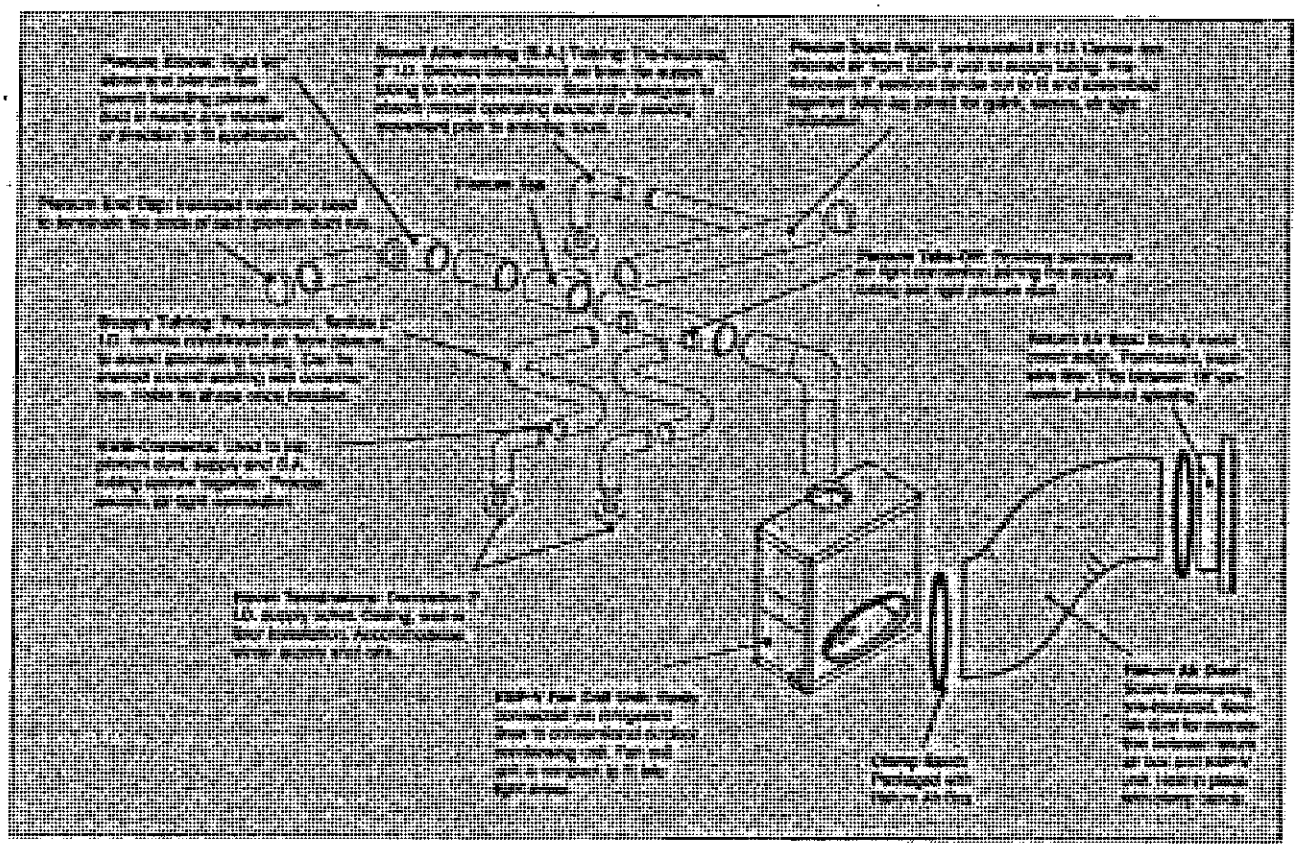
B13-105839

SPACE PAK® ESP-V SYSTEM

A MESTEK COMPANY

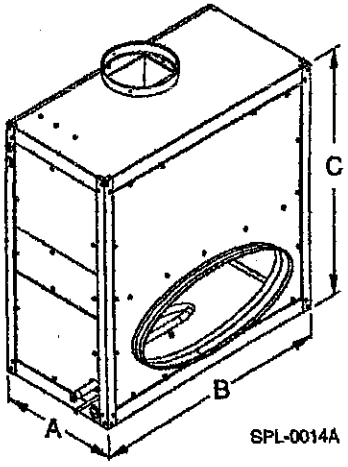
AIR DISTRIBUTION SYSTEM

Pre-fabricated, pre-assembled components, as shown below, can simply be snapped and taped or locked together. With SpacePak, duct sizing is not required. Except for the return air ducts and boxes (only three separate sizes required), all systems use the same size components which helps reduce inventory stock requirements.



Fan Coil Unit Dimensions

MODEL	A	B	C
ESP-2430V	16-1/8"	24"	33"
ESP-3642V	16-1/8"	33"	33"
ESP-4860V	16-1/8"	43"	33"



SPL-0014A

260 NORTH ELM ST.
WESTFIELD, MA 01085
(413) 564-5530/FAX (413) 564-5815

SPACE PAK® A MESTEK COMPANY

5211 CREEKBANK ROAD
MISSISSAUGA, ONT. L4W 1R3 CANADA
(905) 625-2991/FAX (905) 625-6610

APPROVED
MAY 12 2014
CITY OF HOLLYWOOD, FLA.
MECHANICAL

INSTR # 112797810
Recorded 02/09/15 12:53:10 PM
Broward County Commission
Deputy Clerk 3535
#1, 2 Pages

This Instrument Prepared by:
Jonathan D. Beloff, Esq.
1691 Michigan Ave., Ste. 360
Miami Beach, Florida 33139

DECLARATION OF UNITY OF TITLE

KNOW ALL MEN BY THESE PRESENTS, that pursuant to the ordinances of the City of Hollywood pertaining to zoning, the issuance of building permits and regulating building construction activities, the undersigned, being the fee owner(s) of the following described real property situated in the City of Hollywood, County of Broward and State of Florida, do hereby make the following declaration of conditions, limitations and restrictions on said lands, hereinafter to be known and referred to as a DECLARATION OF UNITY OF TITLE, as to the following particulars:

1. The undersigned is the owner in fee simple of the properties described as follows:

   Lots 10 and 11, Block 27, Hollywood Lakes Section, being a subdivision of all of section 14 and all that part of Section 13 lying West of the Florida Coast line Canal and Transportation Company's Canal, in Township 51 South, Range 42 East, according to the map or plat thereof as recorded in Plat Book 1, Page(s) 32, of the Public Records of Broward County, Florida.

   And

   The East 185 feet of the alley in Block 27 of Hollywood Lakes Section, according to the Plat thereof, recorded in Plat Book 1, Page 32, of the Public Records of Broward County, Florida; and being that portion of such alley abutting Lot 11 of said Block 27, extending from the Westerly line of South 12th Avenue to a line parallel to South 12th Avenue and 185 feet Westerly from said Westerly line of South 12th Avenue.

2. That the properties described herein will be developed for the proposed use Clara and Patricia Cantor private Residence (type and project name) in accordance with the site plan approved pursuant to Resolution No . 13-CV-93 .

3. The aforesaid plot or combination of separate lots, plots, parcels, acreage or portions thereof shall hereafter be regarded and is hereby declared to be unified under one title as an indivisible building site (hereinafter referred to as "Property").

4. The said Property, for the purpose of building, zoning and other applicable codes and regulations, shall henceforth be considered as one parcel of land and that no portion shall be sold, assigned, transferred, conveyed or devised except in its entirety as one plot or parcel of land; provided, however, that recordation of a mortgage on any portion of the Property shall not be deemed to be in contravention of this Declaration.

5. The undersigned further agrees that this Declaration of Unity of Title shall constitute a covenant to run with the land, as provided by law, and shall be binding upon the undersigned, their successors and assigns, and all parties claiming under

them until such time as the same may be released in writing under the approval of the City Commission of the City of Hollywood.

6. The undersigned also agrees that this instrument shall be recorded in the Public Records of Broward County.

IN WITNESSS WHEREOF, the said property owner has signed and sealed these presents this 26 day of January, 2015.

Signed, sealed and delivered
in the presence of:

_____ sign
(witness 1) Susan Cobos Diez print

_____ sign
(witness 2) Nico Bella print

Owner(s) Name

_____
CLARA CANTOR, a/k/a Carol Cantor

_____
PATRICIA CANTOR

STATE OF FLORIDA)
SS:
COUNTY OF BROWARD)

The foregoing instrument was acknowledged before me this January 26 2015, by Clara Cantor a/k/a Carol Cantor and Patricia Cantor who are known to me or who have produced DL as identification.

_____ sign

M. Victoria Abondano print
Notary Public, State of Florida At Large

MARIA VICTORIA ABONDANO
Notary Public, State of Florida
Commission #EE101892
My Commission Expires Jun. 09, 2016

(Seal)
June 9 2015 Commission No.
My Commission Expires:

Houlihan Construction, LLC
1715 N. 44th Ave.
Hollywood, FL 33021

EXTERIOR STAIRS STEPS
CAROL & PAT CANTOR RESIDENCE
1201 NORTH SOUTHLAKE DR
HOLLYWOOD, FL

EMILIANO OROZCO P.E.
949 SW 122 AVENUE
MIAMI, FL 33184
LIC No.66341

GENERAL NOTES:

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT ARCHITECTURAL DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS. AS A MINIMUM, CONSTRUCTION SHALL COMPLY WITH FLORIDA BUILDING CODE 2010 EDITION, ACI 318-08, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 350, AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 1989, AND AISC SPECIFICATIONS.

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. DO NOT SCALE THE DRAWINGS FOLLOW WRITTEN DIMENSIONS ONLY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PART OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS WORK INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. THE CONTRACTOR SHALL SUPPLEMENT THE MINIMUM REQUIRED FOUNDATION AND SITE PREPARATION REQUIREMENTS AND SLAB-ON-GRADE THICKNESS TO HANDLE CONSTRUCTION LOADS.

DESIGN LOADS:

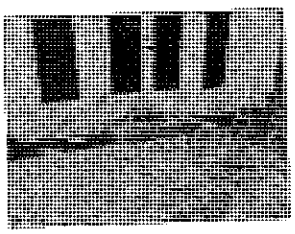
THE STRUCTURAL FRAMING WAS DESIGNED USING THE FOLLOWING SUPERIMPOSED LOADS.
DESIGN WIND LOADS WERE DETERMINED IN ACCORDANCE WITH ASCE 7-10.

ROOF:
LIVE LOAD.....30 PSF
DEAD LOAD.....25 PSF

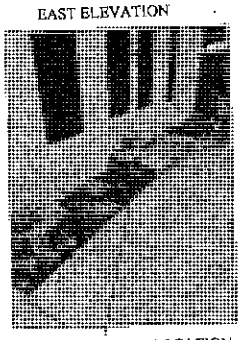
WIND:
DESIGN WIND SPEED = 175 MPH
RISK CATEGORY =II
EXPOSURE C
INTERNAL PRESSURE COEFFICIENT = +/- 0.18/- 0.18

ALL DIMENSIONS REFERENCE TO ARCHITECTURAL DRAWINGS
SEPARATE RAILINGS SHOP DRAWINGS, TO BE SUBMITTED IN COORDINATION WITH LOCAL AUTHORITIES HAVING JURISDICTION.
ALL APPROVED SHOP DRAWINGS SHALL BE REVIEWED BY THE ENG. OF RECORD AND SUBMITTED AND PROCESSED AT THE BUILDING DEPARTMENT.

REVISION PERMIT # B13-105839



EAST ELEVATION



PROPOSED STEPS LOCATION

APPROVED

FEB 14 2016

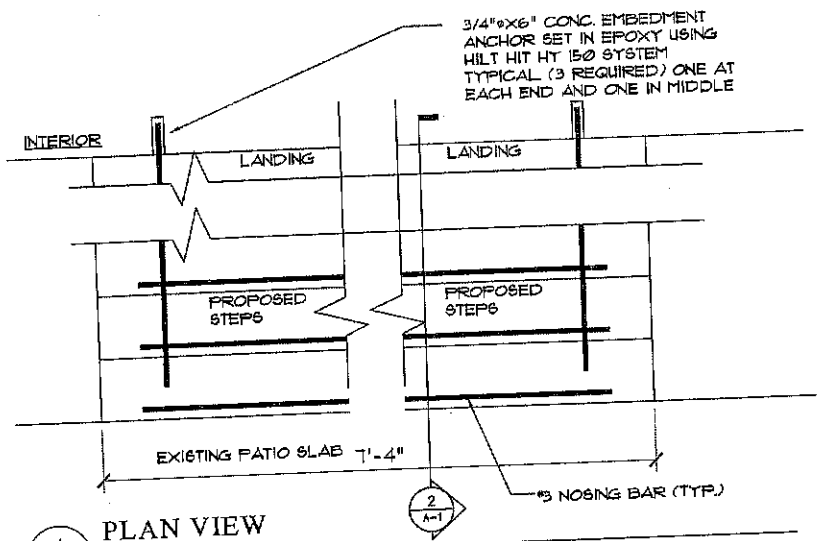
City of Hollywood, FLA
Structural

Houlihan Construction, LLC
1715 N. 44th Ave.
Hollywood, FL 33021

EXTERIOR STAIRS STEPS
CAROL & PAT CANTOR RESIDENCE
1201 NORTH SOUTHLAKE DR
HOLLYWOOD, FL

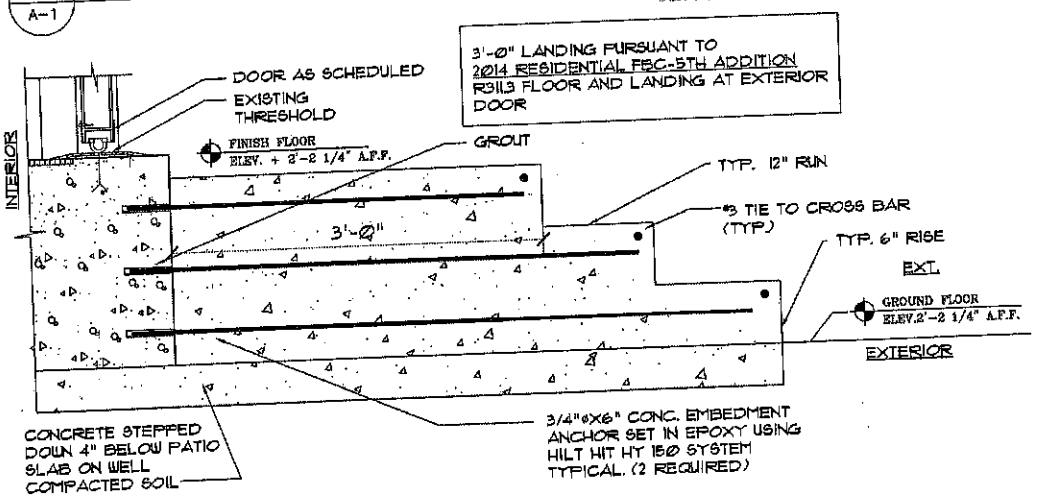
EMILIANO OROZCO P.E.
949 SW 122 AVENUE
MIAMI, FL 33184
LIC No.66341

REVISION PERMIT # B13-105839



1/A-1 PLAN VIEW

SCALE: 1"=1'-0"



2/A-1 STAIR SECTION

SCALE :1"=1'-0"

APPROVED

FEB 14 2016

City of Hollywood, FLA
Structural

MECAWind Version 2.1.0.6 per ASCE 7-10

Developed by MECA Enterprises, Inc. Copyright 2014 www.mecaenterprises.com

10/25-14

Date	: 10/8/2014	Project No.	:
Company Name	:	Designed By	:
Address	:	Description	: Windows & Doors
City	:	Customer Name	: Cantor Residence
State	:	Proj Location	: 1201 NORTH SOUTH LAKE DR.

File Location: E:\Projects\Ximena\files usb 2\INGENIERO EMILIANO\CANTOR RESIDENCE HOLLYWOOD\WINDOW SD\NOAS 9-23-14\WIND.wnd

Directional Procedure Simplified Diaphragrm Building (Ch 27 Part 2)

All pressures shown are based upon ASD Design, with a Load Factor of .6

Basic Wind Speed(V)	= 175.00 mph	Exposure Category	= C
Structural Category	= II	Flexible Structure	= No
Natural Frequency	= N/A	Kd Directional Factor	= 0.85
Importance Factor	= 1.00		
Damping Ratio (beta)	= 0.01	Zg	= 900.00 ft
Alpha	= 9.50	Bt	= 1.00
At	= 0.11	Bm	= 0.65
Am	= 0.15	l	= 500.00 ft
Cc	= 0.20	Zmin	= 15.00 ft
Epsilon	= 0.20	Slope of Roof(Theta)	= 4.00 Deg
Slope of Roof	= 0.84 : 12	Type of Roof	= Gabled
Ht: Mean Roof Ht	= 11.75 ft	Eht: Eave Height	= 10.00 ft
RHt: Ridge Ht	= 13.50 ft	Roof Area	= 5012.00 ft^2
OH: Roof Overhang at Eave	= .00 ft		
Bldg Length Along Ridge	= 50.00 ft	Bldg Width Across Ridge	= 100.00 ft

Gust Factor Category I Rigid Structures - Simplified Method

Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use 0.85 = 0.85

Gust Factor Category II Rigid Structures - Complete Analysis

Zm:	0.6*Ht	= 15.00 ft
lzm:	Cc*(33/Zm)^0.167	= 0.23
Lzm:	l*(Zm/33)^Epsilon	= 427.06 ft
Q:	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	= 0.89
Gust2:	0.925*((1+1.7*Izm*3.4*Q)/(1+1.7*3.4*Izm))	= 0.87

Gust Factor Summary

Not a Flexible Structure use the Lessor of Gust1 or Gust2 = 0.85

Table 26.11-1 Internal Pressure Coefficients for Buildings, GCpi

GCPi : Internal Pressure Coefficient = +/-0.55

Reduction Factor for Large Volume Buildings, Ri

Aog:	Total Area of Openings in Bldg Envelope	= 00 ft^2
Vi:	Unpartitioned Internal Value	00 ft^3
Ri:	0.5*((1+1/(1+(Vi/(22800*Aog))^0.5))(Eqn. 6-16)	= 1.000

Notes: 1) +GCpi = +0.55 * Ri

Notes: 2) -GCpi = -0.55 * Ri

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OCT 2 8 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

Topographic Adjustment

0.33*z

Kzt (0.33*z): Topographic factor at elevation 0.33*z 1.00

Vtopo: Adjust V per Para 27.5.2: V * [Kzt(0.33*z)]^0.5 = 175.00 mph

Net Wind Pressures on Walls (Table 27.6-1)

Wall Pressures do not include effect of internal pressure

MWFRS-Wall Pressures for Wind Normal to 100 ft wall

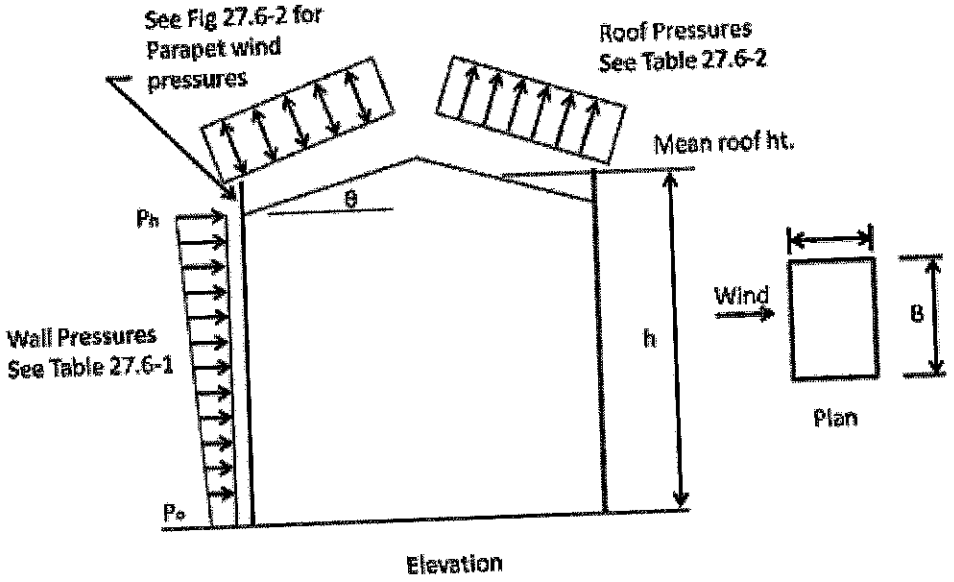
L/B = 0.50
ph: Net Pressure at top of wall (windward + leeward) = 38.70 psf
p0: Net Pressure at bottom of wall (windward + leeward) = 38.70 psf

ps: Side wall pressure acting uniformly outward = .54 * ph = 20.90 psf
pl: Leeward wall pressure acting uniformly outward = .38 * ph= 14.71 psf
pwh: Windward wall pressure acting uniformly outward = ph-pl = 23.99 psf
pw0: Windward wall pressure acting uniformly outward = p0-pl = 23.99 psf

MWFRS-Wall Pressures for Wind Normal to 50 ft wall

L/B = 2.00
ph: Net Pressure at top of wall (windward + leeward) = 33.68 psf
p0: Net Pressure at bottom of wall (windward + leeward) = 33.68 psf

ps: Side wall pressure acting uniformly outward = .64 * ph = 21.55 psf
pl: Leeward wall pressure acting uniformly outward = .27 * ph= 9.09 psf
pwh: Windward wall pressure acting uniformly outward = ph-pl = 24.58 psf
pw0: Windward wall pressure acting uniformly outward = p0-pl = 24.58 psf

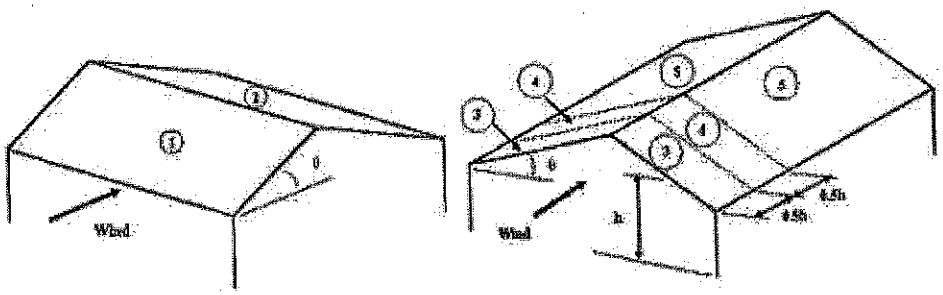


Net Wind Pressures on Roof (Table 27.6-2):

Exposure Adjustment Factor = 1.000

Zone	Load Case1 psf	Load Case2 psf
1	.00	.00
2	.00	.00
3	-36.05	.00
4	-32.18	.00
5	-26.37	.00

Note: A value of '0' indicates that the zone/load case is not applicable.

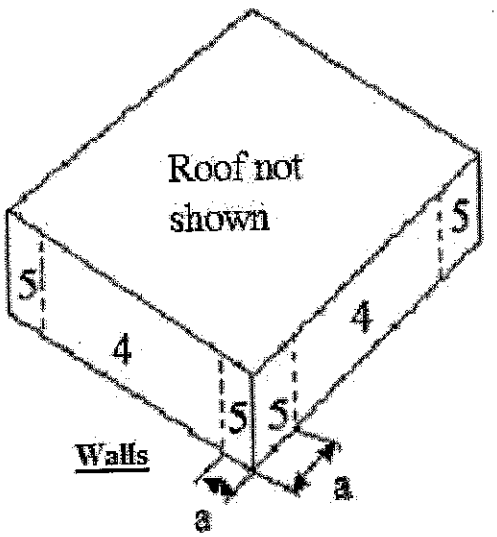


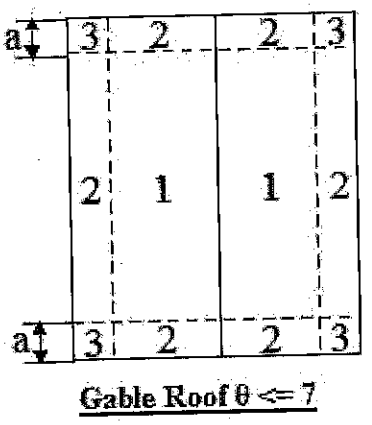
Gabled Roof

MECAWind Version 2.1.0.6 ASCE 7-10

Developed by MECA Enterprises, Inc. Copyright 2014 www.mecaenterprises.com

Date : 10/8/2014
Company Name :
Address :
City :
State :
Project No. :
Designed By :
Description : Windows & Doors
Customer Name : Cantor Residence
Proj Location : 1201 NORTH SOUTH LAKE DR.
File Location: E:\Projects\Ximena\files usb 2\INGENIERO EMILIANO\CANTOR RESIDENCE HOLLYWOOD \WINDOW SD\NOAS 9-23-14\WIND.wnd





Wind Pressure on Components and Cladding

All pressures shown are based upon ASD Design, with a Load Factor of .6

Width of Pressure Coefficient Zone "a" = 4.7 ft

Description	Width ft	Span ft	Area ft^2	Zone	Max GCp	Min GCp	Max P psf	Min P psf
Window A	2.30	6.10	14.0	4	0.88	-0.97	48.42	-51.48
Window A	2.30	6.10	14.0	5	0.88	-1.21	48.42	-59.85
Window B	2.10	6.10	12.8	4	0.88	-0.97	48.64	-51.69
Window B	2.10	6.10	12.8	5	0.88	-1.23	48.64	-60.27
Window C	3.10	1.20	3.7	4	0.90	-0.99	49.22	-52.27
Window C	3.10	1.20	3.7	5	0.90	-1.26	49.22	-61.43
Door 1	3.00	7.00	21.0	4	0.85	-0.94	47.48	-50.53
Door 1	3.00	7.00	21.0	5	0.85	-1.16	47.48	-57.96
Door 2	3.00	7.00	21.0	4	0.85	-0.94	47.48	-50.53
Window D	6.00	5.00	30.0	4	0.82	-0.91	46.64	-49.70

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).
This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "HIG Casement" Aluminum Clad Wood Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1518**, titled "HIG Aluminum Clad Impact Casement Window", sheets 01 through 05 of 05, dated 03/23/07, with revision "**C1**" dated 06/27/13, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **revises NOA No. 13-0829.18** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.
The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**

MIAMI-DADE COUNTY APPROVED

J. Gascon 6/18/14

APPROVED
OCT 2 8 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

NOA No. 14-0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under previous NOA's No.'s 13–0829.18, 09–1027.05 & 07–0619.12)
2. Drawing No. **1518**, titled "HIG Aluminum Clad Impact Casement Window", sheets 01 through 05 of 05, dated 03/23/07, with revision "**C1**" dated 06/27/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0829.18)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of series/ model HIG IG/ monolithic aluminum clad wood awning window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Element Materials Technology, Inc., Test Report No. **ESP–014011P.Casement.Dade**, dated 08/05/13, signed and sealed by Thomas A. Kolden, P. E.
   (Submitted under previous NOA No. 13–0829.18)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94

   along with marked–up drawings and installation diagram of series/ model HIG IG/ monolithic Aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–93260.01–201–18**, dated 09/15/09, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA No. 09–1027.05)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201–94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of series/model HIG IG/monolithic aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–93328.01–201–18**, dated 08/24/09, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA No. 09–1027.05)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
3) Water Resistance Test, per FBC, TAS 202–94
4) Large Missile Impact Test per FBC, TAS 201–94
5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202–94

along with marked–up drawings and installation diagram of series/model HIG IG/monolithic aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–71262.08–201–18**, dated 05/27/07, signed and sealed by Joseph A. Reed, P.E.
(Submitted under previous NOA No. 07–0619.12)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, dated 10/21/11, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 12–0620.11)
2. **Glazing complies with ASTM E1300–04/ 09**

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their **"DuPont Butacite® PVB Interlayer"** dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. **11–0624.02** issued to **E.I. DuPont DeNemours & Co.**, Inc. for their **"DuPont SentryGlas® Interlayer"** dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

1. Statement letter of conformance and complying with **FBC 5th Edition (2014)**, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 04/15/14, signed and sealed by Warren W. Schaefer, P. E.
2. Laboratory compliance letter for Test Report No. **ESP–014011P.Casement.Dade,** issued by Element Materials Technology, Inc., dated 08/05/13, signed and sealed by Thomas A. Kolden, P. E.
(Submitted under previous NOA No. 13–0829.18)
3. Proposal issued by Product Control, 03/26/13, signed by Jaime D. Gascon, P. E.
(Submitted under previous NOA No. 13–0829.18)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

4. Statement letter of conformance and complying with **FBC–2010**, dated 10/21/11, signed and sealed by Warren W. Schaefer, P.E.
   (Submitted under previous NOA No. 12–0620.11)
5. Statement letter of no financial interest, dated 10/19/11, signed and sealed by Warren W. Schaefer, P.E.
   (Submitted under previous NOA No. 12–0620.11)
6. Laboratory compliance letters for Test Reports No.'s **ATI–93260.01–201–18, ATI–93328.01–201–18** and **ATI–71262.08–201–18**, all issued by Architectural Testing, Inc., dated 09/15/09 and 08/25/09, all signed and sealed by Joseph A. Reed, P. E.
   (Submitted under previous NOA's No.'s 07–0619.12 and 09–1027.05)

G. OTHERS

1. Notice of Acceptance No. **13–0829.18**, issued to Pella Corporation for their Series **"HIG Casement Aluminum Clad Wood Casement Window – L.M.I."**, approved on 11/07/13 and expiring on 11/15/17.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF KD = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR CD = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

CORNER CONSTRUCTION

FRAME CORNERS: THE SIDE WOOD MEMBERS ARE BUTTED TO THE HEAD & SILL MEMBERS & SECURED WITH THREE(3) 14 GAGE 7/16" X 2 1/2" STAPLES. CLADDING IS MITERED TOGETHER, JOINED WITH A PLASTIC CORNER KEY PART NO. 7710000G0 & SEALED WITH BUTYL DEVAN 578.12 OR BOSTIK 900 POLYURETHANE SEALANT. EACH CLADDING MEMBER IS SECURED TO THE KEY WITH 1 NO. 10 X 17/32" FH SCREW (2 TOTAL PER CORNER)

SASH CORNERS:

OPTION 1: MORTISE & TENON CONSTRUCTION. A 1/8" BEAD OF BOSTIK CHEM-CALK URETHANE IS PLACED AT THE TENNON BOTTOM SURFACE. WOOD GLUE IS PLACED AT THE TENNON SIDES. THE JOINT IS THEN ASSEMBLED & SECURED WITH ONE 15 GA. X 1 1/2" FINISH NAIL.

OPTION 2: SCREWED CONSTRUCTION. MEMBER ENDS ARE PROFILED AND PARTIALLY TENONED, BUTTED & ADHERED TOGETHER WITH BOSTIC 70-05/70-05A AND THEN SECURED WITH NO. 12 X 4" FH WOOD SCREWS (1 SCREW WITH SASH HEIGHTS LESS THAN 3.5"; 2 SCREWS WITH SASH HEIGHTS 3.5" TO 5 3/8"). THE CLADDING IS TABBED WITH THE TABS MEETING IN A BED OF BOSTIC IN A GROOVE ON THE EXTERIOR SASH FACE RESULTING FROM THE PARTIALLY TENNONED RAIL END.

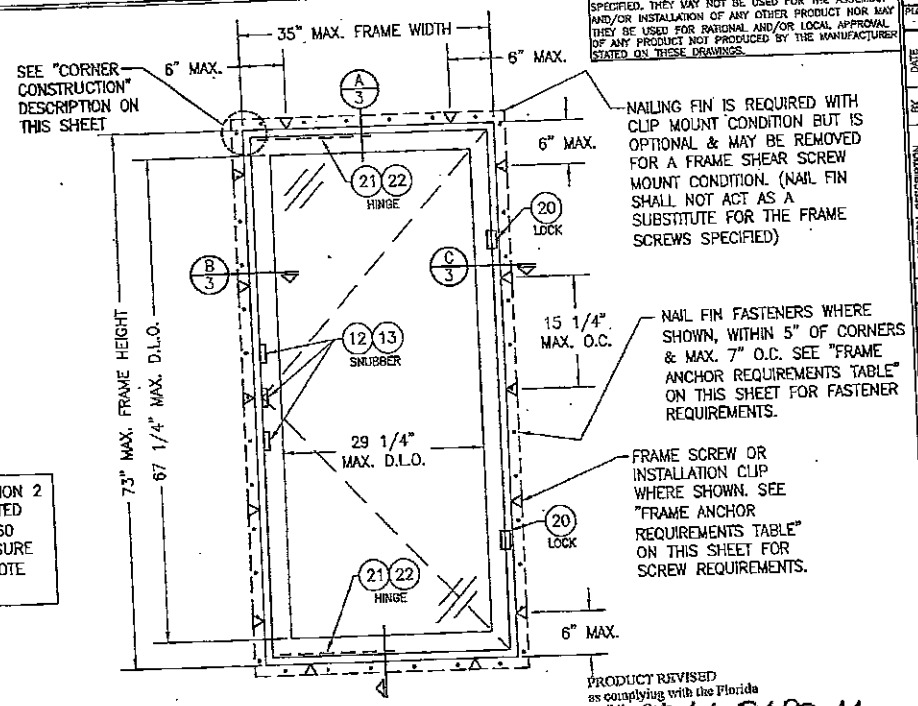
SASH CORNER OPTION 2 WINDOWS ARE LIMITED TO MAXIMUM +/-60 PSF DESIGN PRESSURE (SEE PRESSURE NOTE ON THIS SHEET.)

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	2" X 11 GA. ROOFING NAIL	1 7/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

(2) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.



EXTERIOR ELEVATION:
SINGLE CASEMENT WINDOW
SCALE: 3/4" = 1'-0"

ALLOWABLE WINDOW SIZE VS. PRESSURE TABLE (SINGLE WINDOWS)

GLASS OPTION	MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM FRAME WIDTH (IN.)	ALLOWABLE PRESSURE (PSF) POSITIVE	ALLOWABLE PRESSURE (PSF) NEGATIVE
A	73	35	75	75
B	73	35	75	75
	71	32	75	85
	65	35	75	85
C	73	35	75	75
D	73	35	75	75
	71	32	75	85
	65	35	75	85
E	71	32	(*) 64.8	(*) 64.8
	65	35	(*) 69.6	(*) 69.6

(*) WHEN THE 1/8" ANNEALED EXTERIOR PANE OF GLASS IN GLASS TYPE "E" IS SUBSTITUTED WITH 1/8" TEMPERED, THE ALLOWABLE PRESSURE MAY BE INCREASED TO +/-75 PSF.

ALLOWABLE PRESSURE NOTE:
PRESSURES LISTED IN TABLE CONSIDER WINDOWS WITH SASH CORNER CONSTRUCTION OPTION 1. WHEN SASH CORNER CONSTRUCTION OPTION 2 IS USED, ALLOWABLE PRESSURE MAY NOT EXCEED +/-60 PSF REGARDLESS OF PRESSURES SHOWN IN TABLE.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 14-0428.11 Expiration Date 11/15/2017 By Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 13-0829.18 Expiration Date 11/15/2017 By Miami Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

NO.	REVISION DESCRIPTION	BY	DATE
A	UPDATE PER NOA TESTING AND CURRENT STANDARDS	WRM	09/20/10
B1	UPDATE TO CURRENT STANDARDS	WRM	10/21/11
C1	UPDATE TO PER NEW TESTING	WRM	06/27/13

DRAWN BY: W.R.M. | CHECKED BY: W.W.S. | PLOT: 1=16 | DATE: 03/23/07

DRAWING TITLE: HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

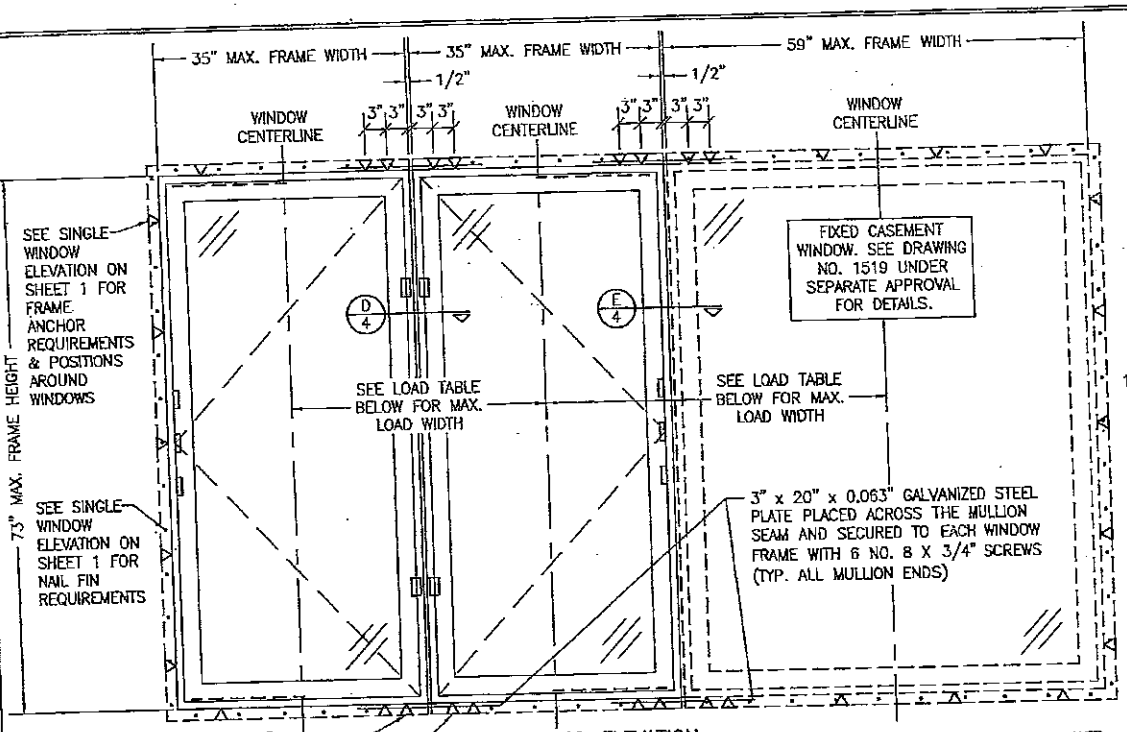
MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7480 130TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424

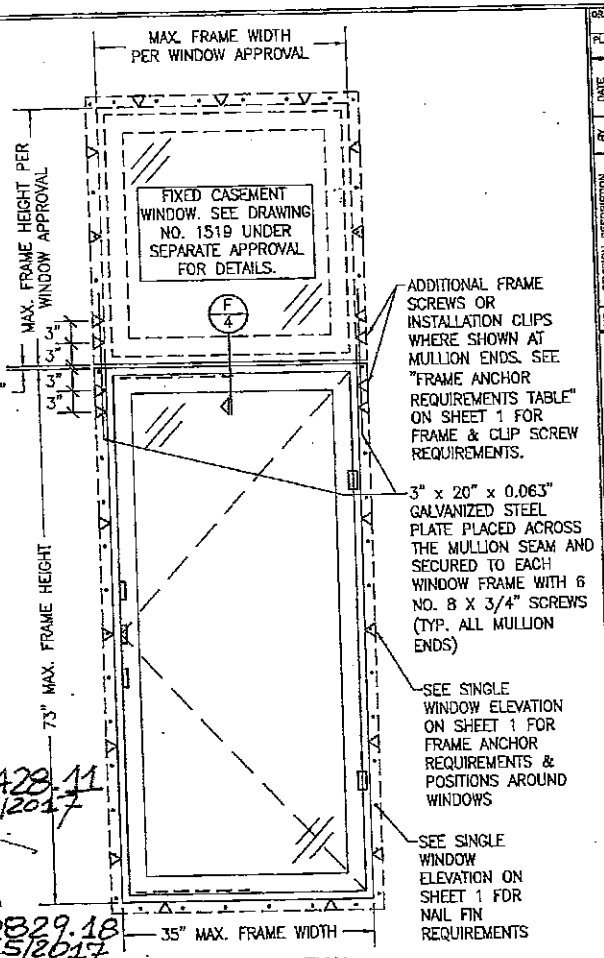
CERTIFICATION: AUG 27 2013, WARREN W. SCHAEFER, P.E. NO. 44135, P.E.

DRAWING NO. 1518 | REV. C

SHEET NO. 1 OF 5



EXTERIOR ELEVATION:
MULTIPLE CASEMENT/FIXED WINDOW
SCALE: 3/4" = 1'-0"



EXTERIOR ELEVATION:
SINGLE CASEMENT WINDOW WITH TRANSOM
SCALE: 3/4" = 1'-0"

ALLOWABLE DESIGN PRESSURE TABLE (SIDE BY SIDE WINDOWS)

MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF) MULLION CONDITION "XX"	"XO"
73	47.5	N/A	+75/-75
73	35.5	+75/-75	+75/-75
71	43.5	N/A	+75/-84.2
71	42.5	N/A	+75/-85
71	32.5	+75/-85	+75/-84.2
71	31.5	+75/-85	+75/-85
65	47.5	N/A	+75/-84.2
65	46.5	+75/-85	+75/-85
65	35.5	+75/-85	+75/-84.2
65	34.5	+75/-85	+75/-85

NOTES:
1. LOAD WIDTH IS THE DISTANCE BETWEEN WINDOW CENTERLINES.
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL WINDOW.
3. "XX" = MULLION BETWEEN 2 OPERABLE WINDOWS.
4. "XO" = MULLION BETWEEN AN OPERABLE AND FIXED WINDOW.
5. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT SIZE OPTION.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14-0428.11 Expiration Date 11/15/2017 By Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-0829.18 Expiration Date 11/15/2017 By Miami Dade Product Control

ALLOWABLE DESIGN PRESSURE (TRANSOM UNIT)

UNIT PRESSURE SHALL BE AS CONTROLLED BY THE INDIVIDUAL WINDOW ALLOWABLE PRESSURES. MULLION DOES NOT CONTROL THIS UNIT.

MULTIPLE UNIT NOTES:
1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERED FROM THE WINDOWS & THEIR MULLIONS.

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

AUG 27 2013

WARREN W. SCHAEFER P.E. No. 44135

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: W.R.M. | CHECKED BY: W.W.S. | PLOT: 1=16 | DATE: 03/23/07

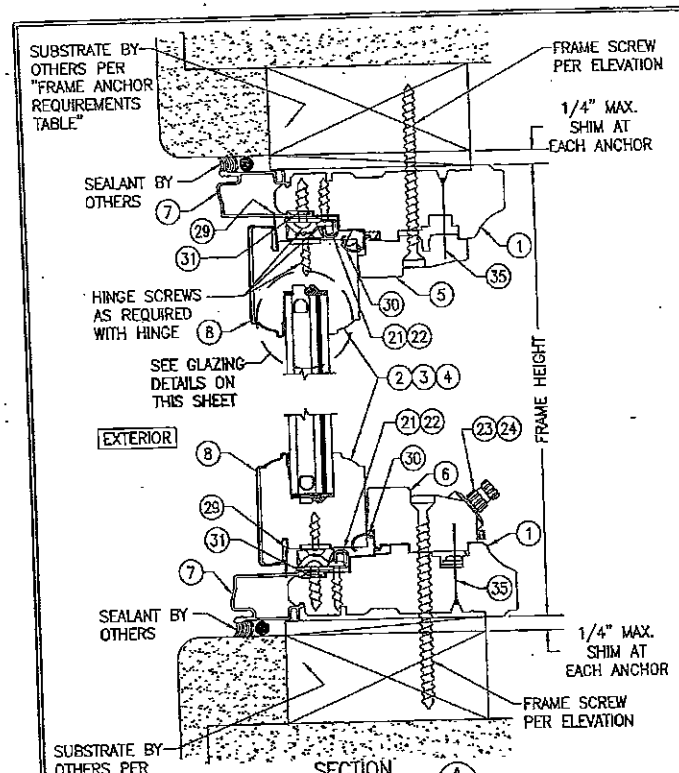
DRAWING TITLE: HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7480 156TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424

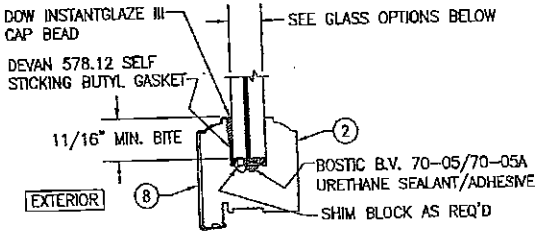
DRAWING NO. 1518 | REV. C

SHEET NO. 2 OF 5



SECTION A/3
SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.

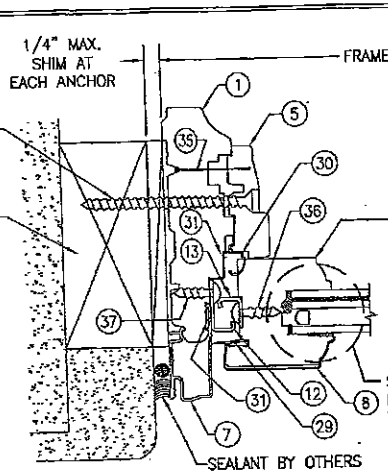


GLAZING DETAIL 1

GLASS OPTIONS:

OPTION A: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09 DUPONT BUTACITE PVB/1/4" AN.)

OPTION B: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09 DUPONT SG/1/4" AN.)



SECTION B/3
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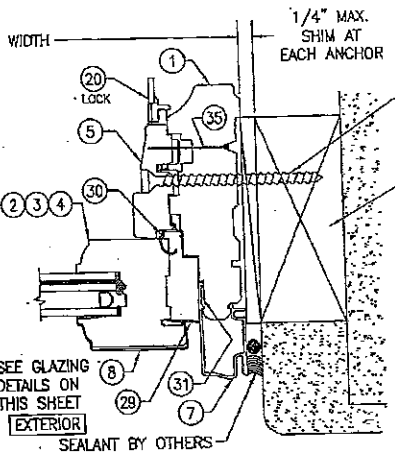
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



SECTION C/3
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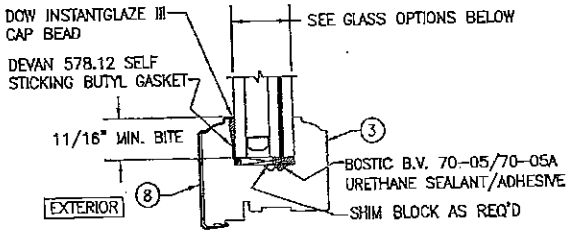
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



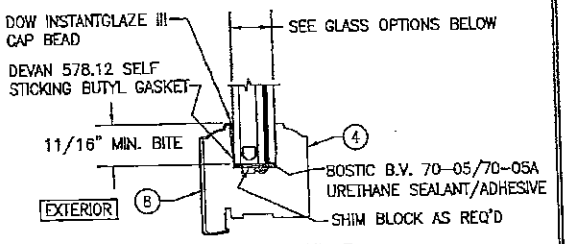
GLAZING DETAIL 2

GLASS OPTIONS:

OPTION C: 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT BUTACITE PVB/5/32" AN. INTERIOR)

OPTION D: 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT SG/5/32" AN. INTERIOR)

1" I.G. GLASS NOTE:
THE EXTERIOR 3/16" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 3/16" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.



GLAZING DETAIL 3

GLASS OPTIONS:

OPTION E: 11/16" THICK LAMINATED I.G. GLASS (1/8" AN. EXTERIOR; 1/4" SPACER; 7/64" AN./0.09 DUPONT BUTACITE PVB/7/64" AN. INTERIOR)

11/16" I.G. GLASS NOTE:
THE EXTERIOR 1/8" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 1/8" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0829.18
Expiration Date 11/15/2017
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0428.11
Expiration Date 11/15/2017
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE NO. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: K.R.V. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 03/23/07

NO.	REVISION - DESCRIPTION	BY	DATE

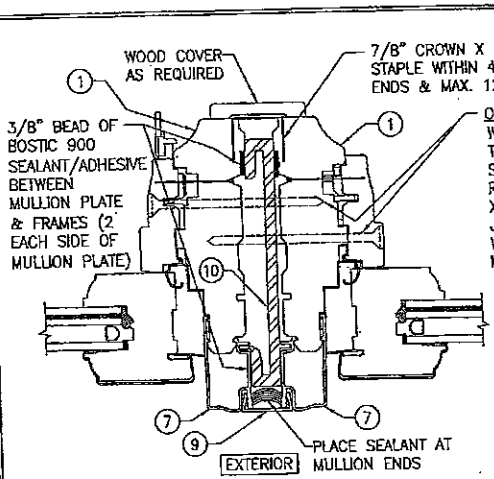
MANUFACTURER: PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS
W. W. SCHAEFER, ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

DRAWING TITLE
HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

CERTIFICATION
AUG 27 2013
WARREN W. SCHAEFER, P.E.
FLA. P.E. NO. 44135

DRAWING NO. 1518 | REV. C
SHEET NO. 3 OF 5



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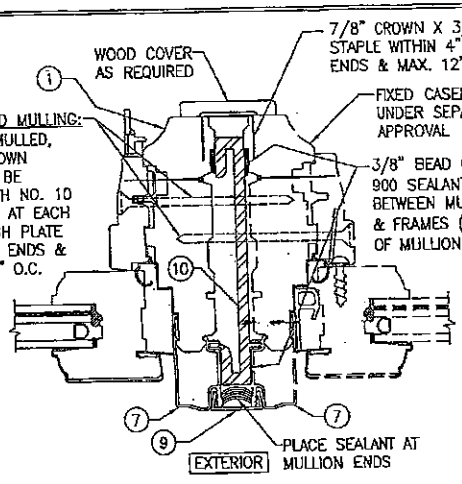
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



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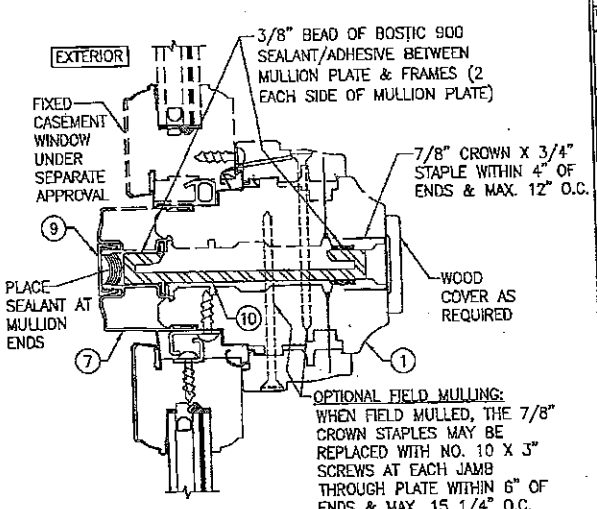
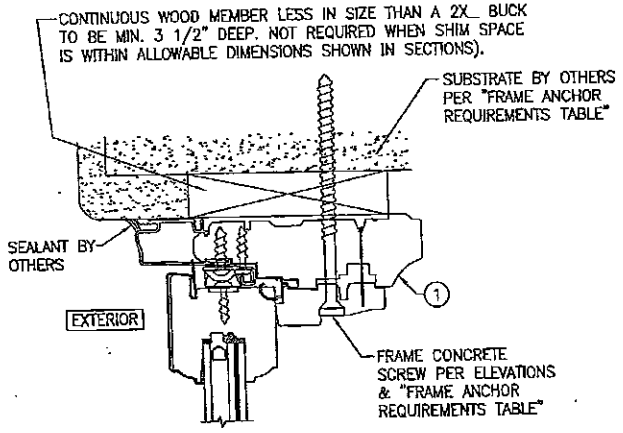
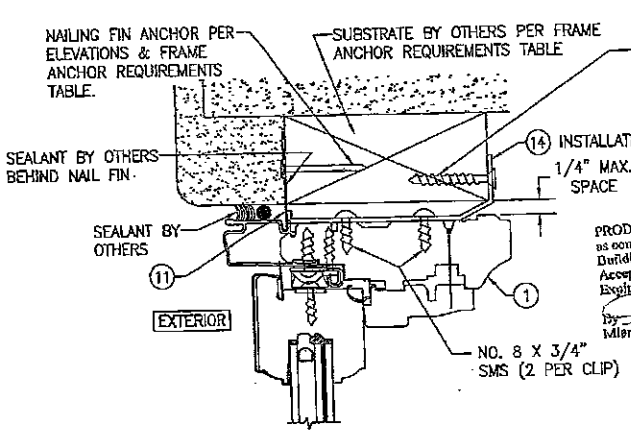
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION F/4
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL INSTALLATION CLIP/NAIL FIN DETAIL
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0428.11
Expiration Date 11/15/2017
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0829.18
Expiration Date 11/15/2017
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: W.R.W. | CHECKED BY: W.W.S.
PLOT: 1-2 | DATE: 03/23/07

NO.	REVISION DESCRIPTION	BY	DATE

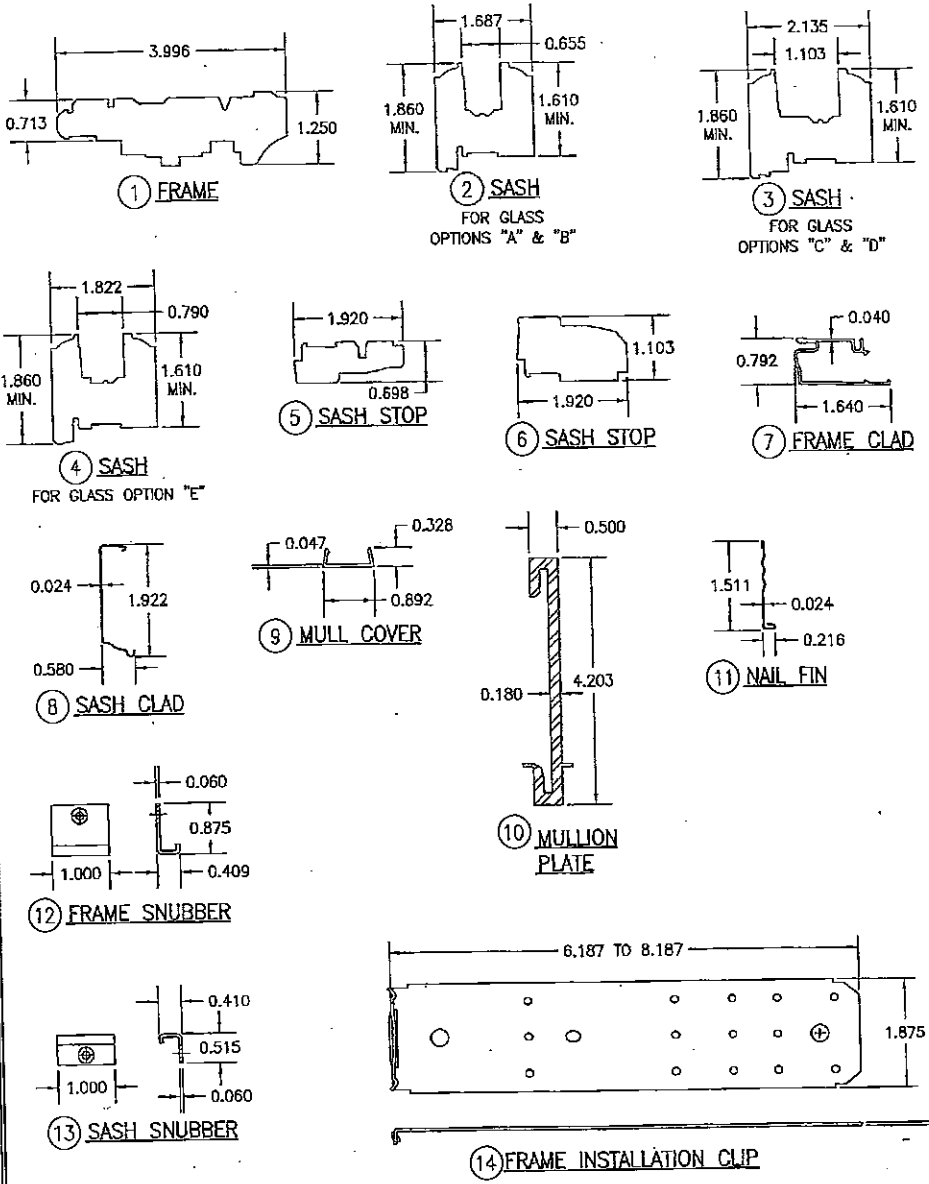
DRAWING TITLE
HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

MANUFACTURER
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7499 150TH COURT NORTH, PALM BEACH GARDENS, FL. 33418
PHONE 561-744-3424

CERTIFICATION
AUG 27 2013
WARREN W. SCHAEFER, P.E. P.E. NO. 44135

DRAWING NO. 1518 | REV. C
SHEET NO. 4 OF 5



ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	FRAME JAMB	WOOD
2	SASH FOR GLASS OPTION A & B	WOOD
3	SASH FOR GLASS OPTION C & D	WOOD
4	SASH FOR GLASS OPTION E	WOOD
5	SASH STOP	WOOD
6	SASH STOP (VENT SILL)	WOOD
7	FRAME CLAD	6063-T6 ALUMINUM
8	SASH CLAD	3003-H14 ALUMINUM
9	MULLION COVER	6063-T6 ALUMINUM
10	MULLION PLATE	6063-T6 ALUMINUM
11	NAIL FIN	3003-H14 ALUMINUM
12	FRAME SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
13	SASH SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
14	INSTALLATION CLIP	50 KSI GALVANIZED STEEL
	HARDWARE	
20	LOCK (2 PER WINDOW)	PELLA #16DR
21	CENTER PIVOT HINGE (USED WITH ROTO OPERATOR)	OVERLAND 1AJC/1AJA
22	SCISSOR HINGE (USED WITH EGRESS OPERATOR)	PELLA 15EA/15E9 (16 GAGE 302/304 S.S.)
23	ROTO OPERATOR	PELLA #2AAX/2AAY
24	EGRESS OPERATOR	PELLA #2ABA
	SEALS & SEALANTS	
29	RAINSTRIP	PELLA PART #75T2 - PVC DUROMETER 75
30	WEATHERSTRIP	PELLA PART #505J - PP/SANTOPRENE 64
31	FRAME CLAD SEALANT	BUTYL
	MISCELLANEOUS FASTENERS	
35	1 3/8" 4D ANNULAR RINGSHANK BOX NAIL	WITHIN 5" OF CORNERS & 4" TO 9" O.C.
36	NO. 8 X 3/4" FH SCREW	1 PER SNUBBER
37	NO. 7 X 3/4" PH SCREW	1 PER SNUBBER

NOTE: WOOD USED IN TESTING WAS WESTERN PINE WITH A SPECIFIC GRAVITY OF G = 0.43 AND A MODULUS OF ELASTICITY OF E = 1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PELLA CORPORATION TO SELECT.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0829.18
Expiration Date 11/15/2017
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.11
Expiration Date 11/15/2017
By
Miami Dade Product Control

WARREN W. SCHAEFER P.E. LICENSE NO 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 03/23/07

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

MANUFACTURER: PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6808)
7480 160TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
AUG 27 2013
WARREN W. SCHAEFER P.E. FL. NO. 44135

DRAWING NO. 1518 | REV. C
SHEET NO. 5 OF 5

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).
This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Direct Set" Aluminum Clad Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1287**, titled "Aluminum Clad Wood Direct Set Impact Windows", sheets 01 through 04 of 04, dated 12/20/03, with revision "**F1**" dated 09/16/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **revises NOA No. 13-0919.08** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.
The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**

MIAMI-DADE COUNTY APPROVED

APPROVED
OCT 2 8 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

NOA No. 14-0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014
Page 1

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA's No.'s 04–0322.11, 10–0223.02 and 12–0308.34)
2. Drawing No **1287**, Sheets 01 through 04 of 04, titled "Aluminum Clad Wood Direct Set Impact Windows", dated 12/20/03, with revision "**F1**" dated 09/16/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed windows with IGU, prepared by Element Materials Technology, Test Report No. **TCT008189P.rev**, specimens #1 through #11, dated 01/05/12, revised on 02/14/12, signed and sealed by Jason Steen, P. E.
   (Submitted under previous NOA No. 12–0308.34)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI 97274.01–201–18**, dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
   (Submitted under NOA No. 10–0223.02)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201–94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Reports No.'s **ATI 97275.01–201–18** and **ATI 97276.01–201–18**, dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
   (Submitted under NOA No. 10–0223.02)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW–180–6691**, dated 12/15/03, signed and sealed by John D. Lee, P. E.
   (Submitted under NOA No. 04–0322.11)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC, dated 02/27/12, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 12–0308.34)
2. Glazing complies with **ASTM E1300–04/ 09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11–0624.02** issued to **E.I. DuPont DeNemours & Co.**, Inc. for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with the **FBC 5th Edition (2014)**, dated 04/15/14, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of conformance, complying with the **FBC–2010**, dated 09/03/13, signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)
3. Statement letter of no financial interest, dated 09/04/13, signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)
4. Laboratory compliance letter for Test Report No. **TCT008189P.rev**, issued by Element Materials Technology, LLC, dated 02/14/12, signed and sealed by Jason Steen, P. E.
   (Submitted under previous NOA No. 12–0308.34)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

F. STATEMENTS (CONTINUED)

5. Laboratory compliance letter for Test Reports No.'s **ATI 97274.01–201–18, ATI 97275.01–201–18** and **ATI 97276.01–201–18**, all issued by Architectural Testing, Inc., dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
(Submitted under previous NOA No. 10–0223.02)

6. Laboratory compliance letter for Test Report No. **TCTCW–180–6691**, issued by Stork Twin City Testing Corporation, LLC, dated 12/15/03, signed and sealed by John D. Lee, P. E.
(Submitted under previous NOA No. 04–0322.11)

G. OTHERS

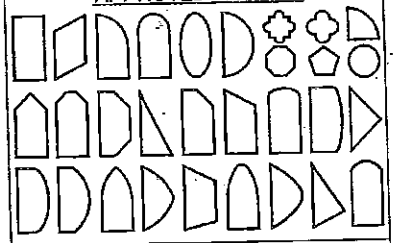
1. Notice of Acceptance No. **13–0919.08**, issued to Pella Corporation for their Series "**Direct Set Aluminum Clad Wood Fixed Window – L.M.I.**", approved on 11/28/13 and expiring on 06/24/19.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

GENERAL NOTES:

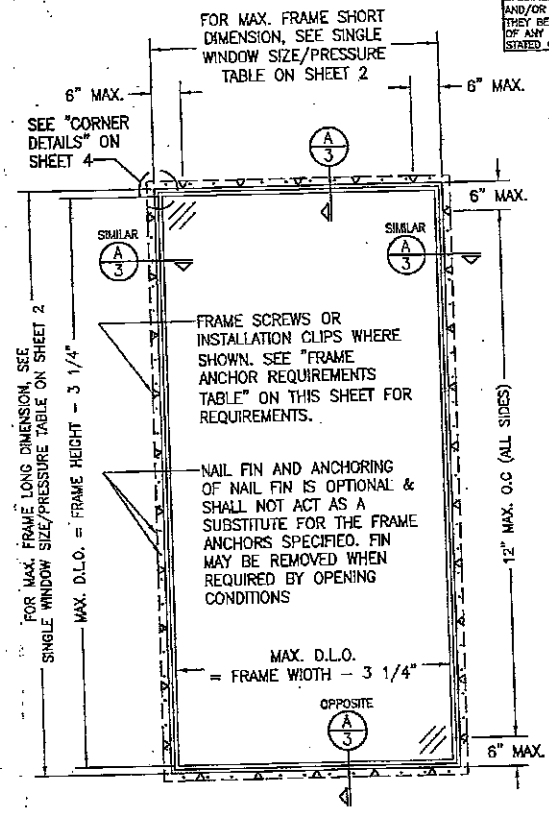
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCALS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

APPROVED SHAPES



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION PER CORNER DETAILS.
2. ALL UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE LOAD TABLE DIMENSIONS (SEE SHEET 2) & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE UNIT SIZE IN THE LOAD TABLE.
3. RECTANGULAR WINDOWS SHOWN. ANCHORING OF SHAPED WINDOWS IS THE SAME WITH REQUIRED ANCHOR SPACING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.



EXTERIOR ELEVATION:
SINGLE FIXED WINDOW

SCALE: 1/2" = 1'-0"

(RECTANGULAR WINDOW SHOWN, SHAPED WINDOWS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON THIS SHEET)

ALLOWABLE DESIGN PRESSURE
SEE LOAD TABLE ON SHEET 2

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
(2) INSTALLATION CLIP SCREWS (STANDARD BENT CONDITION)			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	(2) N/A
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A
INSTALLATION CLIP SCREWS (ALTERNATE STRAIGHT CONDITION)			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
(2) STANDARD BENT CLIP INSTALLATION SCREWS SHALL BE POSITIONED WITHIN 1/4" OF THE BUCK/SUBSTRATE EDGE AND, IF INTO WOOD, ANGLED 20 TO 30 DEGREES INTO THE BUCK.

EDGE DISTANCE MAY BE DECREASED TO 1/2" IF SCREWS ARE ANGLED 15 TO 20 DEGREES AWAY FROM THE EDGE.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14-0428.13 Expiration Date 06/24/2019
By Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-0919.08 Expiration Date June 24 2019
By Miami Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: K.P.S. | CHECKED BY: W.W.S. | PLOT: 1=24 | DATE: 12/20/03

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO 2004 CODE COMPLIANT	WWS	08/09/05
B1	UPDATE TO PRESENT FBC	WWS	02/28/08
C1	CHANGING GLAZING COMPOUND	WWS	02/11/10
D1	UPDATE TO CURRENT STANDARDS	WRM	12/09/11
E1	UPDATE PER NOA TESTING	WRM	02/14/12
F1	UPDATE GLAZING DETAIL	WRM	09/18/13

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7480 195TH COURT NORTH, WILLISTON, FL 32696, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424

SEP 16 2013

WARREN W. SCHAEFER, P.E. NO. 44135

STATE OF FLORIDA

DRAWING NO. 1287 | REV. F

SHEET NO. 1 OF 4

ALLOWABLE SIZE/PRESSURE TABLE

WINDOW FRAME DIMENSION		ALLOWABLE DESIGN PRESSURE (PSF)															
		GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTION 4		GLASS OPTION 5		GLASS OPTION 6		GLASS OPTION 7		GLASS OPTION 8	
MAX. LONG SIDE (IN.)	MAX. SHORT SIDE (IN.)	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
120	60	50.3	50.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54.6	54.6	60.0	60.0
	54	56.3	56.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	48	63.6	63.6	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	38	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	25	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	21	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
108	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56.2	56.2	60.0	60.0
	60	55.9	55.9	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	61.5	61.5	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	48	69.8	69.8	75.0	75.0	N/A	N/A	52.7	52.7	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	28	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	23	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
105	68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56.8	56.8	60.0	60.0
	60	57.9	57.9	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	63.4	63.4	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	52	66.0	66.0	75.0	75.0	N/A	N/A	55.3	55.3	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	71.8	71.8	75.0	85.0	N/A	N/A	59.7	59.7	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	43	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	29	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	24	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
98	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	57.9	57.9	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	62.3	62.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	68.4	68.4	75.0	75.0	N/A	N/A	58.3	58.3	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	47	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	30	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	26	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	59.2	59.2	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	63.7	63.7	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	69.7	69.7	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	85.0	N/A	N/A	80.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	31	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	26	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
84	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	73.1	73.1	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	36	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	30	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
79	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	39	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	36	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	32	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
74	74	71.6	71.6	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	66	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	40	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	34	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

ALLOWABLE SIZE/PRESSURE TABLE

WINDOW FRAME DIMENSION		ALLOWABLE DESIGN PRESSURE (PSF)															
		GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTION 4		GLASS OPTION 5		GLASS OPTION 6		GLASS OPTION 7		GLASS OPTION 8	
MAX. LONG SIDE (IN.)	MAX. SHORT SIDE (IN.)	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
73	73	73.4	73.4	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	66	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	35	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
66	66	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	45	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	38	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
60	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	50	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
55	55	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	46	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
50	50	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

1. ALL SIZES IN TABLE ARE BASED ON TESTED SIZES & DO NOT EXCEED THE WINDOW AREA TESTED.
2. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT GLASS OPTION.
3. SEE GLAZING DETAILS FOR GLASS OPTIONS.
4. LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.13
Expiration Date 5/12/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0919.08
Expiration Date June 24, 2019
By
Miami Dade Product Control

WARREN W. SCHAEFER * LICENSE No 44135 * STATE OF FLORIDA * PROFESSIONAL ENGINEER

DRAWN BY: K.P.S. | CHECKED BY: W.W.S.
PLOT: 1-24 | DATE: 12/20/13

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

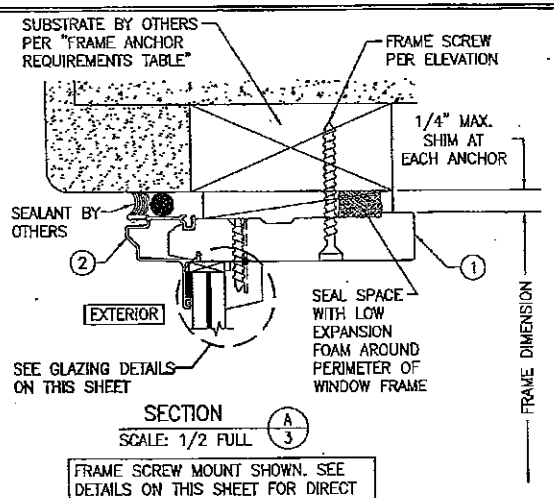
MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL. 33418, PHONE: 561-744-3424

CERTIFICATION: SEP 16 2013, WARREN W. SCHAEFER P.E. NO. 44135

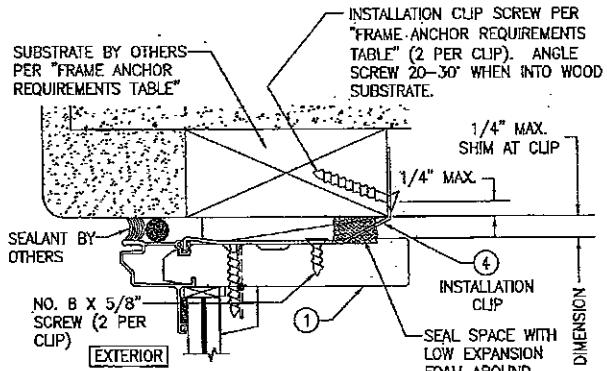
DRAWING NO. 1287 | REV. F

SHEET NO. 2 OF 4

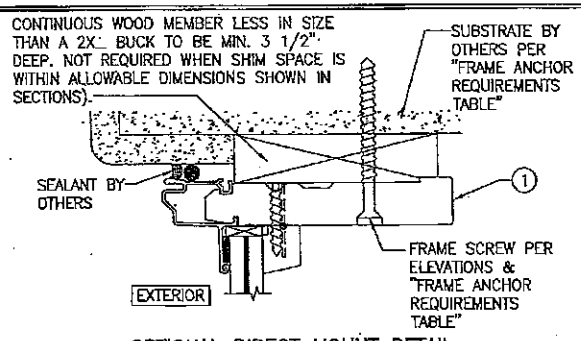


SECTION A/3
SCALE: 1/2 FULL

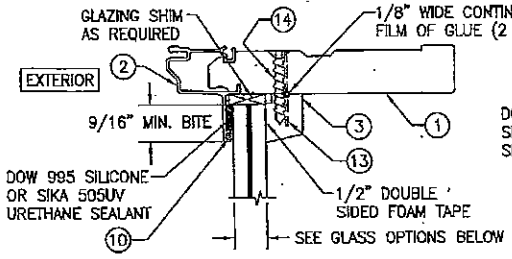
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON THIS SHEET FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



STANDARD INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)

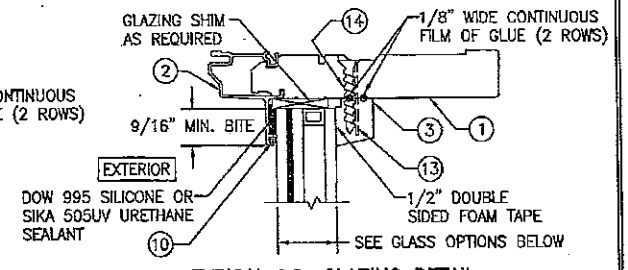


OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)



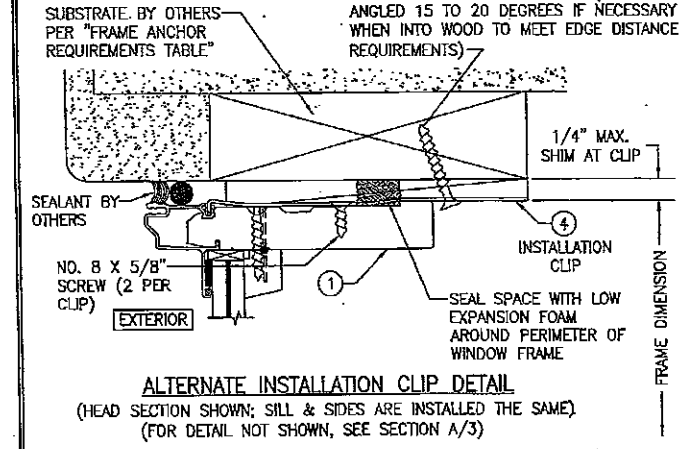
TYPICAL MONOLITHIC GLAZING DETAIL

GLASS OPTIONS:
GLASS OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09" DUPONT SG/1/4" AN.)
GLASS OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09" DUPONT SG/1/4" HT. ST.)
GLASS OPTION 3: 7/16" THICK LAMINATED GLASS (3/16" AN./0.09" DUPONT BUTACITE PVB/3/16" AN.)



TYPICAL I.G. GLAZING DETAIL

GLASS OPTIONS:
GLASS OPTION 4: 1" THICK I.G. GLASS (3/16" AN./0.09 DUPONT SG/3/16" AN. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 5: 1" THICK I.G. GLASS (3/16" AN./0.09 DUPONT BUTACITE PVB/3/16" AN. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 6: 1" THICK I.G. GLASS (3/16" HT. ST./0.09 DUPONT SG/3/16" HT. ST. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 7: 1 1/4" THICK I.G. GLASS (1/4" AN./0.09 DUPONT SG/1/4" AN. EXTERIOR; 3/8" SPACER; 1/4" TEMP. INTERIOR)
GLASS OPTION 8: 1 1/4" THICK I.G. GLASS (1/4" HT. ST./0.09 DUPONT SG/1/4" HT. ST. EXTERIOR; 3/8" SPACER; 1/4" TEMP. INTERIOR)



ALTERNATE INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.13
Expiration Date 06/24/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0917.08
Expiration Date June 24, 2019
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE Nr 14135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 12/20/05

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

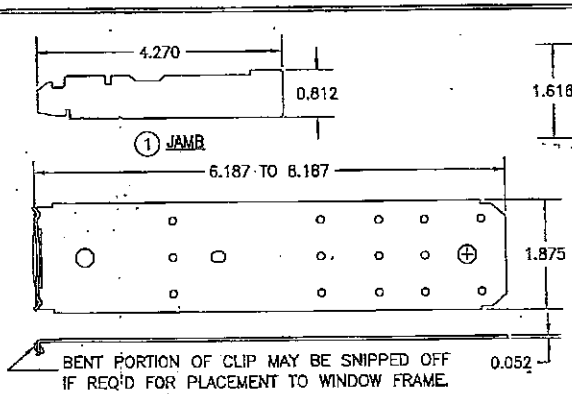
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 2480 150TH COURT NORTH, LOXAHATCHEE, FLORIDA 33418, PALM BEACH (561) 744-3924, PHONE 561-744-3924

CERTIFICATION: SEP 16 2013
WARREN W. SCHAEFER, P.E. NO. 44135

DRAWING NO. 1287 REV. F
SHEET NO. 3 OF 4

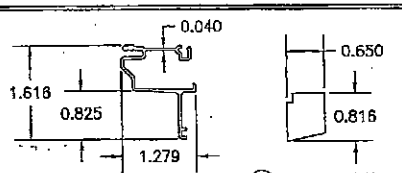
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	JAMB	WOOD
2	JAMB CLADDING	6063-T6 ALUMINUM
3	GLAZING BEAD	WOOD
4	INSTALLATION CLIP	50 KSI STEEL
5	CORNER REINFORCEMENT BRACKET	MIN. 33 KSI GALV. METAL
6	RECTANGULAR FRAME CORNER KEY	NYLON & HYLON
7	SHAPED FRAME CORNER KEY	NYLON & HYLON
	SEALS & SEALANTS	
10	BULB GASKET	PVC
	FASTENERS	
13	1/4" X 1 1/8" 18 GA. STAPLE	WITHIN 2"-4" OF CORNERS & MAX. 6" O.C.
14	NO. 8 X 1 1/4" SMS OR WOOD SCREW	POSITIONED 3", 6", 9" & 12" FROM EACH CORNER

NOTE: WOOD USED IN TESTING WAS PONDEROSA PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PELLA CORP. TO SELECT.

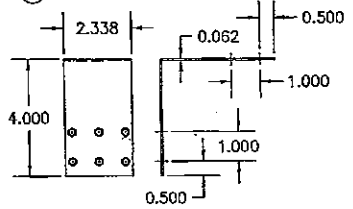


(1) JAMB

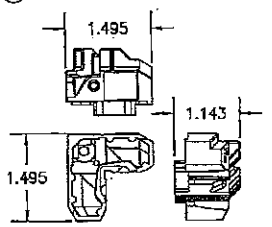
(4) INSTALLATION CLIP



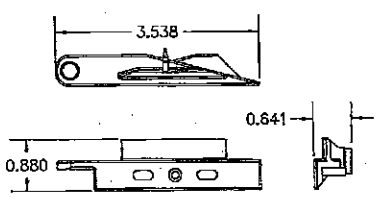
(2) JAMB CLADDING (3) GLAZING BEAD



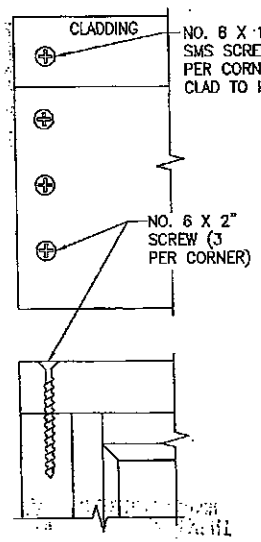
(5) CORNER REINFORCEMENT BRACKET



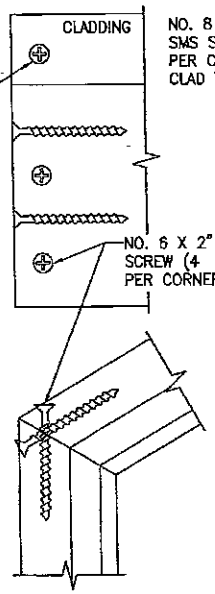
(6) RECTANGULAR FRAME CORNER KEY



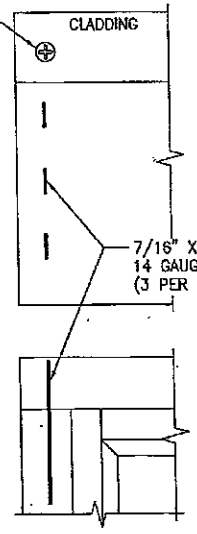
(7) SHAPED FRAME CORNER KEY



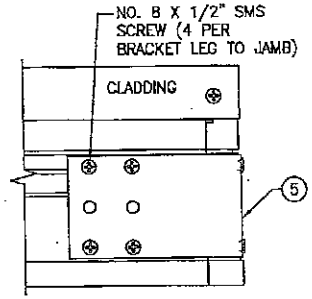
SCREW METHOD CORNER DETAIL FOR 90° CORNERS (INTERIOR VIEW)
NOT TO SCALE



CORNER DETAIL FOR MITERED CORNERS (INTERIOR VIEW)
NOT TO SCALE



STAPLE METHOD CORNER DETAIL FOR 90° CORNERS (INTERIOR VIEW)
NOT TO SCALE



CORNER BRACKET DETAIL
NOT TO SCALE
(ONLY REQUIRED WITH WINDOWS OF SIZE 36 SQUARE FEET & LARGER)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.13
Expiration Date 06/24/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0919.08
Expiration Date June 24, 2018
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEP 16 2013

WARREN W. SCHAEFER P.E. No. 44135

DRAWN BY: K.P.S. CHECKED BY: W.W.S.
PLOT: 1-2 DATE: 12/20/13

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7499 159TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424

CERTIFICATION

DRAWING NO. 1287 REV. F

SHEET NO. 4 OF 4

MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

ECO Windows Systems, LLC
9114 N. W. 106th Street,
Medley, FL 33178

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 600 Aluminum Outswing Doors-L.M.I.

APPROVAL DOCUMENT: Drawing No. **W12-08**, titled "Series 600 Alum Outswing Entrance Door (L.M.I.)", sheets 1 through 9 of 9, prepared by AL-Farooq Corporation, dated 02/13/12 and last revised on Jun 28, 2012, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitation:
1. See Single or Double Door Design Pressure (DP) ratings in sheet 2 and Single or Double Door DP ratings with sidelites (w/wo Reinforcement) in sheet 3. The max door leaf width shall not to exceed 37".
2. Laminated glass types G1 and G2 are limited to .090" DuPont's PVB and glass type G3 is limited to Insulated laminated glass w/ .090" Solutia interlayer.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA and consists of this page 1 and evidence pages E-1 as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E**

APPROVED
OCT 28 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

MIAMI-DADE COUNTY
APPROVED

2/19/13

NOA No 12-0402.03
Expiration Date: July 19, 2017
Approval Date: July 19, 2012

ECO Windows Systems, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections
2. Drawing No. **W12-08**, titled "Series 600 Alum Outswing Entrance Door (L.M.I.)", sheets 1 through 9 of 9, prepared by AL-Farooq Corporation, dated 02/13/12 and last revised on Jun 28, 2012, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

   along with marked-up drawings and installation diagram of an aluminum Outswing French door, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-12-3357, HETI-12-3358, HETI-12-4003, HETI-12-4003 and HETI-12-4027**dated 03/16-26/12, all signed and sealed by Rafael E. Droz-Seda, P. E.
   Note: The above referenced test reports have been revised by an addendum letter dated June 29, 2012, issued by Hurricane Engineering & Testing, Inc., signed and sealed by Rafael E. Droz-Seda, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by Al Farooq Corporation, dated 03/30/12 and last revised on June 28, 2012, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTME-1300-02 & -04.

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**Butacite ® PVB interlayer**", expiring on 12/11/16.
2. Notice of Acceptance **No. 11-0325.05** for "Saflex clear & color interlayer" issued to Solutia Inc., expiring on 05/21/16.
3. XL Edge seal System 201 SS spacer by Cardinal IG.

F. STATEMENTS

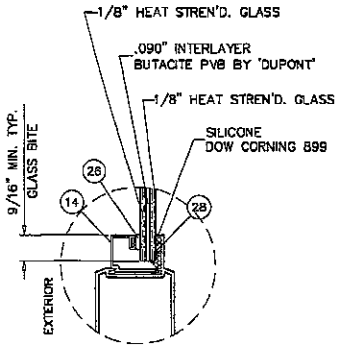
1. Statement letter of conformance and letter of no financial interest, prepared by Al Farooq Corporation, dated 03/30/12, signed and sealed by Javad Ahmad, P.E.
2. Addendum letter dated June 29, 2012, issued by Hurricane Engineering & Testing, Inc., signed and sealed by Rafael E. Droz-Seda, P. E.
3. Lab compliance as part of the above referenced test report.

G. OTHER

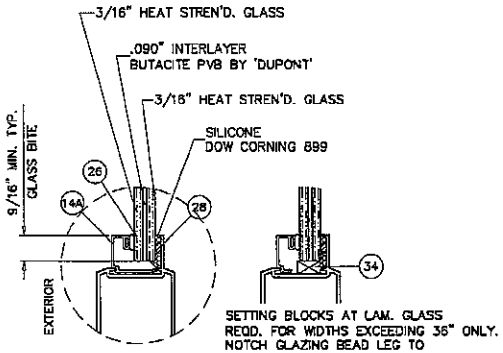
1. Test proposal, dated 10/14/11 and 02-21-12 approved by PERA.

Ishaq I. Chanda

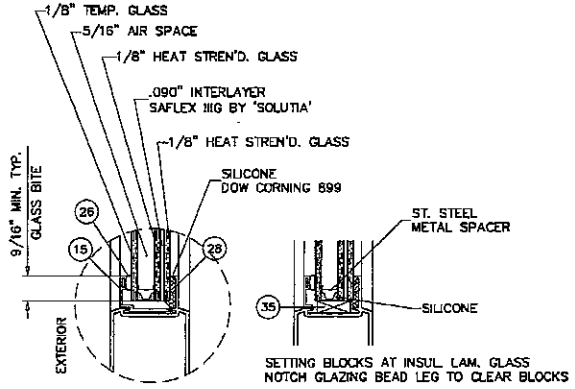
Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 12-0402.03
Expiration Date: July 19, 2017
Approval Date: July 19, 2012



GLASS TYPE 'G1'



GLASS TYPE 'G2'



GLASS TYPE 'G3'

SERIES 600
ALUMINUM OUTSWING ENTRANCE DOOR

SINGLE (X) AND DOUBLE (XX) LEAF DOORS SEE SHEET 2.
SINGLE AND DOUBLE LEAF DOORS WITH SIDELITES SEE SHEET 3.
LOWER VALUES FROM SIDELITE CAPACITY CHART OR DOOR CAPACITY WILL APPLY TO ENTIRE SYSTEM.

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Approved as complying with the Florida Building Code
Date JULY 19, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1295 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-9100 FAX (305) 262-6978
COMP-ANL\W12-08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL (305) 885-5299 FAX (305) 885-5902

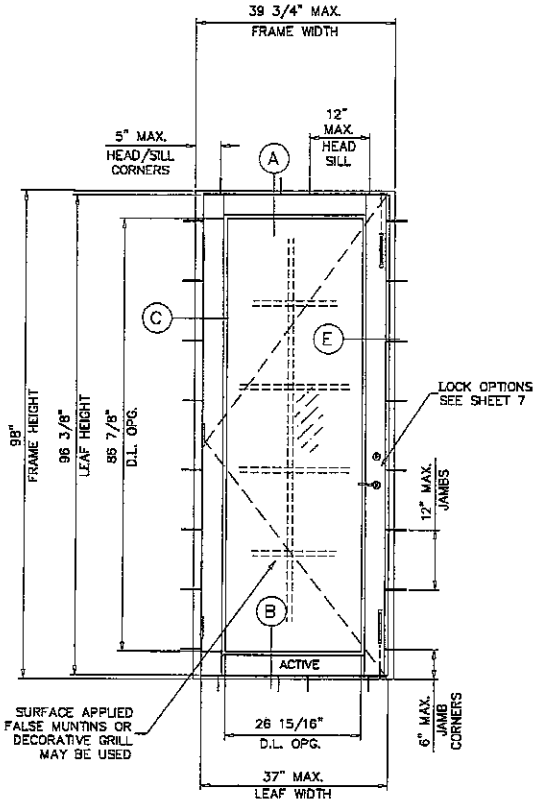
revisions:

no	date	by	description
A	06.28.12		REV. PER FEBA COMMENTS

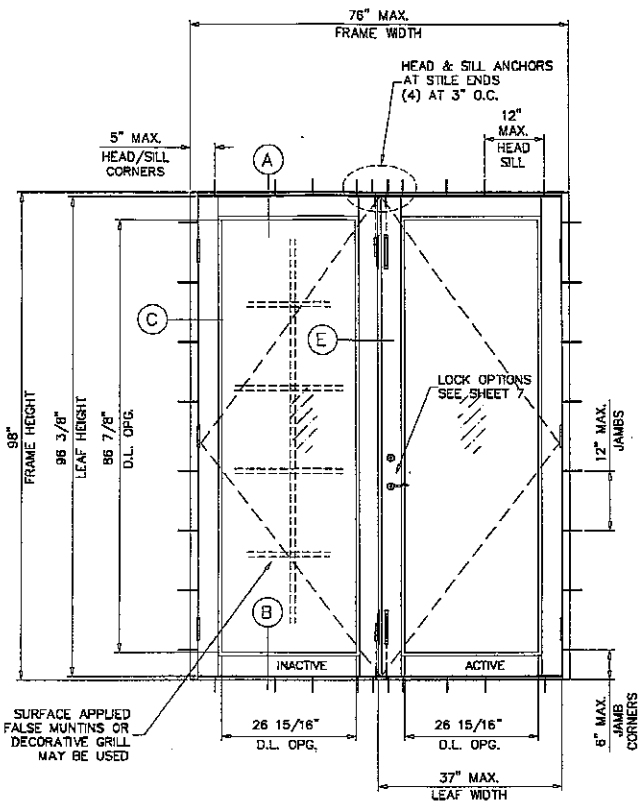
date: 02-13-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-08

sheet 1 of 9



(X)



(XX)

DOORS LOAD CAPACITY – PSF SINGLE DOORS (X)				
DOOR DIMS.			LAMINATED GLASS	
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	EXT.(+)	INT.(–)
39–3/4"	37"	98"	70.0	75.0

DOORS LOAD CAPACITY – PSF DOUBLE (XX)				
DOOR DIMS.			LAMINATED GLASS	
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	EXT.(+)	INT.(–)
76"	37"	98"	70.0	75.0

GLASS D.L.O. DIMS.

D.L.O. HEIGHT = FRAME HEIGHT – 11.125"
D.L.O. WIDTH (X DOORS) = FRAME WIDTH – 12.813"
D.L.O. WIDTH (XX DOORS) = (FRAME WIDTH – 22.125")/2

Approved as complying with the Florida Building Code
Date: JULY 19, 2017
NOA#: 12-0402.09
Miami-Dade Product Control
By: Ishaq I. Chanda

NOTE:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–04 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

Engn JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12316 S.W. 87 AVE
MIAMI, FLORIDA 33176
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W12-08ECO

SERIES 600 ALUM. OUTSWING ENTRANCE DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:

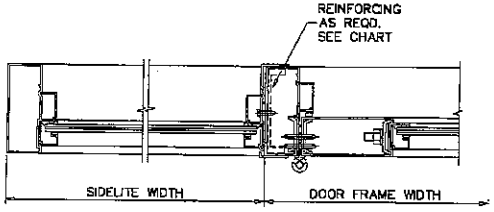
no	date	by	description
A	06.28.12		REV. PER PERA COMMENTS

date: 02-13-12
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W12-08

sheet 2 of 9

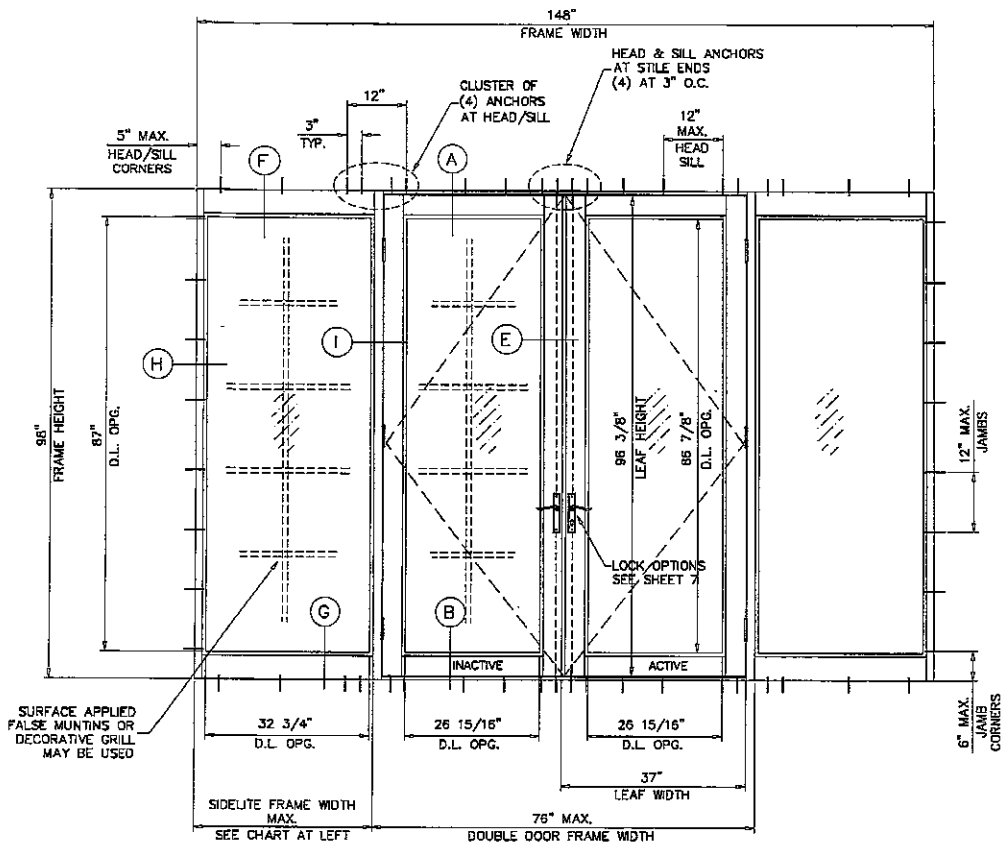
DESIGN LOAD CAPACITY – PSF SIDELITES WITH SINGLE OR DOUBLE LEAF DOORS (SEE NOTE BELOW)					
SIDELITE FRAME WIDTH INCHES	SIDELITE FRAME HEIGHT INCHES	WITHOUT REINFORCING		WITH REINFORCING	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24	82	70.0	75.0	70.0	75.0
30		70.0	75.0	70.0	75.0
36		70.0	75.0	70.0	75.0
37		70.0	75.0	70.0	75.0
42		61.7	66.1	61.7	66.1
24	86	70.0	75.0	70.0	75.0
30		70.0	75.0	70.0	75.0
36		70.0	75.0	70.0	75.0
37		70.0	75.0	70.0	75.0
42		61.7	66.1	61.7	66.1
24	92	70.0	75.0	70.0	75.0
30		69.8	69.8	70.0	75.0
36		64.1	64.1	70.0	75.0
37		63.3	63.3	70.0	75.0
24	98	63.3	63.3	70.0	75.0
30		57.8	57.8	70.0	75.0
36		53.1	53.1	70.0	75.0
37		52.4	52.4	70.0	75.0



NOTE:
FOR DOORS CAPACITIES SEE SHEET 2.
FOR SIDELITE CAPACITIES SEE CHART ABOVE.
LOWER VALUES FROM DOOR OR SIDELITE CHART WILL APPLY TO ENTIRE SYSTEM.

GLASS D.L.O. DIMS.

D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT – 11.000"
D.L.O. WIDTH (SIDELITE) = FRAME WIDTH – 4.438"



(OXXO)

Approved as complying with the Florida Building Code
Date July 19, 2012
NOA# 12-0402.05
Miami Dade Product Control
By

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–04 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

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1235 S.W. 87 AVE
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COMP-ANL\W12-08ECO

SERIES 600 ALUM. OUTSWING ENTRANCE DOOR (I.M.I.)

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9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

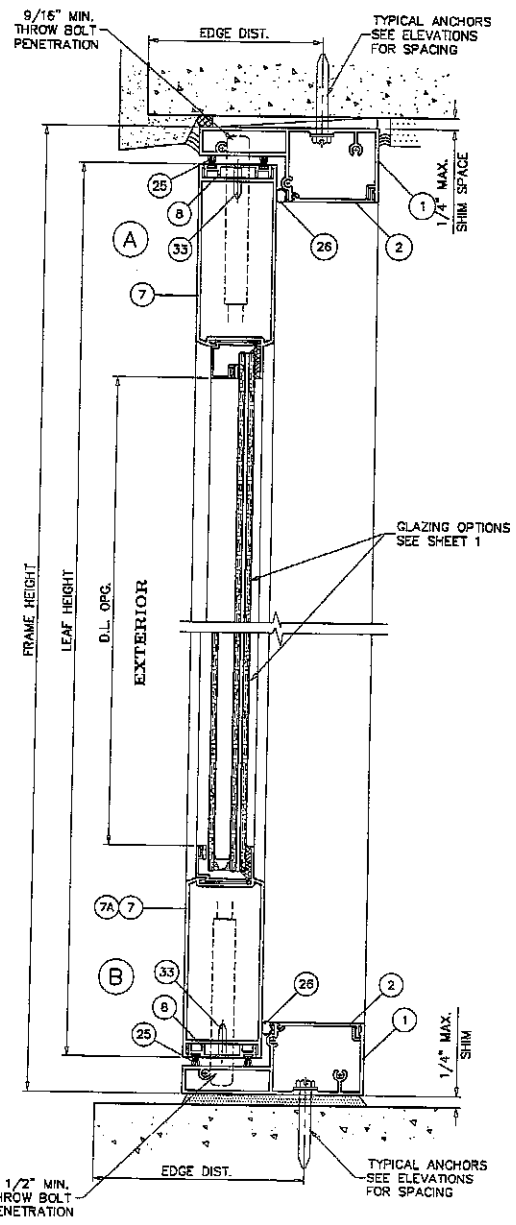
revisions:

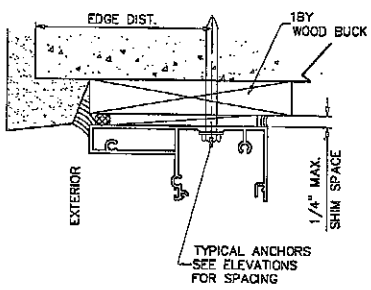
no	date	by	description
A	06.26.12		REV. PER PERA COMMENTS

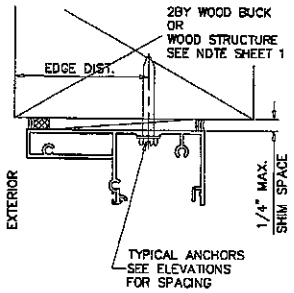
date: 02-13-12
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

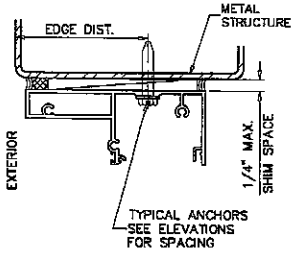
drawing no.
W12-08

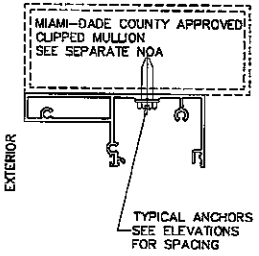
sheet 3 of 9











WOOD BUCKS AND METAL STRUCTURE NOT BY ECO WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

Approved as complying with the Florida Building Code
Date: JULY 19, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By: Greg J. Grande

DOOR DETAILS

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N: 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 97 AVE
MIAMI, FLORIDA 33174
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revisions:

no	date	by	description
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date: 02-13-12
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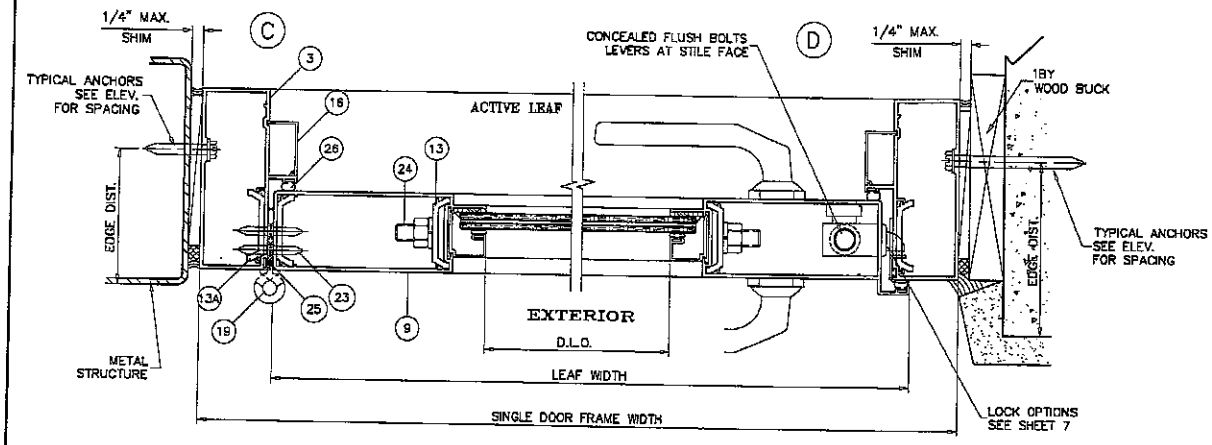
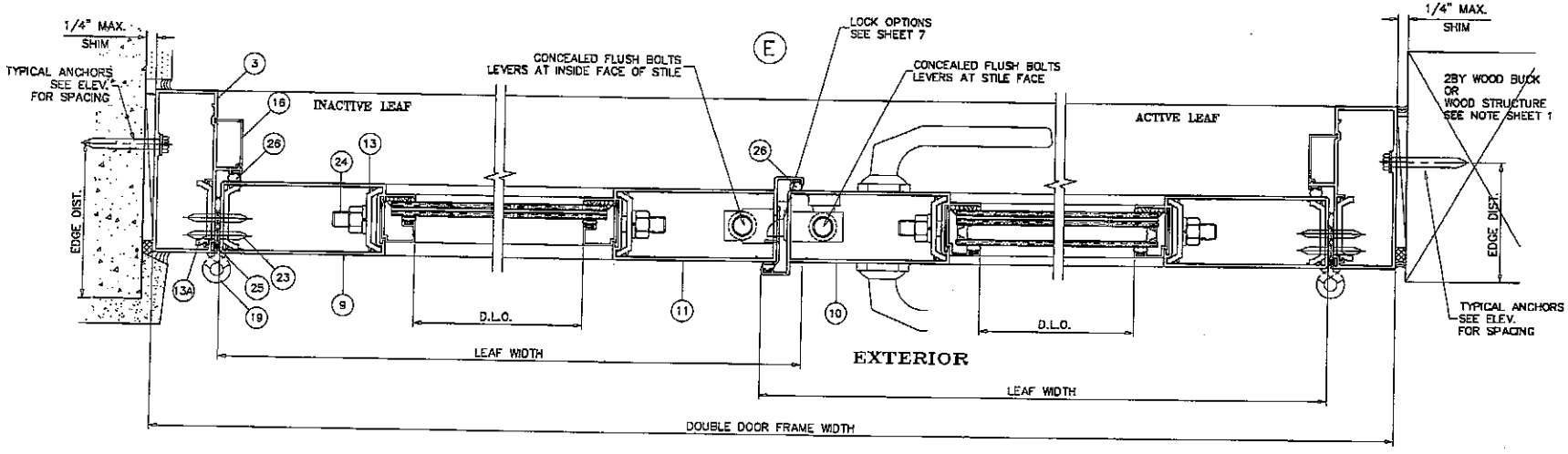
chk. by:

drawing no. W12-08





Approved as complying with the Florida Building Code
Date July 19, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By Ishaq I. Chanda

DOOR DETAILS

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL (305) 885-5299 FAX (305) 885-5902

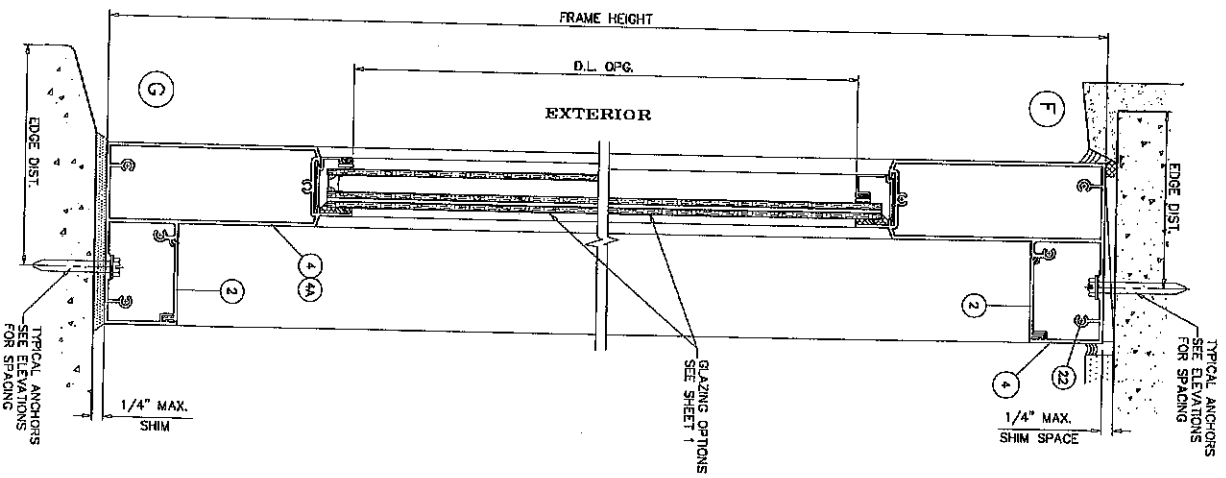
revisions:

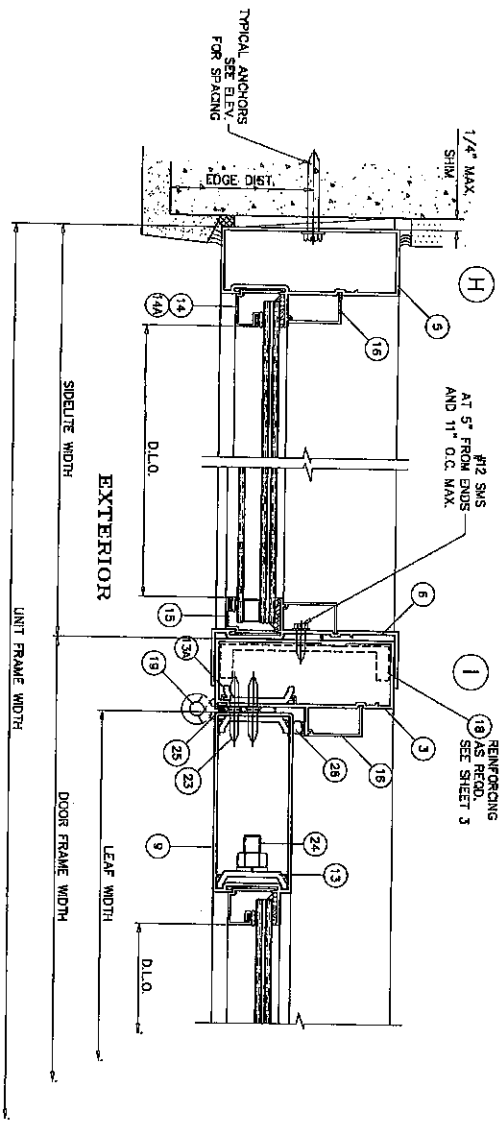
no	date	by	description
A	06.26.12		REV. PER PERA COMMENTS

date: 02-13-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-08

sheet 5 of 9





Approved as complying with the Florida Building Code
Date July 13, 2012
NOA# 12-0703.03
Miami-Dade Product Control
By

SIDELITE DETAILS

Engr: JAWAD AHMAD CIVIL FLA. PE # 70592 C.A.#. 3558

JUN 28 2012

sheet: 6 of 9	drawing no. W12-08	date: 02-13-12	
		scale: 3/8" = 1"	
		dr. by: HAMID	
		chk. by:	

revisions:

no	date	by	description
A	06.26.12		REV. PER PERA COMMENTS

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
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MEDLEY, FL. 33178
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afc

COMP-ANL\W12-08ECO

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E601	–	DOOR FRAME HEAD/SILL	6063–T6	–
2	E602	–	FRAME COVER	6063–T6	–
3	E603	–	DOOR FRAME JAMB	6063–T6	–
4	E604	–	SIDELITE TOP & BOTTOM FRAME	6063–T6	–
4A	E625	–	SIDELITE 9" BOTTOM FRAME	6063–T6	–
5	E605	–	SIDELITE FRAME JAMB	6063–T6	–
6	E606	–	SIDELITE SLIP ON JAMB	6063–T6	–
7	E607	–	LEAF TOP & BOTTOM RAIL	6063–T6	–
7A	E625	–	LEAF 9" BOTTOM RAIL	6063–T6	–
8	E608	–	LEAF W'STRIP ADAPTER	6063–T6	–
9	E609	–	LEAF HINGE STILE	6063–T6	–
10	E610	–	LEAF LOCK STILE	6063–T6	–
11	E611	–	LEAF ASTRAGAL STILE	6063–T6	–
12	E612	–	LEAF ALIGNMENT BRACKET	6063–T6	–
13	E613	–	LEAF CLAMP	6063–T6	4–1/4" LONG
13A	E613	–	HINGE BACK–UP PLATE	6063–T6	12" LONG
14	E614	–	GLAZING BEAD (5/16" LAM. GLASS)	6063–T6	–
14A	E109	–	GLAZING BEAD (7/16" LAM. GLASS)	6063–T6	–
15	E615	–	GLAZING BEAD (INSUL. GLASS)	6063–T6	–
16	E616	–	SNAP COVER	6063–T6	–
17	E617	–	BOLT SUPPORT	6063–T6	NOT SHOWN
18	–	AS REQD.	SIDELITE MULLION REINFORCING	6063–T6	–
19	FD–107	3/ LEAF	BUTT HINGES	ALUMINUM	SULLIVAN & ASSOC.
20	FB1202	–	FLUSH BOLT LEVER	–	SULLIVAN & ASSOC.
21	FBR914SS	–	CONCEALED FLUSH BOLT ROD	ST STEEL	SULLIVAN & ASSOC.
22	#12 SMS	AS REQD.	FRAME ASSEMBLY SCREWS	–	–
23	#12 X 3/4"	–	HINGE INSTALLATION FASTENERS	–	FH SMS
24	–	–	3/8" DIA. THREADED ROD	STEEL	–
25	W11323	–	PILE W'STRIPPING	WOOL	ULTRAFAB
26	E20618–KN–3020	–	BULB W'STRIPPING	SANTOPRENE	EPDM
27	E206	–	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
28	–	–	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
29	E622	–	FLUSH BOLT CUP	NYLON	–
30	DL01RC	–	BLACK BOLT SUPPORT BLOCK	POLYETHYLENE	INTERLOCK
31	DL01WB	–	WHITE BOLT SUPPORT BLOCK	POLYETHYLENE	ACME PLASTIC
33	#10 X 3/4"	2/ ADAPTER	FH SELF DRILLING SCREWS	–	–
34	–	2/ LITE	SETTING BLOCK, 1/4" X 1/2" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5
35	–	2/ LITE	SETTING BLOCK, 1/4" X 3/4" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5

LOCKS:

OPTION #1:

ACTIVE LEAF:

4 POINT LOCK ASSEMBLY DL01–6007 BY 'INTERLOCK USA INC.'
(2) LOCKING POINTS ENGAGING AT INACTIVE LEAF
1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME AT HEAD AND SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK LOCATED AT 42–1/2" FROM BOTTOM

INACTIVE LEAF:

2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.'
1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME AT HEAD AND SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK LOCATED AT 42–1/2" FROM BOTTOM

OPTION #2:

ACTIVE LEAF:

CONVENTIONAL DOOR LOCKSET WITH HANDLE
DELTA 690 BY 'KWIKSET' LOCATED AT 39–1/4" FROM BOTTOM
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR THROW BOLT LOCATED AT 44–3/4" FROM BOTTOM

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'
1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE
LOCATED AT 10–5/8" FROM TOP AND BOTTOM
LOCK FASTENED TO STILE WITH (2) #8–32 X 1/2" FH MS

INACTIVE LEAF:

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'
1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
MANUALLY OPERATED LEVERS MOUNTED ON INSIDE FACE OF LEAF STILE LOCATED AT 10–5/8" FROM TOP AND BOTTOM
LOCK FASTENED TO STILE WITH (2) #8–32 X 1/2" FH MS

NOTE: LOCKS MUST BE ENGAGED DURING PERIODS OF HURRICANE WARNING.

HINGES:

3–1/2" X 7–5/8" X .122" THK. EXTRUDED ALUM HINGE
PART #FD–107 BY SULLIVAN & ASSOC.
3 HINGES PER LEAF
BOTTOM HINGE AT 10–1/4" FROM BOTTOM
TOP HINGE AT 11–3/4" FROM TOP
CENTER HINGE AT MIDSPAN (38" O.C. MAX.)
HINGES FASTENED WITH #10 X 1" FH SMS
(5) SCREWS AT HINGE STILE
(6) SCREWS AT FRAME JAMB

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE MOREHEAD JM5504 SEALANT.

Approved as complying with the Florida Building Code
Date: JULY 19, 2012
FL#: 12-0402.02
Miami-Dade Product Control
By: Isaac J. Chen

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

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1235 S.W. 87 AVE
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COMP-ANL\W12-08ECO

SERIES 600 ALUM. OUTSWING ENTRANCE DOOR (L.M.I.)
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9114 N.W. 106 STREET
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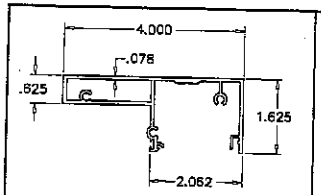
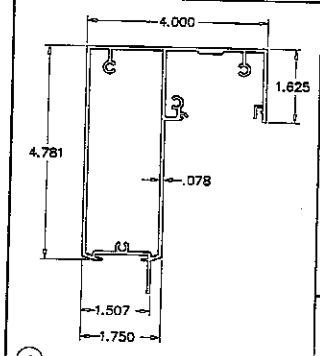
drawing no.
W12–08

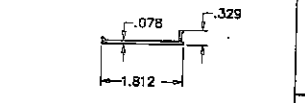
sheet 7 of 9



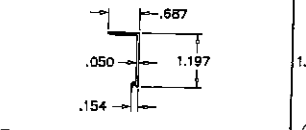
1 DOOR FRAME HEAD/SILL



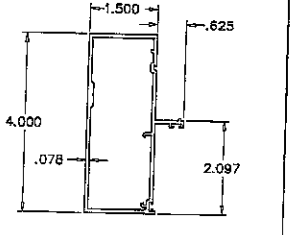
4 SIDELITE TOP & BOTTOM FRAME



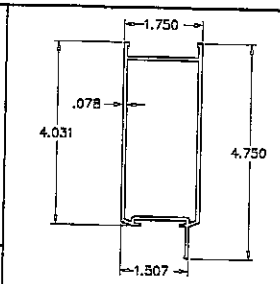
2 FRAME COVER



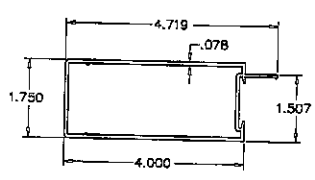
16 SNAP COVER



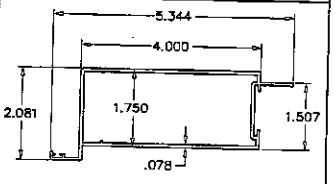
3 DOOR FRAME JAMB



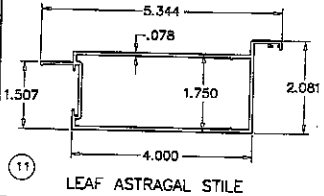
7 LEAF TOP/BOTTOM RAIL



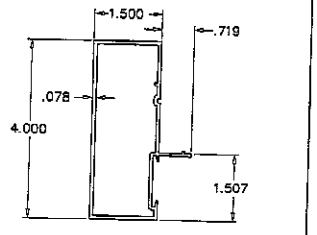
9 LEAF HINGE STILE



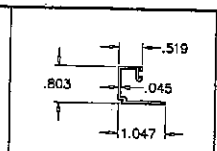
10 LEAF LOCK STILE



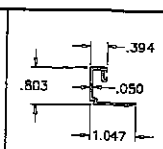
11 LEAF ASTRAGAL STILE



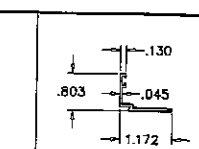
5 SIDELITE FRAME JAMB



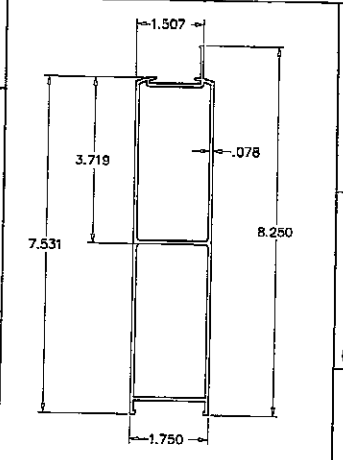
14 GLAZING BEAD 5/16" GLASS



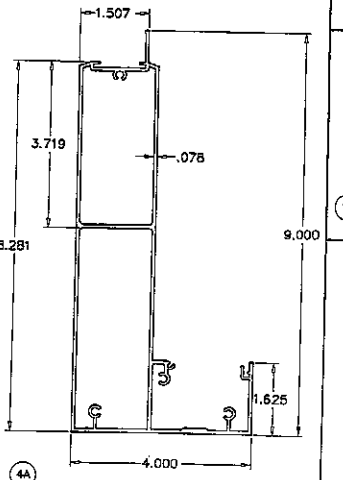
14A GLAZING BEAD 7/16" GLASS



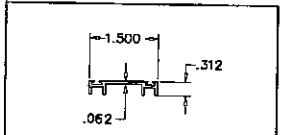
15 GLAZING BEAD INSUL GLASS



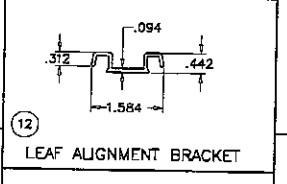
7A 9" BOTTOM RAIL



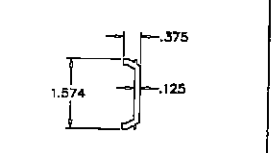
4A SIDELITE 9" BOTTOM FRAME



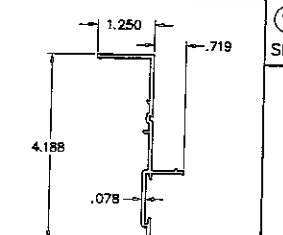
8 LEAF W'STRIP ADAPTER



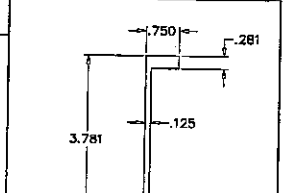
12 LEAF ALIGNMENT BRACKET



13 LEAF CLAMP HINGE BACK-UP PLATE



6 SIDELITE SLIP ON JAMB



18 SIDELITE MULLION REINFORCING

Approved as complying with the Florida Building Code
Date July 15, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12315 S.W. 87 AVE
MIAMI, FLORIDA 33176
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COMP-ANL\W12-08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:			
no	date	by	description
A	05.25.12		NO CHANGE THIS SHEET

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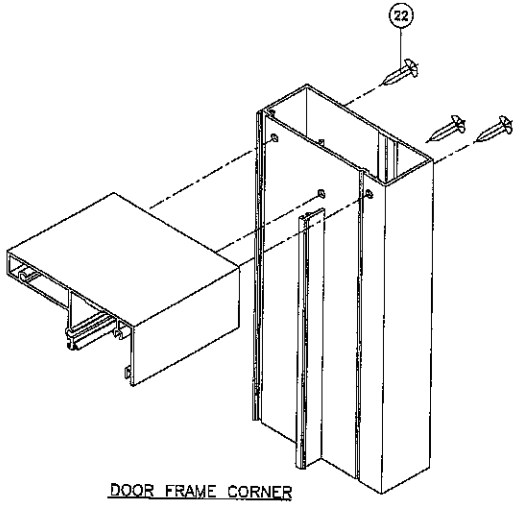
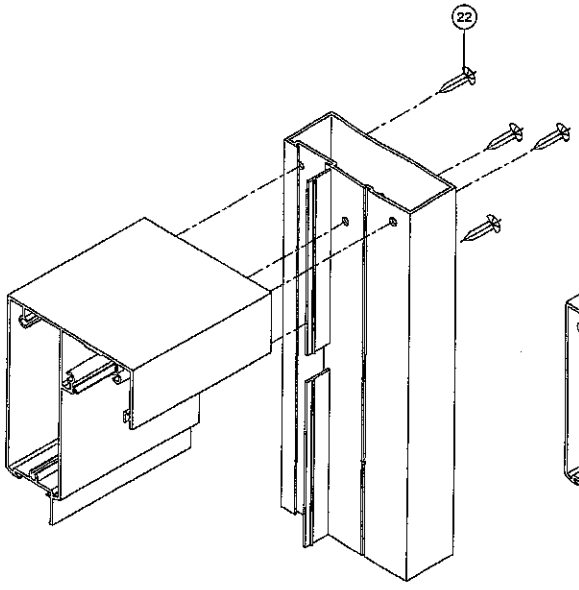
chk. by:

drawing no.
W12-08

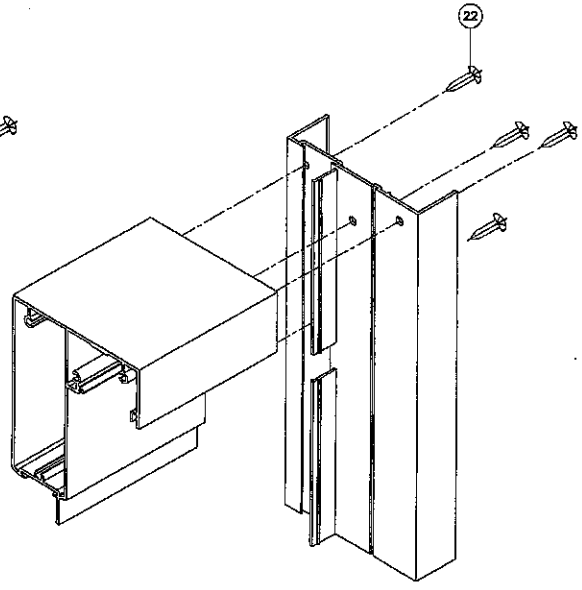
sheet 8 of 9



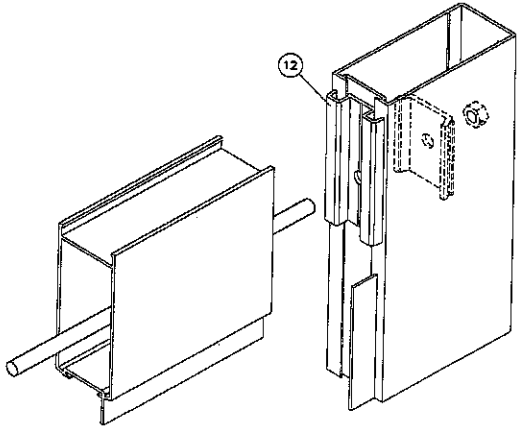
DOOR FRAME CORNER



SIDELITE FRAME CORNER



SIDELITE SLIP ON JAMB CORNER



LEAF CORNER

Approved as complying with the Florida Building Code
Date July 19, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By Ishaq I. Ahmad

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70562
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1236 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8500 FAX. (305) 262-8978
COMP-ANL\W12-08ECO

SERIES 600 ALUM CUTSWING ENTRANCE DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX. (305) 885-5902

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no	date	by	description
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date: 02-13-12
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chk. by:

drawing no.
W12-08

sheet 9 of 9

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Behar Windows, LLC
4006 N. 30th Avenue
Hollywood, FL 33020

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "NOAH 3000" Aluminum Window Wall System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **BW-3000F**, titled "Series NOAH 3000 Fixed Window/Window Wall System (LMI)" sheets 1 thru 5, 6, 6A, and 7 thru 11 of 11, dated 04/18/11, with revision #4 dated 10/22/13, prepared by Stanton Engineering, Inc. signed and sealed by Christopher Stanton, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises **NOA# 12-0523.14** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

APPROVED
OCT 28 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

MIAMI-DADE COUNTY APPROVED

11/22/13

NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

Behar Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **BW-3000F**, titled "Series NOAH 3000 Fixed Window/Window Wall System (L.M.I.)" Sheets 1 thru 5, 6, 6A, and 7 thru 11 of 11, dated 04/18/11, with revision #4 dated 10/22/13, prepared by Stanton Engineering, Inc., signed and sealed by Christopher Stanton, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-0827.01-12**, dated 02/13/13, signed and sealed by Henry Hattem, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-1213.01-10**, dated 02/01/11, signed and sealed by Julio E. Gonzalez, P.E. ***(Submitted under NOA# 11-0427.01)***
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-0908.01-10,** dated 10/06/10, signed and sealed by Julio E. Gonzalez, P.E. ***(Submitted under NOA# 11-0427.01)***

Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

Behar Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Stanton Engineering, Inc., dated 01/28/11, revised on 07/14/11, and revised for compliance of FBC 2010 on 05/21/12, signed and sealed by Christopher Stanton, P.E.
   (Submitted under NOA# 11-0427.01)
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co.**, Inc. for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their **"DuPont Butacite® PVB Interlayer"** dated 04/11/13, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 2010**, dated June 10, 2013, signed and sealed by Christopher Stanton, P.E.
2. Statement letter of no financial interest, dated June 10, 2013, signed and sealed by Christopher Stanton, P.E.
3. Laboratory compliance letter for Test Report No. **ATLSF-0827.01-12**, issued by American Test Lab of South Florida, dated 02/13/13, signed and sealed by Henry Hattem, P.E.
3. Laboratory compliance letter for Test Report No. **ATLSF-1213.01-10**, issued by American Test Lab of South Florida, dated 02/01/11, signed and sealed by Julio E. Gonzalez, P.E.
   (Submitted under NOA# 11-0427.01)
4. Laboratory compliance letter for Test Report No. **ATLSF-0908.01-10**, issued by American Test Lab of South Florida, dated 10/06/10, signed and sealed by Julio E. Gonzalez, P.E.
   (Submitted under NOA# 11-0427.01)

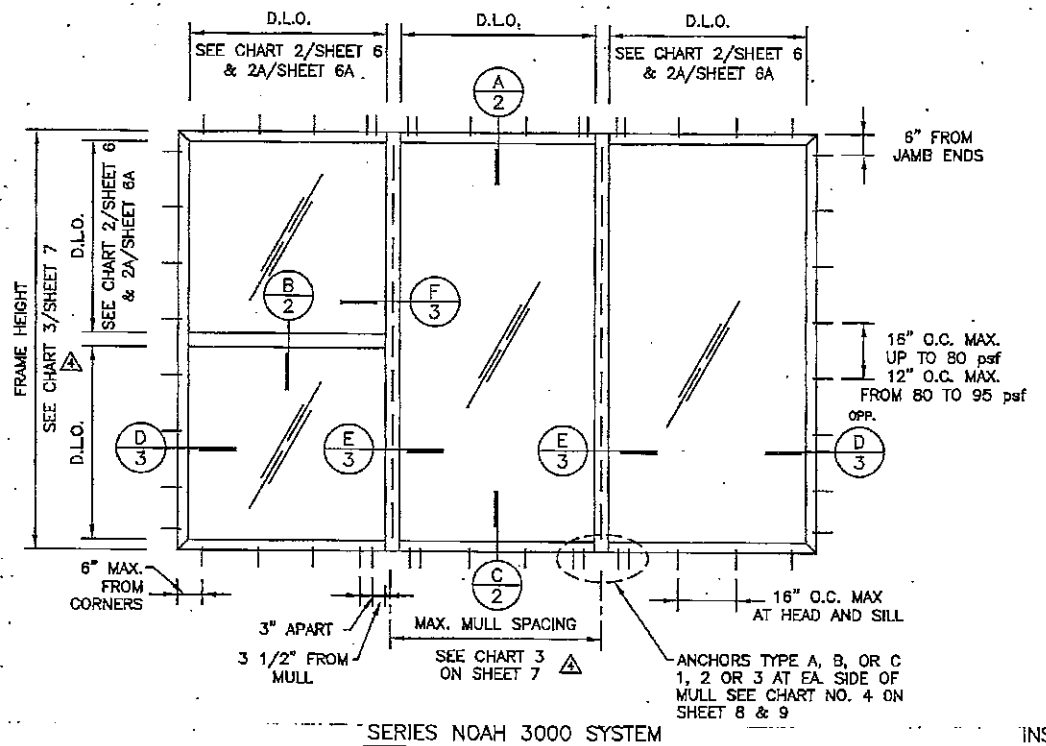
G. OTHER

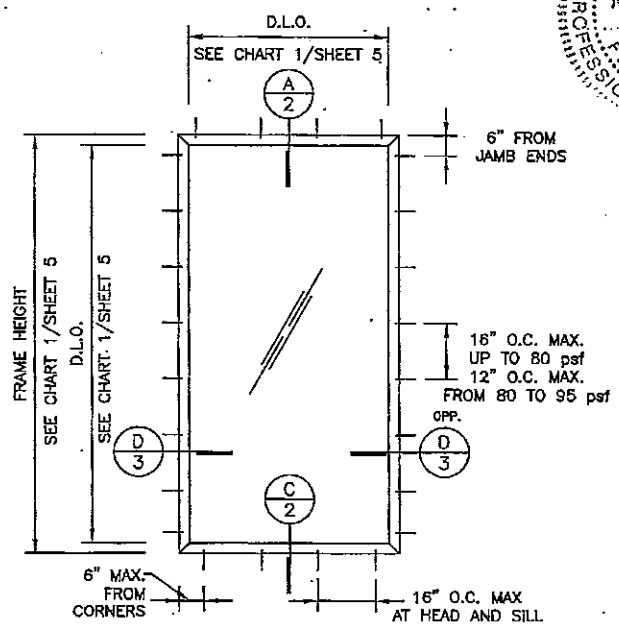
1. Notice of Acceptance No. **12-0523.14**, issued to Behar Windows, LLC for their Series "NOAH 3000" Aluminum Window Wall System – L.M.I., approved on 07/19/12 and expiring on 08/11/16.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

BEHAR WINDOW SERIES NOAH 3000 WINDOW WALL

TYPICAL ELEVATIONS





SERIES NOAH 3000 SYSTEM

THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 EDITION, INCLUDING HIGH VELOCITY HURRICANE ZONE.

WOOD BUCKS, BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED AND SHOWN ON THE DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A 33% INCREASE IN ALLOWABLE STRESS IS NOT USED IN THE DESIGN OF THIS SYSTEM.

ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2: SEE CHART NO. 1 ON SHEET 5 AND CHART NO. 2 ON SHEET 6 AND CHART 2A ON SHEET 6A FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON FRAME CONFIGURATION AND APPLICABLE WIND DURATION. THE CAPACITY SHOULD EXCEED THE REQUIRED DESIGN LOAD.

STEP 3: CHECK MULLION CAPACITY FOR GIVEN SPACING AND HEIGHT USING CHART NO. 3 ON SHEET 7. ⚠4 THE CAPACITY SHOULD EXCEED THE REQUIRED DESIGN LOAD.

STEP 4: USING CHART NO. 4 ON SHEET 8 & 9, SELECT ANCHOR OPTION WITH DESIGN RATING THAT EXCEEDS THE REQUIRED DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

NO.	DATE		REVISIONS
⚠1	12-22-11		REVISED ANCHOR GROUPS
⚠2	5-21-12		REVISED CODE EDITION
⚠3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
⚠4	10-22-13		REVISED PER COUNTY REVIEW
⚠5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
is complying with the Florida Building Code
Acceptance No. 12-0724.06
Expiration Date Aug 11, 2016
By Manuel Perez
Miami Dade Product Control

CHRISTOPHER STANTON * LICENSE * No. 69316 * STATE OF FLORIDA * PROFESSIONAL ENGINEER *
Seal
NOV 14 2013
CHRISTOPHER STANTON, P.E. FLA P.E. #69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1009

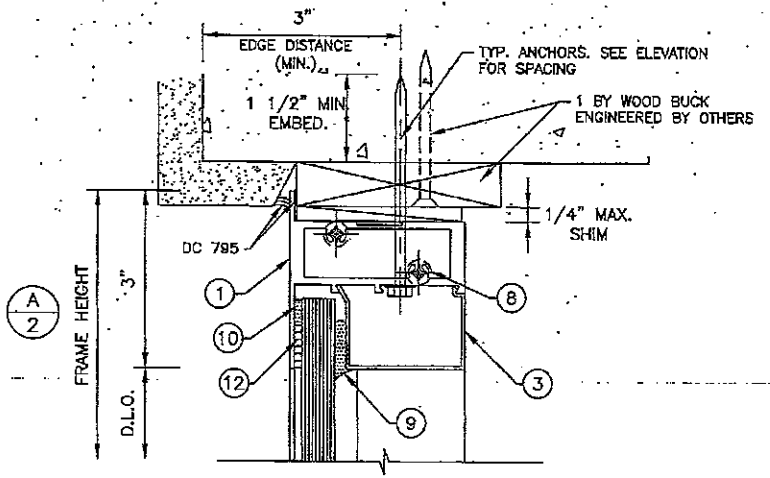
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

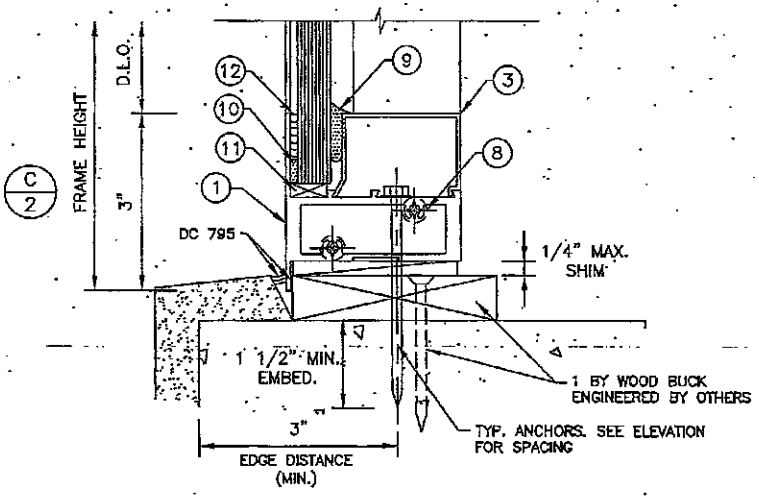
Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

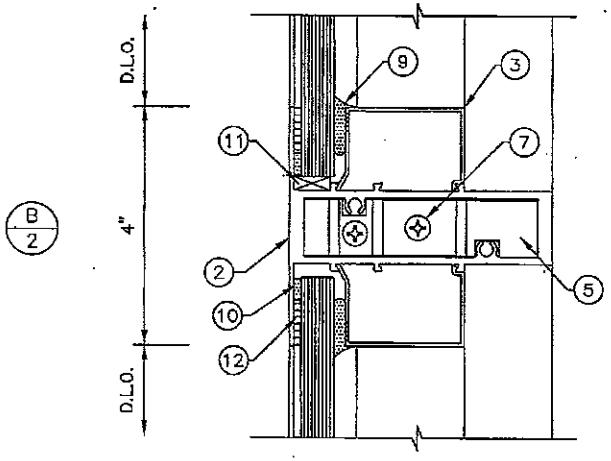
SCALE:	NOTED
DATE:	4/5/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

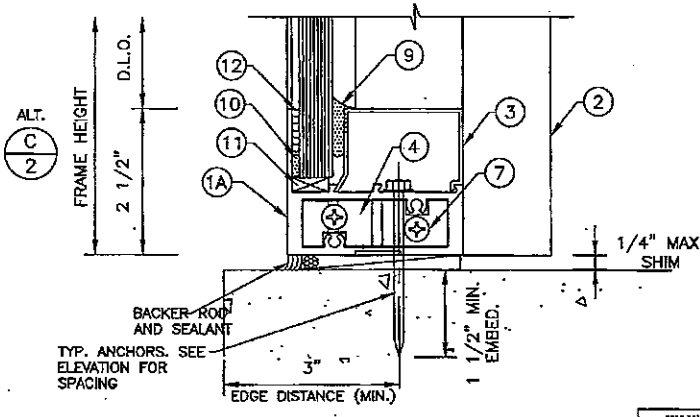
BW-3000 F
DRAWING NO.

SHEET NO.
1 of 11









ALTERNATE INSTALLATION

WITH FLANGE REMOVED
(HEAD, SILL AND JAMB)

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date Dec. 11, 2016
By Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON * LICENSE * No. 59316 * STATE OF FLORIDA * PROFESSIONAL ENGINEER *
NOV 1 2013
CHRISTOPHER STANTON, P.E.
FLA P.E. #59316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

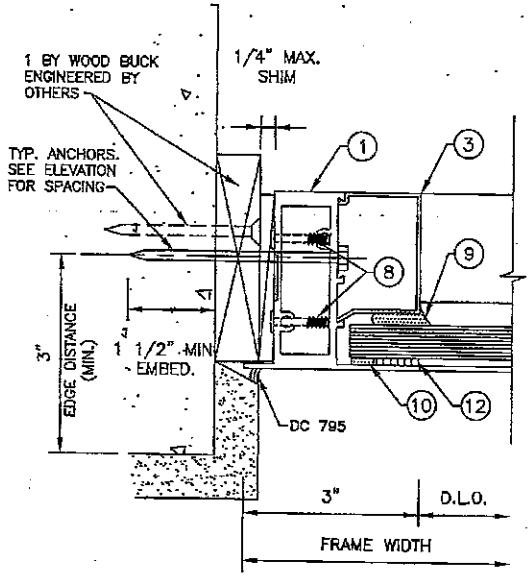
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

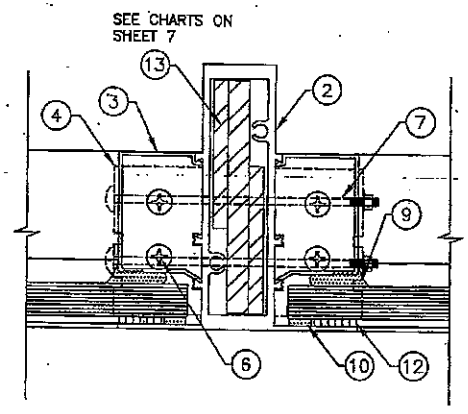
SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DCI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

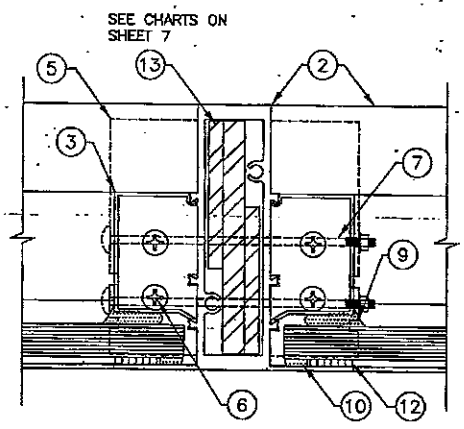
SHEET NO.
2 of 11



D/3



E/3



F/3

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	8-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13072410
Expiration Date 12-11-2016
By Manuel Perez
Miami Dade Product Control

CHRISTOPHER STANTON
LICENSE
No. 69316
NOV 11 2013
STATE OF FLORIDA
PROFESSIONAL ENGINEER
CHRISTOPHER STANTON, P.E.
NOT VALID WITHOUT THE RAISED SEAL

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

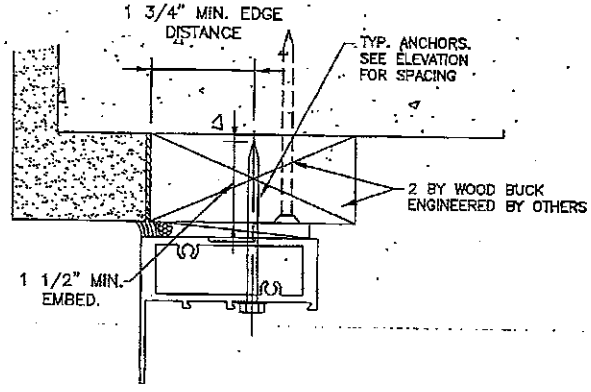
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

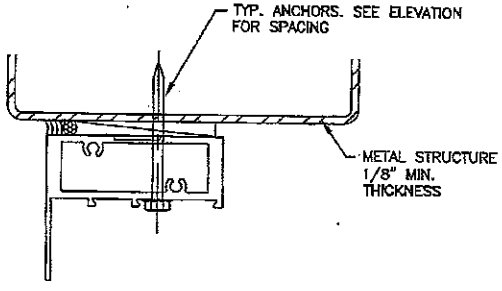
SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

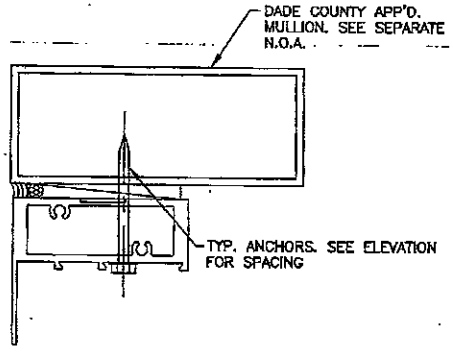
SHEET NO.
3 of 11



ANCHOR TYPE – C



ANCHOR TYPE – B



ANCHOR TYPE – B

WOOD BUCKS NOT BY BEHAR WINDOWS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS:

SEE ELEVATIONS FOR SPACING

TYPE "A"–1/4" ULTRACONS BY ELCO

THRU 1BY WOOD OR 2BY WOOD BUCKS INTO 3000 PSI MIN. CONC. OR C–90 GROUT FILLED BLOCK. 1 1/2" MIN. EMBED. INTO CONC. OR MASONRY

DIRECTLY INTO 3000 PSI MIN. CONCRETE 1 1/2" MIN. EMBED. INTO CONC.

TYPE "B"–#14 SMS OR 1/4" SELF DRILLING SCREWS

INTO METAL STRUCTURES (STEEL OR ALUM. 1/8" MIN. THICK.)

STEEL: Fy – 36 KSI MIN.
ALUMINUM: 6063–T5 MIN.
(STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED)

TYPE "C"–1/4" ULTRACONS BY ELCO

INTO 2BY WOOD BUCKS OR WOOD SUBSTRAIGHTS 1 1/2" MIN. PENETRATION INTO #2 SYP

TYPICAL EDGE DISTANCE

INTO CONC. OR MASONRY = 3" MIN.
INTO WOOD STRUCTURE = 1 3/4" MIN.
INTO METAL STRUCTURE = 3/8" MIN.

4 MINIMUM ANCHOR SPACING

ANCHOR TYPE "A" = 3" MIN.
ANCHOR TYPE "B" = 1" MIN.
ANCHOR TYPE "C" = 2 1/2" MIN.

NO.	DATE	REVISIONS
1	12-22-11	REVISED ANCHOR GROUPS
2	6-21-12	REVISED CODE EDITION
3	6-6-13	ADDED GLASS B & C / UNREINF. MULL
4	10-22-13	REVISED PER COUNTY REVIEW
5		

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date Aug. 11, 2016
By Miami-Dade Product Control

CHRISTOPHER STANTON No. 59316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 1 1 2013
CHRISTOPHER STANTON, P.E. FLA R.E. #59316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4008 N. 30th Ave.
Hollywood, FL 33020
954-381-5580

SCALE: NOTED
DATE: 4/15/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
4 of 11

CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS
PSF

NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (–)	EXT. (+) INT. (–)
26 1/2"	26"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	38 3/8"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	50 5/8"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	63"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	76"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0

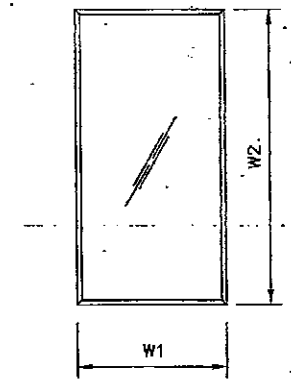
CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS
PSF

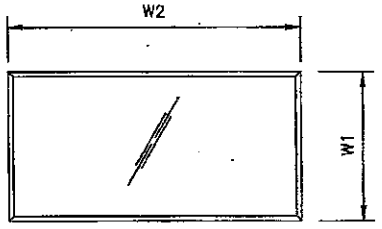
NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	48"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	80.0
24"	60"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	80.0
24"	72"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	–
24"	84"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	–
60"		100.0	–

CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS
PSF

NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	96"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	–
54"		100.0	–
60"		100.0	–
24"	108"	100.0	–
30"		100.0	–
36"		100.0	–
42"		100.0	–
48"		100.0	–
54"		100.0	–
60"		100.0	–
24"	120"	100.0	–
30"		100.0	–
36"		100.0	–
42"		100.0	–
48"		100.0	–
54"		100.0	–
60"		100.0	–

TYPICAL ELEVATION





NOTE:

W1 = SHORT SIDE
W2 = LONG SIDE
WINDOW MAY BE INSTALLED VERTICALLY OR HORIZONTALLY

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)–5"] X [(W2)–5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)–4 1/2"] X [(W2)–4 1/2"]

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			
6			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date Aug. 14 2016
By Manuel Perez
Miami Dade Product Control

CHRISTOPHER STANTON LICENSE No 69316 STATE OF PROFESSIONAL ENGINEER
NOV 21 2013
CHRISTOPHER STANTON, P.E. FLA P.E. 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5660

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DCI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
5 of 11

CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	87"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0
36"	90"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0

CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	93"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0
36"	99"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
36"	102"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
65"		100.0

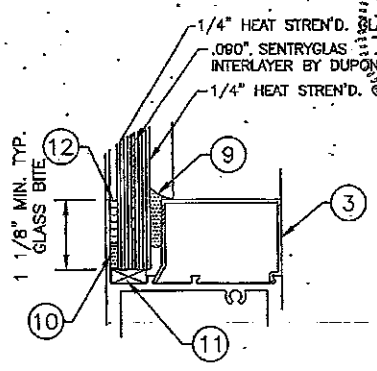
CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

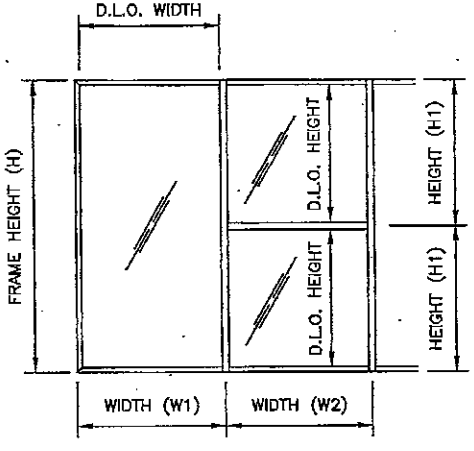
NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	105"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
36"	108"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
62"		100.0
36"	111"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0

CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	114"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
58"		100.0
36"	117"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
36"	120"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
55"		100.0

GLASS TYPE "A"





NOTE:
4 GLASS CHECKED PER ASTM E1300–04 AND TESTING.

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			
6			

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)–5"] OR [(W2)–4"] X [(H)–6"] OR [(H1)–5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)–4 1/2"] OR [(W2)–4"] X [(H)–5"] OR [(H1)–4 1/2"]

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date Aug. 1, 2016
By Miami-Dade Product Control

CHRISTOPHER T. STANTON P.E. No. 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
SEALED
NOV 1x1 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL. 33431
TEL. (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (C.M.I.)

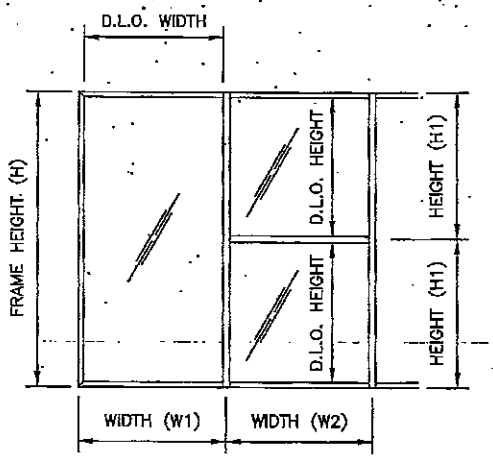
Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5660

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DSI
CHECKED BY: C.S.

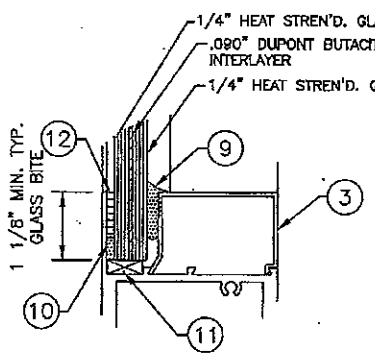
BW-3000 F
DRAWING NO.

SHEET NO.
6 of 11

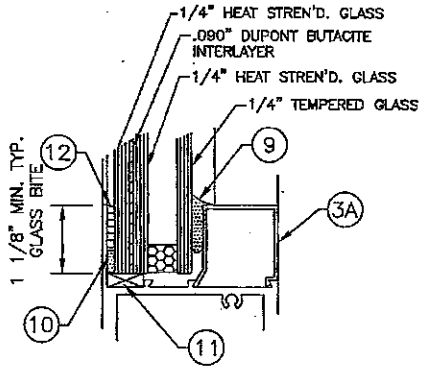
CHART NO. 2A GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF		
NOMINAL DIMS.		GLASS TYPE "B" & "C"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	60"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
51"		80.0
54"		80.0
57"		80.0
60"		80.0
63"		80.0
66"		80.0
69"		80.0
72"		80.0
36"	72"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
51"		80.0
54"		80.0
36"	84"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
36"	92"	80.0
39"		80.0
42"		80.0
44"		80.0



GLASS TYPE "B"



GLASS TYPE "C"



NOTE:

4 GLASS CHECKED PER ASTM E1300–04 AND TESTING.

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			
6			

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)–5"] OR [(W2)–4"] X [(H)–6"] OR [(H1)–5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)–4 1/2"] OR [(W2)–4"] X [(H)–5"] OR [(H1)–4 1/2"]

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 13-0704.10
Expiration Date Dec. 1, 2016
By Manuel Perez
Miami Dade Product Control

CHRISTOPHER STANTON LICENSE No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER NOV 27 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431 (561) 393-1003
TELE (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4008 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

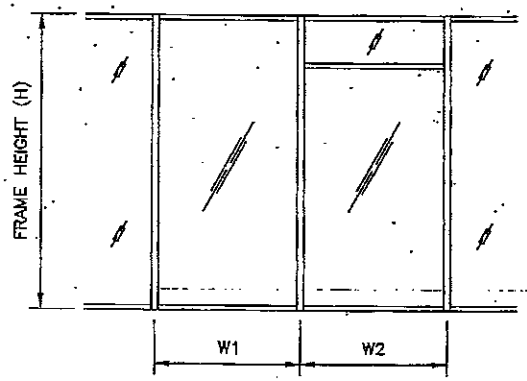
BW-3000 F
DRAWING NO.

SHEET NO.
6Aof 11

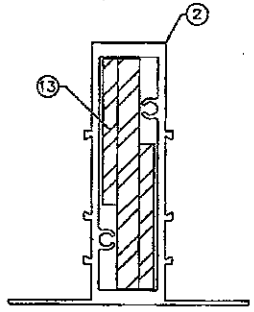
CHART NO. 3 REINFORCED MULLION LOAD CAPACITY PSF		
NOMINAL DIMS.		N3002 W/ STEEL
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)
24"	78"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	84"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	96"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0

CHART NO. 3 REINFORCED MULLION LOAD CAPACITY PSF		
NOMINAL DIMS.		N3002 W/ STEEL
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)
24"	102"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	108"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		93.9
24"	114"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		92.7
24"	120"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		93.0
60"		83.7

TYPICAL ELEVATION



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



INTERMEDIATE VERTICAL MULLION

N3002 WITH STD. STEEL REINFORCING

	I= X in^4	S= X in^3
ALUMINUM	5.300	2.100
STEEL	3.400	1.700
TOTAL *	15.160	

* Ix ALUM. + Ix STL. X 2.9

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

CHRISTOPHER STANTON LICENSE SEAL No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 11 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003, FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
7 of 11

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Aug. 11, 2016
By Miami-Dade Product Control

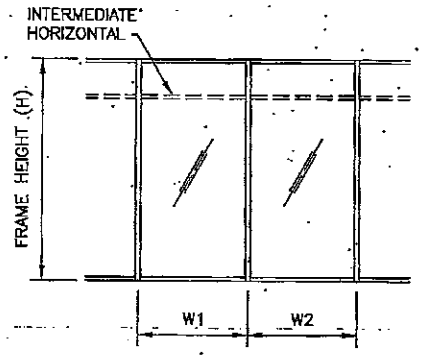
4

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

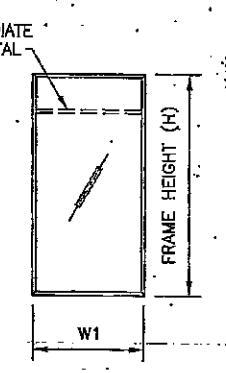
NOMINAL DIMS.		ANCHOR TYPE		
		"A1"	"A2"	"A3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	95.0	95.0	95.0
30"		91.0	95.0	95.0
36"		76.0	95.0	95.0
42"		65.0	95.0	95.0
48"		57.0	95.0	95.0
54"		51.0	95.0	95.0
60"		46.0	91.0	95.0
66"		42.0	83.0	95.0
72"		38.0	76.0	95.0
24"	84"	95.0	95.0	95.0
30"		85.0	95.0	95.0
36"		71.0	95.0	95.0
42"		61.0	95.0	95.0
48"		53.0	95.0	95.0
54"		47.0	94.0	95.0
60"		42.0	85.0	95.0
66"		39.0	77.0	95.0
72"		35.0	71.0	95.0
24"	96"	93.0	95.0	95.0
30"		74.0	95.0	95.0
36"		62.0	95.0	95.0
42"		53.0	95.0	95.0
48"		46.0	93.0	95.0
54"		41.0	82.0	95.0
60"		37.0	74.0	95.0
66"		34.0	67.0	95.0
72"		31.0	62.0	93.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"A1"	"A2"	"A3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	82.0	95.0	95.0
30"		66.0	95.0	95.0
36"		55.0	95.0	95.0
42"		47.0	94.0	95.0
48"		41.0	82.0	95.0
54"		37.0	73.0	95.0
60"		33.0	66.0	95.0
66"		30.0	60.0	90.0
72"		27.0	55.0	82.0
24"	114"	78.0	95.0	95.0
30"		62.0	95.0	95.0
36"		52.0	95.0	95.0
42"		45.0	89.0	95.0
48"		39.0	78.0	95.0
54"		35.0	69.0	95.0
60"		31.0	62.0	94.0
66"		28.0	57.0	85.0
72"		28.0	52.0	78.0
24"	120"	74.0	95.0	95.0
30"		59.0	95.0	95.0
36"		49.0	95.0	95.0
42"		42.0	85.0	95.0
48"		37.0	74.0	95.0
54"		33.0	66.0	95.0
60"		30.0	59.0	89.0
66"		27.0	54.0	81.0
72"		25.0	49.0	74.0



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



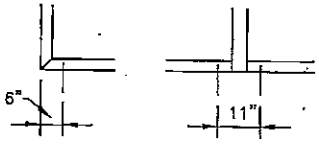
WIDTH (W) = W1 (JAMB)

ANCHOR TYPES: SEE SHEET 4 FOR DESCRIPTION

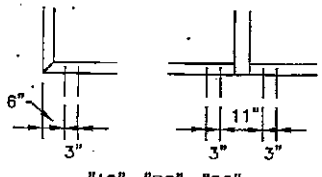
"A1" – (1) ANCHOR TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"A2" – (2) ANCHORS TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"A3" – (3) ANCHORS TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"B1" – (1) ANCHOR TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"B2" – (2) ANCHORS TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"B3" – (3) ANCHORS TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"C1" – (1) ANCHOR TYPE "C" AT EA. SIDE OF MULLION OR JAMB
"C2" – (2) ANCHORS TYPE "C" AT EA. SIDE OF MULLION OR JAMB
"C3" – (3) ANCHORS TYPE "C" AT EA. SIDE OF MULLION OR JAMB

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION

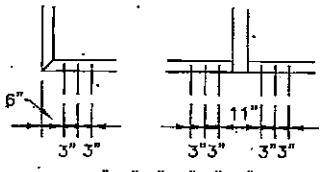
TYPICAL ANCHOR CLUSTERS



"A1", "B1", "C1"



"A2", "B2", "C2"



"A3", "B3", "C3"

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Aug. 1, 2016
By Manuel Sosa
Miami-Dade Product Control

CHRISTOPHER STANTON LICENSE No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 1 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
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SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5660

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
8 of 11

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"B1"	"B2"	"B3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	95.0	95.0	95.0
30"		95.0	95.0	95.0
36"		81.0	95.0	95.0
42"		69.0	95.0	95.0
48"		61.0	95.0	95.0
54"		54.0	95.0	95.0
60"		49.0	95.0	95.0
66"		44.0	88.0	95.0
72"		41.0	81.0	95.0
24"	84"	95.0	95.0	95.0
30"		90.0	95.0	95.0
36"		75.0	95.0	95.0
42"		64.0	95.0	95.0
48"		56.0	95.0	95.0
54"		50.0	95.0	95.0
60"		45.0	90.0	95.0
66"		41.0	82.0	95.0
72"		38.0	75.0	95.0
24"	96"	95.0	95.0	95.0
30"		79.0	95.0	95.0
36"		66.0	95.0	95.0
42"		56.0	95.0	95.0
48"		49.0	95.0	95.0
54"		44.0	88.0	95.0
60"		40.0	79.0	95.0
66"		36.0	72.0	95.0
72"		33.0	66.0	95.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"B1"	"B2"	"B3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	88.0	95.0	95.0
30"		70.0	95.0	95.0
36"		59.0	95.0	95.0
42"		50.0	95.0	95.0
48"		44.0	88.0	95.0
54"		39.0	78.0	95.0
60"		35.0	70.0	95.0
66"		32.0	64.0	95.0
72"		29.0	58.0	88.0
24"	114"	83.0	95.0	95.0
30"		67.0	95.0	95.0
36"		55.0	95.0	95.0
42"		48.0	95.0	95.0
48"		42.0	83.0	95.0
54"		37.0	74.0	95.0
60"		33.0	67.0	95.0
66"		30.0	60.0	91.0
72"		28.0	55.0	83.0
24"	120"	79.0	95.0	95.0
30"		63.0	95.0	95.0
36"		53.0	95.0	95.0
42"		45.0	90.0	95.0
48"		40.0	79.0	95.0
54"		35.0	70.0	95.0
60"		32.0	63.0	95.0
66"		29.0	57.0	86.0
72"		26.0	53.0	78.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"C1"	"C2"	"C3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	95.0	95.0	95.0
30"		95.0	95.0	95.0
36"		83.0	95.0	95.0
42"		71.0	95.0	95.0
48"		62.0	95.0	95.0
54"		55.0	95.0	95.0
60"		50.0	95.0	95.0
66"		45.0	90.0	95.0
72"		41.0	83.0	95.0
24"	84"	95.0	95.0	95.0
30"		92.0	95.0	95.0
36"		77.0	95.0	95.0
42"		66.0	95.0	95.0
48"		58.0	95.0	95.0
54"		51.0	95.0	95.0
60"		46.0	92.0	95.0
66"		42.0	84.0	95.0
72"		38.0	77.0	95.0
24"	96"	95.0	95.0	95.0
30"		81.0	95.0	95.0
36"		67.0	95.0	95.0
42"		58.0	95.0	95.0
48"		51.0	95.0	95.0
54"		45.0	90.0	95.0
60"		40.0	81.0	95.0
66"		37.0	73.0	95.0
72"		34.0	67.0	95.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"C1"	"C2"	"C3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	90.0	95.0	95.0
30"		72.0	95.0	95.0
36"		60.0	95.0	95.0
42"		51.0	95.0	95.0
48"		45.0	90.0	95.0
54"		40.0	80.0	95.0
60"		36.0	72.0	95.0
66"		33.0	65.0	95.0
72"		30.0	60.0	90.0
24"	114"	85.0	95.0	95.0
30"		68.0	95.0	95.0
36"		57.0	95.0	95.0
42"		49.0	95.0	95.0
48"		43.0	85.0	95.0
54"		38.0	76.0	95.0
60"		34.0	68.0	95.0
66"		31.0	62.0	93.0
72"		28.0	57.0	85.0
24"	120"	81.0	95.0	95.0
30"		65.0	95.0	95.0
36"		54.0	95.0	95.0
42"		46.0	92.0	95.0
48"		40.0	81.0	95.0
54"		36.0	72.0	95.0
60"		32.0	65.0	95.0
66"		29.0	59.0	88.0
72"		27.0	54.0	81.0

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Aug. 11, 2016
By Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON
LICENSE
No 69316
STATE OF FLORIDA
NOV 14 2013
CHRISTOPHER STANTON
FLA P.E. # 69316
STATE OF FLORIDA

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX (561) 393-1008

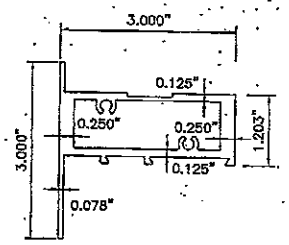
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4008 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5660

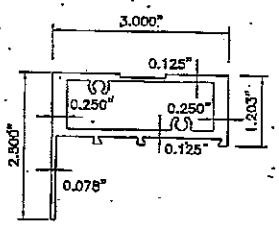
SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

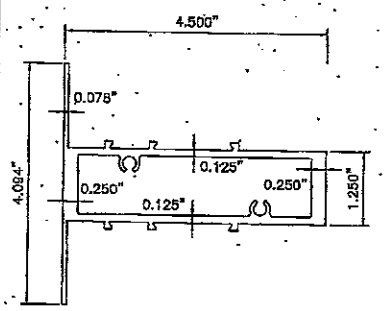
SHEET NO.
9 of 11



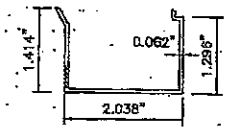
① N3001 – HEAD/SILL/JAMB



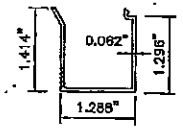
①A N3001 (ALT.) – HEAD/SILL/JAMB



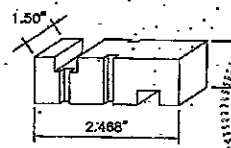
② N3002 – MULLION/INT. HORIZONTAL



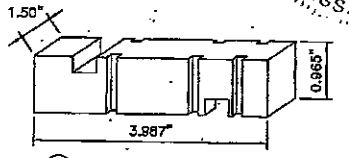
③ N3003 – GLASS STOP MONOLITHIC



③A N3004 – GLASS STOP INSULATED

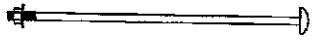


④ B1 – SHEAR BLOCK



⑤ B2 – SHEAR BLOCK

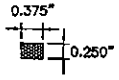
⑥ SHEAR BLOCK FASTENER



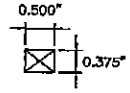
⑦ MULL SHEAR BLOCK ANCHOR

⑧ ASSEMBLY SCREW

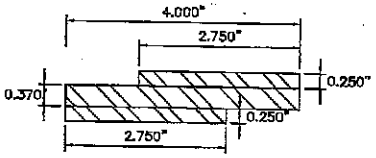
⑨ GLAZING GASKET



⑩ GLAZING TAPE



⑪ SETTING BLOCK



⑬ STEEL REINFORCING

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MATERIALS LIST

ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
①	N3001	AS REQ'D.	HEAD/JAMB/SILL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
①A	N3001 (ALT.)	AS REQ'D.	EQ. LEG HEAD/JAMB/SILL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
②	N3002	AS REQ'D.	MULLION/INTERMEDIATE HORIZONTAL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
③	N3003	AS REQ'D.	GLASS STOP (MONOLITHIC)	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
③A	N3004	AS REQ'D.	GLASS STOP (INSULATED)	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
④	B1	AS REQ'D.	HEAD/SILL SHEAR BLOCK	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
⑤	B2	AS REQ'D.	INT. HORIZONTAL SHEAR BLOCK	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
⑥	S1	2/SHEAR BLOCK	#8–32 x 1/2" PH THREAD CUTTING	STAINLESS STEEL	
⑦	S2	2/SHEAR BLOCK	#10–24 x 5" PHPMS W/ HEX NUT	STAINLESS STEEL	
⑧	S3	2/SHEAR BLOCK	#12–24 x 2 1/2" THPMS	STAINLESS STEEL	
⑨	RG12100	AS REQ'D.	GLAZING GASKET	NEOPRENE	C.R. LAURENCE
⑩	V–2108	AS REQ'D.	GLAZING TAPE	3/8" x 1/4" VINYL FOAM	NORTON
⑪	SB584	2/LITE	SETTING BLOCK	2" x 1/2" x 3/8"	C.R. LAURENCE
⑫	SSG4000AC	AS REQ'D.	GLAZING COMPOUND		GENERAL ELECTRIC
⑬	ST1	AS REQ'D.	STEEL REINFORCING	A36	

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date Aug. 11, 2016
By Warren Lee
Miami-Dade Product Control

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431 393-1008
TEL (561) 393-1003 FAX (561) 393-1008

CHRISTOPHER STANTON LICENSE No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER STANTON, P.E.
FLA. REG. NO. 69316
NOV 1 2013

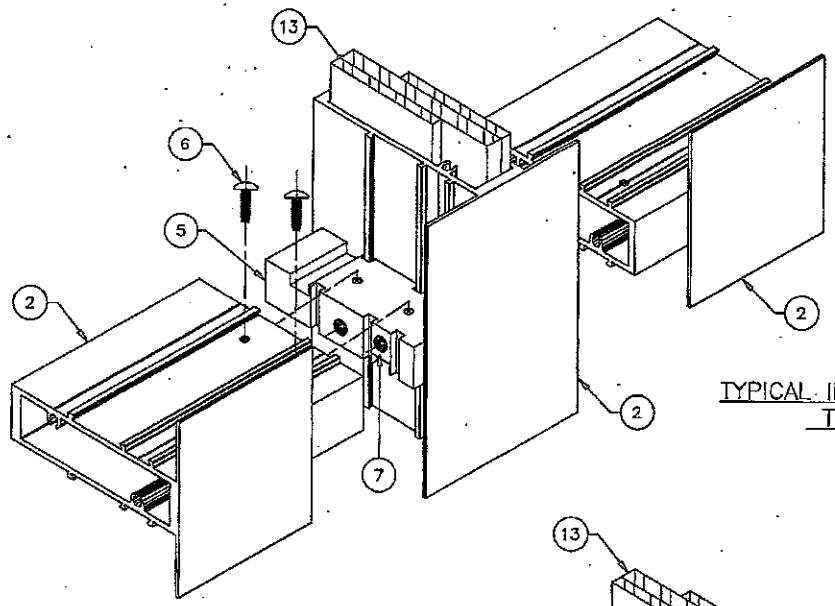
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-981-5660

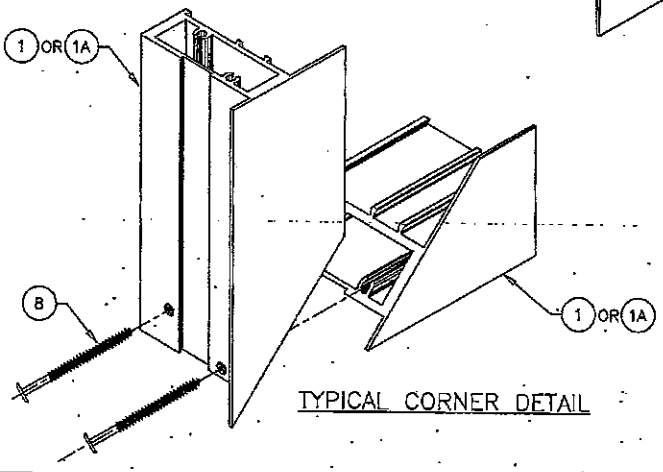
SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

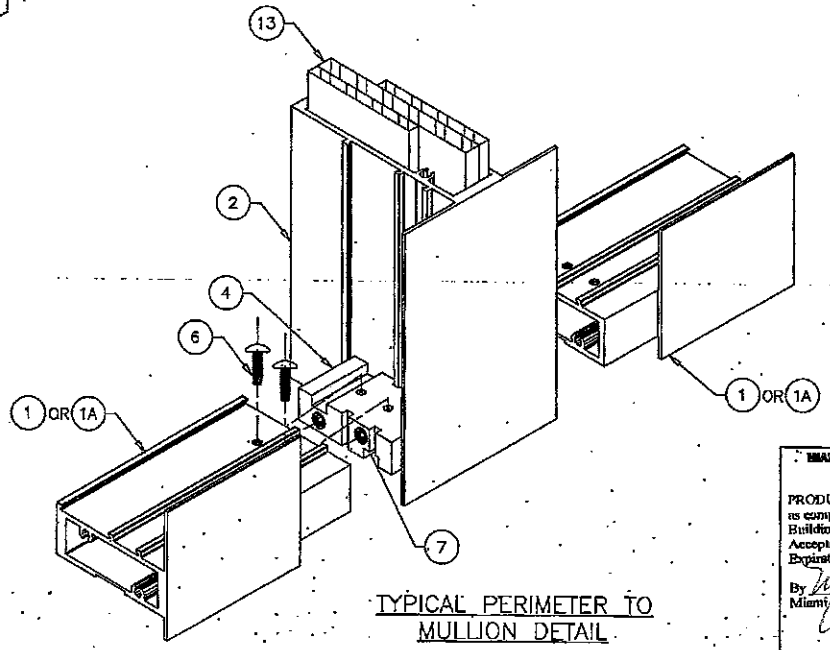
SHEET NO.
10 of 11



TYPICAL INTERMEDIATE HORIZONTAL TO MULLION DETAIL



TYPICAL CORNER DETAIL



TYPICAL PERIMETER TO MULLION DETAIL

NO.	DATE		REVISIONS
4	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-3-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date: Aug. 11, 2016
By: Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON LICENSE No. 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 14 2013
CHRISTOPHER STANTON, P.E. FL P.E. # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Bshar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

SCALE:	NOTED
DATE:	4/16/11
DRAWN BY:	DGI
CHECKED BY:	G.S.

BW-3000 F
DRAWING NO.

SHEET NO.
11 of 11

EMILIANO OROZCO PE 66341
961 SW 122 Avenue. Miami, FL 33184

CERTIFICATION

9/3/14

September 03, 2014

To: City of Hollywood
Building Department
2600 Hollywood Blvd.
Hollywood, FL 33020

Ref: Master Permit No. B13-105839
Patricia Cantor and Clara Cantor (owners)
1201 North Southlake Dr.
Hollywood, FL 33019

Report: Opening Reinforcing

Dear Building official:

Pursuant to the authorization of the owner, by myself, conducted an inspection at the above referenced site to verify opening reinforcing, in order to determine its compliance with the requirements of the "Florida Building Code 2010 edition " date when it was built ".

Openings: In openings least than 6' width; 1#5 fill cell was observed at both sides of the existing openings. Its is ok in compliance with FBC 2010 edition.
In existing 8" CMU walls to remain without disturbing; not reinforcing apply due are safe for the current specified use and continued occupancy

The structure "is structurally souud" and in compliance with Florida Building Code 2010 edition and safe for the current specified use and continued occupancy.
The structure also complies with all requirements of the current Florida Building Code, Ordinances No. 02-44 and/ or South Florida Building Code, Section 301.5(k)

If I Could be of any further assistance to you, please feel free to contact me.

Emiliano orozco P.E.
Phone number: (786)-715-7125
emilianoorozco90@yahoo.com

APPROVED
SEP - 9 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE

FINAL INSPECTIONS **ONLY** YOU MUST CALL ***954-921-3261***

OR CALL ***954-921-3646*** 24 HOURS.

WWW.HOLLYWOODFL.ORG

TO SCHEDULE INSPECTIONS VISIT

BUILDING PERMIT

City of Hollywood, Florida

DISPLAY THIS CARD ON FRONT OF JOB WITH APPROVED PLANS

PERMIT NO. _____

PERMIT NO. _____

DATE	INSPECTOR COMMENTS	NAME
8/28/14	Not Ready For Framing (010) OR Tie C/S (006)	
	OK. To Sheetrock one side of Partitions	
	Re-call when Ready.	
9/4/14	006 - Partial Remarks Letter	
	Submit HAL for Approval @ Bldg. Dept.	

Per F.B.C. Section 105.11.2.1, This Building Permit shall expire and become null and void 180 days from the date of issuance or from the last performed inspection.

17-102 (09/13)

JOB ADDRESS: 1201 N. SOUTHLAKE DR. HOLLYWOOD, FL. 33019

WINDOW/~~DOOR~~ SCHEDULE

	WINDOWS & DOORS SIZE	APPROVED PRESSURE (POS / NEG)	REQUIRED PRESSURE (POS / NEG)	PRODUCT APPROVAL #	GLASS (SIZE & TYPE)	FASTENER (TYPE/SIZE)	SPACING EDGE & O.C. HEADER	SPACING EDGE & O.C. SIDES	SPACING EDGE & O.C. SILL	SHUTTER Y / N	MULLION BARS: VERT / HOR	MULLION BARS: NOA #	MULLION BARS: BAR SIZE & FASTENERS, CLIP/BAR
A	4° 6⁸	70/90	42/45	12121B.09	7/16	(1)	4	7	4	N	N		
B	4° 6⁸	70/90	42/45		7/16		4	7	4				
C	4° 6⁸	70/90	42/45		7/16		4	7	4				
D	5⁹ 5⁵	70/76.5	42/45		5/16		6	6	6				
E	5⁹ 5⁵	70/76.5	42/45		5/16		6	6	6				
F	3⁵ 5⁵	59/59	43/~~56~~		5/16		3	6	3				
G	3³ 5⁵	59/59	43/46		5/16		3	6	3				
H	3³ 5⁵	59/59	43/46		5/16		3	6	3				
I	1⁸ 5⁵	70/90	43/46		5/16		2	6	2				
J	6' 2⁰	70/90	43/46		5/16		6	2	6				
K	3³ 5⁵	59/59	42/45		5/16		3	6	3				

APPROVED
MAY 12 2014
VOID STRUCTURAL
CITY OF HOLLYWOOD, FL.
BUILDING DEPT.

THIS FORM SHALL BE SUBMITTED ALONG WITH THE FLOOR PLAN AND ALL PRODUCT APPROVALS.

**** A MINIMUM OF TWO INSPECTIONS MAY BE REQUIRED (1st) **FRAMING** - DURING THE INSTALLATION OF CONCEALED FASTENERS (2nd) **FINAL** - AFTER ALL WORK IS COMPLETE.*

(1) 1/4" x 2.75" S.S. TAPCONS

JOB ADDRESS: 1201 N. SOUTHLAKE DR. HOLLYWOOD, FL. 33019

WINDOW/DOOR SCHEDULE

WINDOWS & DOORS #	SIZE	APPROVED PRESSURE POS / NEG	REQUIRED PRESSURE POS / NEG	WINDOWS / DOORS: PRODUCT APPROVAL #	GLASS Type / Thick	FASTENER TYPE/SIZE	SPACING EDGE & O.C. HEADER	SIDES	SILL	SHUTTER Y / N	MULLION BARS: YES / NO	NOA #	BARS SIZE & FASTENERS CLR/BAR
L	33 5³	59/59	42/45	12-1218.09	5/16	①	3	6	3	N	N		
M	49 5³	70/90	43/46		5/16		5	6	5		N		
N	6° 2°	70/90	42/45		5/16		6	2	6		N		
O	6° 2°	70/90	42/45		5/16		6	2	6		N		
P	29 5⁴	70/90	43/46		5/16		2	6	2		N		
Q	3' 5⁹	60/62	40/43		5/16		3	6	2		Y		
R	3' 5⁹	60/62	40/43		5/16		3	6	2		Y		
S	3' 5⁹	60/62	40/43		5/16		3	6	2		Y		
T	2⁴ 5⁹	70/77	43/59		5/16		2	6	2		N		
U	5⁹ 4²	70/90	42/45		5/16		6	4	6		N		
V	5⁹ 4²	70/90	43/59		5/16		6	4	6		N		
W	3' 4²	70/90	43/59	X	5/16	X	3	4	3	X	N		

THIS FORM SHALL BE SUBMITTED ALONG WITH THE FLOOR PLAN AND ALL PRODUCT APPROVALS.

**** A MINIMUM OF TWO INSPECTIONS MAY BE REQUIRED (1st) **FRAMING** - DURING THE INSTALLATION OF CONCEALED FASTENERS (2nd) **FINAL** - AFTER ALL WORK IS COMPLETE.*

JOB ADDRESS

1201 N. SOUTHLAKE DR.
HOLLYWOOD, FL.
33019

WINDOW/DOOR SCHEDULE

WINDOWS / DOORS											MULLION BARS		
						SPACING EDGE & O.C.			SHUTTER				
WINDOWS & DOORS #	size	APPROVED PRESSURE pos/neg	REQUIRED PRESSURE pos/neg	PRODUCT APPROVAL #	GLASS TYP/ THK	FASTENER TYP/SIZE	HEADER	SIDES	SILL	Y/N	YES/ INCL	NOA #	BAR SIZE / #FASTENERS CLIP/BAR
X	PR 3'2" 4'10"	70/90	42/45	12-0726.02		(1)	6	4	6	N	Y		
Y	3' 8"	60/62	41/44	12-1218.09			3	8	3		N		
Z	3' 8"	60/62	42/45				3	8	3		N		
AA	12 2"	70/90	45/48				2	3	2		N		
BB	2'11" 4'11"	70/77	42/45				3	4	3		Y		
CC	2' 4"	70/77	43/46				3	4	3		Y		
DD	2'11" 4'11"	70/77	43/46				3	4	3		Y		
EE	2' 10"	62/62	42/56				2	12	2		N		
FF	2'8" 10"	62/62	42/45				3	12	3		Y		
GG	2'8" 10"	62/62	42/45				3	12	3		Y		
HH	2'8" 10"	62/62	42/45				3	12	3		Y		
II	2'8" 10"	62/62	42/45				3	12	3		Y		

THIS FORM SHALL BE SUBMITTED ALONG WITH THE FLOOR PLAN AND ALL PRODUCT APPROVALS.

**** A MINIMUM OF TWO INSPECTIONS MAY BE REQUIRED (1st)* ***FRAMING*** - DURING THE INSTALLATION OF CONCEALED FASTENERS *(2nd)* ***FINAL*** - *AFTER ALL WORK IS COMPLETE.*

JOB ADDRESS: 1201 N. SOUTHLAKE DR. HOLLYWOOD, FL. 33019

EXTERIOR DOOR ~~WINDOW/DOOR~~ SCHEDULE

WINDOWS & DOORS #	SIZE	APPROVED PRESSURE + / -	REQUIRED PRESSURES + / -	WINDOWS / DOORS: PRODUCT APPROVAL #	GLASS TYPE / MM	FASTENER # / TYPE/SIZE	SPACING EDGE & O.C.: HEADER	JAMB SIDES	SILL	SHUTTER Y / N	MULLION BARS: OVER 9 SQ.	NOA #	BAR SIZE, # FASTENERS, CLIP/BAR
1	3'x8'	75/75	40/43	12-0516.02	7/16	①	3	5	3	N	Y	12-0516.02	1x275 / 9 TOP / 9 BOTTOM
		75/											
2		75/75					3	5	3		Y		
3		75/75					3	5	3		Y		
4		75/75	42/45				3	5	3		N		
5		75/75	42/56				3	5	3		N		
6		75/75	40/43	"	"	"	3	5	3		N		
7	3'x7'	60/60	42/45	12-0609.12	—	②	1	2	1		N		

THIS FORM SHALL BE SUBMITTED ALONG WITH THE FLOOR PLAN AND ALL PRODUCT APPROVALS.

**** A MINIMUM OF TWO INSPECTIONS MAY BE REQUIRED (1st) **FRAMING** - DURING THE INSTALLATION OF CONCEALED FASTENERS (2nd) **FINAL** - AFTER ALL WORK IS COMPLETE.*

① 1/4" x 2.75" SS. TAPCON

② WIRE ANCHOR BY DOOR MFR.

scot distefano-architect
2004 Rodman Street
Hollywood, Florida 33020
954.316.8800

12 March, 2014

City of Hollywood Building Department
2600 Hollywood Blvd. Room 315
Hollywood, FL. 33022

RE: 1201 North South Lake Drive
Permit Number B13 105839

Plumbing - Alan Corriveau

1. f.p.c.2010 909.1 only specific fixtures are allowed in the bathroom group. other fixtures &, or the sanitary system are prohibited to drain into, or through the bathrooM group. the kitchen waste piping exceeds the 1.5" on the plan. 2" would comply to the code.

I have provided a separate vent stack between the tub and toilet at Bath #1c and d, per our conversation. Please see plumbing plan and Sanitary Riser Diagram on sheet P-1. (It was already on the plan, but not the riser!)

3. The kitchen waste piping exceeds the 1.5" on the plan. 2" would comply to the code.

I have a 1.5" coming off each sink which becomes a 2" where they join. Per our conversation, I will show it as a 2" line to the sink even though this is not required by code. I have added a pipe size to the plan and sanitary riser on sheet P-1.

Building - Donald Lambert

1) Provide a copy of the soil boring logs referred to in the comment sheet request #2 of the prior review for a soil report , Minimum standards for plan submission of the Broward administration code 107.7 (8) A soil conditions /analysis..

Per phone conversation 3-12-14, piling log found.

2) The special inspectors form needs to be sealed by the special inspector . It also needs to be filled out (address of job) and indicate the inspections that will be made ,such as the piling.

Special Inspector form completed and sealed for reinforced masonry. Special inspection for piling will be provided by piling contractor prior to commencing work.

3) The structural calculations reference the IBC and the UBC , provide a cover sheet attesting that the calculations will encompass the requirements of the 2010 FBC

Provided as requested, New cover sheet added, signed and sealed.

4) From the first review # 11, Please provide cut section thru GB 5 and GB 5A on the foundation plan (GB on top of existing slab) ? Show how the GB 5A beams are connected to the existing beams.

Per -phone conversation 3-12-14, sketch found and detail not required.

5) From the first review #12, Sheet A3 how do the existing floor slabs tie into the new slabs ,The plan shows dowels but no details The size of the bars the length of the embedment ,and the spacing of the dowels is requested

Note already on plans, see Section 2a/A-10. Comparable note added to foundation plan.

Utilities - Wilford Zephyr

1) Callout finished floor elevation of the bedroom addition, garage expansion and kitchen expansion. Please note that the minimum finished floor elevation of the kitchen expansion and bedroom addition need to match that of the existing house, 7.0' NGVD. If the finished floor elevation of the garage expansion is lower than that of the existing house, flood vents must be provided per FEMA Technical Bulletin #1. *****Partially complied. Response letter states that finished floor elevation was added for the addition, that info was not found on sheet A-3.

The information was there. I added ANOTHER elevation target to the floor plan AND the foundation plan.

Sheet A-3 shows the "renovated florida room" at elevation 6.5' NGVD. At a minimum, it needs to be at elevation 7.0' NGVD.

Floor will be raised. See Floor plan on A-4 and interior elevation on A-10.

Sheet A-3 shows garage at elevation 5.5' NGVD. Flood vents must be provided to comply with FEMA Technical Bulletin #1.

Vents added to garage west and north walls. See A-3 and A-4.

Engineering - Raphael Quintero

1) Provide all dimensions and setbacks to the property line for the proposed driveway located on the west side of the property and for the other new driveway located on the north side of the property by the new porch on the site plan Typical minimum parking stall is 9' wide by 19' long Also, provide a driveway construction detail for the concrete paver slabs and its dimensions.

I have added dimensions to the east driveway and removed the north driveway at the client's request. Since this is an exceedingly large driveway, and I graphically showed four cars in the parking court and two in the garage, I find this question to be rhetorical.

Note specifying concrete driveway pavers is already on plans at north driveway. Note has been moved to west driveway since north driveway has been eliminated by the owner.

Please, we need a permit. Not more hoops to jump through. All engineering comments should have been provided in the first review.

2) Apron/approach areas must be the same width as the driveway.

Apron approach modified to width of driveway as requested, but for the record, you are required to cite chapter and verse of the code. Upon challenging you, you were not able to do so. Please advise at to where this is required in the code.

Thank you all for your reviews. If you have additional questions, please call before you turn down these plans again.

Sincerely,

Scot DiStefano

scot distefano-architect
2004 Rodman Street
Holywood, Florida 33020
954.316.8800

28 January, 2014

City of Hollywood Building Department
2600 Hollywood Blvd. Room 315
Hollywood, FL. 33022

RE: 1201 North South Lake Drive
Permit Number B13 105839

Electrical - Edward Weidlich

1. Electric plan o/k need electrical contractor with notarized application.
Electrical Contractor to be selected.

Mechanical - Peter Mecale

1. Provide balanced return air in habitable areas as per FRC M1602.3
Transfer grill and duct information added to sheet M-1

2. AC unit 2 is a 5 ton unit but on your schedule you call it a 3.5 ton unit
Schedule corrected. See sheet M-1.

Plumbing - Alan Corriveau

1. FPC.2010 909.1 only specific fixtures are allowed in the bathroom group. other fixtures &, or the sanitary system are prohibited to drain into, or through the bathroom group.
I have provided a separate vent stack for the laundry Room. Please see plumbing plan and Sanitary Riser Diagram on sheet P-1.

2. Where is the washer connected to the sanitary system?
Information added to Sanitary Riser, see sheet P-1

3. The kitchen waste piping exceeds the 1.5" on the plan. 2" would comply to the code.
I have a 1.5" coming off each sink which becomes a 2" where they join. I have added a pipe size to the sanitary riser on sheet P-1. Information was already on the Plumbing Plan.

4. A plumbing sub. P14-000002, has been assigned to this master. need plumbing permit application to be submitted.
Plumbing contractor to be selected.

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scot distefano-architect

Building - Donald Lambert

1. 1) The application says the estimated value is 350,000 The computer has 35000 please correct.

This is a staff input error. They have corrected this in the system.

2. Please provide a soil report 1818.2 Allowable bearing capacity, The certified in-place bearing capacity shall have been determined using recognized tests or rational analysis and shall meet or exceed the design bearing capacity identified under Section 1818.1. FBC ,4404.2.2 FRC

The foundation design is based upon Rational analysis. Foundation design is based upon actual soil boring logs for the most recent addition and the original house design. I have appended the Auger Cast Piling specification to clarify the rational analysis.

3. Sheet A3 shows a detail of a pin pile but none are shown on the foundation plan , helical piles are shown.

Pin Piles are shown on the plan (i.e. PP#) but there is a reference to the helical piles on the Grade Beam Schedule. This is incorrect and has been revised. See sheet A-3

4. Sheet A3 The helical piles say see specs for the capacity , where are the specs

See Sheet A-3, lower right corner for piling specs.

5. The storm panels if required for the existing windows will require a separate application

All windows are being replaced.

6. The survey needs to have a raised seal and signature.

I have replaced the stamped copy with a raised seal copy. It was my understanding this was acceptable for single family residential work.

NEEDS TO BE SEALED

7. A Special inspectors form, 2010 version signed and sealed by the special inspector and signed by the owner and contractor is required (prior to permitting) for the Masonry ,4407.5.4 FRC 2010 110.3 Brw admin

The Special Inspector form was included with the original submission. It is missing the signature of the GC as the GC has not been selected yet. We are out to bid with the project and we will provide the signature as soon as the contractor has been selected.

8. At the completion of the work ,the special inspector shall submit a signed and sealed certificate of compliance ,to the building official,stating that the work was done ,substantially in accordance with the applicable portions of the permitted construction documents as delineated in the special building inspection plan. Section 110.3.7.4.1 of the Broward county Board of Rules and appeals (Final letter). 2010 FBC

Understood.

scot distefano-architect

9. Need to show an exterior window and door schedule

Exterior window and door schedule is attached to the set, left hand border, on 8.5 x 11 sheets. It appears that the "City" copy has been disassembled and the sheets removed, As resubmitted, the schedule will be attached to the left hand binder.

10. There are cut section on sheets A3 ,4 ,5 ,6 and 7 that have ? for the sheet # and detail please clarify

I did not provide all the detail I had originally planned to since there seemed to be too much redundancy. I have eliminated the unused detail flags on the revised submission.

11. Please provide cut section thru GB 5 and GB 5A on the foundation plan (GB on top of existing slab) ?

Yes. It is simply a beam that spans over the existing slab to where I know there to be an existing piling. I have attached a sketch for your benefit, but I do not deem it necessary to be part of the set.

12. Sheet A3 how do the existing floor slabs tie into the new slabs ,The plan shows dowels but no details

Again, with all due respect, the method of slab connection is adequately described. The code does not mandate that I provide a detail for every condition.

13. Sheet A4 cut section B on A10 is not shown on A10

My apologies, section was moved in the final printing and section flag never was updated. Section flags have been updated on all sheets.

14. Sheet A10 shows an interior elevation , please show this on the floor plan with a cut section

Information is already on the floor plan. Interior elevation mark is a circle with a number an an arrow inside. You will actually find quite a few additional interior elevation flags on the revised plans, but those drawings have not been submitted for permitting as they offer no code related information.

15. Sheet A6 can't find details 3 and 6 that are indicated to be on this sheet

Sheet A-6 contained 7 structural details including 3 and 6. Please be more specific with your question. Additionally, I added detail 2/a-6

16. Roof framing. The framing plans shall indicate the uplift forces applied on the roof, sheathing type, thickness and nailing requirements for the sheathing. FRC, 2319.10 FBC 2010

Information added as requested. Please see sheet A-6.

17. Provide a strapping schedule for the roof framing showing the type of straps size and number of nails required for the straps

Information is already on plans. General Fastener Schedule is on Sheet A-3. Specific fastener notes were added to Framing Plan on sheet A-6.

18. Truss packages must be reviewed and accepted by the designer of record prior to submittal to the building dept 107.7.7 Brw admin section,and may be submitted after permitting 2010 FBC

Trusses Shop Drawings will be submitted, by the GC, prior to first inspection.

19. The Roofing will require a separate application and a High Velocity roofing form filled out,(can be submitted after the permit is issued

This document will be provided by the GC once selected.

20. Sheet A9 shows a 8x16 beam above the pas thru window that is not on the beam schedule

Information already on plans. This is TB-1, and there is a note to drop the beam over the windows and add (2) #5 bars. See section 1/A-9.

21. The roof framing plan shows SB 2a 2b 2c and 2d is this the laminated 2x8 beam

Yes.

22. Sheet A6 there is a cut section B on A10 cant find this on A10

See response to #13.

23. At the same location there is a 4in dia steel column which is indicated on detail ???? please clarify

This is detail 2/A-8. Missing section and detail references have been revised with the appropriate information... that said, I may have still missed one or two if they were embedded in a note.

24. Also there is a beam SB SB what this is not on the beam schedule

Please be more specific.

Untilities - Wilford Zephyr

1. Call out finished floor elevation of the bedroom addition, garage expansion and kitchen expansion. Please note that the minimum finished floor elevation of the kitchen expansion and bedroom addition need to match that of the existing house, 7.0' NGVD. If the finished floor elevation of the garage expansion is lower than that of the existing house, flood vents must be provided per FEMA Technical Bulletin #1.

Information already on plans for all rooms except bedroom addition. I have added this information to sheet A-3

2. Survey provided was not signed and sealed. Please provide signed and sealed survey.

Signed and sealed copies of the survey have been provided. It is my understanding that original signed and sealed copies are not required

for residential work as long as they are in fact accurate.

3. It appears that pavers will be installed at the SW corner of the property where the existing asphalt and concrete pavements will be removed. Please call that out on the plans. Consider providing 6" swale in grass area to the east of the pavers referenced above.

Note added to sheet A-1 AND a-4 identifying the concrete pavers.

4. Sheet A-1 indicates for existing water meter to relocated. Sheet P-1 calls out for a new 1" water meter. Clarify whether or not a new meter will be required, in addition to the existing one. Indicate size of the existing meter on the plans.

The meter is being relocated and if it is not a 1" meter it will be replaced accordingly.

5. P-1 indicates that a new sewer lateral will be connected to the City's existing sewer line. Please verify that a new connection to the City's sewer line is required. Revise plans as required.

The plans call for locating the existing sewer lateral and connecting. It is not intended to make a new sewer tap, nor do the plan call for one.

6. More comments may follow upon review of the requested information. Note: The above Review Comments are for improvements on the west side of the property only. Sheet A-1 indicates that the improvements on the east side will be done under a separate permit. Comments will be provided at time of that permit review.

Understood.

Zoning - Crystal Torres

1. Unity of Title - The form you provided has been completed and is attached.

Attached.

2. Chain link fence must be substituted for another material ie- match aluminum. All references to chain link fence have been changed to "aluminum picket fence".

"Chain link" fence references have been changed to "aluminum picket".

3. Photos are taken to document the original structure along with original plans of the building.

All available photos have already been provided as part of the HPB approval process. We are providing both hard and digital copies of all original plans as part of this submission. Additionally, the Owner is donating to the HPB a framed copy of the rendering of the house.

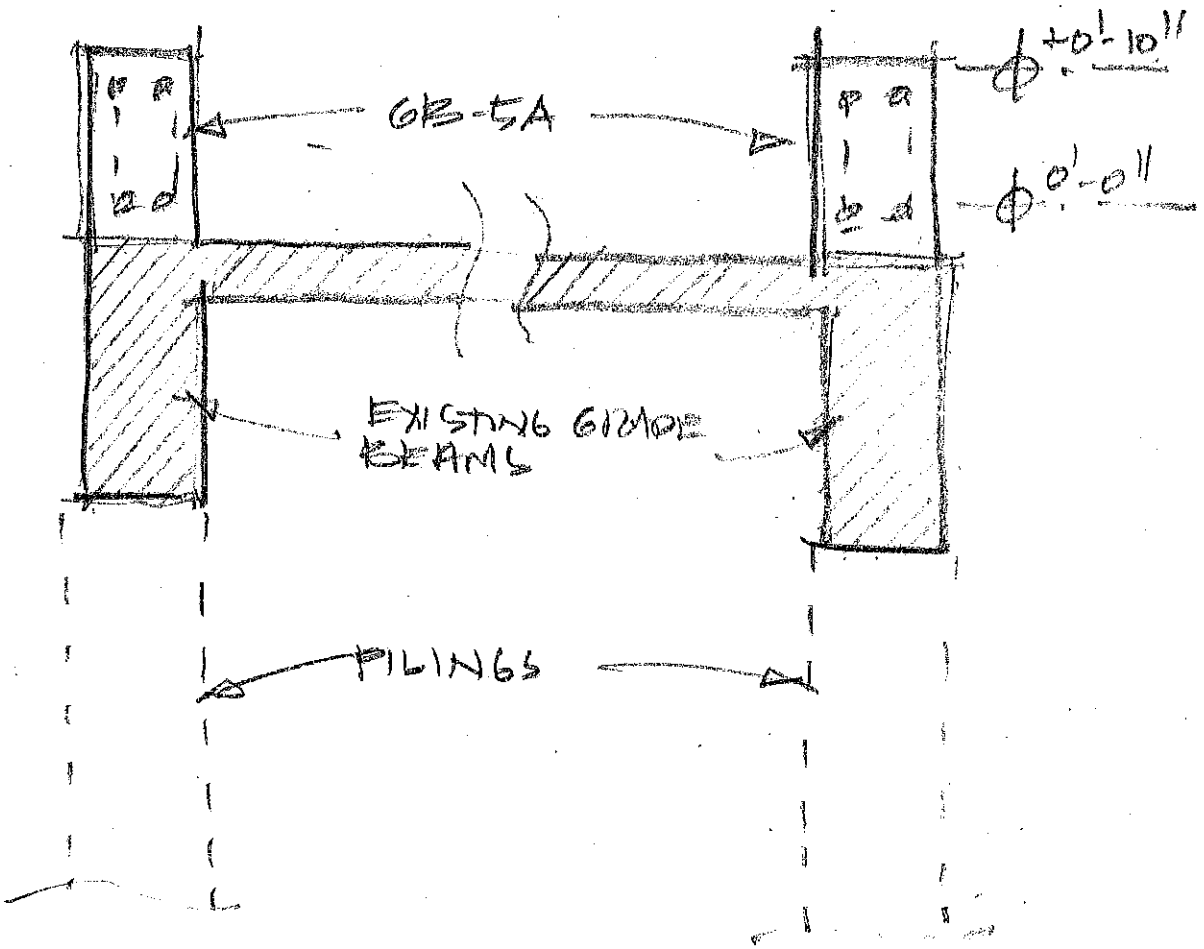
Thank you all for your reviews. If you have additional questions, please call.

Sincerely,

Scot DiStefano

scot distefano-architect

DESTEFANO



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FLORIDA FOUNDATION SYSTEMS INC.
2780 NE 16 STREET
POMPANO BEACH, FL 33062
OFFICE (954) 786 - 0455
FAX (954) 782 - 9991

ATLAS FIELD INSTALLATION LOG - HELICAL PIERS

PROJECT LOCATION:

Property Owner	Bullock Res
Street Address	1201 N. South Lake Dr.
City / State	Hollywood, FL.

PROJECT DATA:

Date	March 20, 2005
Contractor	William Seay
Eng./Arch.	John H. Omslaer, P.E.
Application	Home Addition
Installation Date	March 18, 2005

PRODUCT SELECTION:

Pier Part Number	Helical R2875.262
Helix Configuration (diameters)	12" - 14"
Lift Cylinder Area	N/A
Gear Motor Size (ft-lbf@psi)	12000 ft/lb @ 4250 psi
Installation Flow	10-30 GPM

PIER #	SECTION LENGTH	# OF SECTIONS	DEPTH REFERENCE	TOTAL LENGTH	HELICAL TORQUE	ULTIMATE LOAD	DESIGN LOAD
1	7'	4	Grade	24'	Refusal	20 Tons	10 Tons
2	Deleted	X	X	X	X	X	X
3	7'	4	Grade	24'	Refusal	20 Tons	10 Tons
4	7'	4	Grade	24'	Refusal	20 Tons	10 Tons
5	7'	3	Grade	16'	Refusal	28 Tons	14 Tons
6	7' & 5' 3"	4	Grade	23' 6"	Refusal	28 Tons	14 Tons
7	7'	4	Grade	24'	Refusal	20 Tons	10 Tons
8	7'	3	Grade	20' 6"	Refusal	20 Tons	10 Tons
9	7'	3	Grade	17'	Refusal	20 Tons	10 Tons
10	7'	4	Grade	24'	Refusal	20 Tons	10 Tons

NOTES: See building plans for piling locations.
Caps: 6" X 8" X 3/4" with 2 Nelson Studs 8" X 1/2" dia.

Dynamic Engineering Solutions Inc.
935 N.W. 31 Ave. Suite D
Pompano Beach, FL. 33069
John H. Omslaer, P.E.
PE # 52733 EB # 9011

3/24/05

Broward County Board of Rules and Appeals
One North University Drive, 3500-B
Fort Lauderdale, Florida 33324

Effective: March 1, 2009
Telephone: 954.765.4500
Facsimile: 954.765.4504

FORM FOR "SPECIAL BUILDING INSPECTOR"
SECTION 109.11 – BROWARD COUNTY ADMINISTRATIVE CODE AND THE 2007 FLORIDA BUILDING CODE

NOTICE TO PROPERTY OWNER:
You are hereby directed in accordance with Section 109.11 of the Broward County Administrative Code and the Florida Building Code to retain a Special Structural Inspector (A Florida Registered Architect or Licensed Engineer) to perform the following mandatory or discretionary inspections, as outlined in Sections 109.11, 1822, 2122.4, R4407.5.4, 2223.11.1, 1927.12.1, 1927.12.2, R4405.9.12.1, R4405.9.12.2, R4408.5.2 & R4408.10.11 of the Florida Building Code and submit progress reports, inspections reports, and a Certificate of Compliance to the Building Official as per Sections 109.11.6 and 109.11.7 of the Florida Building Code.
Note: The Building Official determines which discretionary inspections are to be delegated.

DATE: 3.12.14 IDENTIFICATION, CONTROL OR BUILDING PERMIT # B13-10583?
PROJECT NAME: CARTER RESIDENCE
JOB ADDRESS 1201 N. SOUTH LAKE DR. ZIP 33019
LEGAL DESCRIPTION: FOLIO #

A. MANDATORY INSPECTIONS TYPE BY CODE:

1) Precast Concrete Units – Section 1927.12.1, R4405.9.12.1, 109.11.2.1 ..... Yes ☐ No ☐
2) Precast Concrete Units – Section 1927.12.2, R4405.9.12.2, 109.11.2.1 ..... Yes ☐ No ☐
3) Reinforced Unit Masonry – Section 2122.4, R4407.5.4, 109.11.2.2 (per ACI 530.1-05-Level B Quality Assurance)*
*unless noted otherwise on plan ..... Yes ☐ No ☐
4) Connections – Section 2218.2, 109.11.2.3 ..... Yes ☒ No ☐
5) Metal System Buildings – Section 2223.11.1, 109.11.2.4 ..... Yes ☐ No ☐
..... Yes ☐ No ☐

B. DISCRETIONARY INSPECTION TYPE BY BUILDING OFFICIAL:

1) Building Structures or part thereof of Unusual Size, Height, Design or Method of Construction and Critical Structural Connections – Section 109.11.1.1 ..... Yes ☐ No ☐
2) Windows, Glass Doors and Curtain Walls on buildings over two (2) stories – Section 109.11.1.1 ..... Yes ☐ No ☐
3) Pile Driving Only – Sections 1822, R4404.13, 109.11.3 ..... Yes ☐ No ☐
4) Precast Concrete Units – Section 1822, R4404.13, 109.11.3, 109.11.5 ..... Yes ☐ No ☐
5) Reinforced Unit masonry – Sections 2122.4, R4407.5.4, 109.11.3, 109.11.5 ..... Yes ☐ No ☐
6) Other ..... Yes ☐ No ☐
..... Yes ☐ No ☐

C. MANDATORY DOCUMENTATION

1) Inspection schedule stating the specific inspection that will be made and at what phase of construction must be submitted with this application.
2) Progress Report/Inspection reports during construction in accordance with Section 109.11.6.
3) Certificate of Compliance must be submitted prior to the scheduling of the final building inspection, Section 109.11.7.

ACKNOWLEDGMENT

Owner's Signature: C. Carter
Printed Name: CLAIA CANTOR
Permit Holder's Signature: B. Gagne
Printed Name: BERT GAGNE
License # (if applicable) CGC058451

SPECIAL BUILDING INSPECTOR:
☐ Registered Architect and/or ☐ Licensed Engineer
Signature of Special Building Inspector: Embossed Seal AND Date 2.11.14

Printed Name of Special Building Inspector SCOT DISTEFANO
Address of Special Building Inspector 2804 ROOSMAN CT
HOLLYWOOD FL
State of Florida Registration # AR0014104 Fax # Telephone # 954 316 0000

Building Official (or designated representative) Date:

***BE ADVISED THIS DOES NOT PRECLUDE YOU FROM OTHER MANDATORY INSPECTIONS IN THE

APPROVED
MAY 12 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

JOB ADDRESS: 1201 N. SOUTHLAKE DR. HOLLYWOOD, FL. 33019

WINDOW/DOOR SCHEDULE

	WINDOWS & DOORS #	TYPE	APPROVED PRESSURE (POS / NEG)	REQUIRED PRESSURES (POS / NEG)	WINDOWS / DOORS: PRODUCT APPROVAL #	WINDOWS / DOORS: GLASS (Type / Thk)	WINDOWS / DOORS: FASTENERS (Type / Size) & Spacing	SPACING EDGE & O.C.: HEADER & SILL	JAMB	SILL	SHUTTER: WITH	MULLION BARS: OVER 9'-0"	MULLION BARS: NO. #	MULLION BARS: BAR SIZE / # FASTENERS / CLIP SPACING
A	4°	6⁸	70/90	42/45	12-1218.09	7/16	(1)	4	7	4	N	N		
B	4°	6⁸	70/90	42/45		7/16		4	7	4				
C	4°	6⁸	70/90	42/45		7/16		4	7	4				
D	5⁹	5⁵	70/76.5	42/45		5/16		6	6	6				
E	5⁹	5⁵	70/76.5	42/45		5/16		6	6	6				
F	3⁵	5⁵	59/59	43/46		5/16		3	6	3				
G	3³	5⁵	59/59	43/46		5/16		3	6	3				
H	3³	5⁵	59/59	43/46		5/16		3	6	3				
I	1⁸	5⁵	70/90	43/46		5/16		2	6	2				
J	6'	2⁰	70/90	43/46		5/16		6	2	6				
K	3³	5⁵	59/59	42/45		5/16		3	6	3				

THIS FORM SHALL BE SUBMITTED ALONG WITH THE FLOOR PLAN AND ALL PRODUCT APPROVALS.

**** A MINIMUM OF TWO INSPECTIONS MAY BE REQUIRED (1st) **FRAMING** - DURING THE INSTALLATION OF CONCEALED FASTENERS (2nd) **FINAL** - AFTER ALL WORK IS COMPLETE.*

(1) 1/4" x 2.75" S.S. TAPCONS

JOB ADDRESS: 1201 N. SOUTHLAKE DR. HOLLYWOOD, FL. 33019

WINDOW/DOOR SCHEDULE

WINDOWS & DOORS	W	H	APPROVED PRESSURE (+/-)	REQUIRED PRESSURE (+/-)	WINDOWS / DOORS: PRODUCT APPROVAL #	GLASS TYP/THK	FASTENER QTY/SIZE	SPACING EDGE & O.C. HEADER	SIDES	SILL	SHUTTER Y/N	MULLION BARS: PRS NO.	NOA #	BAR SIZE & FASTENERS / CLIP/BAR
L	3	5 3	59/59	42/45	12-1218.09	5/16	(1)	3	6	3	N	N		
M	4	5 3	70/90	43/46		5/16		5	6	5		N		
N	6	2	70/90	42/45		5/16		6	2	6		N		
O	6	2	70/90	42/45		5/16		6	2	6		N		
P	2	5 4	70/90	43/46		5/16		2	6	2		N		
Q	3'	5 4	60/62	40/43		5/16		3	6	2		Y		
R	3'	5 4	60/62	40/43		5/16		3	6	2		Y		
S	3'	5 4	60/62	40/43		5/16		3	6	2		Y		
T	2	5 4	70/77	43/59		5/16		2	6	2		N		
U	5 4	4 2	70/90	42/45		5/16		6	4	6		N		
V	5 4	4 2	70/90	43/59		5/16		6	4	6		N		
W	3'	4 2	70/90	43/59		5/16		3	4	3		N		

THIS FORM SHALL BE SUBMITTED ALONG WITH THE FLOOR PLAN AND ALL PRODUCT APPROVALS.

**** A MINIMUM OF TWO INSPECTIONS MAY BE REQUIRED (1st) **FRAMING** - DURING THE INSTALLATION OF CONCEALED FASTENERS (2nd) **FINAL** - AFTER ALL WORK IS COMPLETE.*

JOB ADDRESS

1201 N. SOUTHUTKE DR. HOLLYWOOD, FL. 33019

WINDOW/DOOR SCHEDULE

WINDOWS / DOORS												MULLION BARS		
							SPACING EDGE & O.C.			SHUTTER				
WINDOWS & DOORS #	size	APPROVED PRESSURE pos / neg	REQUIRED PRESSURES pos / neg	PRODUCT APPROVAL #	GLASS thick / type	FASTENER TYPE/SIZE	HEADER	SIDES	SILL	Y / N	YES / NO	NO / Y	BAR SIZE - # FASTENERS- CLIP/BAR
X	FR 3'4"	70/90	42/45	12-0726.02		(1)	6	4	6	N	Y		
Y	3' 8"	60/62	41/44	12-1218.09			3	8	3		N		
Z	3' 8"	60/62	42/45				3	8	3		N		
AA	12 2"	70/90	45/48				2	3	2		N		
BB	2'11 4"	70/77	42/46				3	4	3		Y		
CC	2'1 4"	70/77	43/46				3	4	3		Y		
DD	2'11 4"	70/77	43/46				3	4	3		Y		
EE	2' 10"	62/62	42/56				2	12	2		N		
FF	2'2 10"	62/62	42/45				3	12	3		Y		
GG	2'2 10"	62/62	42/45				3	12	3		Y		
HH	2'2 10"	62/62	42/45				3	12	3		Y		
II	2'2 10"	62/62	42/45				3	12	3		Y		

THIS FORM SHALL BE SUBMITTED ALONG WITH THE FLOOR PLAN AND ALL PRODUCT APPROVALS.

**** A MINIMUM OF TWO INSPECTIONS MAY BE REQUIRED (1st) **FRAMING** - DURING THE INSTALLATION OF CONCEALED FASTENERS (2nd) **FINAL** - AFTER ALL WORK IS COMPLETE.*

JOB ADDRESS: 1201 N. SOUTHLAKE DR. HOLLYWOOD, FL. 33019

EXTERIOR DOOR ~~WINDOW/DOOR~~ SCHEDULE

	WINDOWS / DOORS										MULLION BARS		
							SPACING EDGE & O.C.			SHUTTER			
	WINDOW/DOOR # (Mark)	APPROVED PRESSURE (POS / NEG)	REQUIRED PRESSURE (POS / NEG)	PRODUCT APPROVAL #	GLASS (PRO / Impact)	FASTENER / PRESIZE	HEADER	SIDES	SILL	Y / N	YES / NO	NOA #	BAR SIZE, # FASTENERS / CLIP / BAR
1	3'-0" x 8'-0"	75/75	40/43	12-0516.02	7/16	(1)	3	5	3	N	Y	12-0516.02	1 x 2.75 / 4 TOP / 4 BOTTOM
		75/											
2		75/75					3	5	3		Y		
3		75/75					3	5	3		Y		
4		75/75	42/45				3	5	3		N		
5		75/75	42/56				3	5	3		N		
6		75/75	40/43	↓	↓	↓	3	5	3		N		
7	3'-0" x 7'-0"	60/60	42/45	12-0609.12	—	(2)	4	2	4	↓	N		

THIS FORM SHALL BE SUBMITTED ALONG WITH THE FLOOR PLAN AND ALL PRODUCT APPROVALS.
**** A MINIMUM OF TWO INSPECTIONS MAY BE REQUIRED (1st) **FRAMING** - DURING THE INSTALLATION OF CONCEALED FASTENERS (2nd) **FINAL** - AFTER ALL WORK IS COMPLETE.*

(1) 1/4" x 2.75" SS. TAPCON

(2) WIRE ANCHOR BY DOOR MFR.

V

CITY OF HOLLYWOOD
HISTORIC PRESERVATION BOARD

INSTR # 112480940
OR BK 51030 Pages 1459 - 1461
RECORDED 08/21/14 08:57:14 AM
BROWARD COUNTY COMMISSION
DEPUTY CLERK 2150
#2, 3 Pages

RESOLUTION NO. 13-CV-93a

A RESOLUTION OF THE HISTORIC PRESERVATION BOARD OF THE CITY OF HOLLYWOOD, FLORIDA, GRANTING A CERTIFICATE OF APPROPRIATENESS FOR DESIGN FOR AN ADDITION TO AN EXISTING SINGLE FAMILY HOME LOCATED AT 1201 NORTH SOUTHLAKE DRIVE IN THE LAKES AREA HISTORIC MUTLIPLE RESOURCE LISTING DISTRICT AS MORE SPECIFICALLY DESCRIBED IN THE ATTACHED EXHIBIT "A" PURSUANT TO PROVISIONS OF THE CITY OF HOLLYWOOD ZONING AND LAND DEVELOPMENT REGULATIONS.

WHEREAS, the Historic Preservation Board (the Board) is charged with the responsibility of preserving and conserving properties of historical, architectural and archeological merit in the City of Hollywood; and

WHEREAS, a Certificate of Appropriateness for Design is required prior to the issuance of a building permit for new building construction, additions to existing buildings, major renovation work or substantial alteration based upon evaluation of the compatibility of the physical alteration or improvement with the criteria listed in the City of Hollywood Zoning and Land Development Regulations; and

WHEREAS, Pat and Carol Cantor, the "Applicant", (File Number 13-CV-93a), requested a Certificate of Appropriateness for Design for an addition and site improvements to an existing single family home located at 1201 North Southlake Drive as more particularly described in the attached Exhibit "A" incorporated herein by reference; and

WHEREAS, an advertised public meeting was held on July 15, 2014 to consider the Applicant's request; and

WHEREAS, the Board reviewed the Applicant's request for a Certificate of Appropriateness for Design for an addition and site improvements, to an existing single family home, reviewed the evidence submitted and testimony received at the public hearing, and applied the criteria for granting a Certificate of Appropriateness for Design as contained in the Section 5.6.F.1 of the City's Zoning and Land Development Regulations as follows:

1. The criteria for reviewing a request for a Certificate of Appropriateness for Design set forth in Section 5.6.F.1 includes: integrity of location, design, setting, materials, workmanship, and association; and

3

Return to: Office of Planning
City of Hollywood
2600 Hollywood Boulevard
Room 315
Hollywood, Fl. 33022-9045

WHEREAS, after applying the criteria stated above the Board determined that the Certificate of Appropriateness for Design should be granted with conditions;

NOW, THEREFORE, BE IT RESOLVED BY THE HISTORIC PRESERVATION BOARD OF THE CITY OF HOLLYWOOD, FLORIDA:

Section 1: That the Board, after hearing all the evidence submitted and reviewing the Applicant's request and Staff Summary Report and hearing testimony from all parties and public speakers, approves the issuance of a Certificate of Appropriateness for Design based on the plans submitted and approved by the Board with the following condition: That a Unity of Title, in a form acceptable to the City Attorney, be submitted prior to the issuance of permits and recorded, by the City of Hollywood, in the Broward County Public Records prior to the issuance of a Certificate of Completion (C/C) or Certificate of Occupancy (C/O).

Section 2: That the Office of Planning and Development Services is hereby directed to forward a copy of this Resolution to the Applicant and the owner of the property with respect to which the request was made. This Resolution will be delivered to the City Clerk to be recorded in the public records of Broward County, as provided by the applicable provisions of Article 5 in the Zoning and Land Development Regulations. A copy shall be furnished to any enforcement official.

PASSED AND ADOPTED THIS 15 DAY OF JULY, 2014.

RENDERED THIS 22 DAY OF July, 2014.

TERRY CANTRELL,
BOARD CHAIR

APPROVED AS TO FORM & LEGALITY
For the use and reliance of the Historic
Preservation Board of the City of
Hollywood, Florida only

DENISE MANOS,
BOARD ATTORNEY

(HISTORIC PRESERVATION BOARD RESOLUTION 13-CV-93a)

LEGAL DESCRIPTION

EXHIBIT "A"

INSTR # 112797810
Recorded 02/09/15 12:53:10 PM
Broward County Commission
Deputy Clerk 3535
#1, 2 Pages

This Instrument Prepared by:
Jonathan D. Beloff, Esq.
1691 Michigan Ave., Ste. 360
Miami Beach, Florida 33139

DECLARATION OF UNITY OF TITLE

KNOW ALL MEN BY THESE PRESENTS, that pursuant to the ordinances of the City of Hollywood pertaining to zoning, the issuance of building permits and regulating building construction activities, the undersigned, being the fee owner(s) of the following described real property situated in the City of Hollywood, County of Broward and State of Florida, do hereby make the following declaration of conditions, limitations and restrictions on said lands, hereinafter to be known and referred to as a DECLARATION OF UNITY OF TITLE, as to the following particulars:

1. The undersigned is the owner in fee simple of the properties described as follows:

   Lots 10 and 11, Block 27, Hollywood Lakes Section, being a subdivision of all of section 14 and all that part of Section 13 lying West of the Florida Coast line Canal and Transportation Company's Canal, in Township 51 South, Range 42 East, according to the map or plat thereof as recorded in Plat Book 1, Page(s) 32, of the Public Records of Broward County, Florida.

   And

   The East 185 feet of the alley in Block 27 of Hollywood Lakes Section, according to the Plat thereof, recorded in Plat Book 1, Page 32, of the Public Records of Broward County, Florida; and being that portion of such alley abutting Lot 11 of said Block 27, extending from the Westerly line of South 12th Avenue to a line parallel to South 12th Avenue and 185 feet Westerly from said Westerly line of South 12th Avenue.

2. That the properties described herein will be developed for the proposed use Clara and Patricia Cantor private Residence (type and project name) in accordance with the site plan approved pursuant to Resolution No. 13-CV-93.

3. The aforesaid plot or combination of separate lots, plots, parcels, acreage or portions thereof shall hereafter be regarded and is hereby declared to be unified under one title as an indivisible building site (hereinafter referred to as "Property").

4. The said Property, for the purpose of building, zoning and other applicable codes and regulations, shall henceforth be considered as one parcel of land and that no portion shall be sold, assigned, transferred, conveyed or devised except in its entirety as one plot or parcel of land; provided, however, that recordation of a mortgage on any portion of the Property shall not be deemed to be in contravention of this Declaration.

5. The undersigned further agrees that this Declaration of Unity of Title shall constitute a covenant to run with the land, as provided by law, and shall be binding upon the undersigned, their successors and assigns, and all parties claiming under

them until such time as the same may be released in writing under the approval of the City Commission of the City of Hollywood.

6. The undersigned also agrees that this instrument shall be recorded in the Public Records of Broward County.

IN WITNESSS WHEREOF, the said property owner has signed and sealed these presents this 26 day of January, 2015.

Signed, sealed and delivered
in the presence of:

_____ sign
(witness 1) Juan Carlos Diez print

_____ sign
(witness 2) Nico Belha print

Owner(s) Name

_____
CLARA CANTOR, a/k/a Carol Cantor

_____
PATRICIA CANTOR

STATE OF FLORIDA)
SS:
COUNTY OF BROWARD)

The foregoing instrument was acknowledged before me this January 26 2015, by Clara Cantor a/k/a Carol Cantor and Patricia Cantor who are known to me or who have produced DL as identification.

_____ sign
M. Victoria Abondano print
Notary Public, State of Florida At Large

June 9 / 2015 (Seal)
My Commission Expires: Commission No.

MARIA VICTORIA ABONDANO
Notary Public, State of Florida
Commission #EE101892
My Commission Expires Jun. 09, 2016

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

ECO Windows Systems, LLC
9114 N. W. 106th Street,
Medley, FL 33178

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 600 Aluminum Outswing Doors-L.M.I.

APPROVAL DOCUMENT: Drawing No. **W12-08**, titled "Series 600 Alum Outswing Entrance Door (L.M.I.)", sheets 1 through 9 of 9, prepared by AL-Farooq Corporation, dated 02/13/12 and last revised on Jun 28, 2012, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitation:

1. See Single or Double Door Design Pressure (DP) ratings in sheet 2 and Single or Double Door DP ratings with sidelites (w/wo Reinforcement) in sheet 3. The max door leaf width shall not to exceed 37".
2. Laminated glass types G1 and G2 are limited to .090" DuPont's PVB and glass type G3 is limited to Insulated laminated glass w/ .090" Solutia interlayer.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

2/19/13

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections
2. Drawing No. **W12-08**, titled "Series 600 Alum Outswing Entrance Door (L.M.I.)", sheets 1 through 9 of 9, prepared by AL-Farooq Corporation, dated 02/13/12 and last revised on Jun 28, 2012, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

   along with marked-up drawings and installation diagram of an aluminum Outswing French door, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-12-3357, HETI-12-3358, HETI-12-4003, HETI-12-4003 and HETI-12-4027**dated 03/16-26/12, all signed and sealed by Rafael E. Droz-Seda, P. E.
   Note: The above referenced test reports have been revised by an addendum letter dated June 29, 2012, issued by Hurricane Engineering & Testing, Inc., signed and sealed by Rafael E. Droz-Seda, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by Al Farooq Corporation, dated 03/30/12 and last revised on June 28, 2012, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTME-1300-02 & -04.

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**Butacite ® PVB interlayer**", expiring on 12/11/16.
2. Notice of Acceptance **No. 11-0325.05** for "Saflex clear & color interlayer" issued to Solutia Inc., expiring on 05/21/16.
3. XL Edge seal System 201 SS spacer by Cardinal IG.

F. STATEMENTS

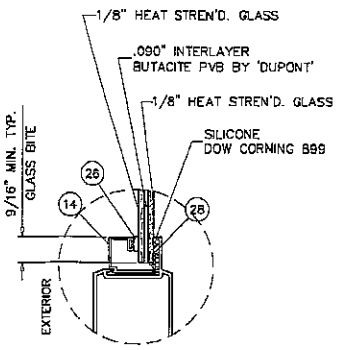
1. Statement letter of conformance and letter of no financial interest, prepared by Al Farooq Corporation, dated 03/30/12, signed and sealed by Javad Ahmad, P.E.
2. Addendum letter dated June 29, 2012, issued by Hurricane Engineering & Testing, Inc., signed and sealed by Rafael E. Droz-Seda, P. E.
3. Lab compliance as part of the above referenced test report.

G. OTHER

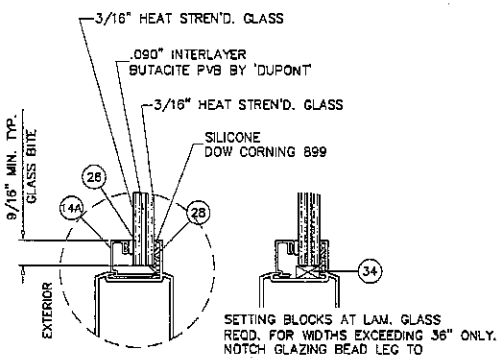
1. Test proposal, dated 10/14/11 and 02-21-12 approved by PERA.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 12-0402.03
Expiration Date: July 19, 2017
Approval Date: July 19, 2012



GLASS TYPE 'G1'



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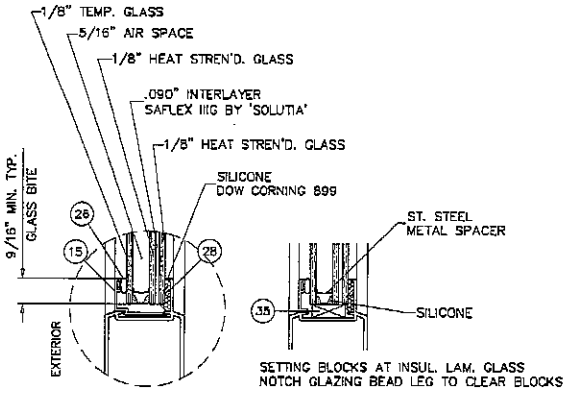


GLASS TYPE 'G3'

SERIES 600
ALUMINUM OUTSWING ENTRANCE DOOR

SINGLE (X) AND DOUBLE (XX) LEAF DOORS SEE SHEET 2.
SINGLE AND DOUBLE LEAF DOORS WITH SIDELITES SEE SHEET 3.
LOWER VALUES FROM SIDELITE CAPACITY CHART OR DOOR CAPACITY WILL APPLY TO ENTIRE SYSTEM.

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

Approved as complying with the Florida Building Code
Date: July 9, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By: Shaq I. Hamid

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1236 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.L.)

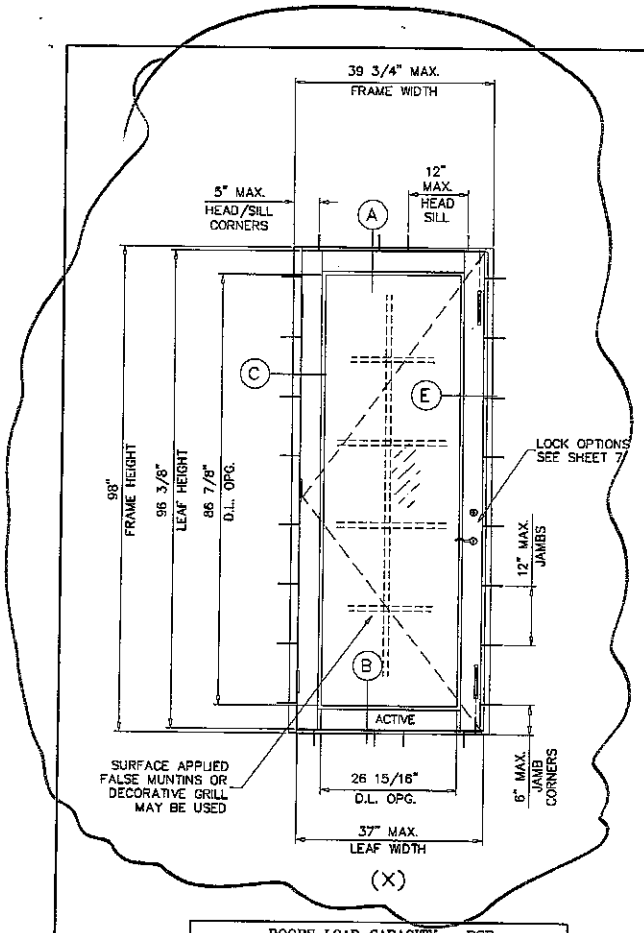
ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:

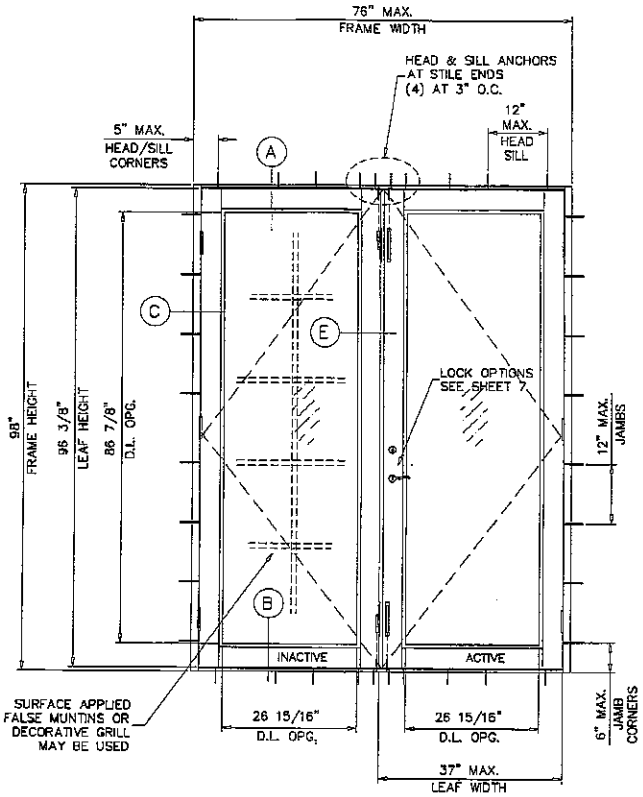
no	date	by	description
A	06.26.12		REV. PER PERA COMMENTS

date: 02-13-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-08
sheet 1 of 9



(X)



(XX)

DOORS LOAD CAPACITY – PSF SINGLE DOORS (X)				
DOOR DIMS.			LAMINATED GLASS	
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	EXT.(+)	INT.(–)
39–3/4"	37"	98"	70.0	75.0

DOORS LOAD CAPACITY – PSF DOUBLE (XX)				
DOOR DIMS.			LAMINATED GLASS	
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	EXT.(+)	INT.(–)
76"	37"	98"	70.0	75.0

GLASS D.L.O. DIMS.

D.L.O. HEIGHT = FRAME HEIGHT – 11.125"
D.L.O. WIDTH (X DOORS) = FRAME WIDTH – 12.813"
D.L.O. WIDTH (XX DOORS) = (FRAME WIDTH – 22.125")/2

approval as complying with the Florida Building Code
Date: JUN 19, 2017
NOA# 12-0403.03
Miami-Dade Product Control
By: Ishaq I. Chanda

NOTE:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–04 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3838

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (LMI.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5999 FAX (305) 885-5902

revisions:

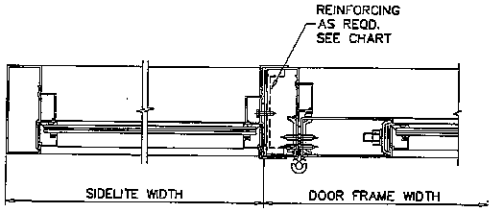
no	date	by	description
A	06.26.12		REV. PER PERA COMMENTS

date: 02-13-12
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W12-08

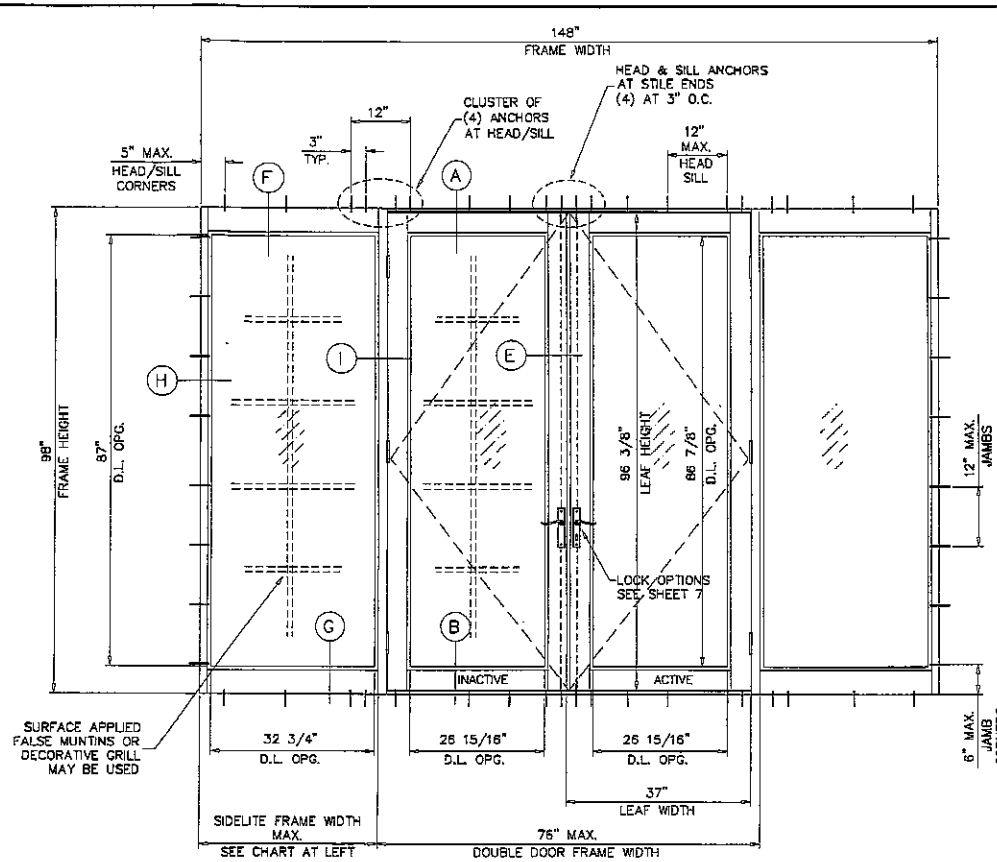
sheet 2 of 9

DESIGN LOAD CAPACITY – PSF SIDELITES WITH SINGLE OR DOUBLE LEAF DOORS (SEE NOTE BELOW)					
SIDELITE FRAME WIDTH INCHES	SIDELITE FRAME HEIGHT INCHES	WITHOUT REINFORCING		WITH REINFORCING	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24	82	70.0	75.0	70.0	75.0
30		70.0	75.0	70.0	75.0
36		70.0	75.0	70.0	75.0
37		70.0	75.0	70.0	75.0
42		61.7	66.1	61.7	66.1
24	86	70.0	75.0	70.0	75.0
30		70.0	75.0	70.0	75.0
36		70.0	75.0	70.0	75.0
37		70.0	75.0	70.0	75.0
42		61.7	66.1	61.7	66.1
24	92	70.0	75.0	70.0	75.0
30		69.8	69.8	70.0	75.0
36		64.1	64.1	70.0	75.0
37		63.3	63.3	70.0	75.0
24	98	63.3	63.3	70.0	75.0
30		57.8	57.8	70.0	75.0
36		53.1	53.1	70.0	75.0
37		52.4	52.4	70.0	75.0



NOTE:
FOR DOORS CAPACITIES SEE SHEET 2.
FOR SIDELITE CAPACITIES SEE CHART ABOVE.
LOWER VALUES FROM DOOR OR SIDELITE CHART WILL APPLY TO ENTIRE SYSTEM.

GLASS D.L.O. DIMS.
D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT – 11.000"
D.L.O. WIDTH (SIDELITE) = FRAME WIDTH – 4.438"



(OXXO)

Approved as complying with the Florida Building Code
Date July 19, 2012
NOA# 12-0412.03
Miami-Dade Product Control
By Shaq J. Hamide

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–04 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP–ANL\W12–08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885–5299 FAX (305) 885–5902

revisions:

no.	date	by	description
A	08.28.12		REV. PER PCFA COMMENTS

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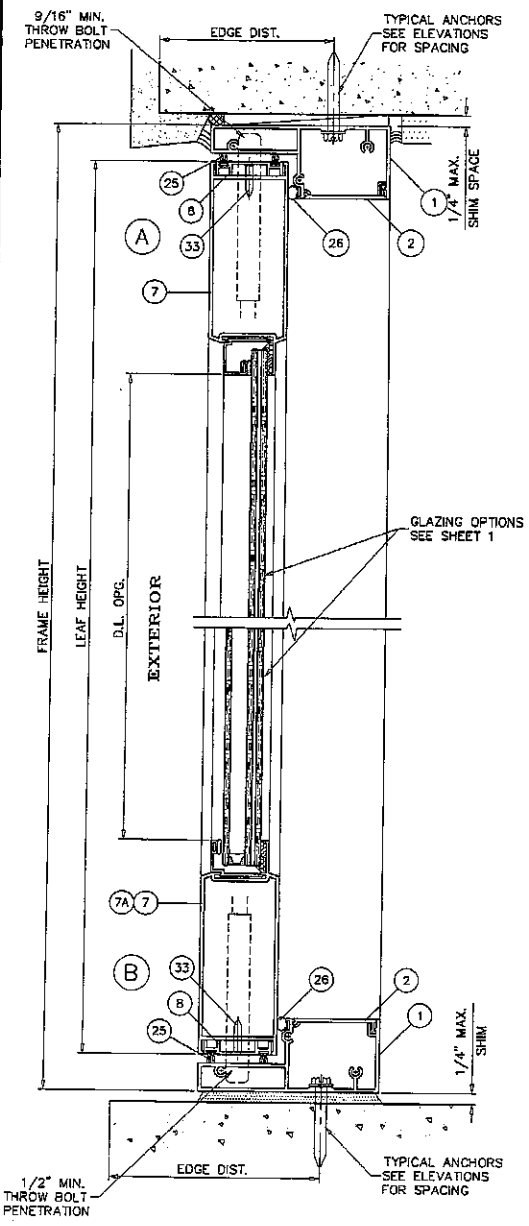
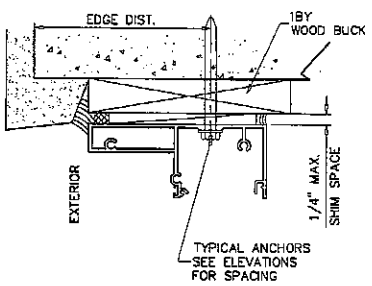
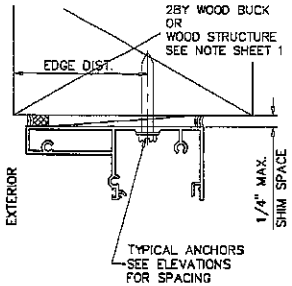
scale: 1/2"=1'–0"
dr. by: HMID
chk. by:

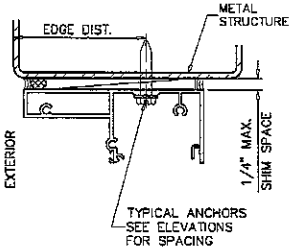
drawing no.
W12–08

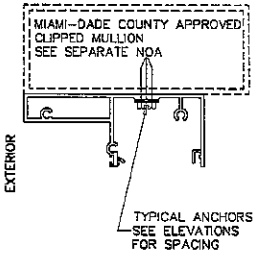
sheet 3 of 9











WOOD BUCKS AND METAL STRUCTURE NOT BY ECO WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

Approved as complying with the Florida Building Code
Date July 9, 2012
NOA# 12-0402.03
Miami Dade Product Control
By Greg I. Grande

DOOR DETAILS

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3658

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-9978
COMP-ANL\W12-08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

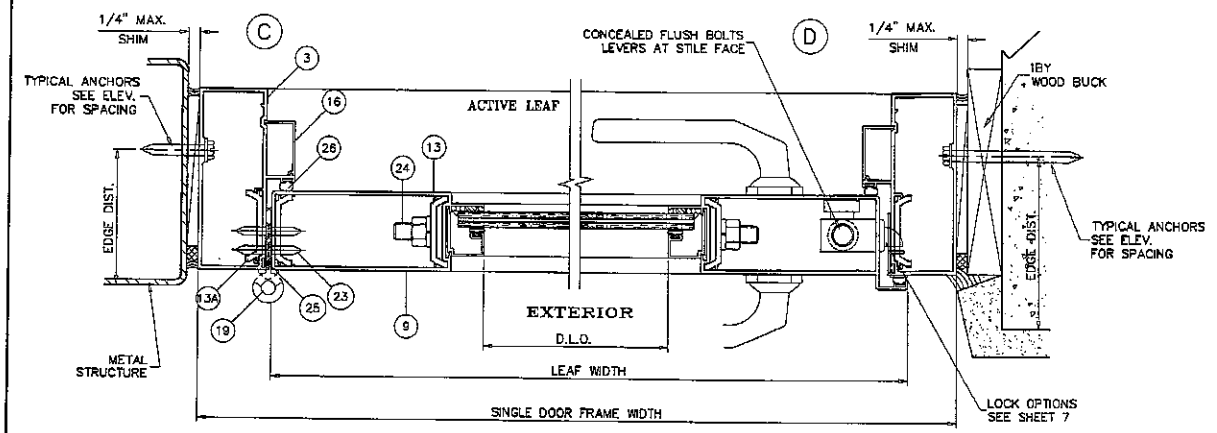
ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

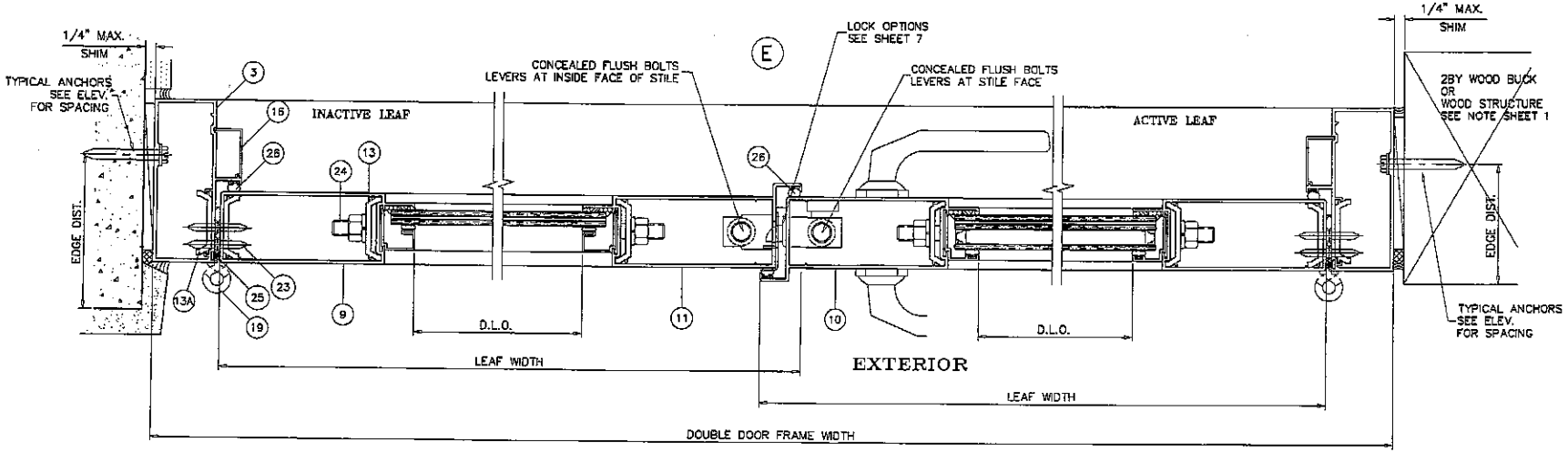
revisions:			
no	date	by	description
A	05.28.12		REV. PER PERA COMMENTS

date: 02-13-12
scale: 3/8" = 1'
dr. by: HAMID
chk. by:

drawing no.
W12-08

sheet 4 of 9





Approved as complying with the Florida Building Code
Date: July 19, 2012
NOA#: 12-0402.03
Miami-Dade Product Control
By: Ishaq I. Chanda

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

DOOR DETAILS

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1236 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-08ECO

SERIES 600 ALUM. OUTSWING ENTRANCE DOOR (LMI.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:

no	date	by	description
A	06.26.12		REV. PER PERA COMMENTS

date: 02-13-12
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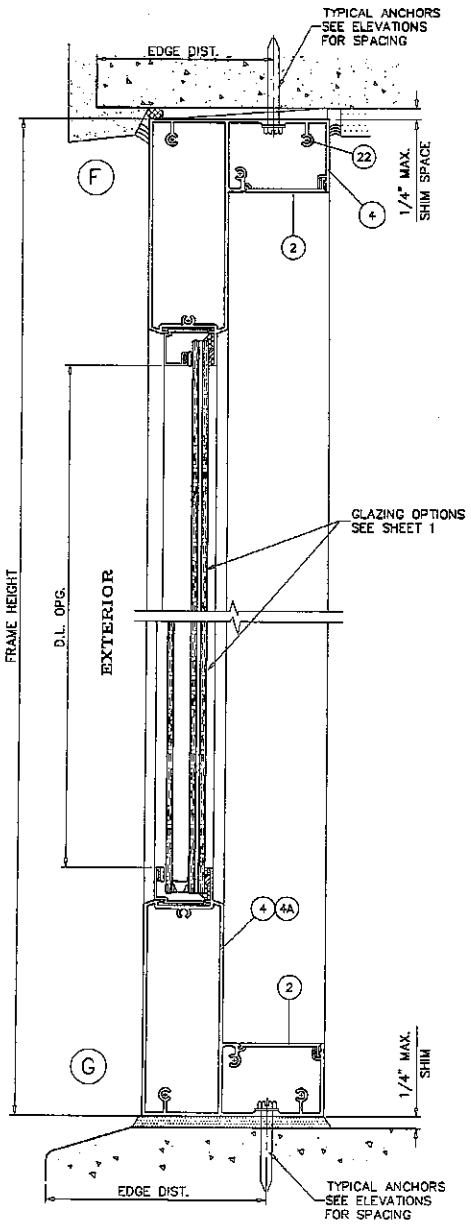
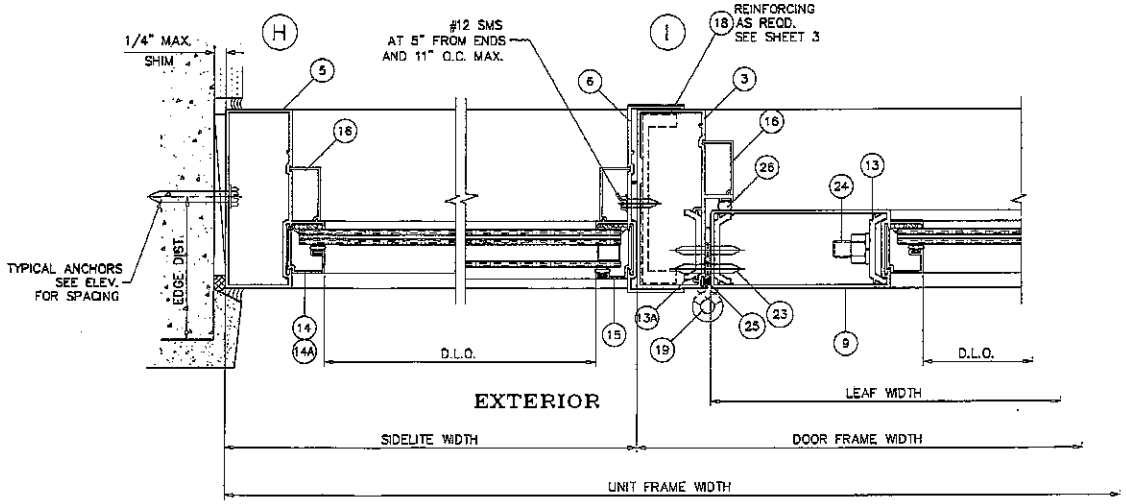
chk. by:

drawing no. W12-08

sheet 5 of 9





Approved as complying with the Florida Building Code
Date July 19, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

SIDELITE DETAILS

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 97 AVE
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TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.L.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:

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date: 02-13-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-08

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E601	–	DOOR FRAME HEAD/SILL	6063–T6	–
2	E602	–	FRAME COVER	6063–T6	–
3	E603	–	DOOR FRAME JAMB	6063–T6	–
4	E604	–	SIDELITE TOP & BOTTOM FRAME	6063–T6	–
4A	E626	–	SIDELITE 9" BOTTOM FRAME	6063–T6	–
5	E605	–	SIDELITE FRAME JAMB	6063–T6	–
6	E606	–	SIDELITE SLIP ON JAMB	6063–T6	–
7	E607	–	LEAF TOP & BOTTOM RAIL	6063–T6	–
7A	E625	–	LEAF 9" BOTTOM RAIL	6063–T6	–
8	E608	–	LEAF W'STRIP ADAPTER	6063–T6	–
9	E609	–	LEAF HINGE STILE	6063–T6	–
10	E610	–	LEAF LOCK STILE	6063–T6	–
11	E611	–	LEAF ASTRAGAL STILE	6063–T6	–
12	E612	–	LEAF ALIGNMENT BRACKET	6063–T6	–
13	E613	–	LEAF CLAMP	6063–T6	4–1/4" LONG
13A	E613	–	HINGE BACK–UP PLATE	6063–T6	12" LONG
14	E614	–	GLAZING BEAD (5/16" LAM. GLASS)	6063–T6	–
14A	E109	–	GLAZING BEAD (7/16" LAM. GLASS)	6063–T6	–
15	E615	–	GLAZING BEAD (INSUL. GLASS)	6063–T6	–
16	E616	–	SNAP COVER	6063–T6	–
17	E613	–	BOLT SUPPORT	6063–T6	NOT SHOWN
18	–	AS REQD.	SIDELITE MULLION REINFORCING	6063–T6	–
19	FD–107	3/ LEAF	BUTT HINGES	ALUMINUM	SULLIVAN & ASSOC.
20	FB1202	–	FLUSH BOLT LEVER	–	SULLIVAN & ASSOC.
21	FBR914SS	–	CONCEALED FLUSH BOLT ROD	ST STEEL	SULLIVAN & ASSOC.
22	#12 SMS	AS REQD.	FRAME ASSEMBLY SCREWS	–	–
23	#12 X 3/4"	–	HINGE INSTALLATION FASTENERS	–	FH SMS
24	–	–	3/8" DIA. THREADED ROD	STEEL	–
25	W11323	–	PILE W'STRIPPING	WOOL	ULTRAFAB
26	E20618–KN–3020	–	BULB W'STRIPPING	SANTOPRENE	EPDM
27	E206	–	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
28	–	–	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
29	E622	–	FLUSH BOLT CUP	NYLON	–
30	DL01RC	–	BLACK BOLT SUPPORT BLOCK	POLYETHYLENE	INTERLOCK
31	DL01WB	–	WHITE BOLT SUPPORT BLOCK	POLYETHYLENE	ACME PLASTIC
33	#10 X 3/4"	2/ ADAPTER	FH SELF DRILLING SCREWS	–	–
34	–	2/ LITE	SETTING BLOCK, 1/4" X 1/2" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5
35	–	2/ LITE	SETTING BLOCK, 1/4" X 3/4" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5

LOCKS:

OPTION #1:

ACTIVE LEAF:

4 POINT LOCK ASSEMBLY DL01–6007 BY 'INTERLOCK USA INC.'
(2) LOCKING POINTS ENGAGING AT INACTIVE LEAF
1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME AT HEAD AND SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK LOCATED AT 42–1/2" FROM BOTTOM

INACTIVE LEAF:

2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.'
1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME AT HEAD AND SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK LOCATED AT 42–1/2" FROM BOTTOM

OPTION #2:

ACTIVE LEAF:

CONVENTIONAL DOOR LOCKSET WITH HANDLE
DELTA 690 BY 'KWIKSET' LOCATED AT 39–1/4" FROM BOTTOM
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR THROW BOLT LOCATED AT 44–3/4" FROM BOTTOM

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'
1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE
LOCATED AT 10–5/8" FROM TOP AND BOTTOM
LOCK FASTENED TO STILE WITH (2) #8–32 X 1/2" FH MS

INACTIVE LEAF:

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'
1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
MANUALLY OPERATED LEVERS MOUNTED ON INSIDE FACE
OF LEAF STILE LOCATED AT 10–5/8" FROM TOP AND BOTTOM
LOCK FASTENED TO STILE WITH (2) #8–32 X 1/2" FH MS

NOTE: LOCKS MUST BE ENGAGED DURING PERIODS OF HURRICANE WARNING.

HINGES:

3–1/2" X 7–5/8" X .122" THK. EXTRUDED ALUM HINGE
PART #FD–107 BY SULLIVAN & ASSOC.
3 HINGES PER LEAF
BOTTOM HINGE AT 10–1/4" FROM BOTTOM
TOP HINGE AT 11–3/4" FROM TOP
CENTER HINGE AT MIDSPAN (38" O.C. MAX.)
HINGES FASTENED WITH #10 X 1" FH SMS
(5) SCREWS AT HINGE STILE
(6) SCREWS AT FRAME JAMB

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE MOREHEAD JM5504 SEALANT.

Approved as complying with the Florida Building Code
Date 10/19/2012
NOA# 12-0402.03
Miami Dade Product Control
By Isaac L. Chanda

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
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TEL (305) 264-8100 FAX (305) 262-6978
COMP–ANL\W12–08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885–5299 FAX (305) 885–5902

revisions:

no	date	by	description
A	06.26.12		REV. PER PERM. COMMENTS

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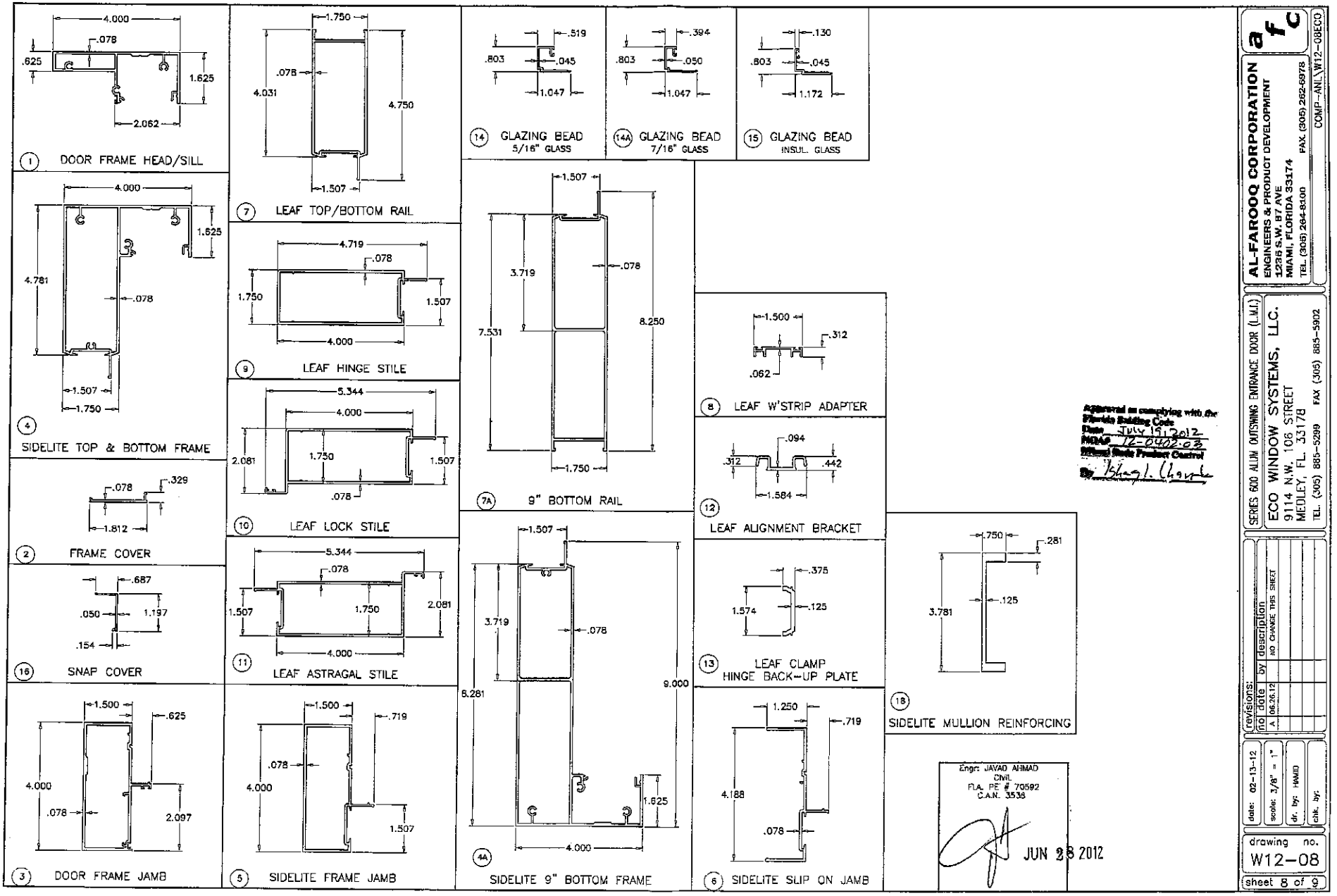
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12–08
sheet 7 of 9



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Date JULY 19 2012
FEA/BAC 12-0402.03
Miami-Dade Product Control
By Ishaq I. Chanda

Engr: JAVAD AHMAD
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FLA. PE # 70592
C.A.N. 3538
JUN 28 2012

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revisions:

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A	06.26.12		NO CHANGE THIS SHEET

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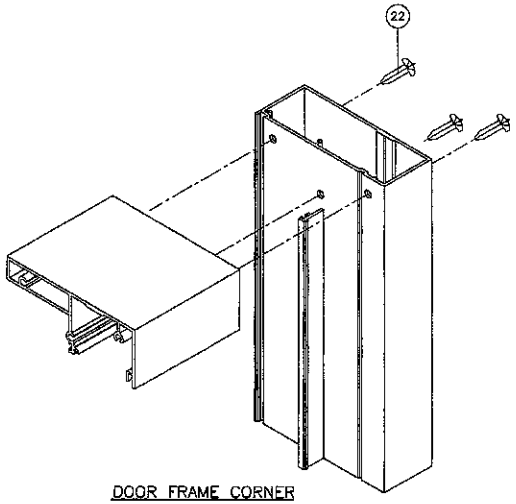
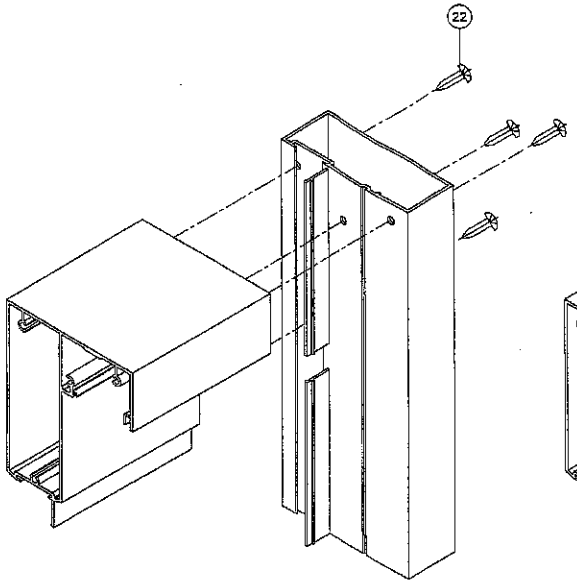
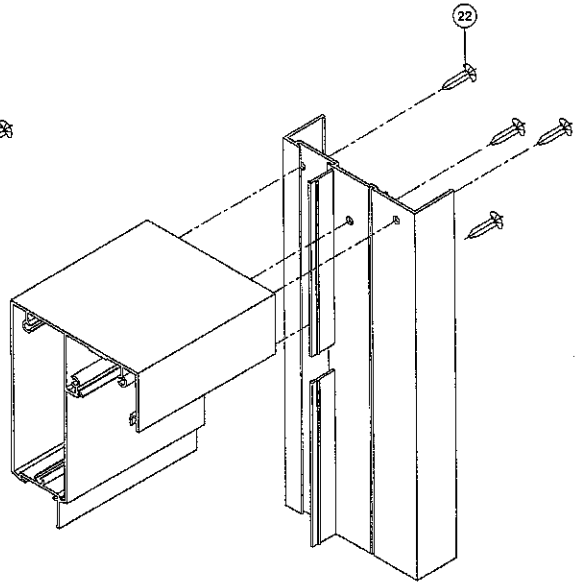


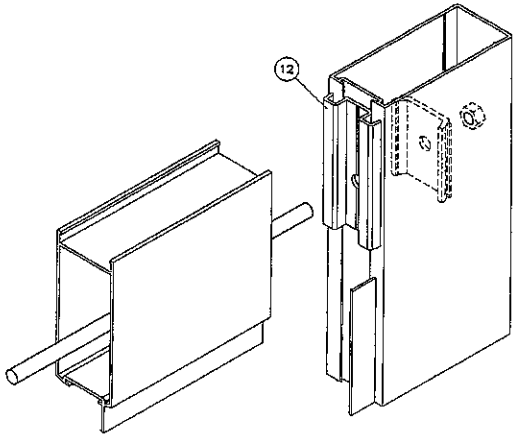
DOOR FRAME CORNER



SIDELITE FRAME CORNER



SIDELITE SLIP ON JAMB CORNER



LEAF CORNER

Approved as complying with the Florida Building Code
Date 7/19/2012
NOA# 12-0402.06
Miami-Dade Product Control
By Ishaq Hamid

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70582
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
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chk. by:

drawing no.
W12-08

sheet 9 of 9

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Direct Set" Aluminum Clad Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1287**, titled "Aluminum Clad Wood Direct Set Impact Windows", sheets 01 through 04 of 04, dated 12/20/03, with revision **"F1"** dated 09/16/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA No. 13-0919.08** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

J. Gascon 6/15/14

NOA No. 14-0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's dic drawings and sections.
   (Submitted under NOA's No.'s 04–0322.11, 10–0223.02 and 12–0308.34)
2. Drawing No **1287**, Sheets 01 through 04 of 04, titled "Aluminum Clad Wood Direct Set Impact Windows", dated 12/20/03, with revision "**F1**" dated 09/16/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed windows with IGU, prepared by Element Materials Technology, Test Report No. **TCT008189P.rev**, specimens #1 through #11, dated 01/05/12, revised on 02/14/12, signed and sealed by Jason Steen, P. E.
   (Submitted under previous NOA No. 12–0308.34)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI 97274.01–201–18**, dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
   (Submitted under NOA No, 10–0223.02)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201–94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Reports No.'s **ATI 97275.01–201–18** and **ATI 97276.01–201–18**, dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
   (Submitted under NOA No. 10–0223.02)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum elad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW–180–6691**, dated 12/15/03, signed and sealed by John D. Lee, P. E.
   (Submitted under NOA No. 04–0322.11)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC, dated 02/27/12, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 12–0308.34)
2. Glazing complies with **ASTM E1300–04/ 09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11–0624.02** issued to **E.I. DuPont DeNemours & Co.**, Inc. for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with the **FBC 5th Edition (2014)**, dated 04/15/14, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of conformance, complying with the **FBC–2010**, dated 09/03/13, signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)
3. Statement letter of no financial interest, dated 09/04/13, signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)
4. Laboratory compliance letter for Test Report No. **TCT008189P.rev**, issued by Element Materials Technology, LLC, dated 02/14/12, signed and sealed by Jason Steen, P. E.
   (Submitted under previous NOA No. 12–0308.34)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

F. STATEMENTS (CONTINUED)

5. Laboratory compliance letter for Test Reports No.'s **ATI 97274.01–201–18, ATI 97275.01–201–18** and **ATI 97276.01–201–18,** all issued by Architectural Testing, Inc., dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
(Submitted under previous NOA No. 10–0223.02)

6. Laboratory compliance letter for Test Report No. **TCTCW–180–6691,** issued by Stork Twin City Testing Corporation, LLC, dated 12/15/03, signed and sealed by John D. Lee, P. E.
(Submitted under previous NOA No. 04–0322.11)

G. OTHERS

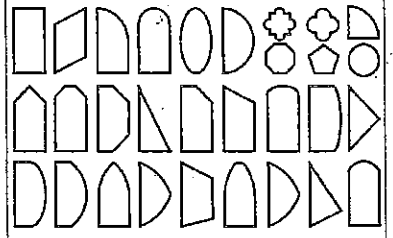
1. Notice of Acceptance No. **13–0919.08,** issued to Pella Corporation for their Series "**Direct Set Aluminum Clad Wood Fixed Window – L.M.I.**", approved on 11/28/13 and expiring on 06/24/19.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

GENERAL NOTES:

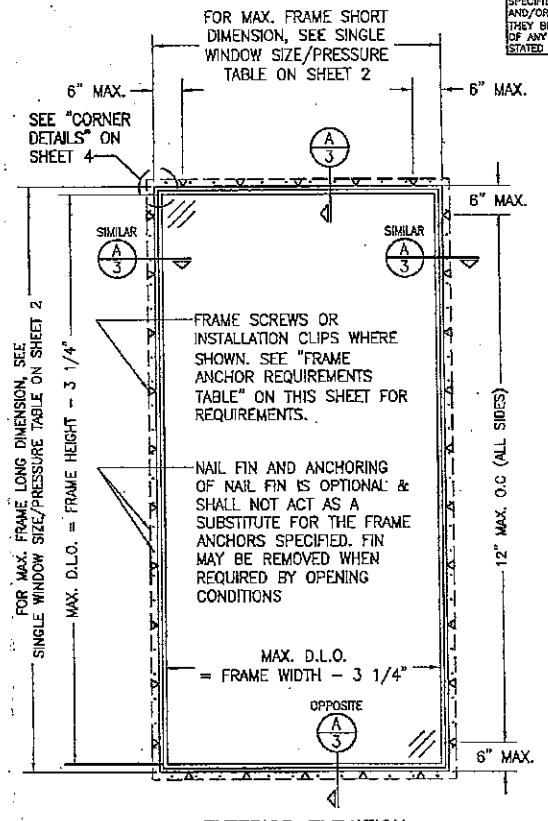
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCALS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

APPROVED SHAPES



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION PER CORNER DETAILS.
2. ALL UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE LOAD TABLE DIMENSIONS (SEE SHEET 2) & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE UNIT SIZE IN THE LOAD TABLE.
3. RECTANGULAR WINDOWS SHOWN. ANCHORING OF SHAPED WINDOWS IS THE SAME WITH REQUIRED ANCHOR SPACING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.



EXTERIOR ELEVATION:
SINGLE FIXED WINDOW
SCALE: 1/2" = 1'-0"
(RECTANGULAR WINDOW SHOWN, SHAPED WINDOWS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON THIS SHEET)

ALLOWABLE DESIGN PRESSURE
SEE LOAD TABLE ON SHEET 2

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
(2) INSTALLATION CLIP SCREWS (STANDARD BENT CONDITION)			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	(2) N/A
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A
INSTALLATION CLIP SCREWS (ALTERNATE STRAIGHT CONDITION)			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
(2) STANDARD BENT CLIP INSTALLATION SCREWS SHALL BE POSITIONED WITHIN 1/4" OF THE BUCK/SUBSTRATE EDGE AND, IF INTO WOOD, ANGLED 20 TO 30 DEGREES INTO THE BUCK.

EDGE DISTANCE MAY BE DECREASED TO 1/2" IF SCREWS ARE ANGLED 15 TO 20 DEGREES AWAY FROM THE EDGE.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.13
Expiration Date 06/24/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0919.09
Expiration Date June 24, 2019
By Manuel Perez
Miami Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR NATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO 2004 CODE COMPLIANT	WWS	08/05/05
B1	UPDATE TO PRESENT FBC	WWS	02/28/09
C1	CHANGE GLAZING COMPOUND	WWS	02/17/10
D1	UPGRADE TO CURRENT STANDARDS	WRH	12/09/11
E1	UPDATE FOR NOA TESTING	WRH	02/14/12
F1	UPDATE GLAZING BEAD	WRH	08/16/13

DRAWN BY: K.P.S. PLOT: 1=24
CHECKED BY: W.W.S. DATE: 12/20/05

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE 561-744-5424

SEP 16 2013

WARREN W. SCHAEFER, P.E. P.E. NO. 44135

DRAWING NO. 1287 REV. F

SHEET NO. 1 OF 4

ALLOWABLE SIZE/PRESSURE TABLE

WINDOW FRAME DIMENSION		ALLOWABLE DESIGN PRESSURE (PSF)															
MAX. LONG SIDE (IN.)	MAX. SHORT SIDE (IN.)	GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTION 4		GLASS OPTION 5		GLASS OPTION 6		GLASS OPTION 7		GLASS OPTION 8	
		POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
120	60	50.3	50.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54.6	54.6	60.0	60.0
	54	56.3	56.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	48	63.6	63.6	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	38	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	25	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	21	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0
108	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56.2	56.2	60.0	60.0
	60	55.9	55.9	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	61.5	61.5	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	48	69.8	69.8	75.0	75.0	N/A	N/A	52.7	52.7	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	28	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	23	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
105	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56.8	56.8	60.0	60.0
	60	57.9	57.9	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	63.4	63.4	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	52	66.0	66.0	75.0	75.0	N/A	N/A	55.3	55.3	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	71.8	71.8	75.0	85.0	N/A	N/A	59.7	59.7	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	43	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	29	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	24	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
98	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	57.9	57.9	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	62.3	62.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	68.4	68.4	75.0	75.0	N/A	N/A	58.3	58.3	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	47	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	30	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	26	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	59.2	59.2	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	63.7	63.7	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	69.7	69.7	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	31	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	26	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
84	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	73.1	73.1	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	36	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	30	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
79	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	39	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	36	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	32	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
74	74	71.6	71.6	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	66	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	40	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	34	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

ALLOWABLE SIZE/PRESSURE TABLE

WINDOW FRAME DIMENSION		ALLOWABLE DESIGN PRESSURE (PSF)															
MAX. LONG SIDE (IN.)	MAX. SHORT SIDE (IN.)	GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTION 4		GLASS OPTION 5		GLASS OPTION 6		GLASS OPTION 7		GLASS OPTION 8	
		POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
73	73	73.4	73.4	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	66	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	35	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
66	66	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	45	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	38	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
60	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	50	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
55	55	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	46	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
50	50	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

1. ALL SIZES IN TABLE ARE BASED ON TESTED SIZES & DO NOT EXCEED THE WINDOW AREA TESTED.
2. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT GLASS OPTION.
3. SEE GLAZING DETAILS FOR GLASS OPTIONS.
4. LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0428.13
Expiration Date 06/24/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0919.08
Expiration Date June 24, 2019
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: K.P.S. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 12/20/13

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

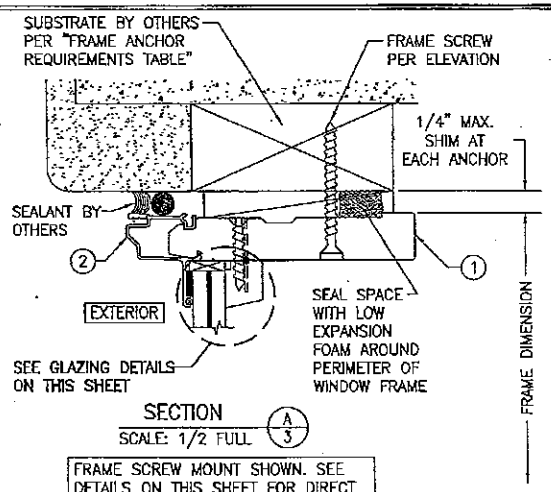
MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424

CERTIFICATION: SEP 16 2013 WARREN W. SCHAEFER, P.E. NO. 44135

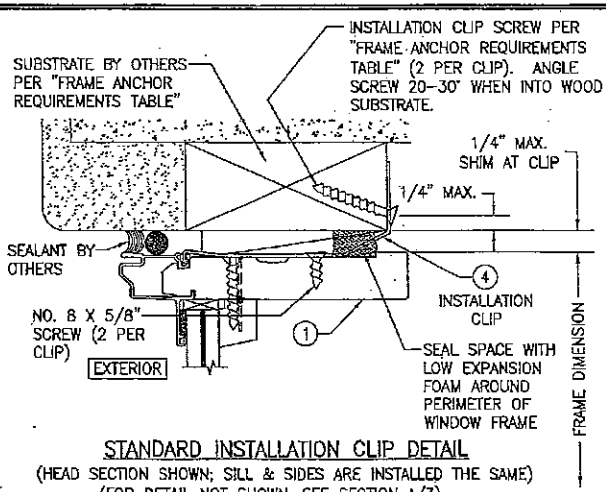
DRAWING NO. 1287 | REV. F

SHEET NO. 2 OF 4

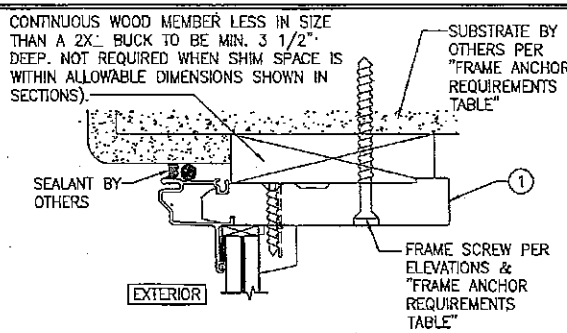


SECTION A/3
SCALE: 1/2 FULL

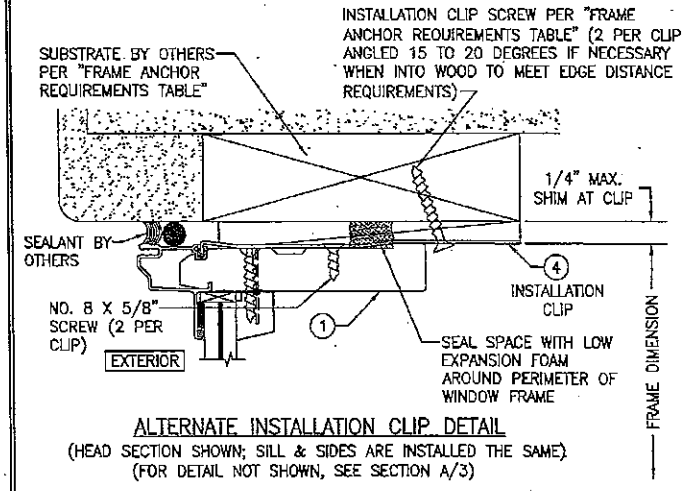
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON THIS SHEET FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



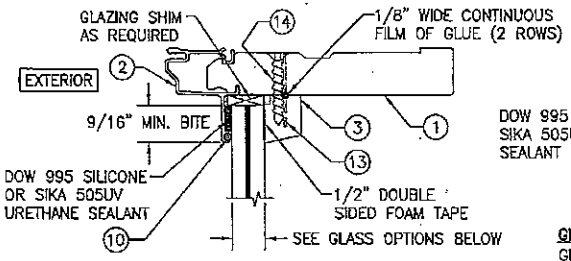
STANDARD INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)

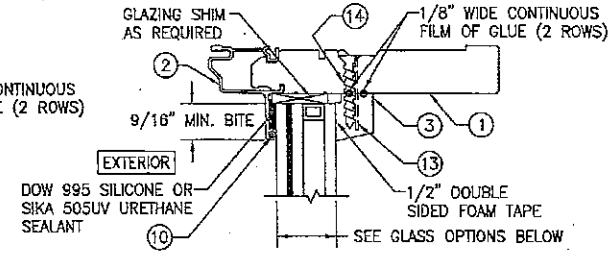


ALTERNATE INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)



TYPICAL MONOLITHIC GLAZING DETAIL

GLASS OPTIONS:
GLASS OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09" DUPONT SG/1/4" AN.)
GLASS OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09" DUPONT SG/1/4" HT. ST.)
GLASS OPTION 3: 7/16" THICK LAMINATED GLASS (3/16" AN./0.09" DUPONT BUTACITE PVB/3/16" AN.)



TYPICAL I.G. GLAZING DETAIL

GLASS OPTIONS:
GLASS OPTION 4: 1" THICK I.G. GLASS (3/16" AN./0.09 DUPONT SG/3/16" AN. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 5: 1" THICK I.G. GLASS (3/16" AN./0.09 DUPONT BUTACITE PVB/3/16" AN. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 6: 1" THICK I.G. GLASS (3/16" HT. ST./0.09 DUPONT SG/3/16" HT. ST. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 7: 1 1/4" THICK I.G. GLASS (1/4" AN./0.09 DUPONT SG/1/4" AN. EXTERIOR; 3/8" SPACER; 1/4" TEMP. INTERIOR)
GLASS OPTION 8: 1 1/4" THICK I.G. GLASS (1/4" HT. ST./0.09 DUPONT SG/1/4" HT. ST. EXTERIOR; 3/8" SPACER; 1/4" TEMP. INTERIOR)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.13
Expiration Date 06/22/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0919.08
Expiration Date June 14, 2019
By
Miami Dade Product Control

WARREN W. SCHAEFER * ENGINEER * LICENSE Nr 14135 STATE OF FLORIDA * PROFESSIONAL

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 12/20/05

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

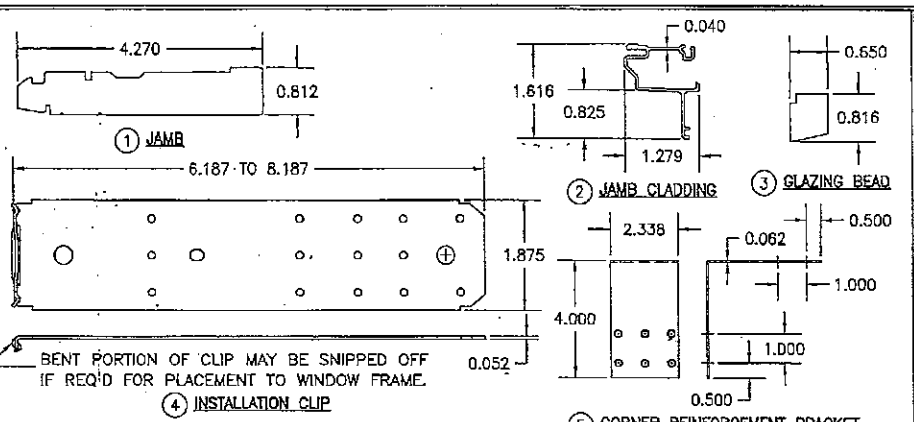
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424

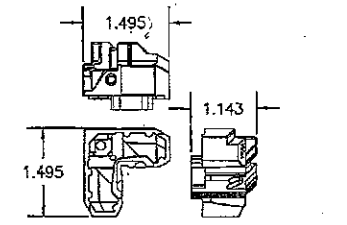
CERTIFICATION: SEP 16 2013
WARREN W. SCHAEFER, P.E. NO. 44135

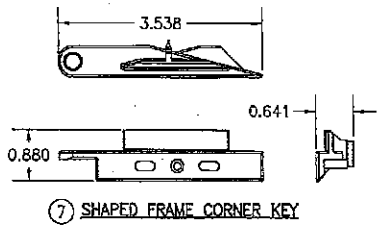
DRAWING NO. 1287 | REV.
SHEET NO. 3 OF 4

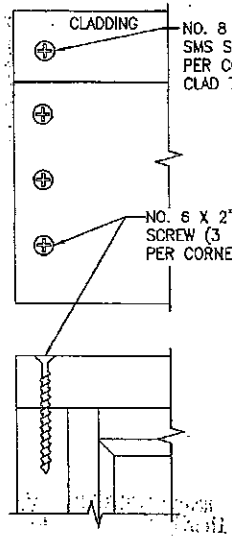
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	JAMB	WOOD
2	JAMB CLADDING	6063–T6 ALUMINUM
3	GLAZING BEAD	WOOD
4	INSTALLATION CLIP	50 KSI STEEL
5	CORNER REINFORCEMENT BRACKET	MIN. 33 KSI GALV. METAL
6	RECTANGULAR FRAME CORNER KEY	NYLON & HYLON
7	SHAPED FRAME CORNER KEY	NYLON & HYLON
	SEALS & SEALANTS	
10	BULB GASKET	PVC
	FASTENERS	
13	1/4" X 1 1/8" 18 GA. STAPLE	WITHIN 2"–4" OF CORNERS & MAX. 6" O.C.
14	NO. 8 X 1 1/4" SMS OR WOOD SCREW	POSITIONED 3", 6", 9" & 12" FROM EACH CORNER

NOTE: WOOD USED IN TESTING WAS PONDEROSA PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PELLA CORP. TO SELECT.

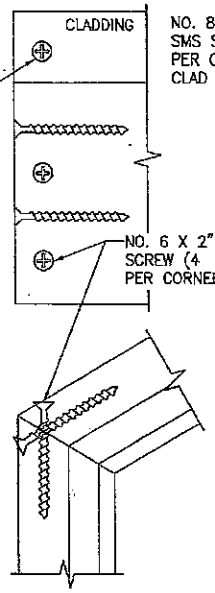




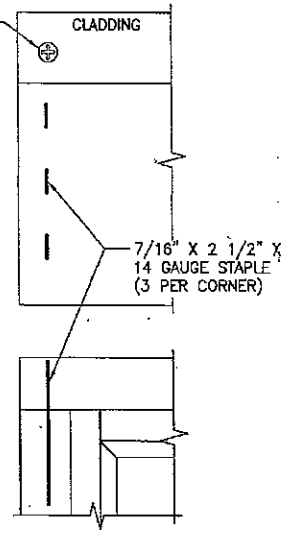




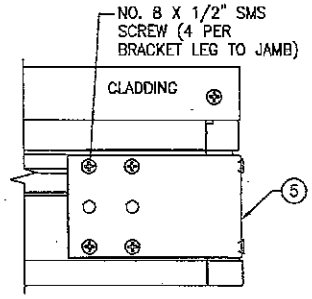
SCREW METHOD CORNER DETAIL FOR 90° CORNERS (INTERIOR VIEW)
NOT TO SCALE



CORNER DETAIL FOR MITERED CORNERS (INTERIOR VIEW)
NOT TO SCALE



STAPLE METHOD CORNER DETAIL FOR 90° CORNERS (INTERIOR VIEW)
NOT TO SCALE



CORNER BRACKET DETAIL
NOT TO SCALE
(ONLY REQUIRED WITH WINDOWS OF SIZE 36 SQUARE FEET & LARGER)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.13
Expiration Date 6/24/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0919.06
Expiration Date JUNE 24, 2016
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE NO 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEP 16 2013

WARREN W. SCHAEFER, P.E. NO. 44135

DRAWN BY: K.P.S. | CHECKED BY: W.W.S.
PLOTS: 1=2 | DATE: 12/20/03

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7460 125TH COURT NORTH, PALM BEACH GDNS., FL 33418, PHONE: 561-744-5424

DRAWING NO. 1287 | REV. F

SHEET NO. 4 OF 4

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "HIG Casement" Aluminum Clad Wood Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1518**, titled "HIG Aluminum Clad Impact Casement Window", sheets 01 through 05 of 05, dated 03/23/07, with revision "C1" dated 06/27/13, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises **NOA No. 13-0829.18** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

J. Gascon 6/18/14

NOA No. 14-0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under previous NOA's No.'s 13–0829.18, 09–1027.05 & 07–0619.12)
2. Drawing No. **1518**, titled "HIG Aluminum Clad Impact Casement Window", sheets 01 through 05 of 05, dated 03/23/07, with revision "**C1**" dated 06/27/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0829.18)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of series/ model HIG IG/ monolithic aluminum clad wood awning window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Element Materials Technology, Inc., Test Report No. **ESP–014011P.Casement.Dade**, dated 08/05/13, signed and sealed by Thomas A. Kolden, P. E.
   (Submitted under previous NOA No. 13–0829.18)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94

   along with marked–up drawings and installation diagram of series/ model HIG IG/ monolithic Aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–93260.01–201–18**, dated 09/15/09, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA No. 09–1027.05)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201–94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of series/model HIG IG/monolithic aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–93328.01–201–18**, dated 08/24/09, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA No. 09–1027.05)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202–94

   along with marked–up drawings and installation diagram of series/model HIG IG/monolithic aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–71262.08–201–18,** dated 05/27/07, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA No. 07–0619.12)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, dated 10/21/11, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 12–0620.11)
2. **Glazing complies with ASTM E1300–04/ 09**

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their **"DuPont Butacite® PVB Interlayer"** dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. **11–0624.02** issued to **E.I. DuPont DeNemours & Co.,** Inc. for their **"DuPont SentryGlas® Interlayer"** dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

1. Statement letter of conformance and complying with **FBC 5th Edition (2014),** issued by W. W. Schaefer Engineering & Consulting, P.A., dated 04/15/14, signed and sealed by Warren W. Schaefer, P. E.
2. Laboratory compliance letter for Test Report No. **ESP–014011P.Casement.Dade,** issued by Element Materials Technology, Inc., dated 08/05/13, signed and sealed by Thomas A. Kolden, P. E.
   (Submitted under previous NOA No. 13–0829.18)
3. Proposal issued by Product Control, 03/26/13, signed by Jaime D. Gascon, P. E.
   (Submitted under previous NOA No. 13–0829.18)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

4. Statement letter of conformance and complying with **FBC–2010**, dated 10/21/11, signed and sealed by Warren W. Schaefer, P.E.
   (Submitted under previous NOA No. 12–0620.11)
5. Statement letter of no financial interest, dated 10/19/11, signed and sealed by Warren W. Schaefer, P.E.
   (Submitted under previous NOA No. 12–0620.11)
6. Laboratory compliance letters for Test Reports No.'s **ATI–93260.01–201–18, ATI–93328.01–201–18** and **ATI–71262.08–201–18,** all issued by Architectural Testing, Inc., dated 09/15/09 and 08/25/09, all signed and sealed by Joseph A. Reed, P. E.
   (Submitted under previous NOA's No.'s 07–0619.12 and 09–1027.05)

G. OTHERS

1. Notice of Acceptance No. **13–0829.18**, issued to Pella Corporation for their Series **"HIG Casement Aluminum Clad Wood Casement Window – L.M.I."**, approved on 11/07/13 and expiring on 11/15/17.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF KD = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR CD = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

CORNER CONSTRUCTION

FRAME CORNERS: THE SIDE WOOD MEMBERS ARE BUTTED TO THE HEAD & SILL MEMBERS & SECURED WITH THREE(3) 14 GAGE 7/16" X 2 1/2" STAPLES. CLADDING IS MITERED TOGETHER, JOINED WITH A PLASTIC CORNER KEY PART NO. 77U00000 & SEALED WITH BUTYL DEVAN 578.12 OR BOSTIK 900 POLYURETHANE SEALANT. EACH CLADDING MEMBER IS SECURED TO THE KEY WITH 1 NO. 10 X 17/32" FH SCREW (2 TOTAL PER CORNER)

SASH CORNERS:

OPTION 1: MORTISE & TENON CONSTRUCTION. A 1/8" BEAD OF BOSTIK CHEM-CALK URETHANE IS PLACED AT THE TENNON BOTTOM SURFACE. WOOD GLUE IS PLACED AT THE TENNON SIDES. THE JOINT IS THEN ASSEMBLED & SECURED WITH ONE 15 GA. X 1 1/2" FINISH NAIL.

OPTION 2: SCREWED CONSTRUCTION. MEMBER ENDS ARE PROFILED AND PARTIALLY TENONED, BUTTED & ADHERED TOGETHER WITH BOSTIC 70-05/70-05A AND THEN SECURED WITH NO. 12 X 4" FH WOOD SCREWS (1 SCREW WITH SASH HEIGHTS LESS THAN 3.5"; 2 SCREWS WITH SASH HEIGHTS 3.5" TO 5 3/8"). THE CLADDING IS TABBED WITH THE TABS MEETING IN A BED OF BOSTIC IN A GROOVE ON THE EXTERIOR SASH FACE RESULTING FROM THE PARTIALLY TENNONED RAIL END.

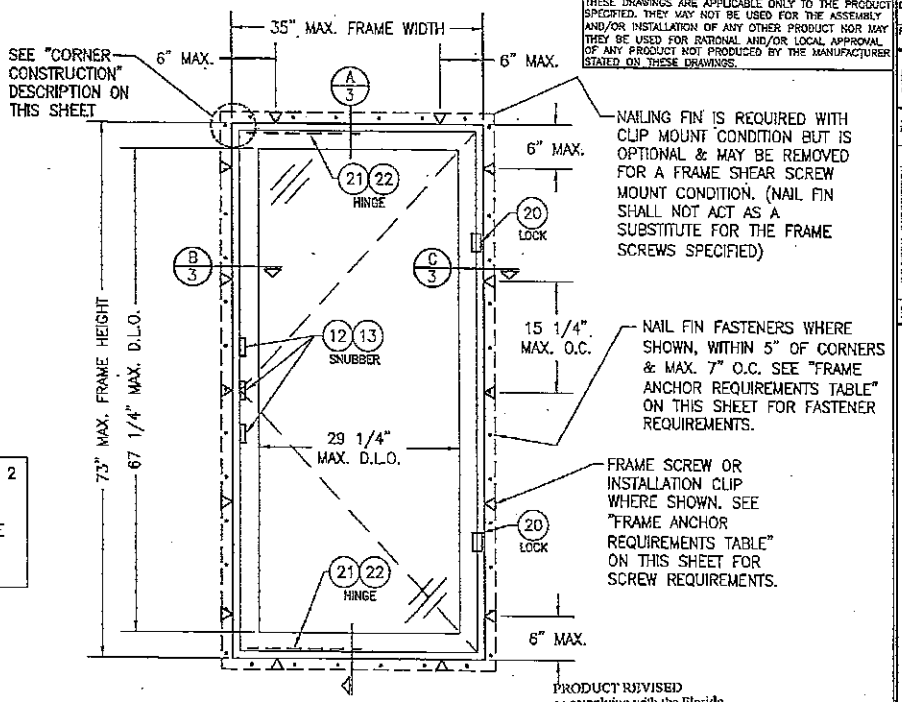
SASH CORNER OPTION 2 WINDOWS ARE LIMITED TO MAXIMUM +/-60 PSF DESIGN PRESSURE (SEE PRESSURE NOTE ON THIS SHEET.)

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	2" X 11 GA. ROOFING NAIL	1 7/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

(2) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.



EXTERIOR ELEVATION:
SINGLE CASEMENT WINDOW
SCALE: 3/4" = 1'-0"

ALLOWABLE WINDOW SIZE VS. PRESSURE TABLE (SINGLE WINDOWS)

GLASS OPTION	MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM FRAME WIDTH (IN.)	ALLOWABLE PRESSURE (PSF) POSITIVE	NEGATIVE
A	73	35	75	75
B	73	35	75	75
	71	32	75	85
	65	35	75	85
C	73	35	75	75
D	73	35	75	75
	71	32	75	85
	65	35	75	85
E	71	32	(*) 64.8	(*) 64.8
	65	35	(*) 69.6	(*) 69.6

(*) WHEN THE 1/8" ANNEALED EXTERIOR PANE OF GLASS IN GLASS TYPE "E" IS SUBSTITUTED WITH 1/8" TEMPERED, THE ALLOWABLE PRESSURE MAY BE INCREASED TO +/-75 PSF.

ALLOWABLE PRESSURE NOTE:

PRESSURES LISTED IN TABLE CONSIDER WINDOWS WITH SASH CORNER CONSTRUCTION OPTION 1. WHEN SASH CORNER CONSTRUCTION OPTION 2 IS USED, ALLOWABLE PRESSURE MAY NOT EXCEED +/-60 PSF REGARDLESS OF PRESSURES SHOWN IN TABLE.

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THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE PER HVHZ TESTING AND CURRENT STANDARDS	WRM	05/29/09
B1	UPDATE TO CURRENT STANDARDS	WRM	10/21/11
C1	UPDATE TO PER HVHZ TESTING	WRM	06/27/13

DRAWN BY: W.R.M. CHECKED BY: W.W.S.
PLOT: 1=1S DATE: 03/23/07

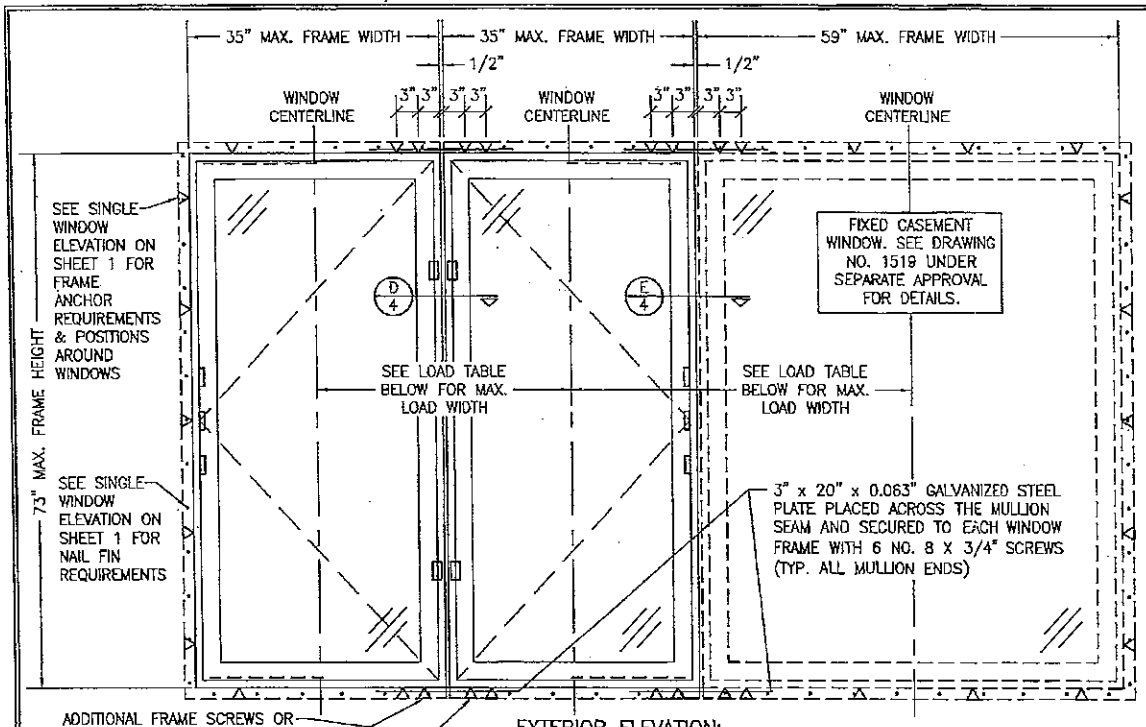
DRAWING TITLE: HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

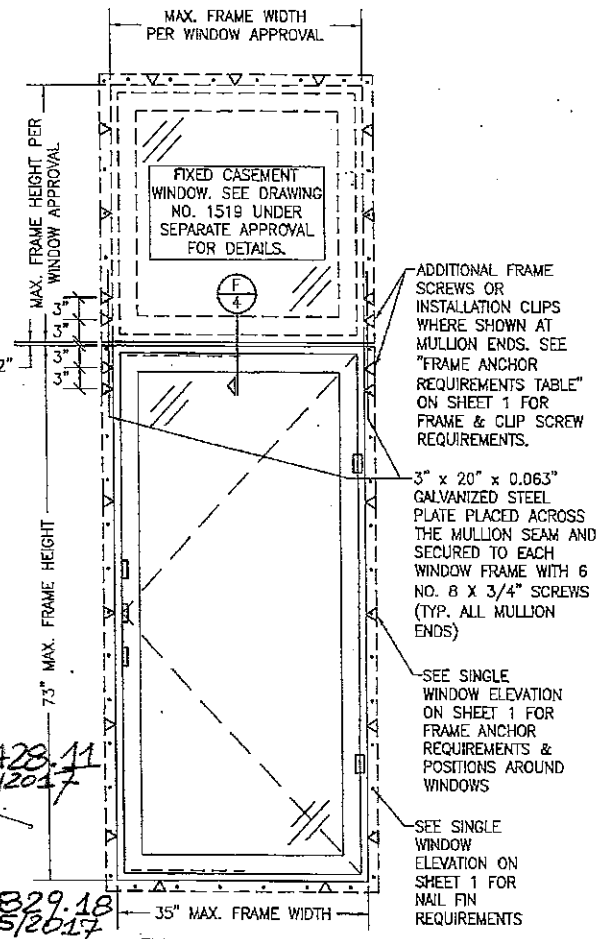
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3494

CERTIFICATION: AUG 27 2013
WARREN W. SCHAEFER P.E. P.E. NO. 44135

DRAWING NO. 1518 REV. C
SHEET NO. 1 OF 5



EXTERIOR ELEVATION:
MULTIPLE CASEMENT/FIXED WINDOW
SCALE: 3/4" = 1'-0"



EXTERIOR ELEVATION:
SINGLE CASEMENT WINDOW WITH TRANSOM
SCALE: 3/4" = 1'-0"

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ALLOWABLE DESIGN PRESSURE TABLE (SIDE BY SIDE WINDOWS)

MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF) MULLION CONDITION "XX"	"XO"
73	47.5	N/A	+75/-75
73	35.5	+75/-75	+75/-75
71	43.5	N/A	+75/-84.2
71	42.5	N/A	+75/-85
71	32.5	+75/-85	+75/-84.2
71	31.5	+75/-85	+75/-85
65	47.5	N/A	+75/-84.2
65	46.5	+75/-85	+75/-85
65	35.5	+75/-85	+75/-84.2
65	34.5	+75/-85	+75/-85

NOTES:
1. LOAD WIDTH IS THE DISTANCE BETWEEN WINDOW CENTERLINES.
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL WINDOW.
3. "XX" = MULLION BETWEEN 2 OPERABLE WINDOWS.
4. "XO" = MULLION BETWEEN AN OPERABLE AND FIXED WINDOW.
5. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT SIZE OPTION.

ALLOWABLE DESIGN PRESSURE (TRANSOM UNIT)

UNIT PRESSURE SHALL BE AS CONTROLLED BY THE INDIVIDUAL WINDOW ALLOWABLE PRESSURES. MULLION DOES NOT CONTROL THIS UNIT.

MULTIPLE UNIT NOTES:
1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERED FROM THE WINDOWS & THEIR MULLIONS.

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: W.R.M. | CHECKED BY: W.W.S. | PLOT: 1=1S | DATE: 03/23/07

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

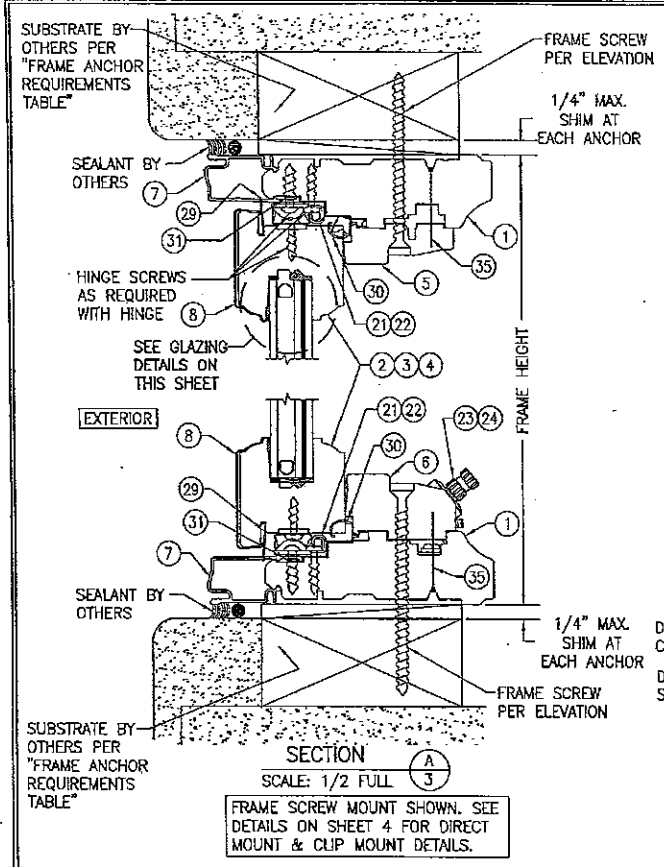
MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7469 155TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3404

CERTIFICATION: AUGUST 7 2013, WARREN W. SCHAEFER P.E. P.E. NO. 44135

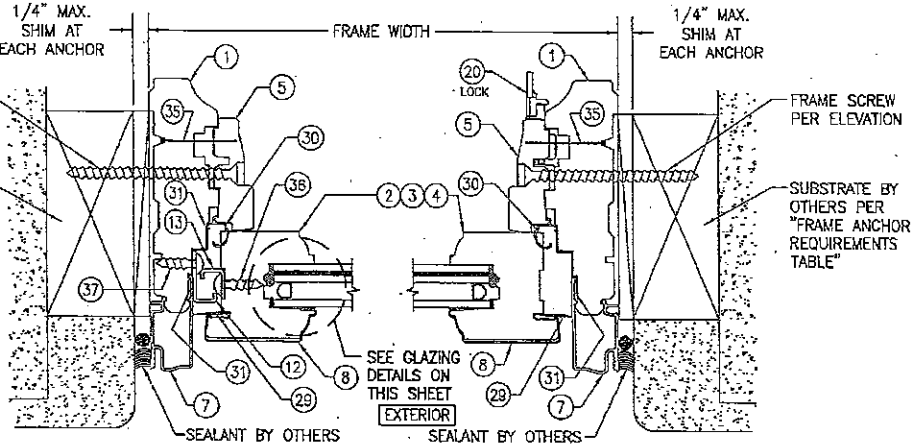
DRAWING NO. 1518 | REV. C

SHEET NO. 2 OF 5



SECTION A / 3
SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.

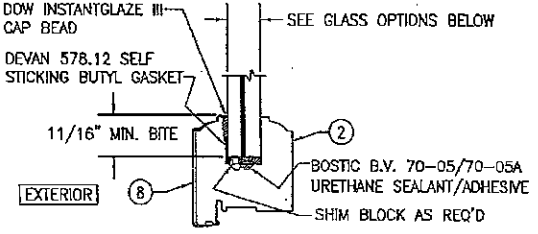


SECTION B / 3
SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.

SECTION C / 3
SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.

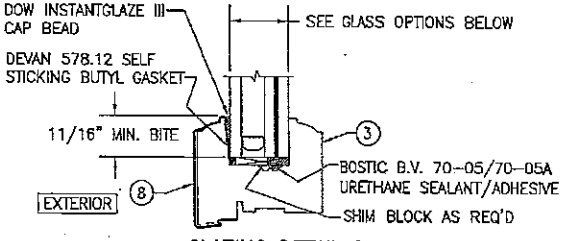


GLAZING DETAIL 1

GLASS OPTIONS:

OPTION A: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09 DUPONT BUTACITE PVB/1/4" AN.)

OPTION B: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09 DUPONT SG/1/4" AN.)



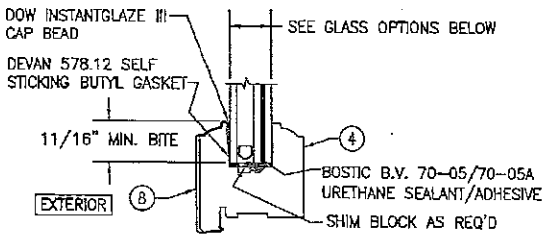
GLAZING DETAIL 2

GLASS OPTIONS:

OPTION C: 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT BUTACITE PVB/5/32" AN. INTERIOR)

OPTION D: 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT SG/5/32" AN. INTERIOR)

1" I.G. GLASS NOTE:
THE EXTERIOR 3/16" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 3/16" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.



GLAZING DETAIL 3

GLASS OPTIONS:

OPTION E: 11/16" THICK LAMINATED I.G. GLASS (1/8" AN. EXTERIOR; 1/4" SPACER; 7/64" AN./0.09 DUPONT BUTACITE PVB/7/64" AN. INTERIOR)

11/16" I.G. GLASS NOTE:
THE EXTERIOR 1/8" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 1/8" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.

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WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 01/23/07

NO.	REVISION DESCRIPTION	BY	DATE

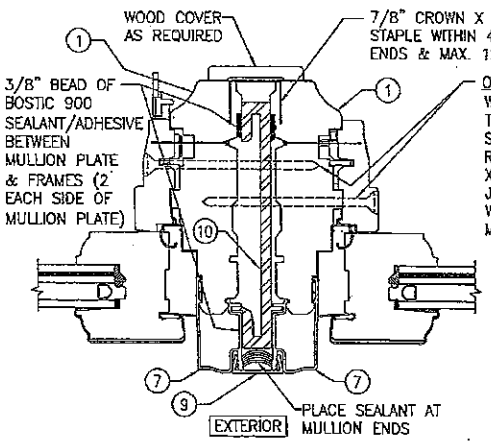
DRAWING TITLE
HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

MANUFACTURER
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

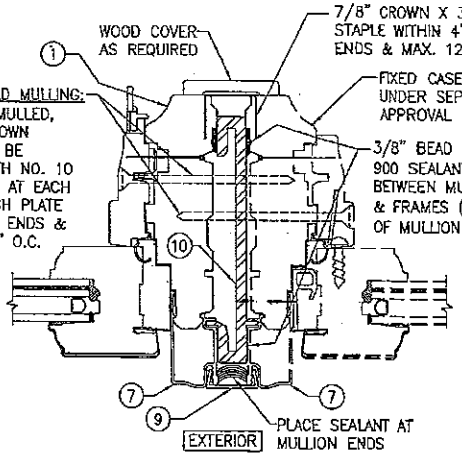
CERTIFICATION
AUG 27 2013
WARREN W. SCHAEFER P.E. NO. 44135

DRAWING NO. 1518 | REV. C
SHEET NO. 3 OF 5



SECTION D/4
SCALE: 1/2 FULL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



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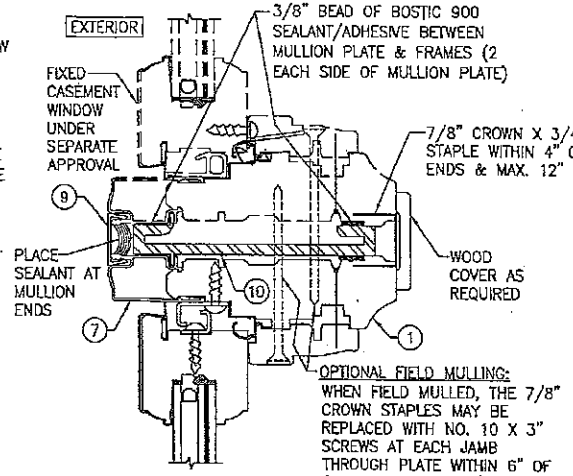

SECTION F/4
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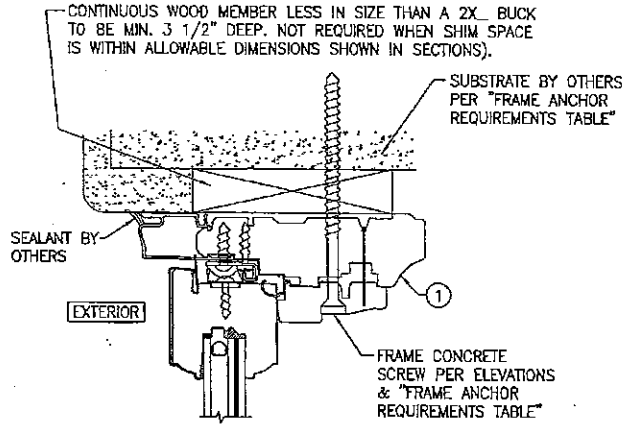
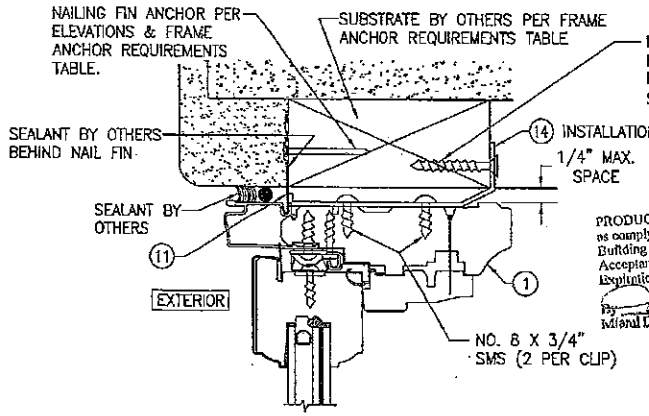


OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL INSTALLATION CLIP/NAIL FIN DETAIL

(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

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DRAWN BY: W.R.D. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 03/23/07

NO.	REVISION DESCRIPTION	BY	DATE

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

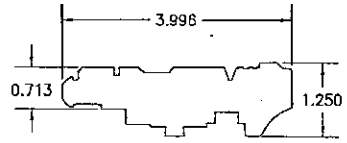
MANUFACTURER

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 8809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE 561-744-3424

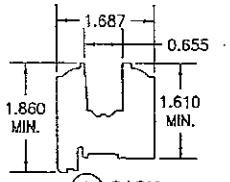
DRAWING TITLE
HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

CERTIFICATION
AUG 27 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

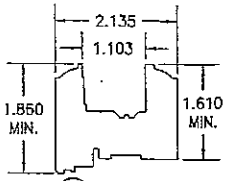
DRAWING NO. 1518 | REV. C
SHEET NO. 4 OF 5



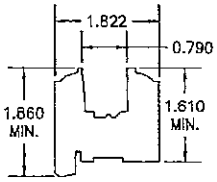
(1) FRAME



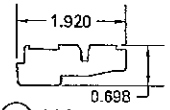
(2) SASH
FOR GLASS OPTIONS "A" & "B"



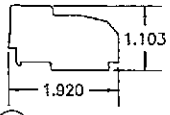
(3) SASH
FOR GLASS OPTIONS "C" & "D"



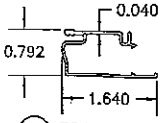
(4) SASH
FOR GLASS OPTION "E"



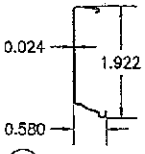
(5) SASH STOP



(6) SASH STOP



(7) FRAME CLAD



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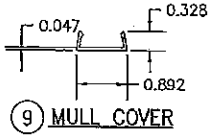
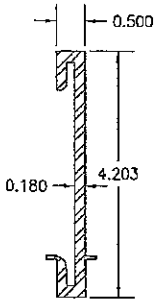
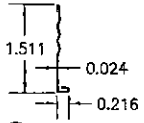


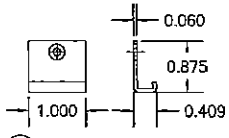
(9) MULL COVER



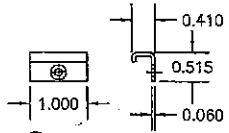
(10) MULLION PLATE



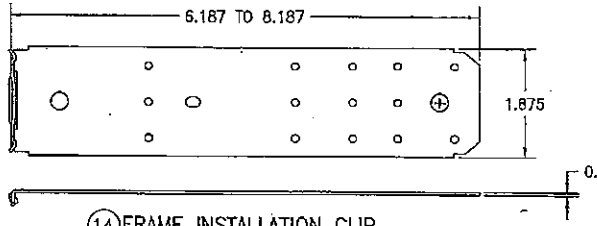
(11) NAIL FIN



(12) FRAME SNUBBER



(13) SASH SNUBBER



(14) FRAME INSTALLATION CLIP

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	FRAME JAMB	WOOD
2	SASH FOR GLASS OPTION A & B	WOOD
3	SASH FOR GLASS OPTION C & D	WOOD
4	SASH FOR GLASS OPTION E	WOOD
5	SASH STOP	WOOD
6	SASH STOP (VENT SILL)	WOOD
7	FRAME CLAD	6063-T6 ALUMINUM
8	SASH CLAD	3003--H14 ALUMINUM
9	MULLION COVER	6063-T6 ALUMINUM
10	MULLION PLATE	6063-T6 ALUMINUM
11	NAIL FIN	3003-H14 ALUMINUM
12	FRAME SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
13	SASH SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
14	INSTALLATION CLIP	50 KSI GALVANIZED STEEL
	HARDWARE	
20	LOCK (2 PER WINDOW)	PELLA #15DR
21	CENTER PIVOT HINGE (USED WITH ROTO OPERATOR)	OVERLAND 1AJC/1AJA
22	SCISSOR HINGE (USED WITH EGRESS OPERATOR)	PELLA 15EA/15E9 (16 GAGE 302/304 S.S.)
23	ROTO OPERATOR	PELLA #2AAX/2AAY
24	EGRESS OPERATOR	PELLA #2ABA
	SEALS & SEALANTS	
29	RAINSTRIP	PELLA PART #75T2 - PVC DUROMETER 75
30	WEATHERSTRIP	PELLA PART #505J - PP/SANTOPRENE 64
31	FRAME CLAD SEALANT	BUTYL
	MISCELLANEOUS FASTENERS	
35	1 3/8" 4D ANNULAR RINGSHANK BOX NAIL	WITHIN 5" OF CORNERS & 4" TO 9" O.C.
36	NO. 8 X 3/4" FH SCREW	1 PER SNUBBER
37	NO. 7 X 3/4" PH SCREW	1 PER SNUBBER

NOTE: WOOD USED IN TESTING WAS WESTERN PINE WITH A SPECIFIC GRAVITY OF G = 0.43 AND A MODULUS OF ELASTICITY OF E = 1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PELLA CORPORATION TO SELECT.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0829.18
Expiration Date 11/15/2017
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0428.11
Expiration Date 11/15/2017
By
Miami Dade Product Control

WARREN W. SCHAEFER P.E. No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

AUG 27 2013

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: W.R.H.
CHECKED BY: W.W.S.
PLOT: 1-2
DATE: 08/22/07

DRAWING TITLE
HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

CERTIFICATION

MANUFACTURER
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE 561-744-5424

DRAWING NO. 1518
REV. C
SHEET NO. 5 OF 5

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Behar Windows, LLC
4006 N. 30th Avenue
Hollywood, FL 33020

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "NOAH 3000" Aluminum Window Wall System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **BW-3000F**, titled "Series NOAH 3000 Fixed Window/Window Wall System (LMI)" sheets 1 thru 5, 6, 6A, and 7 thru 11 of 11, dated 04/18/11, with revision #4 dated 10/22/13, prepared by Stanton Engineering, Inc. signed and sealed by Christopher Stanton, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA# 12-0523.14** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

MIAMI-DADE COUNTY APPROVED

11/22/13

NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

Behar Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **BW-3000F**, titled "Series NOAH 3000 Fixed Window/Window Wall System (L.M.I.)" Sheets 1 thru 5, 6, 6A, and 7 thru 11 of 11, dated 04/18/11, with revision #4 dated 10/22/13, prepared by Stanton Engineering, Inc., signed and sealed by Christopher Stanton, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-0827.01-12**, dated 02/13/13, signed and sealed by Henry Hattem, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-1213.01-10**, dated 02/01/11, signed and sealed by Julio E. Gonzalez, P.E. ***(Submitted under NOA# 11-0427.01)***
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-0908.01-10**, dated 10/06/10, signed and sealed by Julio E. Gonzalez, P.E. ***(Submitted under NOA# 11-0427.01)***

Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Stanton Engineering, Inc., dated 01/28/11, revised on 07/14/11, and revised for compliance of FBC 2010 on 05/21/12, signed and sealed by Christopher Stanton, P.E.
   (Submitted under NOA# 11-0427.01)
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co.**, Inc. for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their **"DuPont Butacite® PVB Interlayer"** dated 04/11/13, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 2010**, dated June 10, 2013, signed and sealed by Christopher Stanton, P.E.
2. Statement letter of no financial interest, dated June 10, 2013, signed and sealed by Christopher Stanton, P.E.
3. Laboratory compliance letter for Test Report No. **ATLSF-0827.01-12**, issued by American Test Lab of South Florida, dated 02/13/13, signed and sealed by Henry Hattem, P.E.
3. Laboratory compliance letter for Test Report No. **ATLSF-1213.01-10**, issued by American Test Lab of South Florida, dated 02/01/11, signed and sealed by Julio E. Gonzalez, P.E.
   (Submitted under NOA# 11-0427.01)
4. Laboratory compliance letter for Test Report No. **ATLSF-0908.01-10**, issued by American Test Lab of South Florida, dated 10/06/10, signed and sealed by Julio E. Gonzalez, P.E.
   (Submitted under NOA# 11-0427.01)

G. OTHER

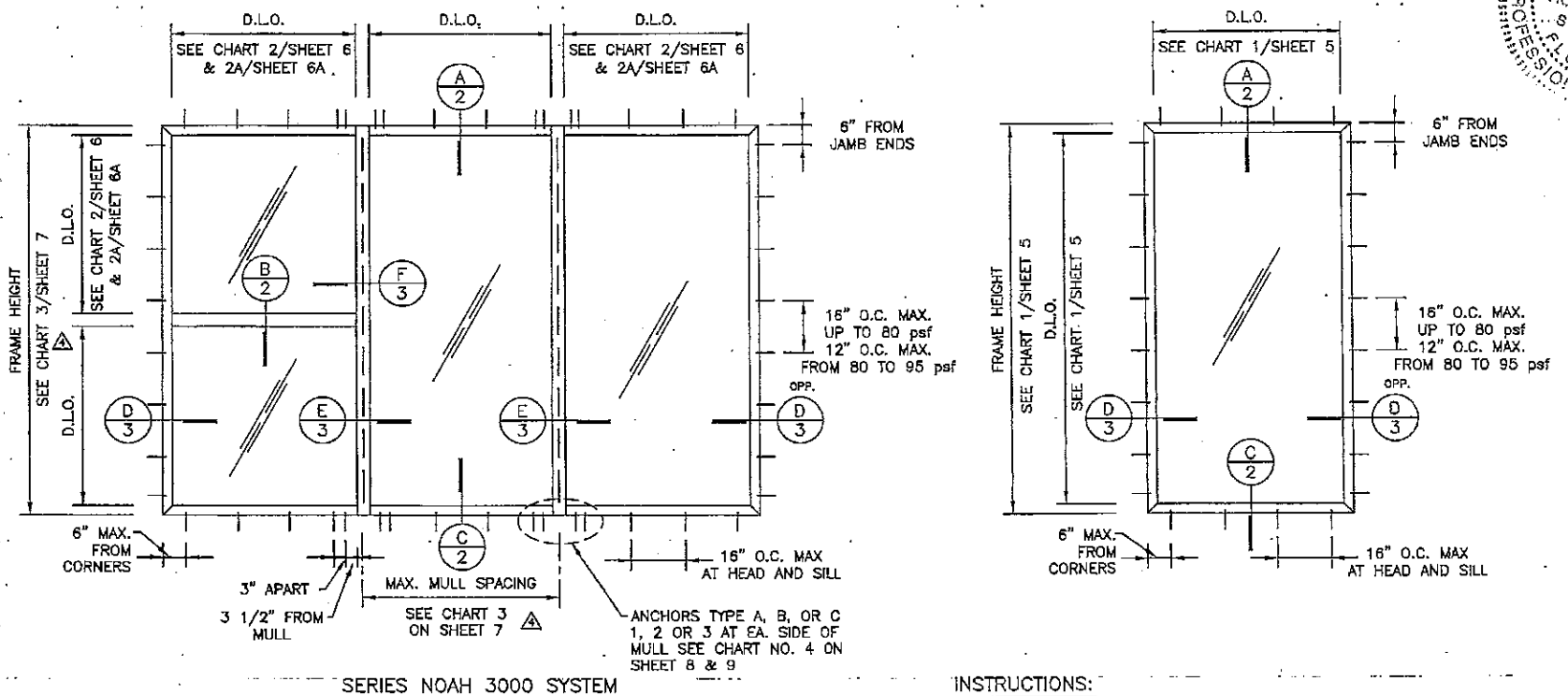
1. Notice of Acceptance No. **12-0523.14**, issued to Behar Windows, LLC for their Series "NOAH 3000" Aluminum Window Wall System – L.M.I., approved on 07/19/12 and expiring on 08/11/16.

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

BEHAR WINDOW SERIES NOAH 3000 WINDOW WALL

TYPICAL ELEVATIONS



SERIES NOAH 3000 SYSTEM

THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 EDITION, INCLUDING HIGH VELOCITY HURRICANE ZONE.

WOOD BUCKS, BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED AND SHOWN ON THE DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A 33% INCREASE IN ALLOWABLE STRESS IS NOT USED IN THE DESIGN OF THIS SYSTEM.

ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2: SEE CHART NO. 1 ON SHEET 5 AND CHART NO. 2 ON SHEET 6 AND CHART 2A ON SHEET 6A FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON FRAME CONFIGURATION AND APPLICABLE WIND DURATION. THE CAPACITY SHOULD EXCEED THE REQUIRED DESIGN LOAD.

STEP 3: CHECK MULLION CAPACITY FOR GIVEN SPACING AND HEIGHT USING CHART NO. 3 ON SHEET 7. ⚠4 THE CAPACITY SHOULD EXCEED THE REQUIRED DESIGN LOAD.

STEP 4: USING CHART NO. 4 ON SHEET 8 & 9, SELECT ANCHOR OPTION WITH DESIGN RATING THAT EXCEEDS THE REQUIRED DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

NO.	DATE		REVISIONS
⚠1	12-22-11		REVISED ANCHOR GROUPS
⚠2	5-21-12		REVISED CODE EDITION
⚠3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
⚠4	10-22-13		REVISED PER COUNTY REVIEW
⚠5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 13-0726.10
Expiration Date Dec 11 2016
By Manuel Perez
Miami Dade Product Control

CHRISTOPHER STANTON * LICENSE * No 69316 * STATE OF FLORIDA * PROFESSIONAL ENGINEER *
Seal: No 69316 STATE OF FLORIDA
NOV 14 2013
CHRISTOPHER STANTON, P.E. FLORIDA P.E. # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

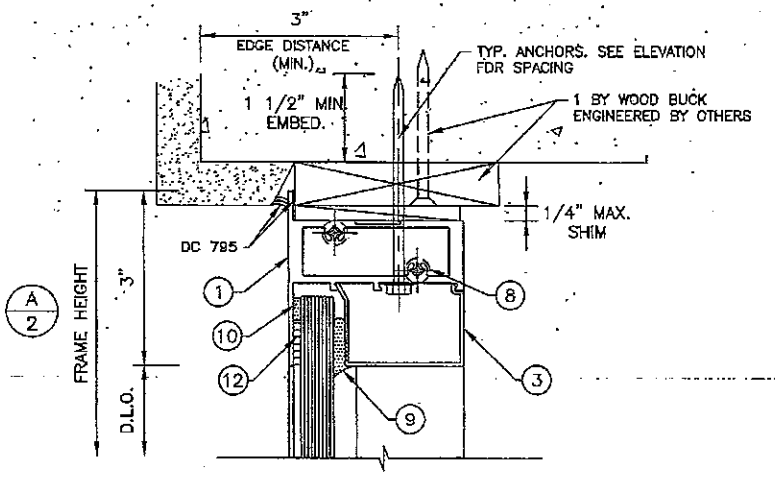
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

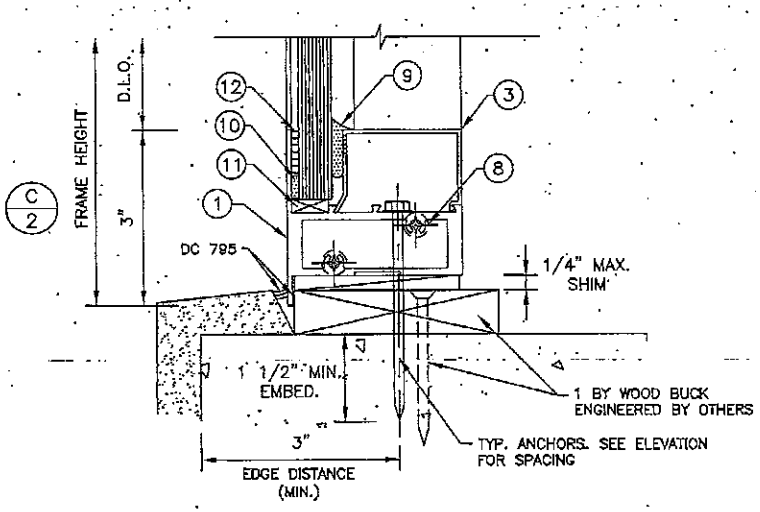
Behar Windows LLC
4008 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5680

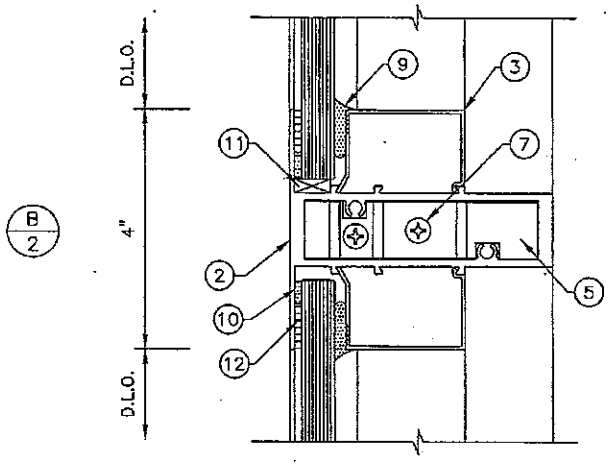
SCALE: NOTED
DATE: 4/19/11
DRAWN BY: DGI
CHECKED BY: C.S.

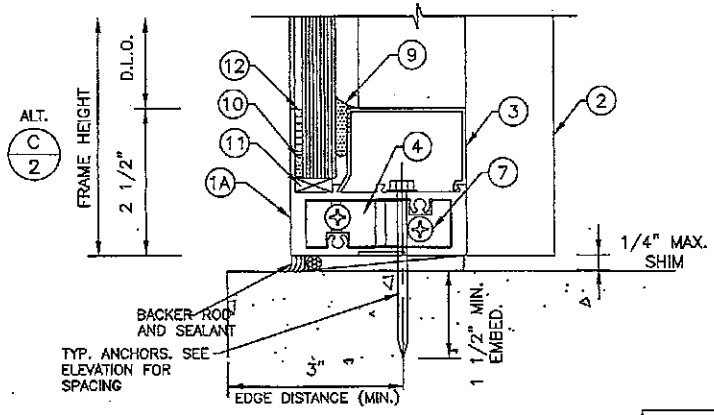
BW-3000 F
DRAWING NO.

SHEET NO.
1 of 11









ALTERNATE INSTALLATION
WITH FLANGE REMOVED
(HEAD, SILL AND JAMB)

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date 2nd Jul 2016
By Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON LIC. STATE OF FLORIDA No. 69316 PROFESSIONAL ENGINEER
SEAL
NOV 1 2013
CHRISTOPHER STANTON P.E.
FLA P.E. # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX (561) 393-1008

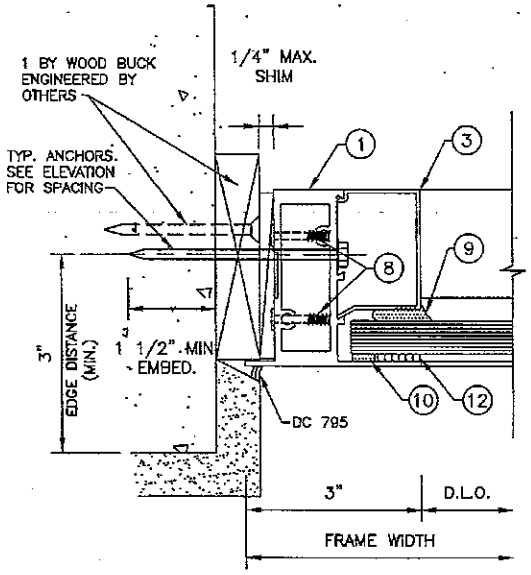
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5660

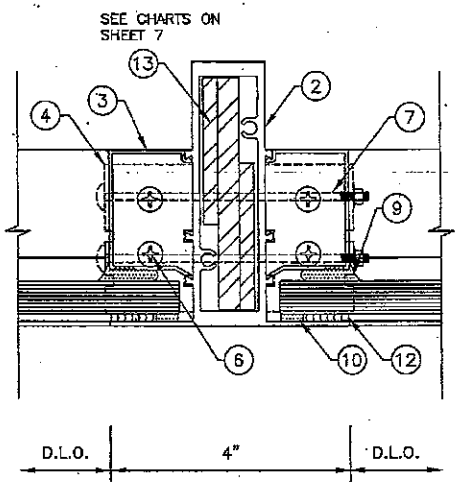
SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

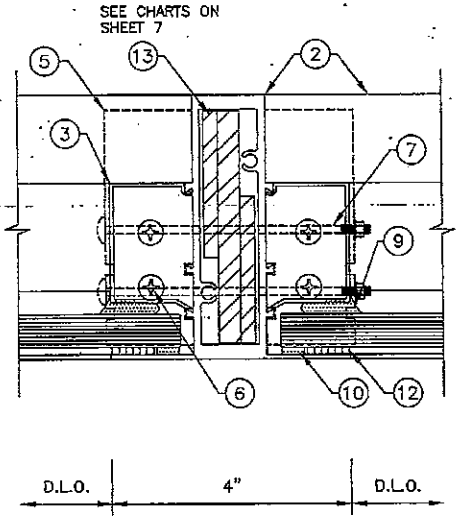
SHEET NO.
2 of 11



D/3



E/3



F/3

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	6-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Oct. 11, 2016
By Manuel Sira
Miami Dade Product Control

CHRISTOPHER STANTON LICENSE No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 11 2013
CHRISTOPHER STANTON P.E. FL P.E. # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

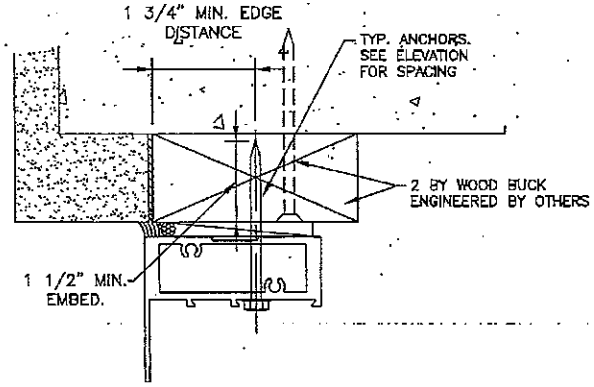
SERIES NOA# 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5660

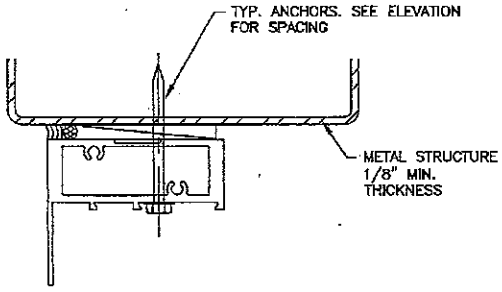
SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	D.S.

BW-3000 F
DRAWING NO.

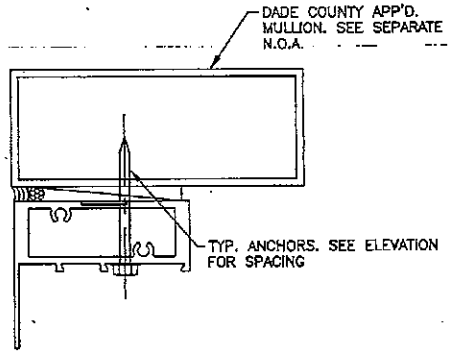
SHEET NO.
3 of 11



ANCHOR TYPE – C



ANCHOR TYPE – B



ANCHOR TYPE – B

WOOD BUCKS NOT BY BEHAR WINDOWS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS:

SEE ELEVATIONS FOR SPACING

TYPE "A"–1/4" ULTRACONS BY ELCO

THRU 1BY WOOD OR 2BY WOOD BUCKS INTO 3000 PSI MIN. CONC. OR C–90 GROUT FILLED BLOCK. 1 1/2" MIN. EMBED. INTO CONC. OR MASONRY

DIRECTLY INTO 3000 PSI MIN. CONCRETE 1 1/2" MIN. EMBED. INTO CONC.

TYPE "B"–#14 SMS OR 1/4" SELF DRILLING SCREWS

INTO METAL STRUCTURES (STEEL OR ALUM. 1/8" MIN. THICK.)

STEEL: Fy – 36 KSI MIN.
ALUMINUM: 6063–T5 MIN.
(STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED)

TYPE "C"–1/4" ULTRACONS BY ELCO

INTO 2BY WOOD BUCKS OR WOOD SUBSTRAIGHTS 1 1/2" MIN. PENETRATION INTO #2 SYP

TYPICAL EDGE DISTANCE

INTO CONC. OR MASONRY = 3" MIN.
INTO WOOD STRUCTURE = 1 3/4" MIN.
INTO METAL STRUCTURE = 3/8" MIN.

4 MINIMUM ANCHOR SPACING

ANCHOR TYPE "A" = 3" MIN.
ANCHOR TYPE "B" = 1" MIN.
ANCHOR TYPE "C" = 2 1/2" MIN.

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	6-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date Aug. 11, 2016
By Miami-Dade Product Control

CHRISTOPHER STANTON P.E. No. 59318 STATE OF FLORIDA PROFESSIONAL ENGINEER NOV 1 1 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5580

SCALE: NOTED
DATE: 4/16/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
4 of 11

CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS PSF

NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (−)	EXT. (+) INT. (−)
26 1/2"	26"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	38 3/8"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	50 5/8"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	63"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	76"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0

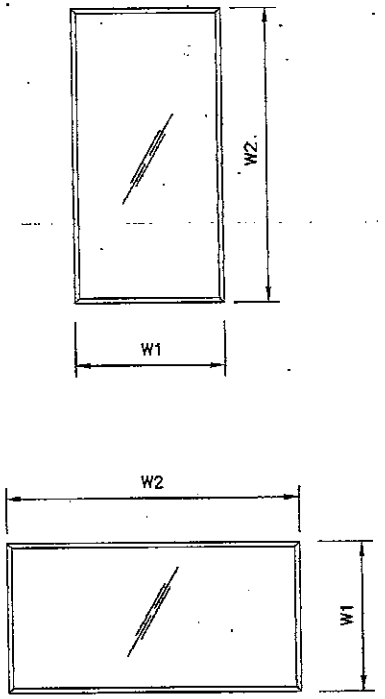
CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS PSF

NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (−)	EXT. (+) INT. (−)
24"	48"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	80.0
24"	60"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	80.0
24"	72"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	–
24"	84"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	–
60"		100.0	–

CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS PSF

NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (−)	EXT. (+) INT. (−)
24"	96"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	–
54"		100.0	–
60"		100.0	–
24"	108"	100.0	–
30"		100.0	–
36"		100.0	–
42"		100.0	–
48"		100.0	–
54"		100.0	–
60"		100.0	–
24"	120"	100.0	–
30"		100.0	–
36"		100.0	–
42"		100.0	–
48"		100.0	–
54"		100.0	–
60"		100.0	–

TYPICAL ELEVATION



NOTE:

W1 = SHORT SIDE
W2 = LONG SIDE
WINDOW MAY BE INSTALLED VERTICALLY OR HORIZONTALLY

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)−5"] X [(W2)−5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)−4 1/2"] X [(W2)−4 1/2"]

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Dec. 14, 2016
By Miami Dade Product Control

CHRISTOPHER STANTON LICENSE No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 21 2013
CHRISTOPHER STANTON P.E. FLA P.E. #69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5660

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
5 of 11

CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	87"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0
36"	90"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0

CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	93"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0
36"	99"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
36"	102"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
65"		100.0

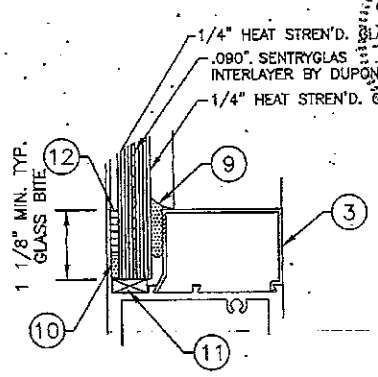
CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

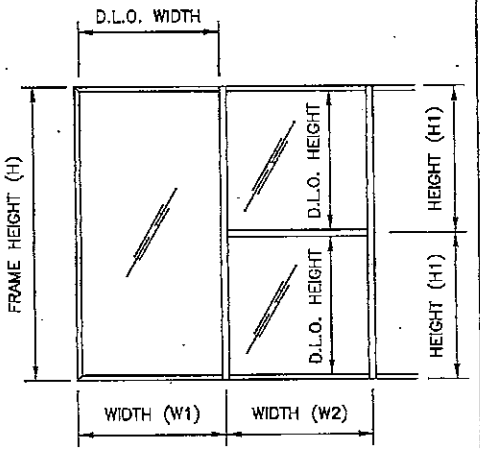
NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	105"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
36"	108"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
82"		100.0
36"	111"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0

CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT: (–)
36"	114"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
58"		100.0
36"	117"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
36"	120"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
55"		100.0

GLASS TYPE "A"





NOTE:
4 GLASS CHECKED PER ASTM E1300–04 AND TESTING.

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)–5"] OR [(W2)–4"] X [(H)–6"] OR [(H1)–5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)–4 1/2"] OR [(W2)–4"] X [(H)–5"] OR [(H1)–4 1/2"]

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date 12-11-2016
By Miami Dade Product Control

LICENSED STATE OF FLORIDA CHRISTOPHER STANTON No 69316 PROFESSIONAL ENGINEER
NOV 1st 2013
Christopher Stanton, P.E. #A-69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

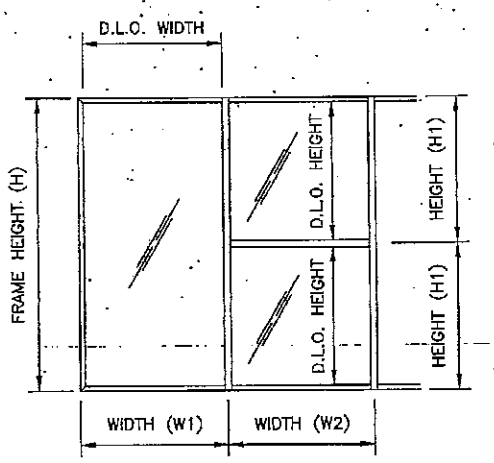
Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-6560

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DM
CHECKED BY: C.S.

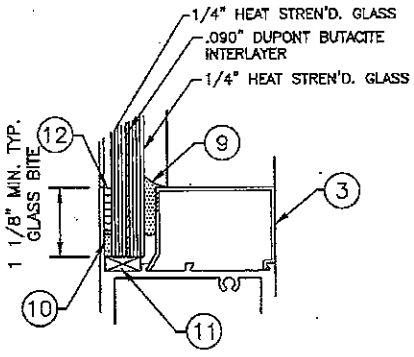
BW-3000 F.
DRAWING NO.

SHEET NO.
6 of 11

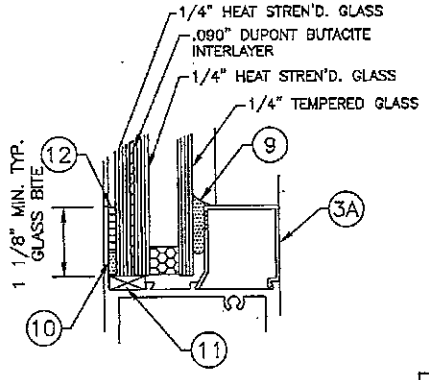
CHART NO. 2A GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF		
NOMINAL DIMS.		GLASS TYPE "B" & "C"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	60"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
51"		80.0
54"		80.0
57"		80.0
60"		80.0
63"		80.0
66"		80.0
69"		80.0
72"		80.0
36"	72"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
51"		80.0
54"		80.0
36"	84"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
36"	92"	80.0
39"		80.0
42"		80.0
44"		80.0



GLASS TYPE "B"



GLASS TYPE "C"



NOTE:

4 GLASS CHECKED PER ASTM E1300-04 AND TESTING.

NO.	DATE	REVISIONS
1	12-22-11	REVISED ANCHOR GROUPS
2	5-21-12	REVISED CODE EDITION
3	6-6-13	ADDED GLASS B & C / UNREINF. MULL
4	10-22-13	REVISED PER COUNTY REVIEW
5		
6		

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)–5"] OR [(W2)–4"] X [(H)–6"] OR [(H1)–5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)–4 1/2"] OR [(W2)–4"] X [(H)–5"] OR [(H1)–4 1/2"]

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.15
Expiration Date Dec. 11, 2016
By Manuel Perez
Miami Dade Product Control

CHRISTOPHER G. STANTON * LICENSE * No 68316 * STATE OF FLORIDA * PROFESSIONAL ENGINEER

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
6Aof 11

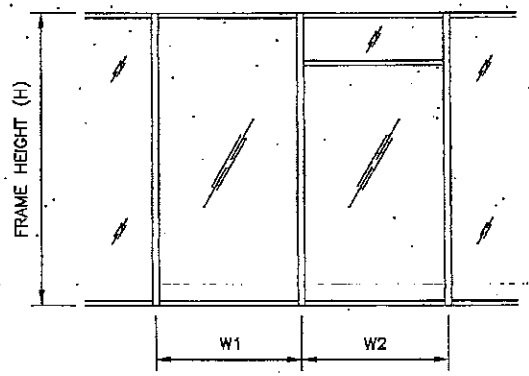
CHART NO. 3
REINFORCED MULLION LOAD CAPACITY PSF

NOMINAL DIMS.		N3002 W/ STEEL
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (−)
24"	78"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	84"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	96"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0

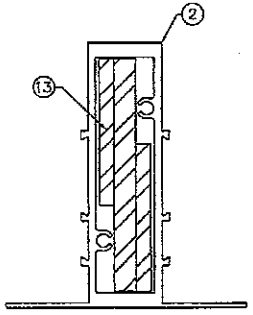
CHART NO. 3
REINFORCED MULLION LOAD CAPACITY PSF

NOMINAL DIMS.		N3002 W/ STEEL
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (−)
24"	102"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	108"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		93.9
24"	114"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		92.7
24"	120"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		93.0
60"		83.7

TYPICAL ELEVATION



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



INTERMEDIATE VERTICAL MULLION

N3002 WITH STD. STEEL REINFORCING

	Ix = X in^4	Sx = X in^3
ALUMINUM	5.300	2.100
STEEL	3.400	1.700
TOTAL *	15.180	

* Ix ALUM. + Ix STL. X 2.9

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Dec. 11, 2016
By Manuel Sosa
Miami-Dade Product Control

4

CHRISTOPHER STANTON LICENSE No. 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
SEAL
NOV 11 2013
CHRISTOPHER STANTON, P.E.
FLA REG # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003, FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

SCALE: NOTED
DATE: 4/15/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

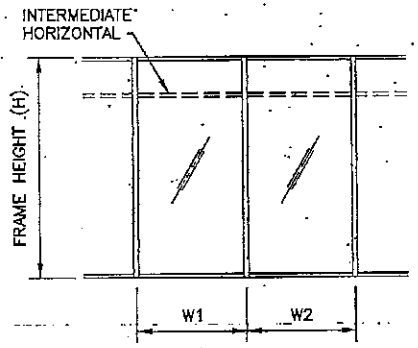
SHEET NO.
7 of 11

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF.

NOMINAL DIMS.		ANCHOR TYPE		
		"A1"	"A2"	"A3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	95.0	95.0	95.0
30"		91.0	95.0	95.0
36"		76.0	95.0	95.0
42"		65.0	95.0	95.0
48"		57.0	95.0	95.0
54"		51.0	95.0	95.0
60"		46.0	91.0	95.0
66"		42.0	83.0	95.0
72"		38.0	76.0	95.0
24"	84"	95.0	95.0	95.0
30"		85.0	95.0	95.0
36"		71.0	95.0	95.0
42"		61.0	95.0	95.0
48"		53.0	95.0	95.0
54"		47.0	94.0	95.0
60"		42.0	85.0	95.0
66"		39.0	77.0	95.0
72"		35.0	71.0	95.0
24"	96"	93.0	95.0	95.0
30"		74.0	95.0	95.0
36"		62.0	95.0	95.0
42"		53.0	95.0	95.0
48"		46.0	93.0	95.0
54"		41.0	82.0	95.0
60"		37.0	74.0	95.0
66"		34.0	67.0	95.0
72"		31.0	62.0	93.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"A1"	"A2"	"A3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	82.0	95.0	95.0
30"		66.0	95.0	95.0
36"		55.0	95.0	95.0
42"		47.0	94.0	95.0
48"		41.0	82.0	95.0
54"		37.0	73.0	95.0
60"		33.0	66.0	95.0
66"		30.0	60.0	90.0
72"		27.0	55.0	82.0
24"	114"	78.0	95.0	95.0
30"		62.0	95.0	95.0
36"		52.0	95.0	95.0
42"		45.0	89.0	95.0
48"		39.0	78.0	95.0
54"		35.0	69.0	95.0
60"		31.0	62.0	94.0
66"		28.0	57.0	85.0
72"		26.0	52.0	78.0
24"	120"	74.0	95.0	95.0
30"		59.0	95.0	95.0
36"		49.0	95.0	95.0
42"		42.0	85.0	95.0
48"		37.0	74.0	95.0
54"		33.0	66.0	95.0
60"		30.0	59.0	89.0
66"		27.0	54.0	81.0
72"		25.0	49.0	74.0

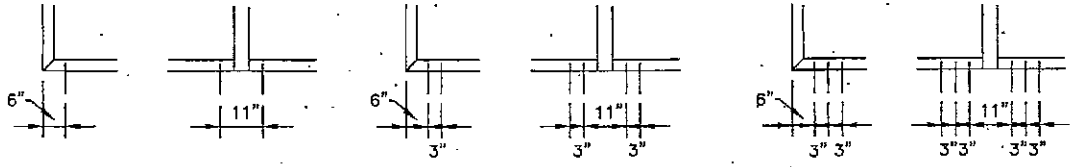


ANCHOR TYPES: SEE SHEET 4 FOR DESCRIPTION

"A1" – (1) ANCHOR TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"A2" – (2) ANCHORS TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"A3" – (3) ANCHORS TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"B1" – (1) ANCHOR TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"B2" – (2) ANCHORS TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"B3" – (3) ANCHORS TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"C1" – (1) ANCHOR TYPE "C" AT EA. SIDE OF MULLION OR JAMB
"C2" – (2) ANCHORS TYPE "C" AT EA. SIDE OF MULLION OR JAMB
"C3" – (3) ANCHORS TYPE "C" AT EA. SIDE OF MULLION OR JAMB

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION

TYPICAL ANCHOR CLUSTERS



NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date Aug. 1, 2016
By Miami-Dade Product Control

CHRISTOPHER STANTON LICENSE No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 21 2013
CHRISTOPHER STANTON, P.E.
FL P.E. #69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD, SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1009 FAX: (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
8 of 11

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE "B1"		ANCHOR TYPE "B2"		ANCHOR TYPE "B3"	
WIDTH (W)	HEIGHT (H)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
24"	78"	95.0	95.0	95.0	95.0	95.0	95.0
30"		95.0	95.0	95.0	95.0	95.0	95.0
36"		81.0	95.0	95.0	95.0	95.0	95.0
42"		69.0	95.0	95.0	95.0	95.0	95.0
48"		61.0	95.0	95.0	95.0	95.0	95.0
54"		54.0	95.0	95.0	95.0	95.0	95.0
60"		49.0	95.0	95.0	95.0	95.0	95.0
66"		44.0	88.0	95.0	95.0	95.0	95.0
72"		41.0	81.0	95.0	95.0	95.0	95.0
24"	84"	95.0	95.0	95.0	95.0	95.0	95.0
30"		90.0	95.0	95.0	95.0	95.0	95.0
36"		75.0	95.0	95.0	95.0	95.0	95.0
42"		64.0	95.0	95.0	95.0	95.0	95.0
48"		56.0	95.0	95.0	95.0	95.0	95.0
54"		50.0	95.0	95.0	95.0	95.0	95.0
60"		45.0	90.0	95.0	95.0	95.0	95.0
66"		41.0	82.0	95.0	95.0	95.0	95.0
72"		38.0	75.0	95.0	95.0	95.0	95.0
24"	96"	95.0	95.0	95.0	95.0	95.0	95.0
30"		79.0	95.0	95.0	95.0	95.0	95.0
36"		66.0	95.0	95.0	95.0	95.0	95.0
42"		56.0	95.0	95.0	95.0	95.0	95.0
48"		49.0	95.0	95.0	95.0	95.0	95.0
54"		44.0	88.0	95.0	95.0	95.0	95.0
60"		40.0	79.0	95.0	95.0	95.0	95.0
66"		36.0	72.0	95.0	95.0	95.0	95.0
72"		33.0	66.0	95.0	95.0	95.0	95.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE "B1"		ANCHOR TYPE "B2"		ANCHOR TYPE "B3"	
WIDTH (W)	HEIGHT (H)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
24"	108"	88.0	95.0	95.0	95.0	95.0	95.0
30"		70.0	95.0	95.0	95.0	95.0	95.0
36"		59.0	95.0	95.0	95.0	95.0	95.0
42"		50.0	95.0	95.0	95.0	95.0	95.0
48"		44.0	88.0	95.0	95.0	95.0	95.0
54"		39.0	78.0	95.0	95.0	95.0	95.0
60"		35.0	70.0	95.0	95.0	95.0	95.0
66"		32.0	64.0	95.0	95.0	95.0	95.0
72"		29.0	59.0	95.0	95.0	88.0	95.0
24"	114"	83.0	95.0	95.0	95.0	95.0	95.0
30"		67.0	95.0	95.0	95.0	95.0	95.0
36"		55.0	95.0	95.0	95.0	95.0	95.0
42"		48.0	95.0	95.0	95.0	95.0	95.0
48"		42.0	83.0	95.0	95.0	95.0	95.0
54"		37.0	74.0	95.0	95.0	95.0	95.0
60"		33.0	67.0	95.0	95.0	95.0	95.0
66"		30.0	60.0	91.0	95.0	95.0	95.0
72"		28.0	55.0	83.0	95.0	95.0	95.0
24"	120"	79.0	95.0	95.0	95.0	95.0	95.0
30"		63.0	95.0	95.0	95.0	95.0	95.0
36"		53.0	95.0	95.0	95.0	95.0	95.0
42"		45.0	90.0	95.0	95.0	95.0	95.0
48"		40.0	79.0	95.0	95.0	95.0	95.0
54"		35.0	70.0	95.0	95.0	95.0	95.0
60"		32.0	63.0	95.0	95.0	95.0	95.0
66"		29.0	57.0	86.0	95.0	95.0	95.0
72"		26.0	53.0	79.0	95.0	95.0	95.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE "C1"		ANCHOR TYPE "C2"		ANCHOR TYPE "C3"	
WIDTH (W)	HEIGHT (H)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
24"	78"	95.0	95.0	95.0	95.0	95.0	95.0
30"		95.0	95.0	95.0	95.0	95.0	95.0
36"		83.0	95.0	95.0	95.0	95.0	95.0
42"		71.0	95.0	95.0	95.0	95.0	95.0
48"		62.0	95.0	95.0	95.0	95.0	95.0
54"		55.0	95.0	95.0	95.0	95.0	95.0
60"		50.0	95.0	95.0	95.0	95.0	95.0
66"		45.0	90.0	95.0	95.0	95.0	95.0
72"		41.0	83.0	95.0	95.0	95.0	95.0
24"	84"	95.0	95.0	95.0	95.0	95.0	95.0
30"		92.0	95.0	95.0	95.0	95.0	95.0
36"		77.0	95.0	95.0	95.0	95.0	95.0
42"		66.0	95.0	95.0	95.0	95.0	95.0
48"		58.0	95.0	95.0	95.0	95.0	95.0
54"		51.0	95.0	95.0	95.0	95.0	95.0
60"		46.0	92.0	95.0	95.0	95.0	95.0
66"		42.0	84.0	95.0	95.0	95.0	95.0
72"		38.0	77.0	95.0	95.0	95.0	95.0
24"	96"	95.0	95.0	95.0	95.0	95.0	95.0
30"		81.0	95.0	95.0	95.0	95.0	95.0
36"		67.0	95.0	95.0	95.0	95.0	95.0
42"		58.0	95.0	95.0	95.0	95.0	95.0
48"		51.0	95.0	95.0	95.0	95.0	95.0
54"		45.0	90.0	95.0	95.0	95.0	95.0
60"		40.0	81.0	95.0	95.0	95.0	95.0
66"		37.0	73.0	95.0	95.0	95.0	95.0
72"		34.0	67.0	95.0	95.0	95.0	95.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE "C1"		ANCHOR TYPE "C2"		ANCHOR TYPE "C3"	
WIDTH (W)	HEIGHT (H)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
24"	108"	90.0	95.0	95.0	95.0	95.0	95.0
30"		72.0	95.0	95.0	95.0	95.0	95.0
36"		60.0	95.0	95.0	95.0	95.0	95.0
42"		51.0	95.0	95.0	95.0	95.0	95.0
48"		45.0	90.0	95.0	95.0	95.0	95.0
54"		40.0	80.0	95.0	95.0	95.0	95.0
60"		36.0	72.0	95.0	95.0	95.0	95.0
66"		33.0	65.0	95.0	95.0	95.0	95.0
72"		30.0	60.0	90.0	95.0	95.0	95.0
24"	114"	85.0	95.0	95.0	95.0	95.0	95.0
30"		68.0	95.0	95.0	95.0	95.0	95.0
36"		57.0	95.0	95.0	95.0	95.0	95.0
42"		49.0	95.0	95.0	95.0	95.0	95.0
48"		43.0	85.0	95.0	95.0	95.0	95.0
54"		38.0	76.0	95.0	95.0	95.0	95.0
60"		34.0	68.0	95.0	95.0	95.0	95.0
66"		31.0	62.0	93.0	95.0	95.0	95.0
72"		28.0	57.0	85.0	95.0	95.0	95.0
24"	120"	81.0	95.0	95.0	95.0	95.0	95.0
30"		65.0	95.0	95.0	95.0	95.0	95.0
36"		54.0	95.0	95.0	95.0	95.0	95.0
42"		46.0	92.0	95.0	95.0	95.0	95.0
48"		40.0	81.0	95.0	95.0	95.0	95.0
54"		36.0	72.0	95.0	95.0	95.0	95.0
60"		32.0	65.0	95.0	95.0	95.0	95.0
66"		29.0	59.0	88.0	95.0	95.0	95.0
72"		27.0	54.0	81.0	95.0	95.0	95.0

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.16
Expiration Date Aug. 11, 2016
By Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON LICENSE No 69316 STATE OF FLORIDA
NOV 21 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX (561) 393-1008

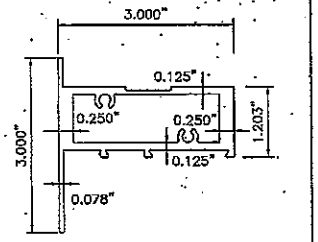
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

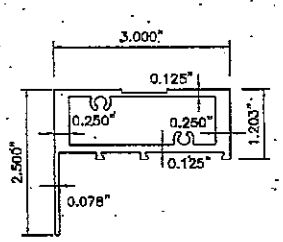
SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

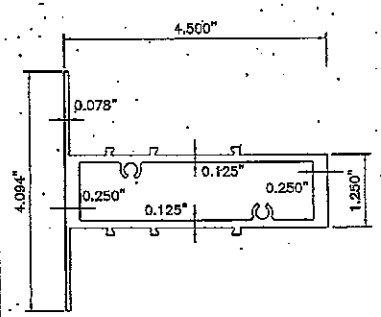
SHEET NO.
9 of 11



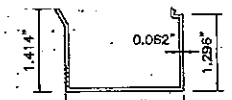
① N3001 – HEAD/SILL/JAMB



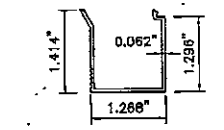
⑴A N3001 (ALT.) – HEAD/SILL/JAMB



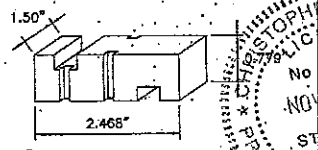
② N3002 – MULLION/INT. HORIZONTAL



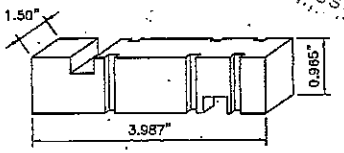
③ N3003 – GLASS STOP MONOLITHIC



③A N3004 – GLASS STOP INSULATED

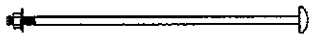


④ B1 – SHEAR BLOCK



⑤ B2 – SHEAR BLOCK

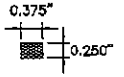
⑥ SHEAR BLOCK FASTENER



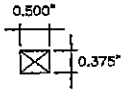
⑦ MULL SHEAR BLOCK ANCHOR

⑧ ASSEMBLY SCREW

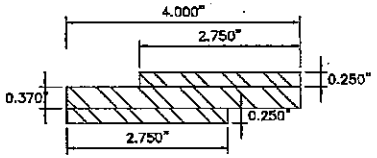
⑨ GLAZING GASKET



⑩ GLAZING TAPE



⑪ SETTING BLOCK



⑬ STEEL REINFORCING

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	6-21-12		REVISED CODE EDITION
3	6-5-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			
6			

MATERIALS LIST

ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
①	N3001	AS REQ'D.	HEAD/JAMB/SILL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
⑴A	N3001 (ALT.)	AS REQ'D.	EQ. LEG HEAD/JAMB/SILL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
②	N3002	AS REQ'D.	MULLION/INTERMEDIATE HORIZONTAL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
③	N3003	AS REQ'D.	GLASS STOP (MONOLITHIC)	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
③A	N3004	AS REQ'D.	GLASS STOP (INSULATED)	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
④	B1	AS REQ'D.	HEAD/SILL SHEAR BLOCK	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
⑤	B2	AS REQ'D.	INT. HORIZONTAL SHEAR BLOCK	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
⑥	S1	2/SHEAR BLOCK	#8–32 x 1/2" PH THREAD CUTTING	STAINLESS STEEL	
⑦	S2	2/SHEAR BLOCK	#10–24 x 5" PHPMS W/ HEX NUT	STAINLESS STEEL	
⑧	S3	2/SHEAR BLOCK	#12–24 x 2 1/2" THPMS	STAINLESS STEEL	
⑨	RG12100	AS REQ'D.	GLAZING GASKET	NEOPRENE	C.R. LAURENCE
⑩	V–2108	AS REQ'D.	GLAZING TAPE	3/8" x 1/4" VINYL FOAM	NORTON
⑪	SB584	2/LITE	SETTING BLOCK	2" x 1/2" x 3/8"	C.R. LAURENCE
⑫	SSG4000AC	AS REQ'D.	GLAZING COMPOUND		GENERAL ELECTRIC
⑬	ST1	AS REQ'D.	STEEL REINFORCING	A36	

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0726.10
Expiration Date Apr. 11, 2016
By Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON LICENSE No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 1 2013
CHRISTOPHER STANTON, P.E. FL P.E. #69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD, SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

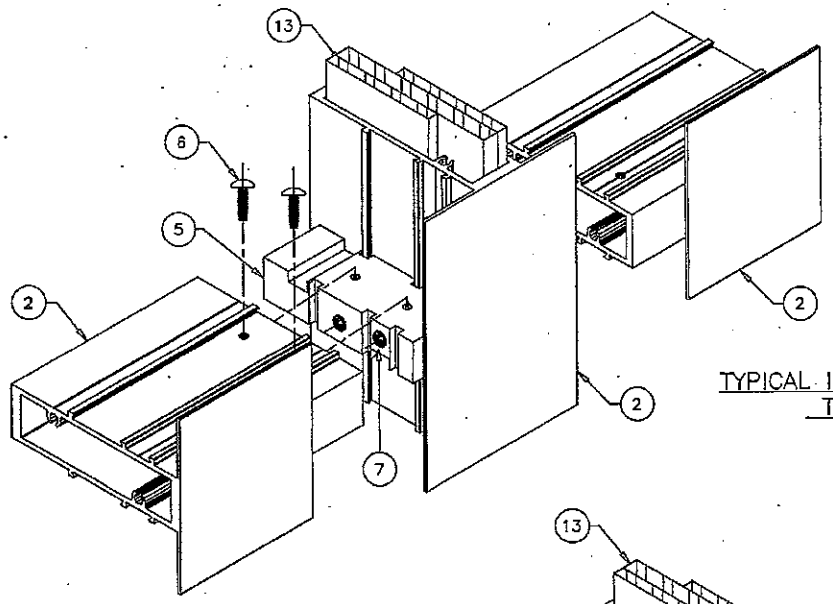
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5660

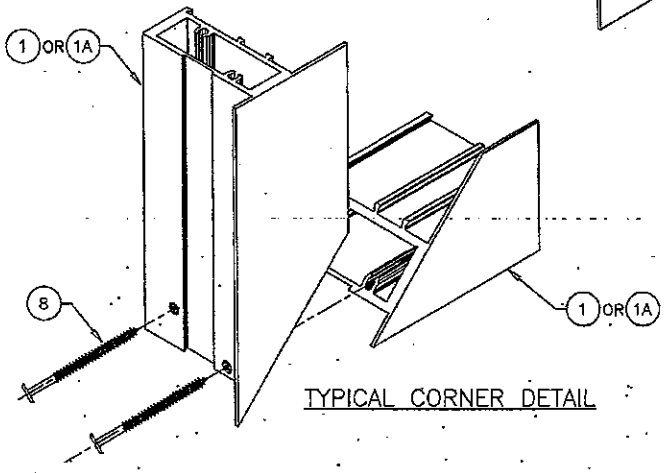
SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

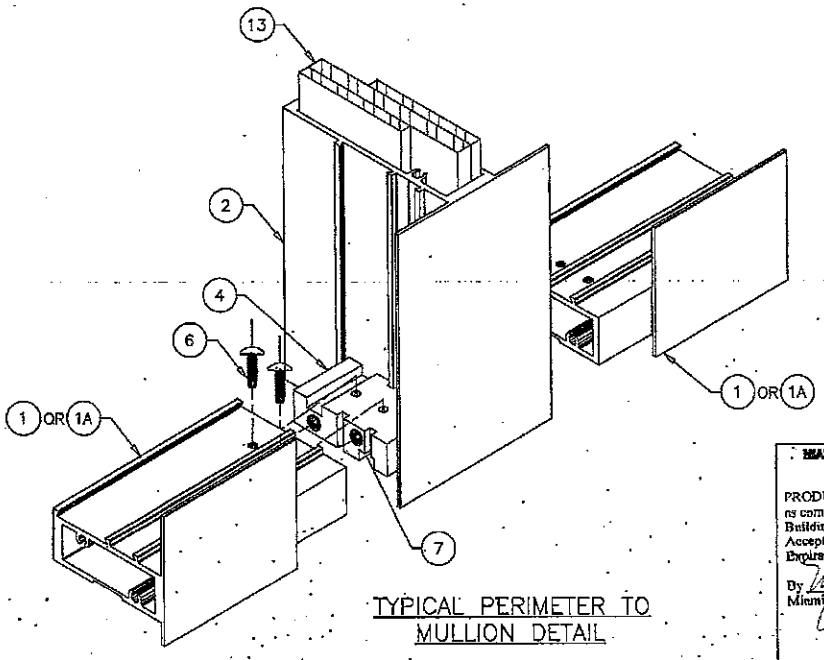
SHEET NO.
10 of 11



TYPICAL INTERMEDIATE HORIZONTAL TO MULLION DETAIL



TYPICAL CORNER DETAIL



TYPICAL PERIMETER TO MULLION DETAIL

NO.	DATE		REVISIONS
1	12-23-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-3-13		ADDED GLASS B & C / UNREINF. SKILL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date Aug. 11, 2016
By Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON * PROFESSIONAL ENGINEER * LICENSE No. 69316 STATE OF FLORIDA

CHRISTOPHER STANTON, P.E.
FLA. P.E. # 69316

NOV 1 1 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4008 N. 30th Ave.
Hollywood, Fl. 33020
954-981-5560

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

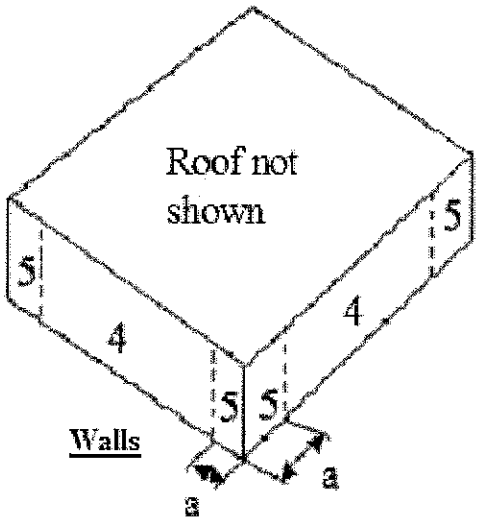
SHEET NO.
11 of 11

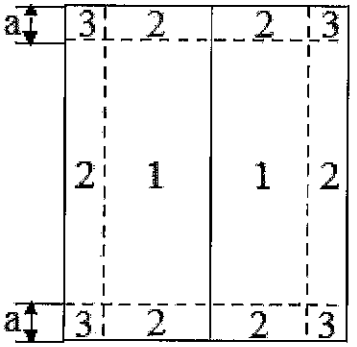
MECAWind Version 2.1.0.6 ASCE 7-10

Developed by MECA Enterprises, Inc. Copyright 2014 www.mecaenterprises.com

Date	: 10/8/2014	Project No.	:
Company Name	:	Designed By	:
Address	:	Description	: Windows & Doors
City	:	Customer Name	: Cantor Residence
State	:	Proj Location	: 1201 NORTH SOUTH LAKE DR.

File Location: E:\Projects\Ximena\files usb 2\INGENIERO EMILIANO\CANTOR RESIDENCE HOLLYWOOD \WINDOW SD\NOAS 9-23-14\WIND.wnd





Wind Pressure on Components and Cladding

All pressures shown are based upon ASD Design, with a Load Factor of .6

Width of Pressure Coefficient Zone "a" = 4.7 ft

Description	Width ft	Span ft	Area ft^2	Zone	Max GCp	Min GCp	Max P psf	Min P psf
Window A	2.30	6.10	14.0	4	0.88	-0.97	48.42	-51.48
Window A	2.30	6.10	14.0	5	0.88	-1.21	48.42	-59.85
Window B	2.10	6.10	12.8	4	0.88	-0.97	48.64	-51.69
Window B	2.10	6.10	12.8	5	0.88	-1.23	48.64	-60.27
Window C	3.10	1.20	3.7	4	0.90	-0.99	49.22	-52.27
Window C	3.10	1.20	3.7	5	0.90	-1.26	49.22	-61.43
Door 1	3.00	7.00	21.0	4	0.85	-0.94	47.48	-50.53
Door 1	3.00	7.00	21.0	5	0.85	-1.16	47.48	-57.96
Door 2	3.00	7.00	21.0	4	0.85	-0.94	47.48	-50.53
Window D	6.00	5.00	30.0	4	0.82	-0.91	46.64	-49.70

2/4

MECAWind Version 2.1.0.6 per ASCE 7-10

Developed by MECA Enterprises, Inc. Copyright 2014 www.mecaenterprises.com

Date	: 10/8/2014	Project No.	:
Company Name	:	Designed By	:
Address	:	Description	: Windows & Doors
City	:	Customer Name	: Cantor Residence
State	:	Proj Location	: 1201 NORTH SOUTH LAKE DR.

File Location: E:\Projects\Ximena\files usb 2\INGENIERO EMILIANO\CANTOR RESIDENCE HOLLYWOOD\WINDOW SD\NOAS 9-23-14\WIND.wnd

Directional Procedure Simplified Diaphragrm Building (Ch 27 Part 2)

All pressures shown are based upon ASD Design, with a Load Factor of .6

Basic Wind Speed(V)	= 175.00 mph		
Structural Category	= II	Exposure Category	= C
Natural Frequency	= N/A	Flexible Structure	= No
Importance Factor	= 1.00	Kd Directional Factor	= 0.85
Damping Ratio (beta)	= 0.01		
Alpha	= 9.50	Zg	= 900.00 ft
At	= 0.11	Bt	= 1.00
Am	= 0.15	Bm	= 0.65
Cc	= 0.20	l	= 500.00 ft
Epsilon	= 0.20	Zmin	= 15.00 ft
Slope of Roof	= 0.84 : 12	Slope of Roof(Theta)	= 4.00 Deg
Ht: Mean Roof Ht	= 11.75 ft	Type of Roof	= Gabled
RHt: Ridge Ht	= 13.50 ft	Eht: Eave Height	= 10.00 ft
OH: Roof Overhang at Eave	= .00 ft	Roof Area	= 5012.00 ft^2
Bldg Length Along Ridge	= 50.00 ft	Bldg Width Across Ridge	= 100.00 ft

Gust Factor Category I Rigid Structures - Simplified Method

Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use 0.85 = 0.85

Gust Factor Category II Rigid Structures - Complete Analysis

Zm:	0.6*Ht	= 15.00 ft
lzm:	Cc*(33/Zm)^0.167	= 0.23
Lzm:	l*(Zm/33)^Epsilon	= 427.06 ft
Q:	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	= 0.89
Gust2:	0.925*((1+1.7*lzm*3.4*Q)/(1+1.7*3.4*lzm))	= 0.87

Gust Factor Summary

Not a Flexible Structure use the Lessor of Gust1 or Gust2 = 0.85

Table 26.11-1 Internal Pressure Coefficients for Buildings, GCpi

GCPi : Internal Pressure Coefficient = +/-0.55

Reduction Factor for Large Volume Buildings, Ri

Aog:	Total Area of Openings in Bldg Envelope	= .00 ft^2
Vi:	Unpartitioned Internal Value	= .00 ft^3
Ri:	0.5*((1+1/(1+(Vi/(22800*Aog))^0.5))(Eqn. 6-16)	= 1.000

Notes: 1) +GCpi = +0.55 * Ri
Notes: 2) -GCpi = -0.55 * Ri

Topographic Adjustment

0.33*z	=	3.88
Kzt (0.33*z): Topographic factor at elevation 0.33*z	=	1.00
Vtopo: Adjust V per Para 27.5.2: V * [Kzt(0.33*z)]^0.5	=	175.00 mph

Net Wind Pressures on Walls (Table 27.6-1)

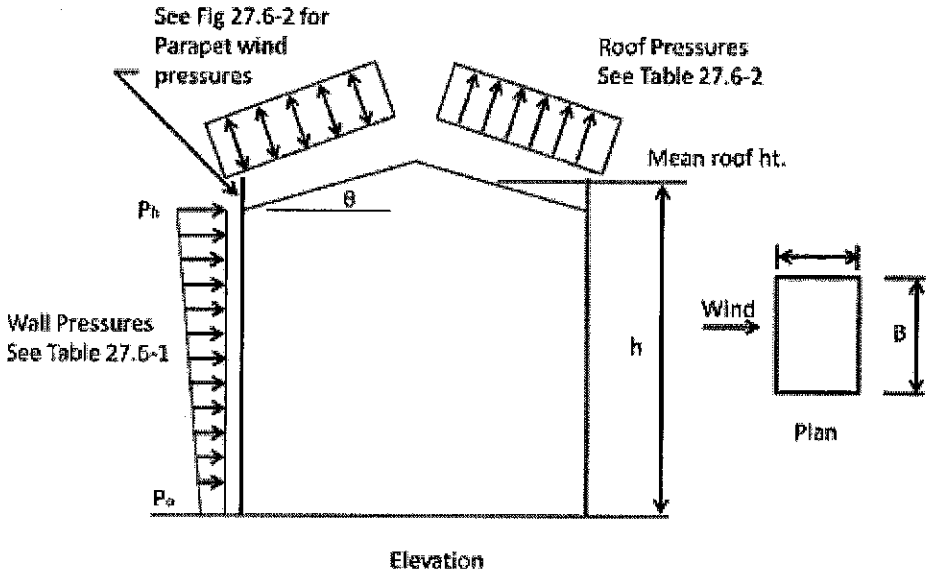
Wall Pressures do not include effect of internal pressure

MWFRS-Wall Pressures for Wind Normal to 100 ft wall

L/B	=	0.50
ph: Net Pressure at top of wall (windward + leeward)	=	38.70 psf
p0: Net Pressure at bottom of wall (windward + leeward)	=	38.70 psf
ps: Side wall pressure acting uniformly outward = .54 * ph	=	20.90 psf
pl: Leeward wall pressure acting uniformly outward = .38 * ph	=	14.71 psf
pwh: Windward wall pressure acting uniformly outward = ph-pl	=	23.99 psf
pw0: Windward wall pressure acting uniformly outward = p0-pl	=	23.99 psf

MWFRS-Wall Pressures for Wind Normal to 50 ft wall

L/B	=	2.00
ph: Net Pressure at top of wall (windward + leeward)	=	33.68 psf
p0: Net Pressure at bottom of wall (windward + leeward)	=	33.68 psf
ps: Side wall pressure acting uniformly outward = .64 * ph	=	21.55 psf
pl: Leeward wall pressure acting uniformly outward = .27 * ph	=	9.09 psf
pwh: Windward wall pressure acting uniformly outward = ph-pl	=	24.58 psf
pw0: Windward wall pressure acting uniformly outward = p0-pl	=	24.58 psf

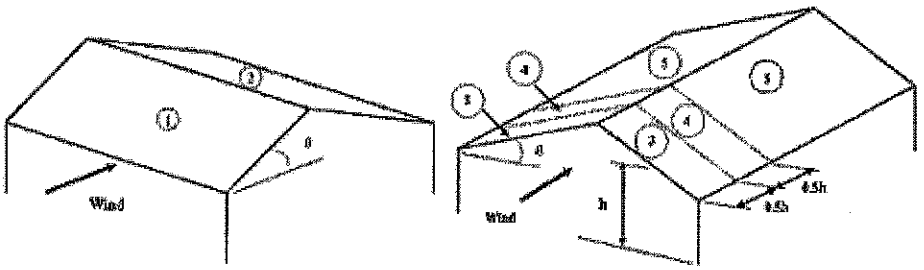


Net Wind Pressures on Roof (Table 27.6-2):

Exposure Adjustment Factor = 1.000

Zone	Load Case1 psf	Load Case2 psf
1	.00	.00
2	.00	.00
3	-36.05	.00
4	-32.18	.00
5	-26.37	.00

Note: A value of '0' indicates that the zone/load case is not applicable.



Gabled Roof

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Direct Set" Aluminum Clad Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1287**, titled "Aluminum Clad Wood Direct Set Impact Windows", sheets 01 through 04 of 04, dated 12/20/03, with revision "**F1**" dated 09/16/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA No. 13-0919.08** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

J. Gascon 6/18/14

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA's No.'s 04–0322.11, 10–0223.02 and 12–0308.34)
2. Drawing No **1287**, Sheets 01 through 04 of 04, titled "Aluminum Clad Wood Direct Set Impact Windows", dated 12/20/03, with revision "**F1**" dated 09/16/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed windows with IGU, prepared by Element Materials Technology, Test Report No. **TCT008189P.rev**, specimens #1 through #11, dated 01/05/12, revised on 02/14/12, signed and sealed by Jason Steen, P. E.
   (Submitted under previous NOA No. 12–0308.34)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI 97274.01–201–18**, dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
   (Submitted under NOA No. 10–0223.02)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201–94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Reports No.'s **ATI 97275.01–201–18** and **ATI 97276.01–201–18**, dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
   (Submitted under NOA No. 10–0223.02)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW–180–6691**, dated 12/15/03, signed and sealed by John D. Lee, P. E.
   (Submitted under NOA No. 04–0322.11)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC, dated 02/27/12, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 12–0308.34)
2. Glazing complies with **ASTM E1300–04/ 09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11–0624.02** issued to **E.I. DuPont DeNemours & Co.**, Inc. for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with the **FBC 5th Edition (2014)**, dated 04/15/14, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of conformance, complying with the **FBC–2010**, dated 09/03/13, signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)
3. Statement letter of no financial interest, dated 09/04/13, signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)
4. Laboratory compliance letter for Test Report No. **TCT008189P.rev**, issued by Element Materials Technology, LLC, dated 02/14/12, signed and sealed by Jason Steen, P. E.
   (Submitted under previous NOA No. 12–0308.34)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

F. STATEMENTS (CONTINUED)

5. Laboratory compliance letter for Test Reports No.'s **ATI 97274.01–201–18, ATI 97275.01–201–18** and **ATI 97276.01–201–18**, all issued by Architectural Testing, Inc., dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
   (Submitted under previous NOA No. 10–0223.02)
6. Laboratory compliance letter for Test Report No. **TCTCW–180–6691**, issued by Stork Twin City Testing Corporation, LLC, dated 12/15/03, signed and sealed by John D. Lee, P. E.
   (Submitted under previous NOA No. 04–0322.11)

G. OTHERS

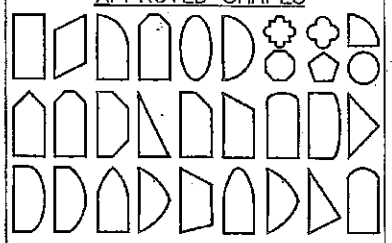
1. Notice of Acceptance No. **13–0919.08**, issued to Pella Corporation for their Series "**Direct Set Aluminum Clad Wood Fixed Window – L.M.I.**", approved on 11/28/13 and expiring on 06/24/19.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

GENERAL NOTES:

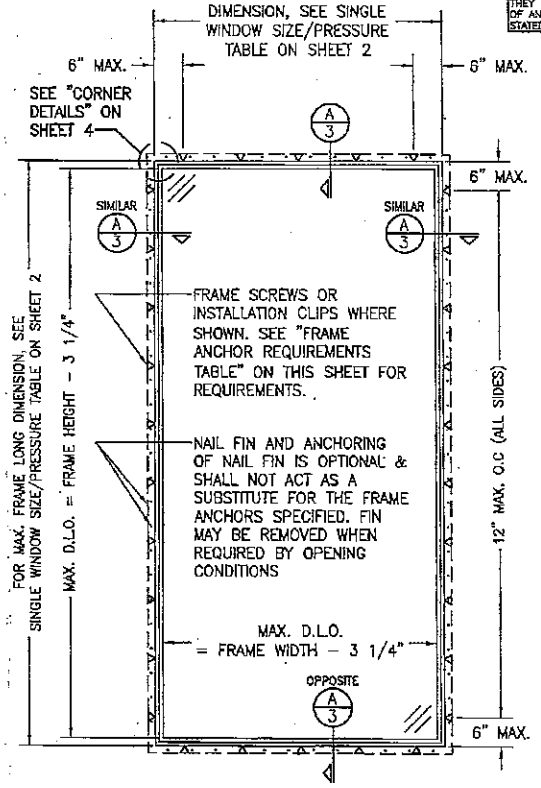
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCALS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2328.

APPROVED SHAPES



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION PER CORNER DETAILS.
2. ALL UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE LOAD TABLE DIMENSIONS (SEE SHEET 2) & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE UNIT SIZE IN THE LOAD TABLE.
3. RECTANGULAR WINDOWS SHOWN. ANCHORING OF SHAPED WINDOWS IS THE SAME WITH REQUIRED ANCHOR SPACING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.



EXTERIOR ELEVATION:
SINGLE FIXED WINDOW
SCALE: 1/2" = 1'-0"
(RECTANGULAR WINDOW SHOWN, SHAPED WINDOWS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON THIS SHEET)

ALLOWABLE DESIGN PRESSURE
SEE LOAD TABLE ON SHEET 2

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
(2) INSTALLATION CLIP SCREWS (STANDARD BENT CONDITION)			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	(2) N/A
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF. TAP/DRILL SCREW	FULL	(2) N/A
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A
INSTALLATION CLIP SCREWS (ALTERNATE STRAIGHT CONDITION)			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
(2) STANDARD BENT CLIP INSTALLATION SCREWS SHALL BE POSITIONED WITHIN 1/4" OF THE BUCK/SUBSTRATE EDGE AND, IF INTO WOOD, ANGLED 20 TO 30 DEGREES INTO THE BUCK.

EDGE DISTANCE MAY BE DECREASED TO 1/2" IF SCREWS ARE ANGLED 15 TO 20 DEGREES AWAY FROM THE EDGE.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14-0428.13 Expiration Date 06/24/2019
By Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-0919.08 Expiration Date June 24 2019
By Manuel Perez Miami Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO 2004 CODE COMPLIANT	WMS	06/30/05
B1	UPDATE TO PRESENT FBC	WMS	03/26/09
C1	CHANGE GLAZING COMPOUND	WMS	02/17/10
D1	UPDATE TO CLIENT STANDARDS	WRM	12/08/11
E1	UPDATE PER NOA TESTING	WRM	02/14/12
F1	UPDATE GLAZING DETAIL	WRM	09/18/13

DRAWN BY: K.P.S. | CHECKED BY: W.M.S.
PLOT: 1=24 | DATE: 12/20/03

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424

WARREN W. SCHAEFER, P.E., FL. NO. 44135

STATE OF FLORIDA PROFESSIONAL ENGINEER WARREN W. SCHAEFER LICENSE No 44135

SEP 16 2013

DRAWING NO. 1287 | REV. F

SHEET NO. 1 OF 4

ALLOWABLE SIZE/PRESSURE TABLE

WINDOW FRAME DIMENSION		ALLOWABLE DESIGN PRESSURE (PSF)															
MAX. LONG SIDE (IN.)	MAX. SHORT SIDE (IN.)	GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTION 4		GLASS OPTION 5		GLASS OPTION 6		GLASS OPTION 7		GLASS OPTION 8	
		POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
120	60	50.3	50.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54.6	54.6	60.0	60.0
	54	56.3	56.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	48	63.6	63.6	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	38	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	25	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	21	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	80.0	60.0	60.0	60.0	60.0	60.0	60.0
108	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56.2	56.2	60.0	60.0
	60	56.9	56.9	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	61.5	61.5	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	48	69.8	69.8	75.0	75.0	N/A	N/A	52.7	52.7	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	28	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	23	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
105	68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56.8	56.8	60.0	60.0
	60	57.9	57.9	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	63.4	63.4	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	52	66.0	66.0	75.0	75.0	N/A	N/A	55.3	55.3	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	71.8	71.8	75.0	85.0	N/A	N/A	59.7	59.7	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	43	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	29	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	24	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
98	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	57.9	57.9	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	62.3	62.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	68.4	68.4	75.0	75.0	N/A	N/A	58.3	58.3	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	47	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	30	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	26	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	59.2	59.2	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	63.7	63.7	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	69.7	69.7	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	31	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	26	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
84	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	73.1	73.1	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	36	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	30	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
79	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	39	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	36	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	32	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
74	74	71.6	71.6	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	66	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	40	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	34	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

ALLOWABLE SIZE/PRESSURE TABLE

WINDOW FRAME DIMENSION		ALLOWABLE DESIGN PRESSURE (PSF)															
MAX. LONG SIDE (IN.)	MAX. SHORT SIDE (IN.)	GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTION 4		GLASS OPTION 5		GLASS OPTION 6		GLASS OPTION 7		GLASS OPTION 8	
		POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
73	73	73.4	73.4	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	66	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	35	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
66	66	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	45	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	38	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
60	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	50	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
55	55	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	46	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
50	50	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

1. ALL SIZES IN TABLE ARE BASED ON TESTED SIZES & DO NOT EXCEED THE WINDOW AREA TESTED.
2. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT GLASS OPTION.
3. SEE GLAZING DETAILS FOR GLASS OPTIONS.
4. LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.13
Expiration Date 6/24/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0919.08
Expiration Date June 24, 2019
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: K.P.S. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 12/20/13

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

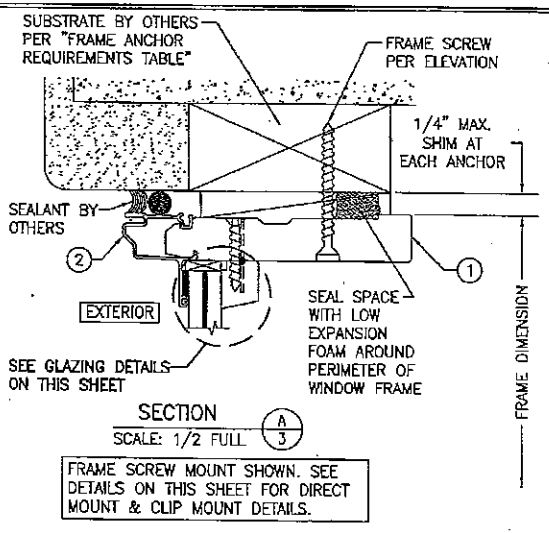
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7490 NORTH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE 561-744-3424

CERTIFICATION: SEP 16 2013

WARREN W. SCHAEFER, P.E. P.E. NO. 44135

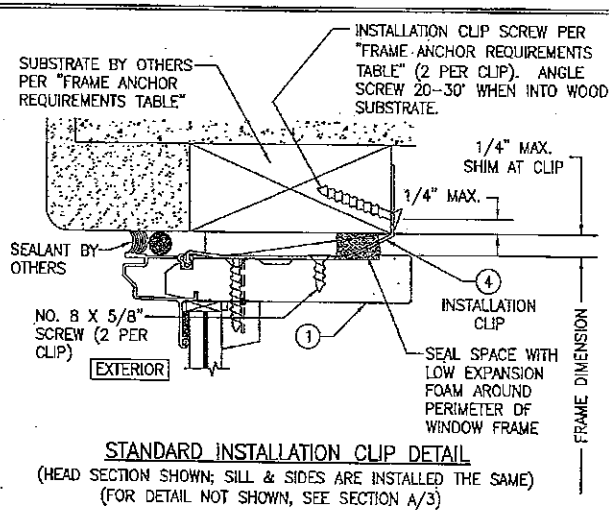
DRAWING NO. 1287 | REV. F

SHEET NO. 2 OF 4

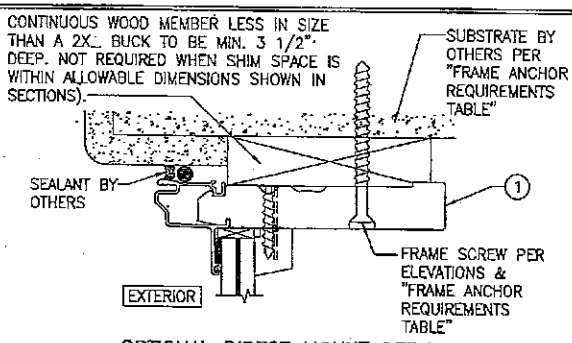


SECTION A/3
SCALE: 1/2 FULL

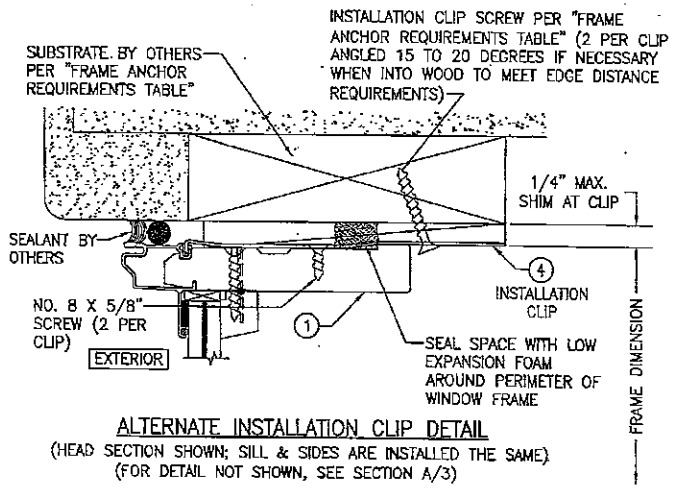
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON THIS SHEET FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



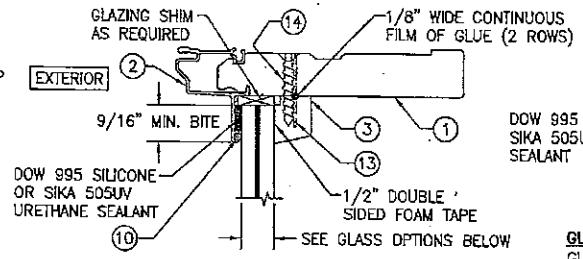
STANDARD INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)



OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)

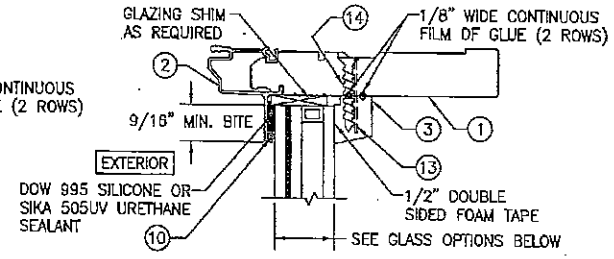


ALTERNATE INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)



TYPICAL MONOLITHIC GLAZING DETAIL

GLASS OPTIONS:
GLASS OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09" DUPONT SG/1/4" AN.)
GLASS OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09" DUPONT SG/1/4" HT. ST.)
GLASS OPTION 3: 7/16" THICK LAMINATED GLASS (3/16" AN./0.09" DUPONT BUTACITE PVB/3/16" AN.)



TYPICAL I.G. GLAZING DETAIL

GLASS OPTIONS:
GLASS OPTION 4: 1" THICK I.G. GLASS (3/16" AN./0.09 DUPONT SG/3/16" AN. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 5: 1" THICK I.G. GLASS (3/16" AN./0.09 DUPONT BUTACITE PVB/3/16" AN. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 6: 1" THICK I.G. GLASS (3/16" HT. ST./0.09 DUPONT SG/3/16" HT. ST. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 7: 1 1/4" THICK I.G. GLASS (1/4" AN./0.09 DUPONT SG/1/4" AN. EXTERIOR; 3/8" SPACER; 1/4" TEMP. INTERIOR)
GLASS OPTION 8: 1 1/4" THICK I.G. GLASS (1/4" HT. ST./0.09 DUPONT SG/1/4" HT. ST. EXTERIOR; 3/8" SPACER; 1/4" TEMP. INTERIOR)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0428.13
Expiration Date 6/29/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0919.08
Expiration Date June 24, 2019
By
Miami Dade Product Control

WARREN W. SCHAEFER * ENGINEER * LICENSE Nr 14135 STATE OF FLORIDA * PROFESSIONAL *

DRAWN BY: K.P.S. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 12/20/13

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

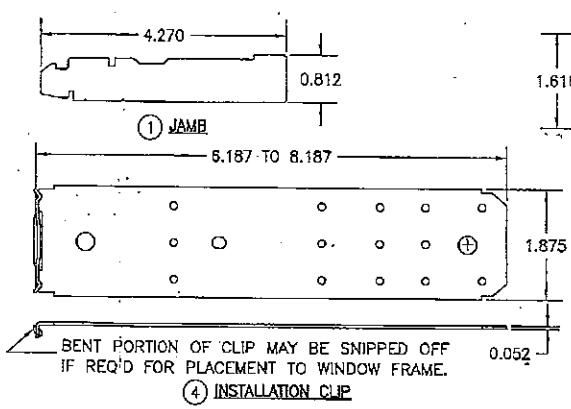
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7490 150TH COURT NORTH, PALM BEACH GARDENS, FL. 33418, PHONE: 561-744-3424

CERTIFICATION: SEP 16 2013
WARREN W. SCHAEFER P.E. P.E. NO. 14135

DRAWING NO. 1287 | REV. F
SHEET NO. 3 OF 4

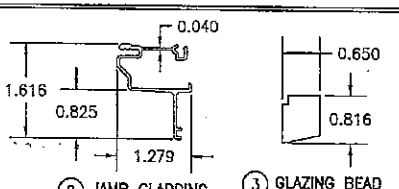
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	JAMB	WOOD
2	JAMB CLADDING	6063-T6 ALUMINUM
3	GLAZING BEAD	WOOD
4	INSTALLATION CLIP	50 KSI STEEL
5	CORNER REINFORCEMENT BRACKET	MIN. 33 KSI GALV. METAL
6	RECTANGULAR FRAME CORNER KEY	NYLON & HYLON
7	SHAPED FRAME CORNER KEY	NYLON & HYLON
	SEALS & SEALANTS	
10	BULB GASKET	PVC
	FASTENERS	
13	1/4" X 1 1/8" 18 GA. STAPLE	WITHIN 2"-4" OF CORNERS & MAX. 6" O.C.
14	NO. 8 X 1 1/4" SMS OR WOOD SCREW	POSITIONED 3", 6", 9" & 12" FROM EACH CORNER

NOTE: WOOD USED IN TESTING WAS PONDEROSA PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PELLA CORP. TO SELECT.

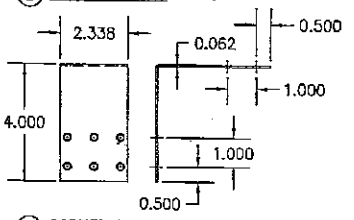


① JAMB

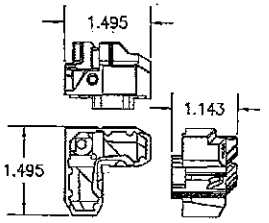
④ INSTALLATION CLIP



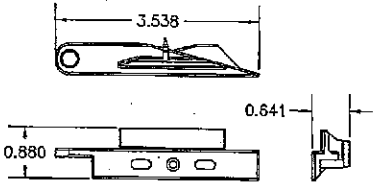
② JAMB CLADDING ③ GLAZING BEAD



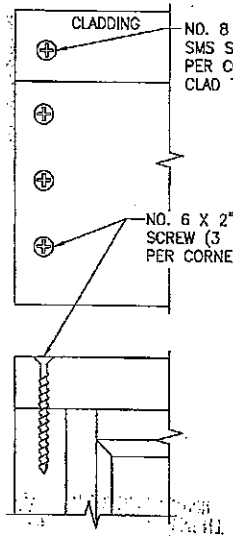
⑤ CORNER REINFORCEMENT BRACKET



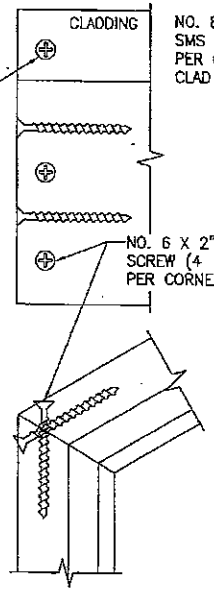
⑥ RECTANGULAR FRAME CORNER KEY



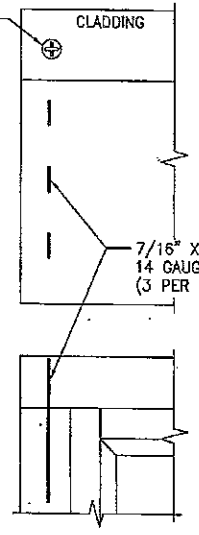
⑦ SHAPED FRAME CORNER KEY



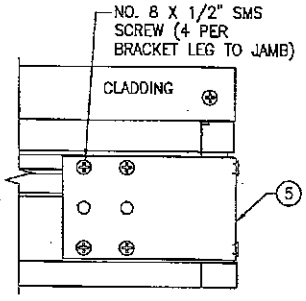
SCREW METHOD CORNER DETAIL FOR 90° CORNERS (INTERIOR VIEW)
NOT TO SCALE



CORNER DETAIL FOR MITERED CORNERS (INTERIOR VIEW)
NOT TO SCALE



STAPLE METHOD CORNER DETAIL FOR 90° CORNERS (INTERIOR VIEW)
NOT TO SCALE



CORNER BRACKET DETAIL
NOT TO SCALE
(ONLY REQUIRED WITH WINDOWS OF SIZE 36 SQUARE FEET & LARGER)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.13
Expiration Date 6/24/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0919.08
Expiration Date June 24, 2014
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: K.P.S. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 12/20/13

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7960 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424

CERTIFICATION: SEP 16 2013, WARREN W. SCHAEFER, P.E. FL. NO. 44135

DRAWING NO. 1287 | REV. F

SHEET NO. 4 OF 4

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "HIG Casement" Aluminum Clad Wood Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1518**, titled "HIG Aluminum Clad Impact Casement Window", sheets 01 through 05 of 05, dated 03/23/07, with revision "**C1**" dated 06/27/13, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA No. 13-0829.18** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

J. Gascon 6/18/14

NOA No. 14-0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under previous NOA's No.'s 13–0829.18, 09–1027.05 & 07–0619.12)
2. Drawing No. **1518**, titled "HIG Aluminum Clad Impact Casement Window", sheets 01 through 05 of 05, dated 03/23/07, with revision "**C1**" dated 06/27/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0829.18)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of series/ model HIG IG/ monolithic aluminum clad wood awning window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Element Materials Technology, Inc., Test Report No. **ESP–014011P.Casement.Dade**, dated 08/05/13, signed and sealed by Thomas **A**. Kolden, P. E.
   (Submitted under previous NOA No. 13–0829.18)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94

   along with marked–up drawings and installation diagram of series/ model HIG IG/ monolithic Aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–93260.01–201–18**, dated 09/15/09, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA No. 09–1027.05)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201–94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of series/model HIG IG/monolithic aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–93328.01–201–18**, dated 08/24/09, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA No. 09–1027.05)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202–94

   along with marked–up drawings and installation diagram of series/model HIG IG/monolithic aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–71262.08–201–18**, dated 05/27/07, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA No. 07–0619.12)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, dated 10/21/11, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 12–0620.11)
2. **Glazing complies with ASTM E1300–04/ 09**

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their **"DuPont Butacite® PVB Interlayer"** dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. **11–0624.02** issued to **E.I. DuPont DeNemours & Co.**, Inc. for their **"DuPont SentryGlas® Interlayer"** dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

1. Statement letter of conformance and complying with **FBC 5th Edition (2014)**, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 04/15/14, signed and sealed by Warren W. Schaefer, P. E.
2. Laboratory compliance letter for Test Report No. **ESP–014011P.Casement.Dade**, issued by Element Materials Technology, Inc., dated 08/05/13, signed and sealed by Thomas A. Kolden, P. E.
   (Submitted under previous NOA No. 13–0829.18)
3. Proposal issued by Product Control, 03/26/13, signed by Jaime D. Gascon, P. E.
   (Submitted under previous NOA No. 13–0829.18)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

4. Statement letter of conformance and complying with **FBC–2010**, dated 10/21/11, signed and sealed by Warren W. Schaefer, P.E.
   (Submitted under previous NOA No. 12–0620.11)
5. Statement letter of no financial interest, dated 10/19/11, signed and sealed by Warren W. Schaefer, P.E.
   (Submitted under previous NOA No. 12–0620.11)
6. Laboratory compliance letters for Test Reports No.'s **ATI–93260.01–201–18, ATI–93328.01–201–18** and **ATI–71262.08–201–18**, all issued by Architectural Testing, Inc., dated 09/15/09 and 08/25/09, all signed and sealed by Joseph A. Reed, P. E.
   (Submitted under previous NOA's No.'s 07–0619.12 and 09–1027.05)

G. OTHERS

1. Notice of Acceptance No. **13–0829.18**, issued to Pella Corporation for their Series **"HIG Casement Aluminum Clad Wood Casement Window – L.M.I."**, approved on 11/07/13 and expiring on 11/15/17.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF KD = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR CD = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

CORNER CONSTRUCTION

FRAME CORNERS: THE SIDE WOOD MEMBERS ARE BUTTED TO THE HEAD & SILL MEMBERS & SECURED WITH THREE(3) 14 GAGE 7/16" X 2 1/2" STAPLES. CLADDING IS MITERED TOGETHER, JOINED WITH A PLASTIC CORNER KEY PART NO. 77U00000 & SEALED WITH BUTYL DEVAN 578.12 OR BOSTIK 909 POLYURETHANE SEALANT. EACH CLADDING MEMBER IS SECURED TO THE KEY WITH 1 NO. 10 X 17/32" FH SCREW (2 TOTAL PER CORNER)

SASH CORNERS:

OPTION 1: MORTISE & TENON CONSTRUCTION. A 1/8" BEAD OF BOSTIK CHEM-CALK URETHANE IS PLACED AT THE TENNON BOTTOM SURFACE. WOOD GLUE IS PLACED AT THE TENNON SIDES. THE JOINT IS THEN ASSEMBLED & SECURED WITH ONE 15 GA. X 1 1/2" FINISH NAIL.

OPTION 2: SCREWED CONSTRUCTION. MEMBER ENDS ARE PROFILED AND PARTIALLY TENONED, BUTTED & ADHERED TOGETHER WITH BOSTIC 70-05/70-05A AND THEN SECURED WITH NO. 12 X 4" FH WOOD SCREWS (1 SCREW WITH SASH HEIGHTS LESS THAN 3.5"; 2 SCREWS WITH SASH HEIGHTS 3.5" TO 5 3/8"). THE CLADDING IS TABBED WITH THE TABS MEETING IN A BED OF BOSTIC IN A GROOVE ON THE EXTERIOR SASH FACE RESULTING FROM THE PARTIALLY TENNONED RAIL END.

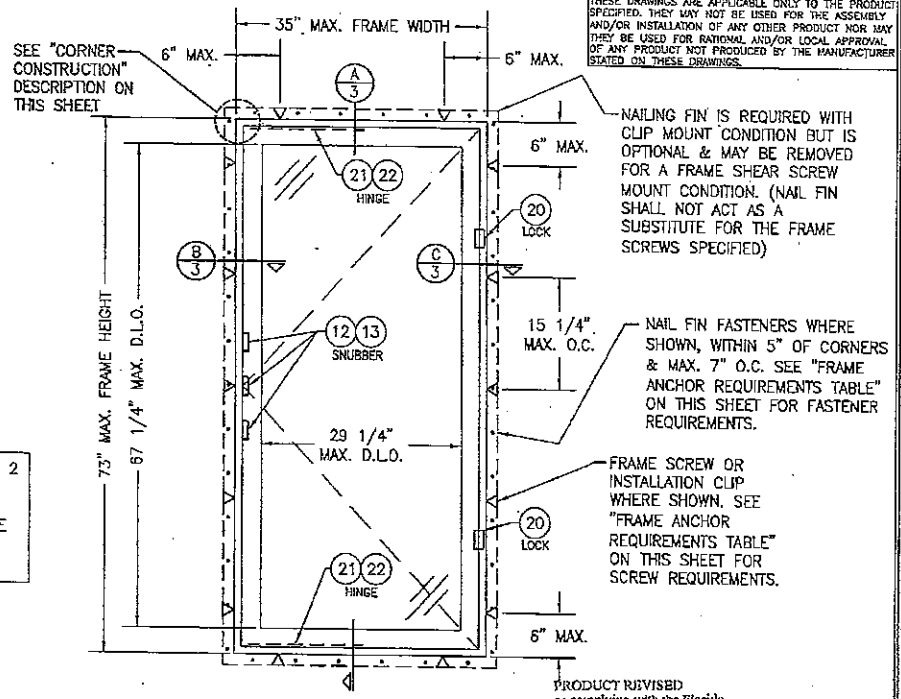
SASH CORNER OPTION 2 WINDOWS ARE LIMITED TO MAXIMUM +/-60 PSF DESIGN PRESSURE (SEE PRESSURE NOTE ON THIS SHEET.)

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	2" X 11 GA. ROOFING NAIL	1 7/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

(2) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.



EXTERIOR ELEVATION:
SINGLE CASEMENT WINDOW
SCALE: 3/4" = 1'-0"

ALLOWABLE WINDOW SIZE VS. PRESSURE TABLE (SINGLE WINDOWS)

GLASS OPTION	MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM FRAME WIDTH (IN.)	ALLOWABLE PRESSURE (PSF) POSITIVE	ALLOWABLE PRESSURE (PSF) NEGATIVE
A	73	35	75	75
B	73	36	75	75
	71	32	75	85
	65	35	75	85
C	73	35	75	75
D	73	35	75	75
	71	32	75	85
	65	35	75	85
E	71	32	(*) 64.8	(*) 64.8
	65	35	(*) 69.6	(*) 69.6

(*) WHEN THE 1/8" ANNEALED EXTERIOR PANE OF GLASS IN GLASS TYPE "E" IS SUBSTITUTED WITH 1/8" TEMPERED, THE ALLOWABLE PRESSURE MAY BE INCREASED TO +/-75 PSF.

ALLOWABLE PRESSURE NOTE:
PRESSURES LISTED IN TABLE CONSIDER WINDOWS WITH SASH CORNER CONSTRUCTION OPTION 1. WHEN SASH CORNER CONSTRUCTION OPTION 2 IS USED, ALLOWABLE PRESSURE MAY NOT EXCEED +/-60 PSF REGARDLESS OF PRESSURES SHOWN IN TABLE.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14-0428.11 Expiration Date 11/15/2017 By Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-0829.18 Expiration Date 11/15/2017 By Miami Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE PER NOA TESTING AND CURRENT STANDARDS	WBM	09/30/09
B1	UPDATE TO CURRENT STANDARDS	WBM	10/21/11
C1	UPDATE TO PER NEW TESTING	WBM	06/27/13

DRAWN BY: W.R.M. CHECKED BY: W.W.S. PLOT: 1=16 DATE: 03/23/07

DRAWING TITLE: HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

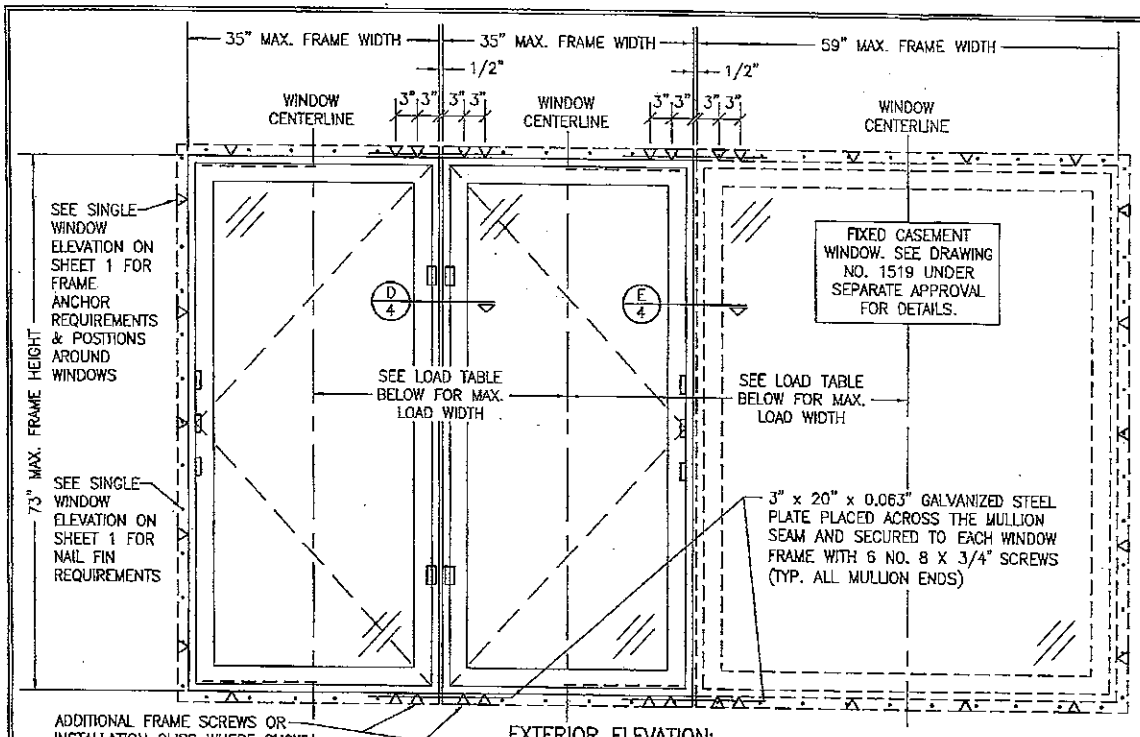
MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6808), 7980 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424

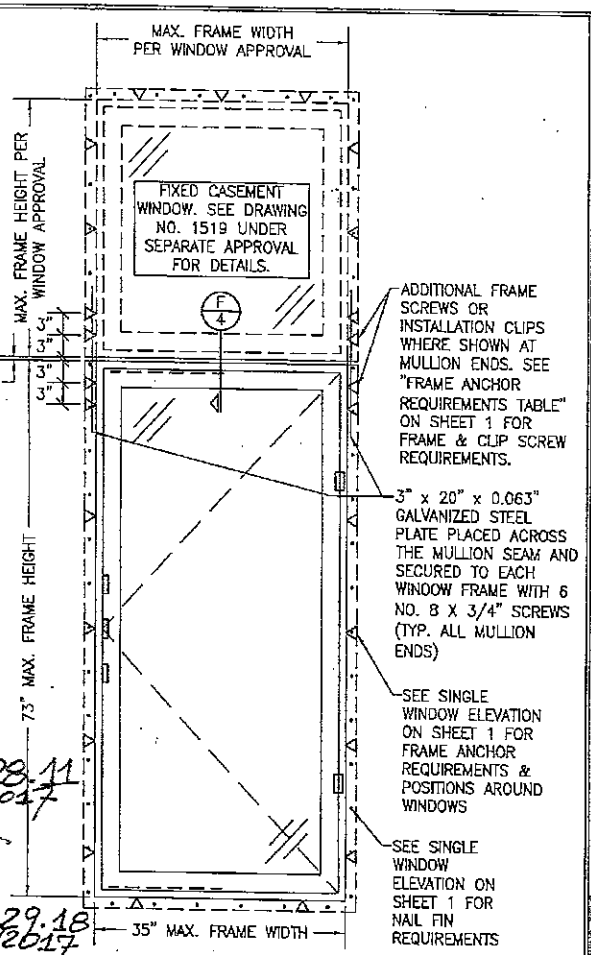
CERTIFICATION: AUG 27 2013, WARREN W. SCHAEFER, P.E. NO. 44135, P.E.

DRAWING NO. 1518, REV. C

SHEET NO. 1 OF 5



EXTERIOR ELEVATION:
MULTIPLE CASEMENT/FIXED WINDOW
SCALE: 3/4" = 1'-0"



EXTERIOR ELEVATION:
SINGLE CASEMENT WINDOW WITH TRANSOM
SCALE: 3/4" = 1'-0"

ALLOWABLE DESIGN PRESSURE TABLE (SIDE BY SIDE WINDOWS)			
MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF) MULLION CONDITION "XX"	"XO"
73	47.5	N/A	+75/-75
73	35.5	+75/-75	+75/-75
71	43.5	N/A	+75/-84.2
71	42.5	N/A	+75/-85
71	32.5	+75/-85	+75/-84.2
71	31.5	+75/-85	+75/-85
65	47.5	N/A	+75/-84.2
65	46.5	+75/-85	+75/-85
65	35.5	+75/-85	+75/-84.2
65	34.5	+75/-85	+75/-85

NOTES:
1. LOAD WIDTH IS THE DISTANCE BETWEEN WINDOW CENTERLINES.
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL WINDOW.
3. "XX" = MULLION BETWEEN 2 OPERABLE WINDOWS.
4. "XO" = MULLION BETWEEN AN OPERABLE AND FIXED WINDOW.
5. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT SIZE OPTION.

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Expiration Date 11/15/2017
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ALLOWABLE DESIGN PRESSURE (TRANSOM UNIT)
UNIT PRESSURE SHALL BE AS CONTROLLED BY THE INDIVIDUAL WINDOW ALLOWABLE PRESSURES. MULLION DOES NOT CONTROL THIS UNIT.

MULTIPLE UNIT NOTES:
1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERED FROM THE WINDOWS & THEIR MULLIONS.

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

AUG 27 2013

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

NO.	REVISION DESCRIPTION	BY	DATE

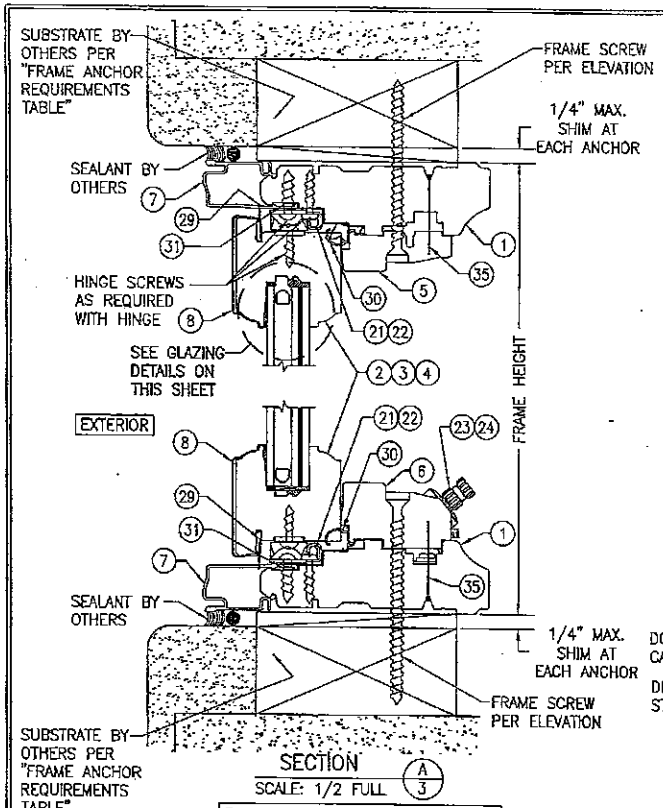
DRAWN BY: W.R.M. CHECKED BY: W.W.S.
PLOT: 1=16 DATE: 05/23/07

DRAWING TITLE: HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

MANUFACTURER: PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

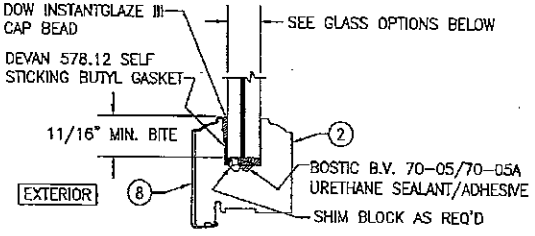
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL. 33418
PHONE: 561-744-3424

DRAWING NO. 1518 REV. C
SHEET NO. 2 OF 5



SECTION A / 3
SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.

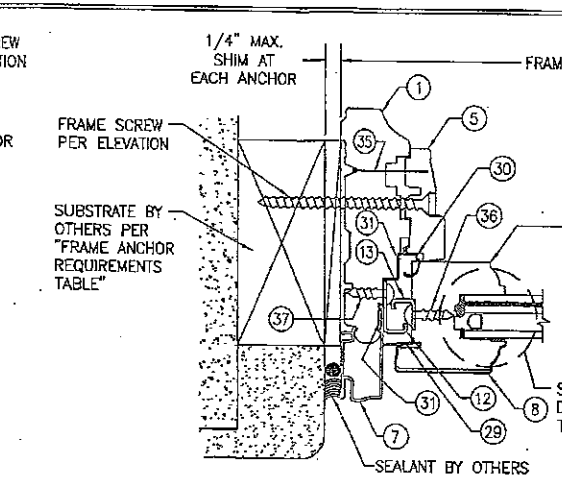


GLAZING DETAIL 1

GLASS OPTIONS:

OPTION A: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09 DUPONT BUTACITE PVB/1/4" AN.)

OPTION B: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09 DUPONT SG/1/4" AN.)



SECTION B / 3
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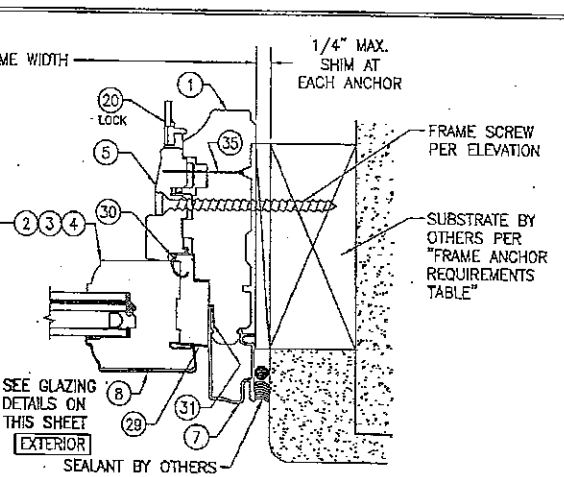
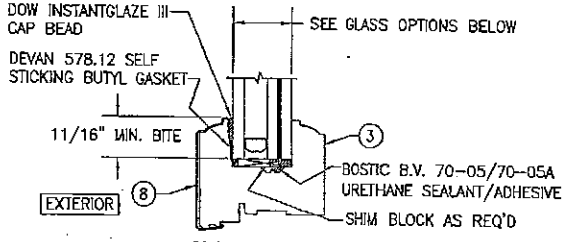
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



SECTION C / 3
SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



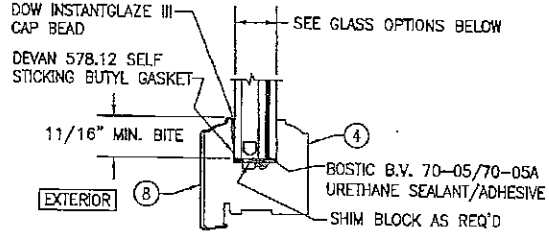
GLAZING DETAIL 2

GLASS OPTIONS:

OPTION C: 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT BUTACITE PVB/5/32" AN. INTERIOR)

OPTION D: 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT SG/5/32" AN. INTERIOR)

1" I.G. GLASS NOTE:
THE EXTERIOR 3/16" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 3/16" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.



GLAZING DETAIL 3

GLASS OPTIONS:

OPTION E: 11/16" THICK LAMINATED I.G. GLASS (1/8" AN. EXTERIOR; 1/4" SPACER; 7/64" AN./0.09 DUPONT BUTACITE PVB/7/64" AN. INTERIOR)

11/16" I.G. GLASS NOTE:
THE EXTERIOR 1/8" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 1/8" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0829.18
Expiration Date 11/15/2017
By
Miami Dade Product Control

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Acceptance No 14-0428.18
Expiration Date 11/15/2017
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 05/23/07

NO.	REVISION DESCRIPTION	BY	DATE

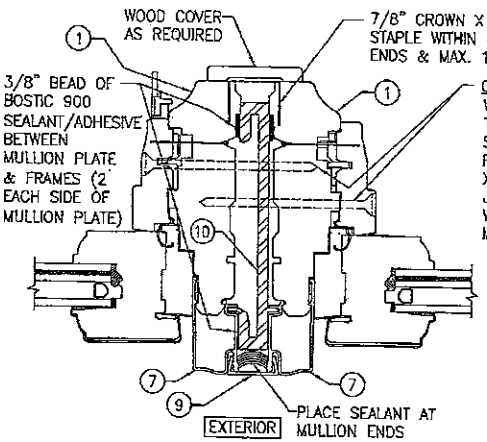
DRAWING TITLE
HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

MANUFACTURER
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

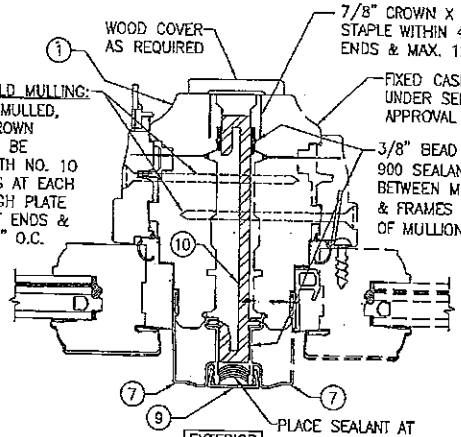
CERTIFICATION
AUG 27 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1518 | REV. C
SHEET NO. 3 OF 5



SECTION D/4
SCALE: 1/2 FULL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



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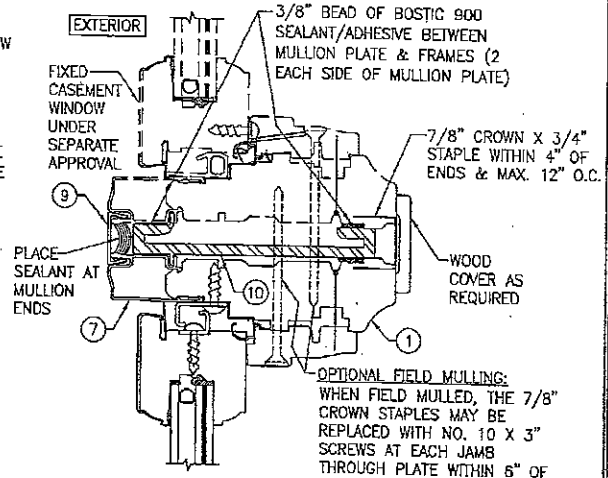

SECTION F/4
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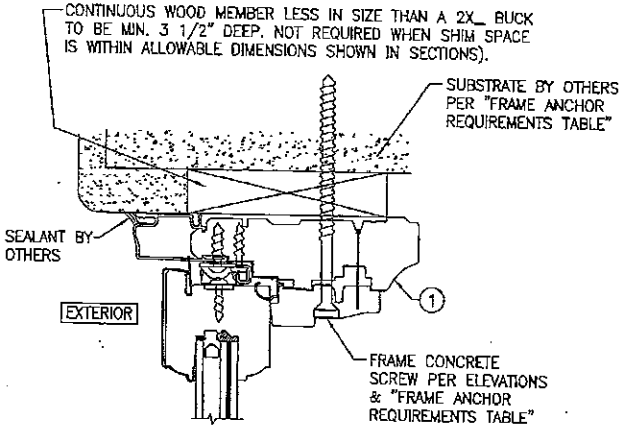
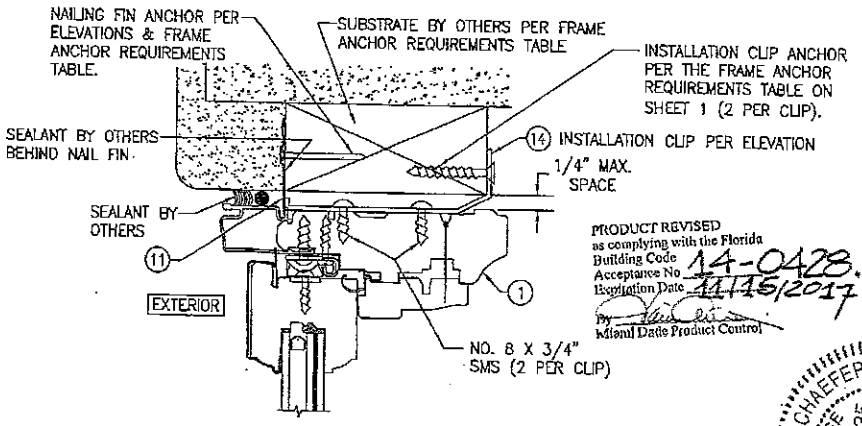
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL INSTALLATION CLIP/NAIL FIN DETAIL

(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

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WARREN W. SCHAEFER LICENSE NO. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: N.R.J.L. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 03/23/07

NO.	REVISION DESCRIPTION	BY	DATE

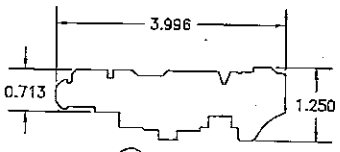
MANUFACTURER
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

DRAWING TITLE
HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

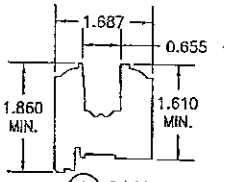
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7180 190TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE 561-744-3424

CERTIFICATION
AUG 27 2013
WARREN W. SCHAEFER, P.E. NO. 44135

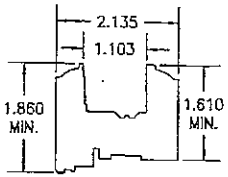
DRAWING NO. 1518 | REV. C
SHEET NO. 4 OF 5



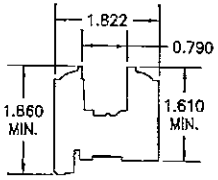
1 FRAME



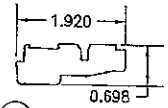
2 SASH
FOR GLASS OPTIONS "A" & "B"



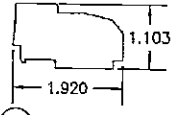
3 SASH
FOR GLASS OPTIONS "C" & "D"



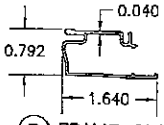
4 SASH
FOR GLASS OPTION "E"



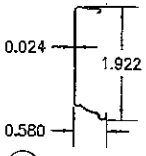
5 SASH STOP



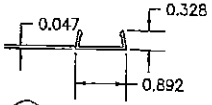
6 SASH STOP



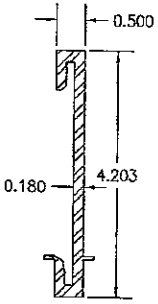
7 FRAME CLAD



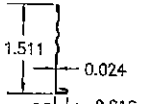
8 SASH CLAD



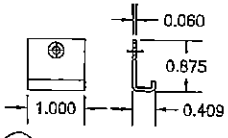
9 MULL COVER



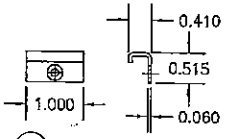
10 MULLION PLATE



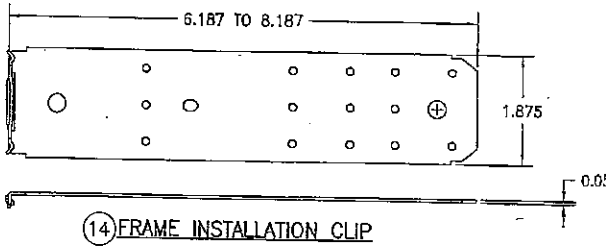
11 NAIL FIN



12 FRAME SNUBBER



13 SASH SNUBBER



14 FRAME INSTALLATION CLIP

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	FRAME JAMB	WOOD
2	SASH FOR GLASS OPTION A & B	WOOD
3	SASH FOR GLASS OPTION C & D	WOOD
4	SASH FOR GLASS OPTION E	WOOD
5	SASH STOP	WOOD
6	SASH STOP (VENT SILL)	WOOD
7	FRAME CLAD	6063-T6 ALUMINUM
8	SASH CLAD	3003-H14 ALUMINUM
9	MULLION COVER	6063-T6 ALUMINUM
10	MULLION PLATE	6063-T6 ALUMINUM
11	NAIL FIN	3003-H14 ALUMINUM
12	FRAME SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
13	SASH SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
14	INSTALLATION CLIP	50 KSI GALVANIZED STEEL
	HARDWARE	
20	LOCK (2 PER WINDOW)	PELLA #16DR
21	CENTER PIVOT HINGE (USED WITH ROTO OPERATOR)	OVERLAND 1AJC/1AJA
22	SCISSOR HINGE (USED WITH EGRESS OPERATOR)	PELLA 15EA/15E9 (16 GAGE 302/304 S.S.)
23	ROTO OPERATOR	PELLA #2AAX/2AAY
24	EGRESS OPERATOR	PELLA #2ABA
	SEALS & SEALANTS	
29	RAINSTRIP	PELLA PART #75T2 - PVC DUROMETER 75
30	WEATHERSTRIP	PELLA PART #505J - PP/SANTOPRENE 64
31	FRAME CLAD SEALANT	BUTYL
	MISCELLANEOUS FASTENERS	
35	1 3/8" 4D ANNULAR RINGSHANK BOX NAIL	WITHIN 5" OF CORNERS & 4" TO 9" O.C.
36	NO. 8 X 3/4" FH SCREW	1 PER SNUBBER
37	NO. 7 X 3/4" PH SCREW	1 PER SNUBBER

NOTE: WOOD USED IN TESTING WAS WESTERN PINE WITH A SPECIFIC GRAVITY OF G = 0.43 AND A MODULUS OF ELASTICITY OF E = 1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PELLA CORPORATION TO SELECT.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0829.18
Expiration Date 11/15/2017
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.14
Expiration Date 11/15/2017
By
Miami Dade Product Control

WARREN W. SCHAEFER P.E. LICENSE NO 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

CERTIFICATION
AUG 27 2013
WARREN W. SCHAEFER, P.E.
FLA. REG. NO. 44135

DRAWN BY: W.R.M.
CHECKED BY: W.W.S.
PLOT: 1=2
DATE: 03/23/07

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

MANUFACTURER
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 130TH COURT N., SUITE 203
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3499

DRAWING NO. 1518
REV. C
SHEET NO. 5 OF 5

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Behar Windows, LLC
4006 N. 30th Avenue
Hollywood, FL 33020

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "NOAH 3000" Aluminum Window Wall System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **BW-3000F**, titled "Series NOAH 3000 Fixed Window/Window Wall System (LMI)" sheets 1 thru 5, 6, 6A, and 7 thru 11 of 11, dated 04/18/11, with revision #4 dated 10/22/13, prepared by Stanton Engineering, Inc. signed and sealed by Christopher Stanton, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA# 12-0523.14** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

MIAMI-DADE COUNTY APPROVED

11/22/13

NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

Behar Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **BW-3000F**, titled "Series NOAH 3000 Fixed Window/Window Wall System (L.M.I.)" Sheets 1 thru 5, 6, 6A, and 7 thru 11 of 11, dated 04/18/11, with revision #4 dated 10/22/13, prepared by Stanton Engineering, Inc., signed and sealed by Christopher Stanton, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-0827.01-12,** dated 02/13/13, signed and sealed by Henry Hattem, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-1213.01-10**, dated 02/01/11, signed and sealed by Julio E. Gonzalez, P.E. ***(Submitted under NOA# 11-0427.01)***
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-0908.01-10,** dated 10/06/10, signed and sealed by Julio E. Gonzalez, P.E. ***(Submitted under NOA# 11-0427.01)***

Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Stanton Engineering, Inc., dated 01/28/11, revised on 07/14/11, and revised for compliance of FBC 2010 on 05/21/12, signed and sealed by Christopher Stanton, P.E.
   (Submitted under NOA# 11-0427.01)
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11–0624.02** issued to **E.I. DuPont DeNemours & Co.**, Inc. for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their **"DuPont Butacite® PVB Interlayer"** dated 04/11/13, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 2010**, dated June 10, 2013, signed and sealed by Christopher Stanton, P.E.
2. Statement letter of no financial interest, dated June 10, 2013, signed and sealed by Christopher Stanton, P.E.
3. Laboratory compliance letter for Test Report No. **ATLSF-0827.01-12**, issued by American Test Lab of South Florida, dated 02/13/13, signed and sealed by Henry Hattem, P.E.
3. Laboratory compliance letter for Test Report No. **ATLSF-1213.01-10**, issued by American Test Lab of South Florida, dated 02/01/11, signed and sealed by Julio E. Gonzalez, P.E.
   (Submitted under NOA# 11-0427.01)
4. Laboratory compliance letter for Test Report No. **ATLSF-0908.01-10**, issued by American Test Lab of South Florida, dated 10/06/10, signed and sealed by Julio E. Gonzalez, P.E.
   (Submitted under NOA# 11-0427.01)

G. OTHER

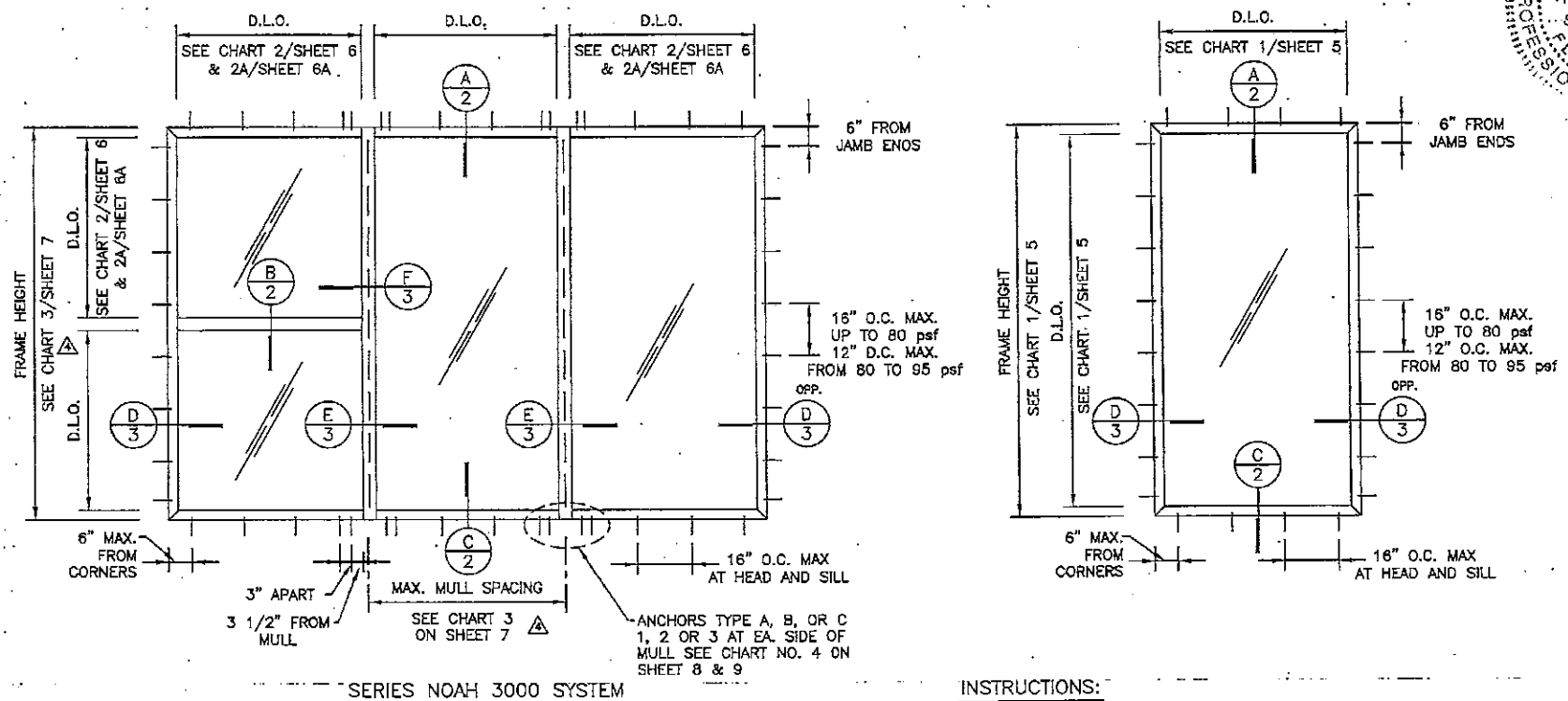
1. Notice of Acceptance No. **12-0523.14**, issued to Behar Windows, LLC for their Series "NOAH 3000" Aluminum Window Wall System – L.M.I., approved on 07/19/12 and expiring on 08/11/16.

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

BEHAR WINDOW- SERIES NOAH 3000 WINDOW WALL

TYPICAL ELEVATIONS



SERIES NOAH 3000 SYSTEM

THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 EDITION, INCLUDING HIGH VELOCITY HURRICANE ZONE.

WOOD BUCKS, BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED AND SHOWN ON THE DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A 33% INCREASE IN ALLOWABLE STRESS IS NOT USED IN THE DESIGN OF THIS SYSTEM.

ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2: SEE CHART NO. 1 ON SHEET 5 AND CHART NO. 2 ON SHEET 6 AND CHART 2A ON SHEET 6A FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON FRAME CONFIGURATION AND APPLICABLE WIND DURATION. THE CAPACITY SHOULD EXCEED THE REQUIRED DESIGN LOAD.

STEP 3: CHECK MULLION CAPACITY FOR GIVEN SPACING AND HEIGHT USING CHART NO. 3 ON SHEET 7. ⚠4 THE CAPACITY SHOULD EXCEED THE REQUIRED DESIGN LOAD.

STEP 4: USING CHART NO. 4 ON SHEET 8 & 9, SELECT ANCHOR OPTION WITH DESIGN RATING THAT EXCEEDS THE REQUIRED DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 13-0716.10 Expiration Date Dec. 11, 2016

By Manuel Perez
Miami Dade Product Control

NO.	DATE	REVISIONS
⚠1	12-22-11	REVISED ANCHOR GROUPS
⚠2	5-21-12	REVISED CODE EDITION
⚠3	6-6-13	ADDED GLASS B & C / UNREINF. MULL
⚠4	10-22-13	REVISED PER COUNTY REVIEW
⚠5		

CHRISTOPHER STANTON * LICENSE * No. 69316 * STATE OF FLORIDA * PROFESSIONAL ENGINEER
NOV 14 2013
CHRISTOPHER STANTON, P.E. FLORIDA REG. #69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

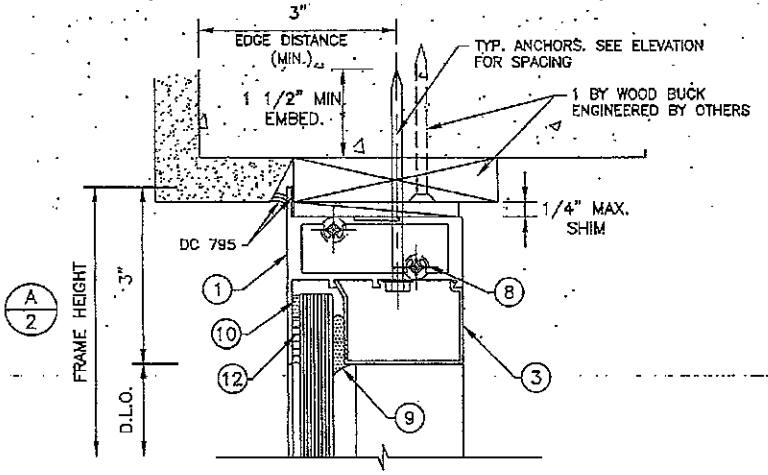
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

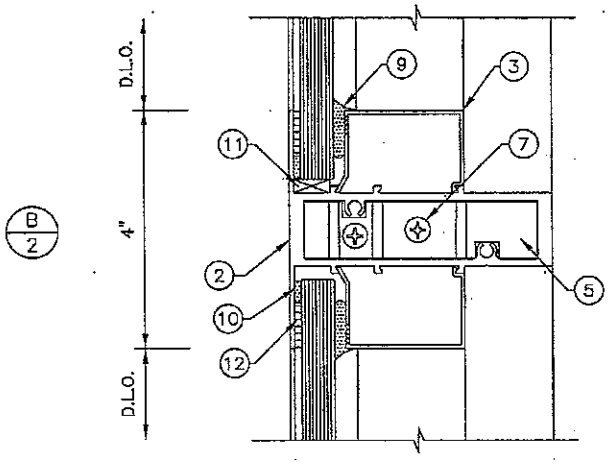
Behar Windows LLC
4008 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

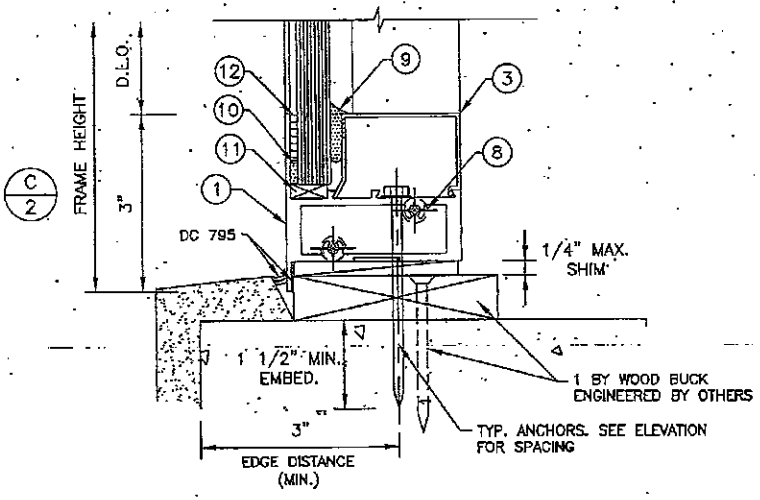
SCALE:	NOTED
DATE:	4/5/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

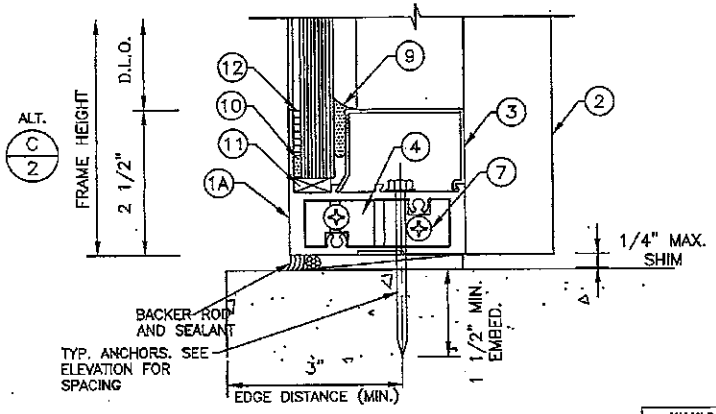
BW-3000 F
DRAWING NO.

SHEET NO.
1 of 11









ALTERNATE INSTALLATION
WITH FLANGE REMOVED
(HEAD, SILL AND JAMB)

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			
6			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Jul. 11, 2016
By Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON * LICENSE No 68316 * STATE OF FLORIDA * PROFESSIONAL ENGINEER *
NOV 1 2013
CHRISTOPHER STANTON P.E.
FLA P.E. #68316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX (561) 393-1008

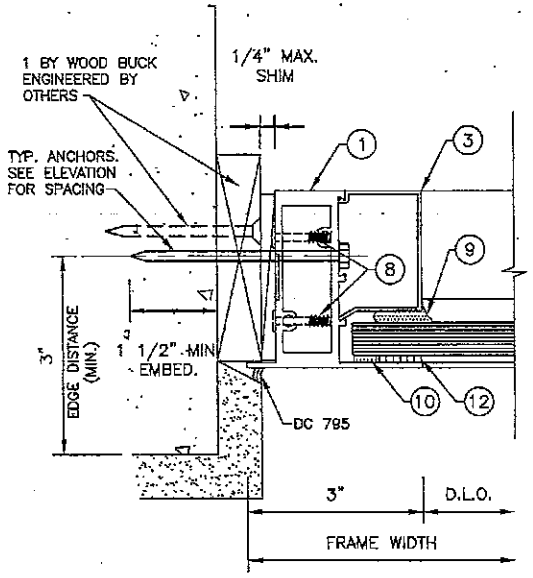
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

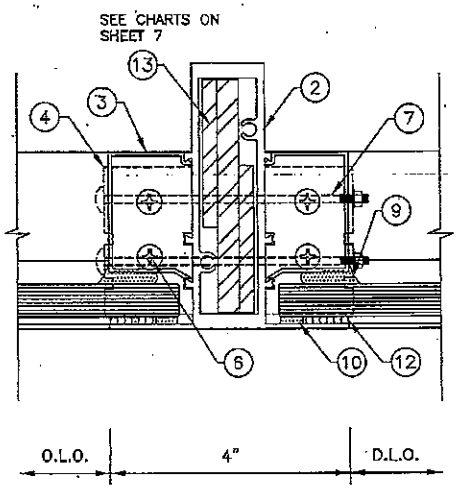
SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

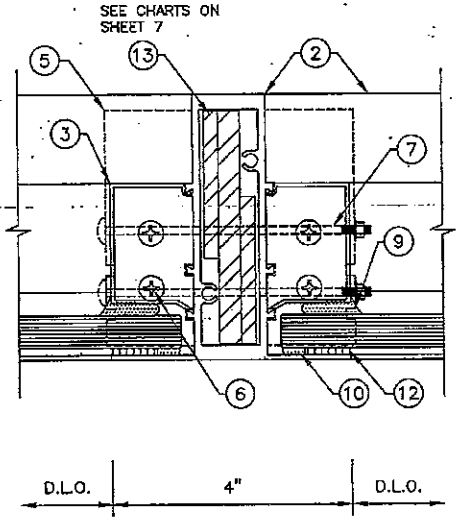
SHEET NO.
2 of 11



D/3



E/3



F/3

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 13-0724.18
Expiration Date 2017 11 2016
By Manuel Perez
Miami Dade Product Control

CHRISTOPHER STANTON
LICENSE No 69316
STATE OF FLORIDA
PROFESSIONAL ENGINEER
NOV 11 2013
CHRISTOPHER STANTON, P.E.
FLA P.E. # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

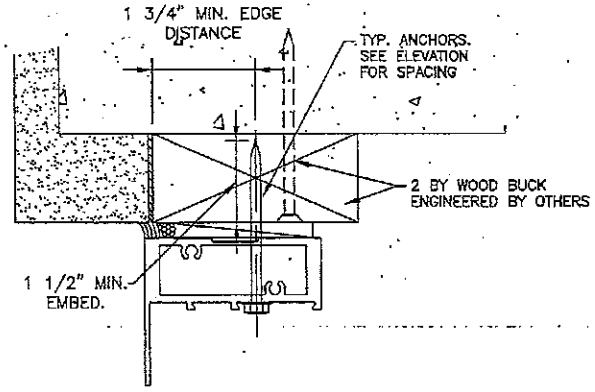
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

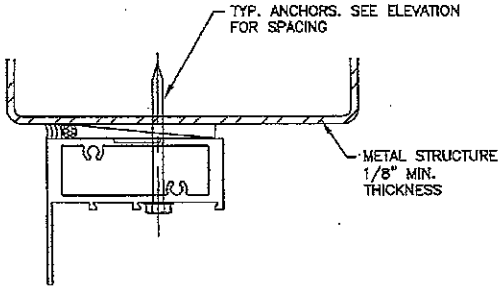
SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

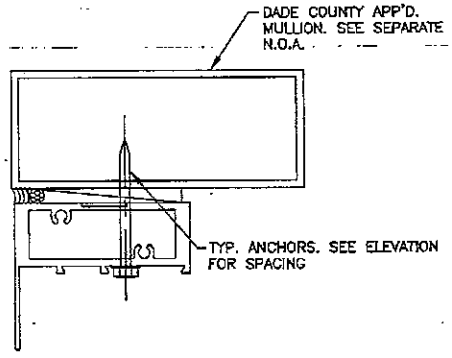
SHEET NO.
3 of 11



ANCHOR TYPE – C



ANCHOR TYPE – B



ANCHOR TYPE – B

WOOD BUCKS NOT BY BEHAR WINDOWS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS:

SEE ELEVATIONS FOR SPACING

TYPE "A"–1/4" ULTRACONS BY ELCO

THRU 1BY WOOD OR 2BY WOOD BUCKS INTO 3000 PSI MIN. CONC. OR C–90 GROUT FILLED BLOCK. 1 1/2" MIN. EMBED. INTO CONC. OR MASONRY

DIRECTLY INTO 3000 PSI MIN. CONCRETE. 1 1/2" MIN. EMBED. INTO CONC.

TYPE "B"–#14 SMS OR 1/4" SELF DRILLING SCREWS

INTO METAL STRUCTURES (STEEL OR ALUM. 1/8" MIN. THICK.)

STEEL: Fy – 36 KSI MIN.
ALUMINUM: 6063–T5 MIN.
(STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED)

TYPE "C"–1/4" ULTRACONS BY ELCO

INTO 2BY WOOD BUCKS OR WOOD SUBSTRAIGHTS 1 1/2" MIN. PENETRATION INTO #2 SYP

TYPICAL EDGE DISTANCE

INTO CONC. OR MASONRY = 3" MIN.
INTO WOOD STRUCTURE = 1 3/4" MIN.
INTO METAL STRUCTURE = 3/8" MIN.

4 MINIMUM ANCHOR SPACING

ANCHOR TYPE "A" = 3" MIN.
ANCHOR TYPE "B" = 1" MIN.
ANCHOR TYPE "C" = 2 1/2" MIN.

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	6-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.06
Expiration Date Aug. 11, 2016
By Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON * No. 69316 * STATE OF FLORIDA * PROFESSIONAL ENGINEER
NOV 11 2013
CHRISTOPHER STANTON, P.E.
FLA P.E. # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4008 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
4 of 11

CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS PSF

NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (–)	EXT. (+) INT. (–)
26 1/2"	25"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	38 3/8"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	50 5/8"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	63"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	76"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0

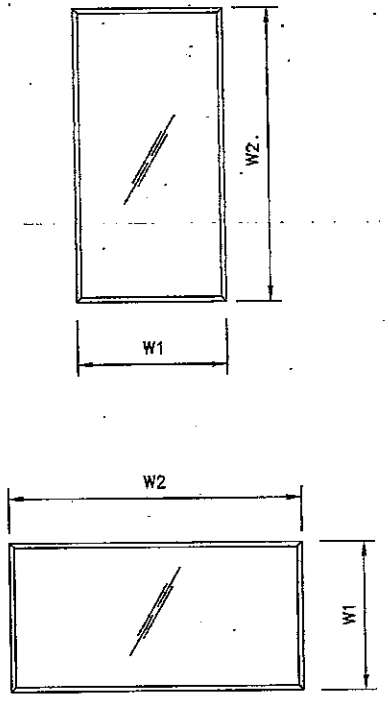
CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS PSF

NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	48"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	80.0
24"	60"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	80.0
24"	72"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	–
24"	84"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	–
60"		100.0	–

CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS PSF

NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	96"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	–
54"		100.0	–
60"		100.0	–
24"	108"	100.0	–
30"		100.0	–
36"		100.0	–
42"		100.0	–
48"		100.0	–
54"		100.0	–
60"		100.0	–
24"	120"	100.0	–
30"		100.0	–
36"		100.0	–
42"		100.0	–
48"		100.0	–
54"		100.0	–
60"		100.0	–

TYPICAL ELEVATION



NOTE:
W1 = SHORT SIDE
W2 = LONG SIDE
WINDOW MAY BE INSTALLED VERTICALLY OR HORIZONTALLY

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)–5"] X [(W2)–5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)–4 1/2"] X [(W2)–4 1/2"]

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Aug. 12, 2016
By Manuel Perez
Miami Dade Product Control

CHRISTOPHER STANTON SEAL LICENSE No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 21 2013
CHRISTOPHER STANTON P.E. FLA. LIC. #69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

SCALE:	NOTED
DATE:	4/16/11
DRAWN BY:	DCI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
5 of 11

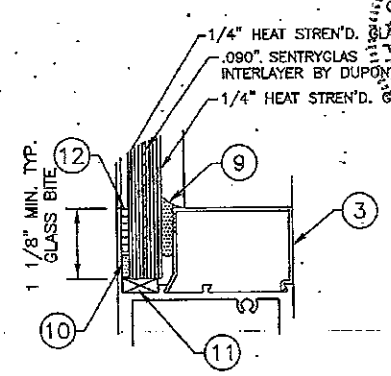
CHART NO. 2 GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF		
NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	87"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0
36"	90"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0

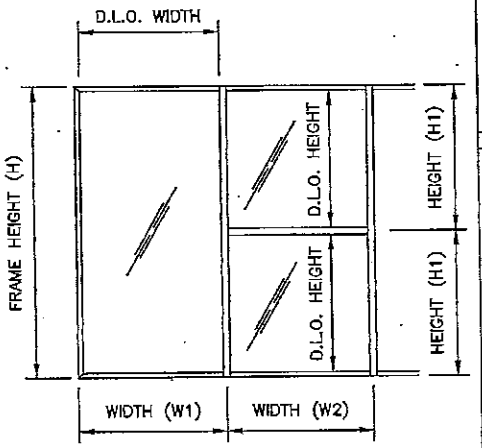
CHART NO. 2 GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF		
NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	93"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0
36"	99"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
36"	102"	100.0
38"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
65"		100.0

CHART NO. 2 GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF		
NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	105"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
36"	108"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
62"		100.0
36"	111"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0

CHART NO. 2 GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF		
NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	114"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
58"		100.0
36"	117"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
36"	120"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
55"		100.0

GLASS TYPE "A"





NOTE:

4 GLASS CHECKED PER ASTM E1300–04 AND TESTING.

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)–5"] OR [(W2)–4"] X [(H)–6"] OR [(H1)–5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)–4 1/2"] OR [(W2)–4"] X [(H)–5"] OR [(H1)–4 1/2"]

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Dec 1, 2016
By Miami-Dade Product Control

CHRISTOPHER STANTON LICENSE No. 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER STANTON, P.E. FLA Reg. # 69316

NOV 1st 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-6560

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DSI
CHECKED BY: C.S.

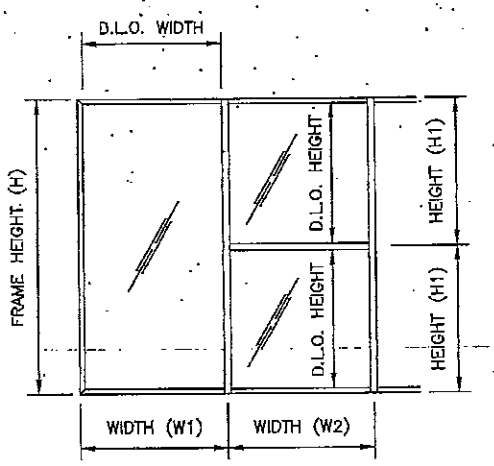
BW-3000 F

DRAWING NO.

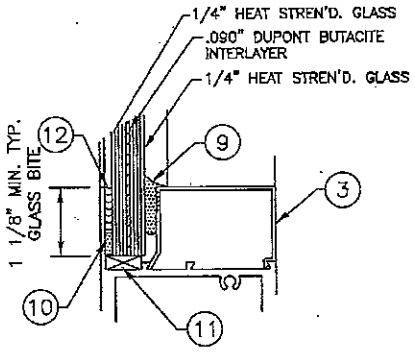
SHEET NO.

6 of 11

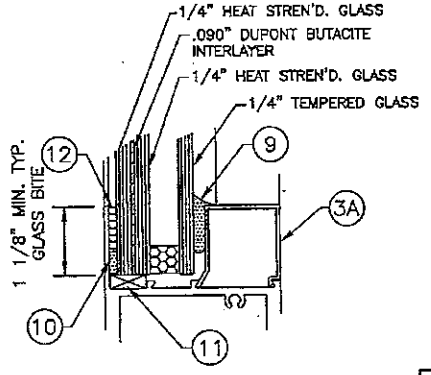
CHART NO. 2A GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF		
NOMINAL DIMS.		GLASS TYPE "B" & "C"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	60"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
51"		80.0
54"		80.0
57"		80.0
60"		80.0
63"		80.0
66"		80.0
69"		80.0
72"		80.0
36"	72"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
51"		80.0
54"		80.0
36"	84"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
36"	92"	80.0
39"		80.0
42"		80.0
44"		80.0



GLASS TYPE "B"



GLASS TYPE "C"



NOTE:

4 GLASS CHECKED PER ASTM E1300-04 AND TESTING.

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)–5"] OR [(W2)–4"] X [(H)–6"] OR [(H1)–5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)–4 1/2"] OR [(W2)–4"] X [(H)–5"] OR [(H1)–4 1/2"]

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-0724.10 Expiration Date Dec. 11, 2016

By Manuel Perez Miami Dade Product Control

CHRISTOPHER STANTON LICENSE No 68316 STATE OF FLORIDA PROFESSIONAL ENGINEER

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW /WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5580

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

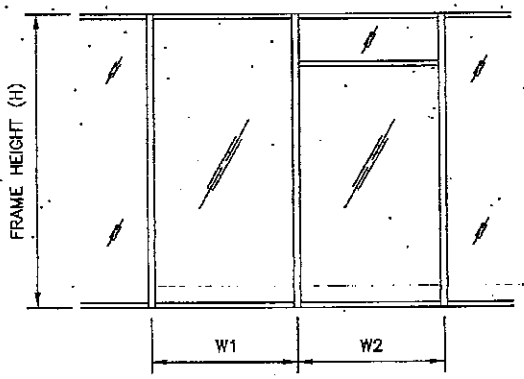
BW-3000 F
DRAWING NO.

SHEET NO.
6Aof 11

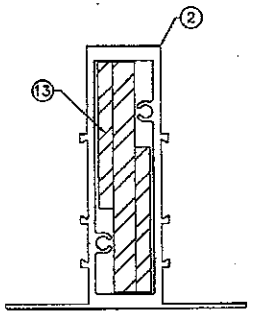
CHART NO. 3 REINFORCED MULLION LOAD CAPACITY PSF		
NOMINAL DIMS.		N3002 W/ STEEL
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)
24"	78"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	84"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	96"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0

CHART NO. 3 REINFORCED MULLION LOAD CAPACITY PSF		
NOMINAL DIMS.		N3002 W/ STEEL
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)
24"	102"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	108"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		93.9
24"	114"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		92.7
24"	120"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		93.0
60"		83.7

TYPICAL ELEVATION



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



INTERMEDIATE VERTICAL MULLION

N3002 WITH STD. STEEL REINFORCING

	Ix = X in^4	Sx = X in^3
ALUMINUM	5.300	2.100
STEEL	3.400	1.700
TOTAL *	15.160	

* Ix ALUM. + Ix STL. X 2.9

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

CHRISTOPHER STANTON LICENSE No 69316 STATE OF FLORIDA SEAL NOV 1 1 2013

CHRISTOPHER STANTON, P.E. FLA REG # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
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SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Dec. 11, 2016
By Manuel Perez
Miami Dade Product Control

4

SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

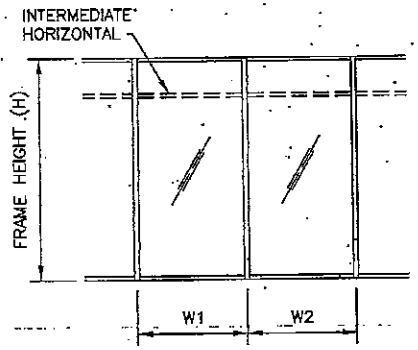
SHEET NO.
7 of 11

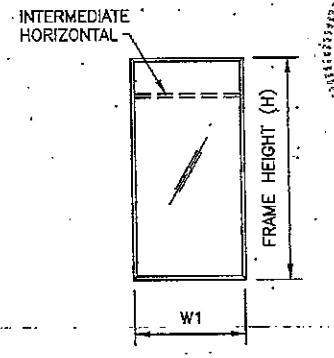
CHART NO. 4
ANCHOR LOAD CAPACITY – PSF.

NOMINAL DIMS.		ANCHOR TYPE		
		"A1"	"A2"	"A3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	95.0	95.0	95.0
30"		91.0	95.0	95.0
36"		76.0	95.0	95.0
42"		65.0	95.0	95.0
48"		57.0	95.0	95.0
54"		51.0	95.0	95.0
60"		46.0	91.0	95.0
66"		42.0	83.0	95.0
72"		38.0	76.0	95.0
24"	84"	95.0	95.0	95.0
30"		85.0	95.0	95.0
36"		71.0	95.0	95.0
42"		61.0	95.0	95.0
48"		53.0	95.0	95.0
54"		47.0	94.0	95.0
60"		42.0	85.0	95.0
66"		39.0	77.0	95.0
72"		35.0	71.0	95.0
24"	96"	93.0	95.0	95.0
30"		74.0	95.0	95.0
36"		62.0	95.0	95.0
42"		53.0	95.0	95.0
48"		46.0	93.0	95.0
54"		41.0	82.0	95.0
60"		37.0	74.0	95.0
66"		34.0	67.0	95.0
72"		31.0	62.0	93.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"A1"	"A2"	"A3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	82.0	95.0	95.0
30"		66.0	95.0	95.0
36"		55.0	95.0	95.0
42"		47.0	94.0	95.0
48"		41.0	82.0	95.0
54"		37.0	73.0	95.0
60"		33.0	66.0	85.0
66"		30.0	60.0	90.0
72"		27.0	55.0	82.0
24"	114"	78.0	95.0	95.0
30"		62.0	95.0	95.0
36"		52.0	95.0	95.0
42"		45.0	89.0	95.0
48"		39.0	78.0	95.0
54"		35.0	69.0	95.0
60"		31.0	62.0	94.0
66"		28.0	57.0	85.0
72"		26.0	52.0	78.0
24"	120"	74.0	95.0	95.0
30"		59.0	95.0	95.0
36"		49.0	95.0	95.0
42"		42.0	85.0	95.0
48"		37.0	74.0	95.0
54"		33.0	66.0	95.0
60"		30.0	59.0	89.0
66"		27.0	54.0	81.0
72"		25.0	49.0	74.0



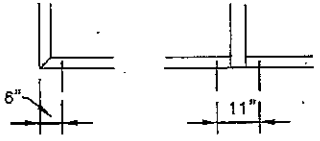


ANCHOR TYPES: SEE SHEET 4 FOR DESCRIPTION

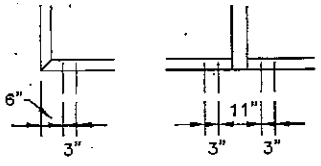
"A1" – (1) ANCHOR TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"A2" – (2) ANCHORS TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"A3" – (3) ANCHORS TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"B1" – (1) ANCHOR TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"B2" – (2) ANCHORS TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"B3" – (3) ANCHORS TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"C1" – (1) ANCHOR TYPE "C" AT EA. SIDE OF MULLION OR JAMB
"C2" – (2) ANCHORS TYPE "C" AT EA. SIDE OF MULLION OR JAMB
"C3" – (3) ANCHORS TYPE "C" AT EA. SIDE OF MULLION OR JAMB

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION

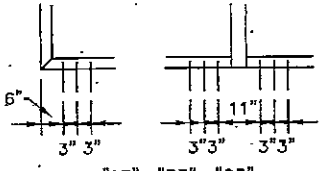
TYPICAL ANCHOR CLUSTERS



"A1", "B1", "C1"



"A2", "B2", "C2"



"A3", "B3", "C3"

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Aug. 11, 2016
By: Miami-Dade Product Control

CHRISTOPHER STANTON * LICENSE * No 69316 * STATE OF * PROFESSIONAL ENGINEER
NOV 21 2013
CHRISTOPHER STANTON, P.E.
NO. P.E. 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

SCALE: NOTED
DATE: 4/19/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
8 of 11

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"B1"	"B2"	"B3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	95.0	95.0	95.0
30"		95.0	95.0	95.0
36"		81.0	95.0	95.0
42"		69.0	95.0	95.0
48"		61.0	95.0	95.0
54"		54.0	95.0	95.0
60"		49.0	95.0	95.0
66"		44.0	88.0	95.0
72"		41.0	81.0	95.0
24"	84"	95.0	95.0	95.0
30"		90.0	95.0	95.0
36"		75.0	95.0	95.0
42"		64.0	95.0	95.0
48"		56.0	95.0	95.0
54"		50.0	95.0	95.0
60"		45.0	90.0	95.0
66"		41.0	82.0	95.0
72"		38.0	75.0	95.0
24"	96"	95.0	95.0	95.0
30"		79.0	95.0	95.0
36"		66.0	95.0	95.0
42"		56.0	95.0	95.0
48"		49.0	95.0	95.0
54"		44.0	88.0	95.0
60"		40.0	79.0	95.0
66"		36.0	72.0	95.0
72"		33.0	66.0	95.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"B1"	"B2"	"B3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	88.0	95.0	95.0
30"		70.0	95.0	95.0
36"		59.0	95.0	95.0
42"		50.0	95.0	95.0
48"		44.0	88.0	95.0
54"		39.0	78.0	95.0
60"		35.0	70.0	95.0
66"		32.0	64.0	95.0
72"		29.0	59.0	88.0
24"	114"	83.0	95.0	95.0
30"		67.0	95.0	95.0
36"		55.0	95.0	95.0
42"		48.0	95.0	95.0
48"		42.0	83.0	95.0
54"		37.0	74.0	95.0
60"		33.0	67.0	95.0
66"		30.0	60.0	91.0
72"		28.0	55.0	83.0
24"	120"	79.0	95.0	95.0
30"		63.0	95.0	95.0
36"		53.0	95.0	95.0
42"		45.0	90.0	95.0
48"		40.0	79.0	95.0
54"		35.0	70.0	95.0
60"		32.0	63.0	95.0
66"		29.0	57.0	86.0
72"		26.0	53.0	79.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"C1"	"C2"	"C3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	95.0	95.0	95.0
30"		95.0	95.0	95.0
36"		83.0	95.0	95.0
42"		71.0	95.0	95.0
48"		62.0	95.0	95.0
54"		55.0	95.0	95.0
60"		50.0	95.0	95.0
66"		45.0	90.0	95.0
72"		41.0	83.0	95.0
24"	84"	95.0	95.0	95.0
30"		92.0	95.0	95.0
36"		77.0	95.0	95.0
42"		66.0	95.0	95.0
48"		58.0	95.0	95.0
54"		51.0	95.0	95.0
60"		46.0	92.0	95.0
66"		42.0	84.0	95.0
72"		38.0	77.0	95.0
24"	96"	95.0	95.0	95.0
30"		81.0	95.0	95.0
36"		67.0	95.0	95.0
42"		58.0	95.0	95.0
48"		51.0	95.0	95.0
54"		45.0	90.0	95.0
60"		40.0	81.0	95.0
66"		37.0	73.0	95.0
72"		34.0	67.0	95.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"C1"	"C2"	"C3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	90.0	95.0	95.0
30"		72.0	95.0	95.0
36"		60.0	95.0	95.0
42"		51.0	95.0	95.0
48"		45.0	90.0	95.0
54"		40.0	80.0	95.0
60"		36.0	72.0	95.0
66"		33.0	65.0	95.0
72"		30.0	60.0	90.0
24"	114"	85.0	95.0	95.0
30"		68.0	95.0	95.0
36"		57.0	95.0	95.0
42"		49.0	95.0	95.0
48"		43.0	85.0	95.0
54"		38.0	76.0	95.0
60"		34.0	68.0	95.0
66"		31.0	62.0	93.0
72"		28.0	57.0	85.0
24"	120"	81.0	95.0	95.0
30"		65.0	95.0	95.0
36"		54.0	95.0	95.0
42"		46.0	92.0	95.0
48"		40.0	81.0	95.0
54"		36.0	72.0	95.0
60"		32.0	65.0	95.0
66"		29.0	59.0	88.0
72"		27.0	54.0	81.0

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date April 11, 2016
By Manuel Inoa
Miami-Dade Product Control

CHRISTOPHER STANTON LICENSE No 59316 STATE OF FLORIDA
CHRISTOPHER STANTON FLA P.E. # 59316
DATE: JUL 1 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
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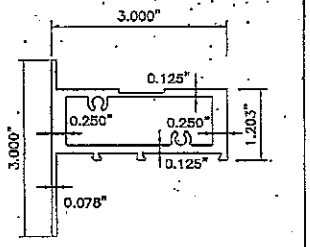
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-6660

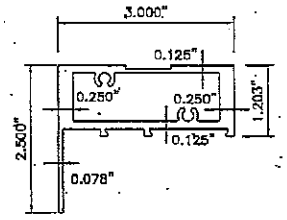
SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGT
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

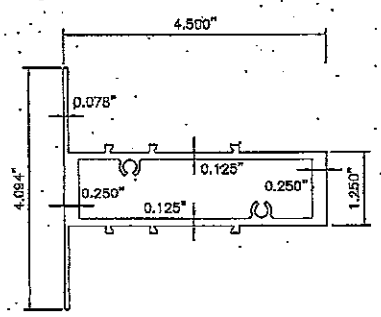
SHEET NO.
9 of 11



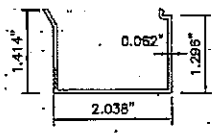
① N3001 – HEAD/SILL/JAMB



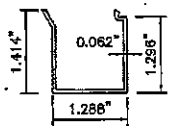
①A N3001 (ALT.) – HEAD/SILL/JAMB



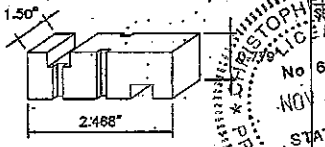
② N3002 – MULLION/INT. HORIZONTAL



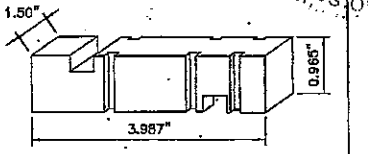
③ N3003 – GLASS STOP MONOLITHIC



③A N3004 – GLASS STOP INSULATED



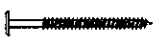
④ B1 – SHEAR BLOCK



⑤ B2 – SHEAR BLOCK

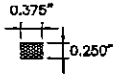
⑥ SHEAR BLOCK FASTENER

⑦ MULL SHEAR BLOCK ANCHOR

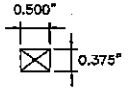


⑧ ASSEMBLY SCREW

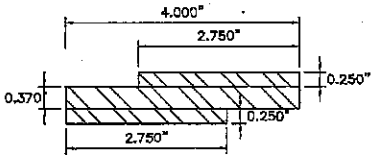
⑨ GLAZING GASKET



⑩ GLAZING TAPE



⑪ SETTING BLOCK



⑬ STEEL REINFORCING

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	5-5-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			
6			

MATERIALS LIST

ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
①	N3001	AS REQ'D.	HEAD/JAMB/SILL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
①A	N3001 (ALT.)	AS REQ'D.	EQ. LEG HEAD/JAMB/SILL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
②	N3002	AS REQ'D.	MULLION/INTERMEDIATE HORIZONTAL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
③	N3003	AS REQ'D.	GLASS STOP (MONOLITHIC)	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
③A	N3004	AS REQ'D.	GLASS STOP (INSULATED)	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
④	B1	AS REQ'D.	HEAD/SILL SHEAR BLOCK	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
⑤	B2	AS REQ'D.	INT. HORIZONTAL SHEAR BLOCK	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
⑥	S1	2/SHEAR BLOCK	#8–32 x 1/2" PH THREAD CUTTING	STAINLESS STEEL	
⑦	S2	2/SHEAR BLOCK	#10–24 x 5" PHPMS W/ HEX NUT	STAINLESS STEEL	
⑧	S3	2/SHEAR BLOCK	#12–24 x 2 1/2" THPMS	STAINLESS STEEL	
⑨	RG12100	AS REQ'D.	GLAZING GASKET	NEOPRENE	C.R. LAURENCE
⑩	V–2108	AS REQ'D.	GLAZING TAPE	3/8" x 1/4" VINYL FOAM	NORTON
⑪	SB584	2/LITE	SETTING BLOCK	2" x 1/2" x 3/8"	C.R. LAURENCE
⑫	SSG4000AC	AS REQ'D.	GLAZING COMPOUND		GENERAL ELECTRIC
⑬	ST1	AS REQ'D.	STEEL REINFORCING	A36	

MIAMI-DADE COUNTY USE ONLY

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Building Code
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Expiration Date NOV. 11, 2016
By Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON LICENSE No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 1 2013
CHRISTOPHER STANTON, P.E.
FLA. P.E. # 69316

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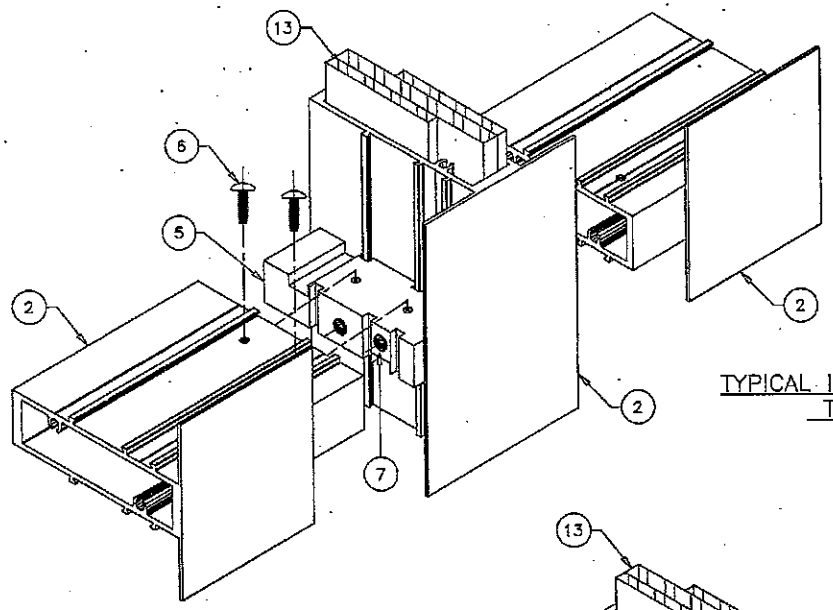
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5660

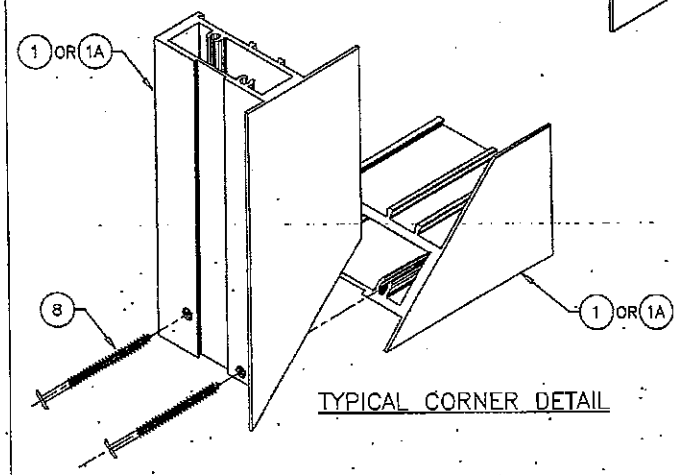
SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

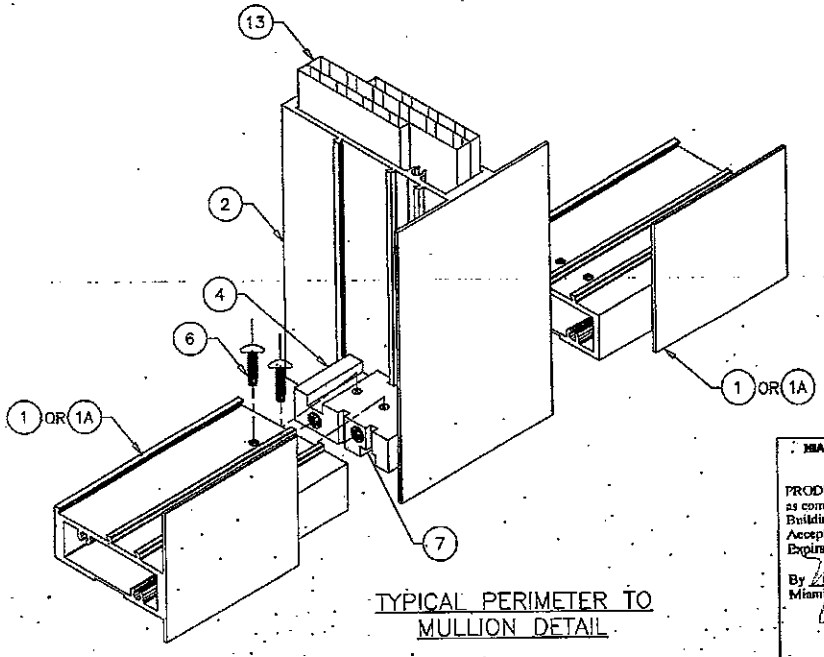
SHEET NO.
10 of 11



TYPICAL INTERMEDIATE HORIZONTAL TO MULLION DETAIL



TYPICAL CORNER DETAIL



TYPICAL PERIMETER TO MULLION DETAIL

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-5-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

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By Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON * PROFESSIONAL ENGINEER * LICENSE No 69316 STATE OF FLORIDA
NOV 11 2013
CHRISTOPHER STANTON, P.E. FLA. P.E. # 69316

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SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4008 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5580

SCALE:	NOTED
DATE:	4/15/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
11 of 11

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

ECO Windows Systems, LLC
9114 N. W. 106th Street,
Medley, FL 33178

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 600 Aluminum Outswing Doors-L.M.I.

APPROVAL DOCUMENT: Drawing No. **W12-08**, titled "Series 600 Alum Outswing Entrance Door (L.M.I.)", sheets 1 through 9 of 9, prepared by AL-Farooq Corporation, dated 02/13/12 and last revised on Jun 28, 2012, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitation:

1. See Single or Double Door Design Pressure (DP) ratings in sheet 2 and Single or Double Door DP ratings with sidelites (w/wo Reinforcement) in sheet 3. The max door leaf width shall not to exceed 37".
2. Laminated glass types G1 and G2 are limited to .090" DuPont's PVB and glass type G3 is limited to Insulated laminated glass w/ .090" Solutia interlayer.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

2/19/13

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections
2. Drawing No. **W12-08**, titled "Series 600 Alum Outswing Entrance Door (L.M.I.)", sheets 1 through 9 of 9, prepared by AL-Farooq Corporation, dated 02/13/12 and last revised on Jun 28, 2012, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

   along with marked-up drawings and installation diagram of an aluminum Outswing French door, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-12-3357, HETI-12-3358, HETI-12-4003, HETI-12-4003 and HETI-12-4027**dated 03/16-26/12, all signed and sealed by Rafael E. Droz-Seda, P. E.
   Note: The above referenced test reports have been revised by an addendum letter dated June 29, 2012, issued by Hurricane Engineering & Testing, Inc., signed and sealed by Rafael E. Droz-Seda, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by Al Farooq Corporation, dated 03/30/12 and last revised on June 28, 2012, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTME-1300-02 & -04.

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**Butacite ® PVB interlayer**", expiring on 12/11/16.
2. Notice of Acceptance **No. 11-0325.05** for "Saflex clear & color interlayer" issued to Solutia Inc., expiring on 05/21/16.
3. XL Edge seal System 201 SS spacer by Cardinal IG.

F. STATEMENTS

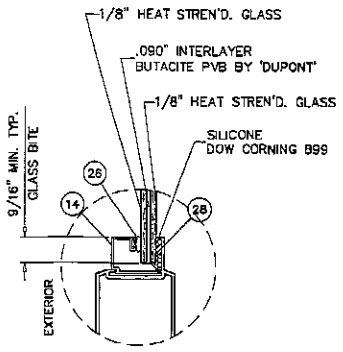
1. Statement letter of conformance and letter of no financial interest, prepared by Al Farooq Corporation, dated 03/30/12, signed and sealed by Javad Ahmad, P.E.
2. Addendum letter dated June 29, 2012, issued by Hurricane Engineering & Testing, Inc., signed and sealed by Rafael E. Droz-Seda, P. E.
3. Lab compliance as part of the above referenced test report.

G. OTHER

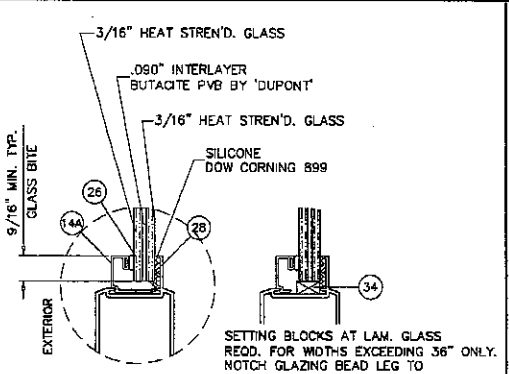
1. Test proposal, dated 10/14/11 and 02-21-12 approved by PERA.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 12-0402.03
Expiration Date: July 19, 2017
Approval Date: July 19, 2012



GLASS TYPE 'G1'



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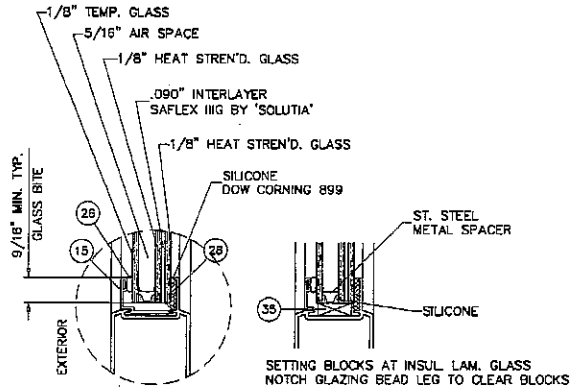

GLASS TYPE 'G3'

SERIES 600
ALUMINUM OUTSWING ENTRANCE DOOR

SINGLE (X) AND DOUBLE (XX) LEAF DOORS SEE SHEET 2.
SINGLE AND DOUBLE LEAF DOORS WITH SIDELITES SEE SHEET 3.
LOWER VALUES FROM SIDELITE CAPACITY CHART OR DOOR CAPACITY WILL APPLY TO ENTIRE SYSTEM.

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

Approved as complying with the Florida Building Code
Date July 19, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By Shaq I. Hamide

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUL 18 2012

AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-9978
COMP-ANL\W12-08ECO

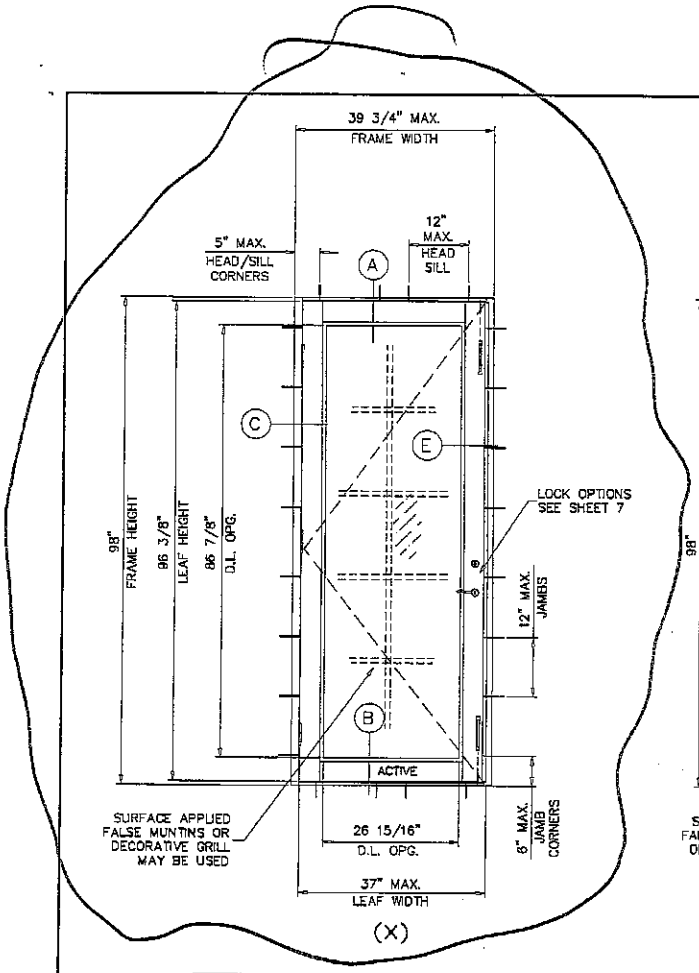
SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

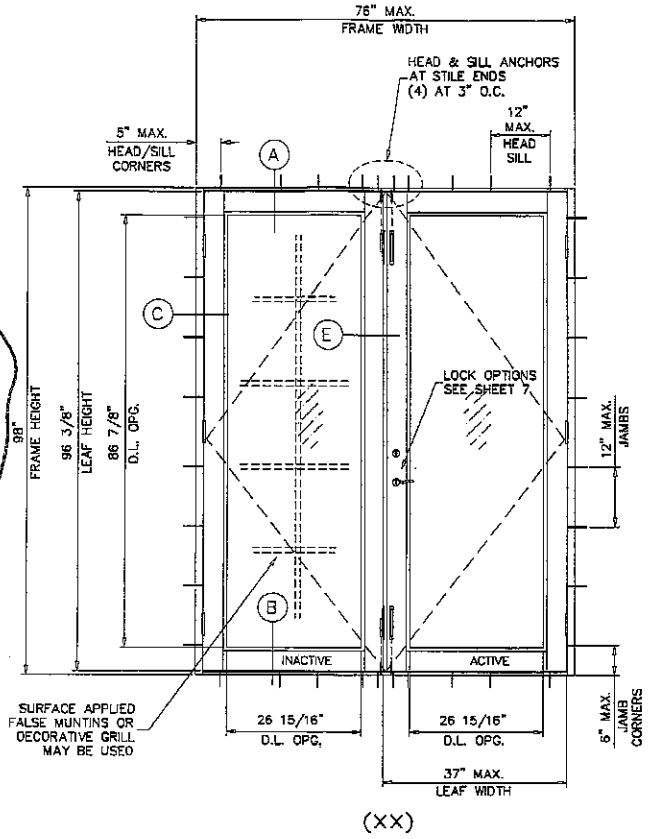
ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL (305) 885-5299 FAX (305) 885-5902

revisions:			
no	date	by	description
A	06.26.12		REV. PER PERA COMMENTS

date: 02-13-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-08





DOORS LOAD CAPACITY – PSF SINGLE DOORS (X)				
DOOR DIMS.			LAMINATED GLASS	
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	EXT.(+)	INT.(–)
39–3/4"	37"	98"	70.0	75.0

DOORS LOAD CAPACITY – PSF DOUBLE (XX)				
DOOR DIMS.			LAMINATED GLASS	
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	EXT.(+)	INT.(–)
76"	37"	98"	70.0	75.0

GLASS D.L.O. DIMS.

D.L.O. HEIGHT = FRAME HEIGHT – 11.125"
D.L.O. WIDTH (X DOORS) = FRAME WIDTH – 12.813"
D.L.O. WIDTH (XX DOORS) = (FRAME WIDTH – 22.125")/2

Approved as complying with the Florida Building Code
Date 3/19/2012
NOA# 12-0402.03
Miami Dade Product Control
By Ishaq J. Chaudhry

NOTE:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–04 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
JUN 28 2012

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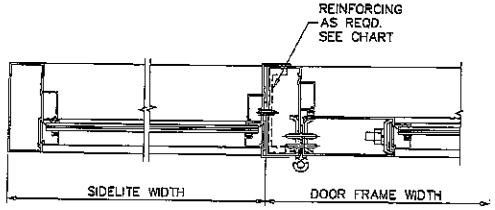
chk. by:

drawing no. W12-08

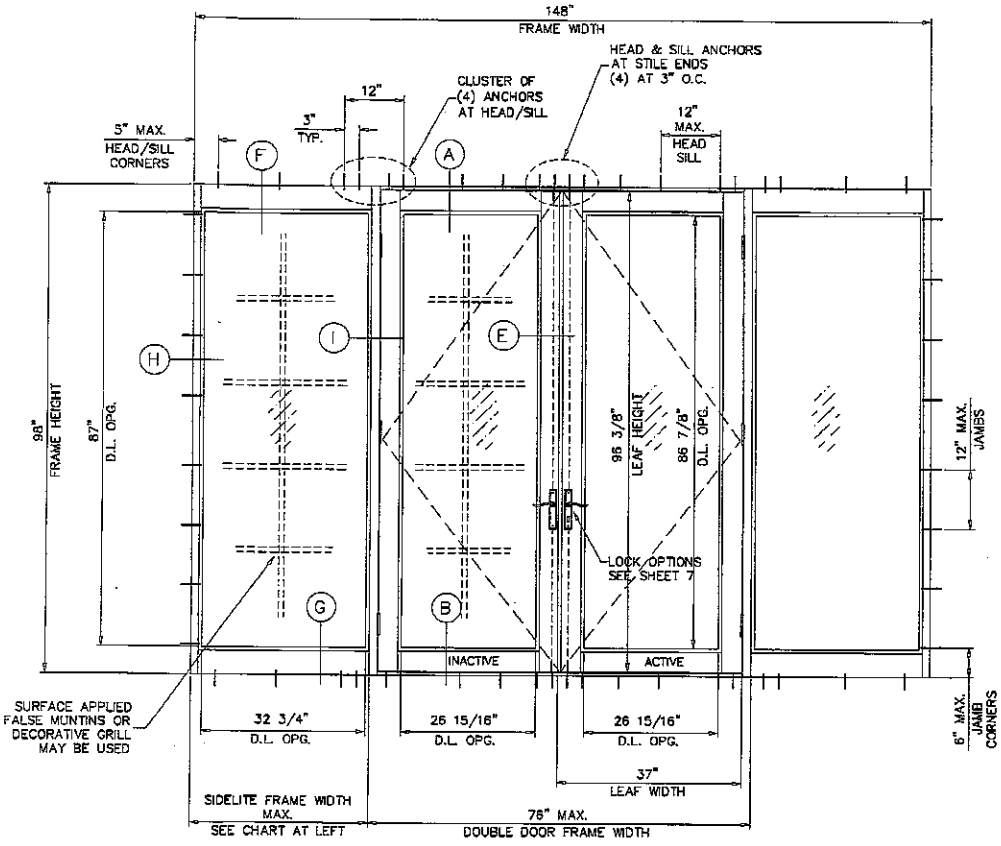
sheet 2 of 9

DESIGN LOAD CAPACITY – PSF SIDELITES WITH SINGLE OR DOUBLE LEAF DOORS (SEE NOTE BELOW)					
SIDELITE FRAME WIDTH INCHES	SIDELITE FRAME HEIGHT INCHES	WITHOUT REINFORCING		WITH REINFORCING	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24	82	70.0	75.0	70.0	75.0
30		70.0	75.0	70.0	75.0
36		70.0	75.0	70.0	75.0
37		70.0	75.0	70.0	75.0
42		61.7	66.1	61.7	66.1
24	86	70.0	75.0	70.0	75.0
30		70.0	75.0	70.0	75.0
36		70.0	75.0	70.0	75.0
37		70.0	75.0	70.0	75.0
42		61.7	66.1	61.7	66.1
24	92	70.0	75.0	70.0	75.0
30		69.8	69.8	70.0	75.0
36		64.1	64.1	70.0	75.0
37		63.3	63.3	70.0	75.0
24	98	63.3	63.3	70.0	75.0
30		57.8	57.8	70.0	75.0
36		53.1	53.1	70.0	75.0
37		52.4	52.4	70.0	75.0



NOTE:
FOR DOORS CAPACITIES SEE SHEET 2.
FOR SIDELITE CAPACITIES SEE CHART ABOVE.
LOWER VALUES FROM DOOR OR SIDELITE CHART WILL APPLY TO ENTIRE SYSTEM.

GLASS D.L.O. DIMS.
D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT – 11.000"
D.L.O. WIDTH (SIDELITE) = FRAME WIDTH – 4.438"



(OXXO)

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Miami Dade Product Control
By Ishaq I. Vanse

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Engr: JAVAD AHMAD
CMIL
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JUN 28 2012

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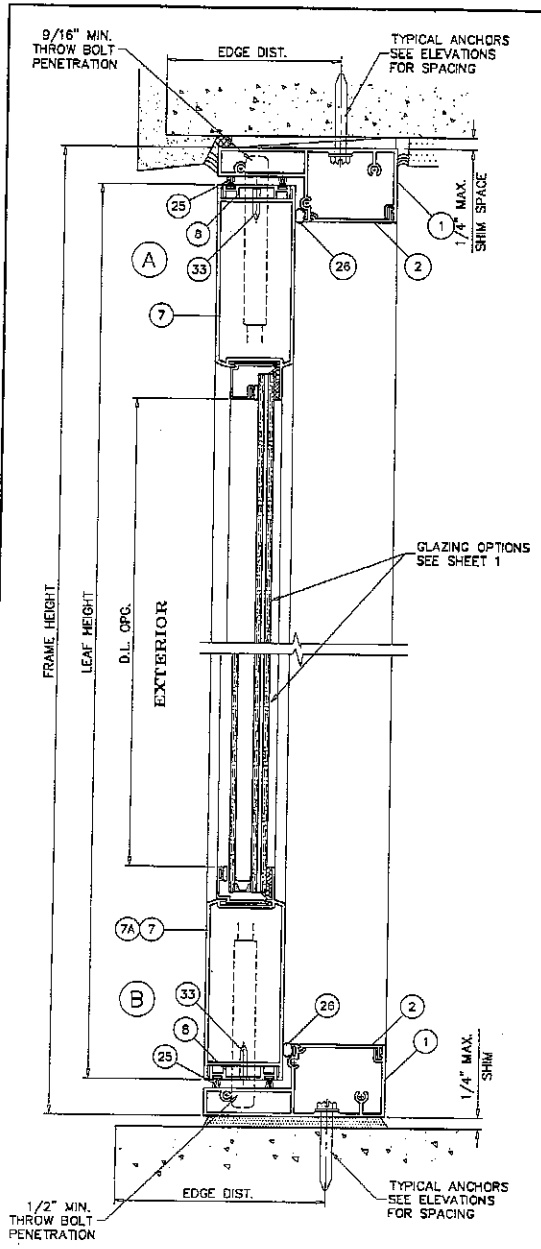

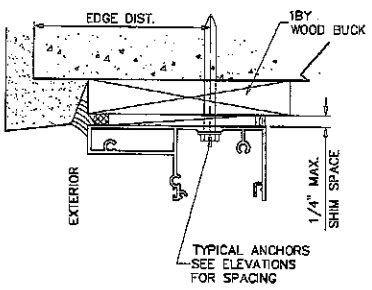

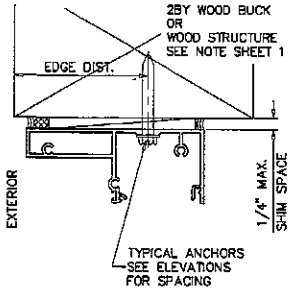

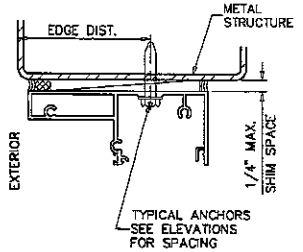

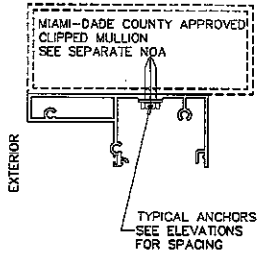

WOOD BUCKS AND METAL STRUCTURE NOT BY ECO WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

Approved as complying with the Florida Building Code
Date: JUN 19 2012
NOA# 12-0402.03
Miami-Dade Product Control
By: Isleny I. Urrutia

DOOR DETAILS

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N: 3538

JUN 28 2012

AL-FAROOQ CORPORATION
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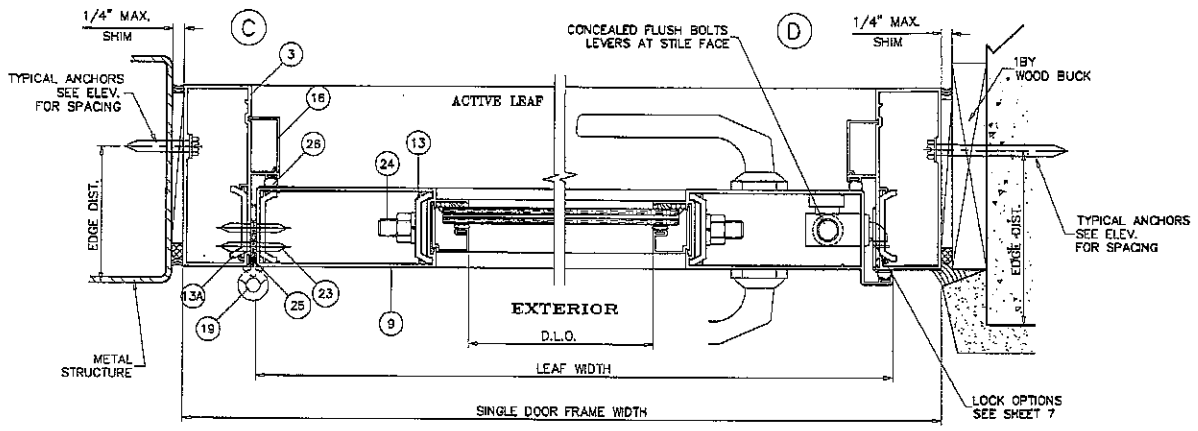
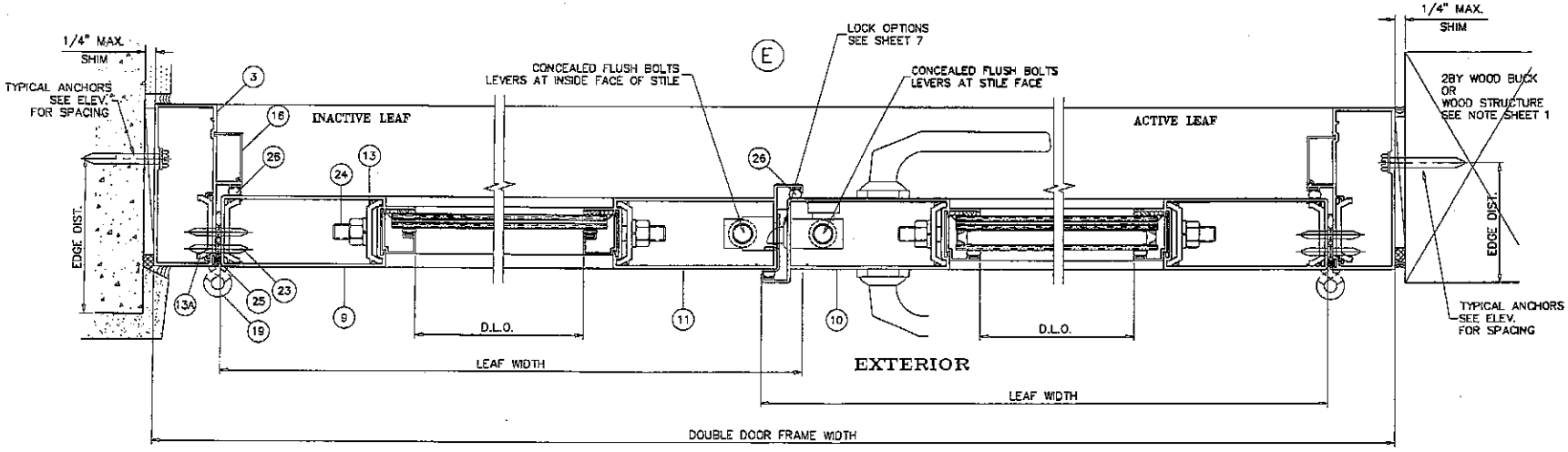
sheet 4 of 9





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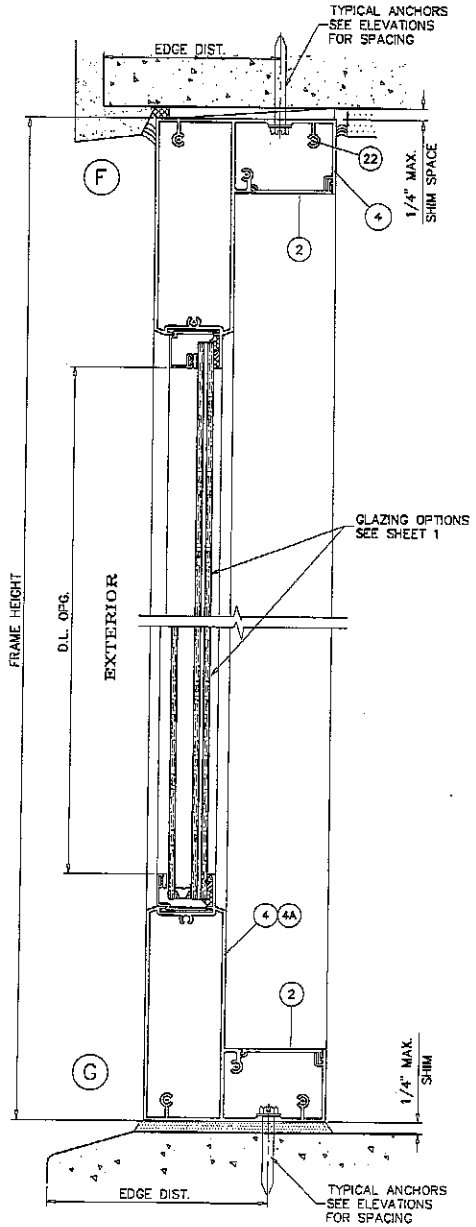
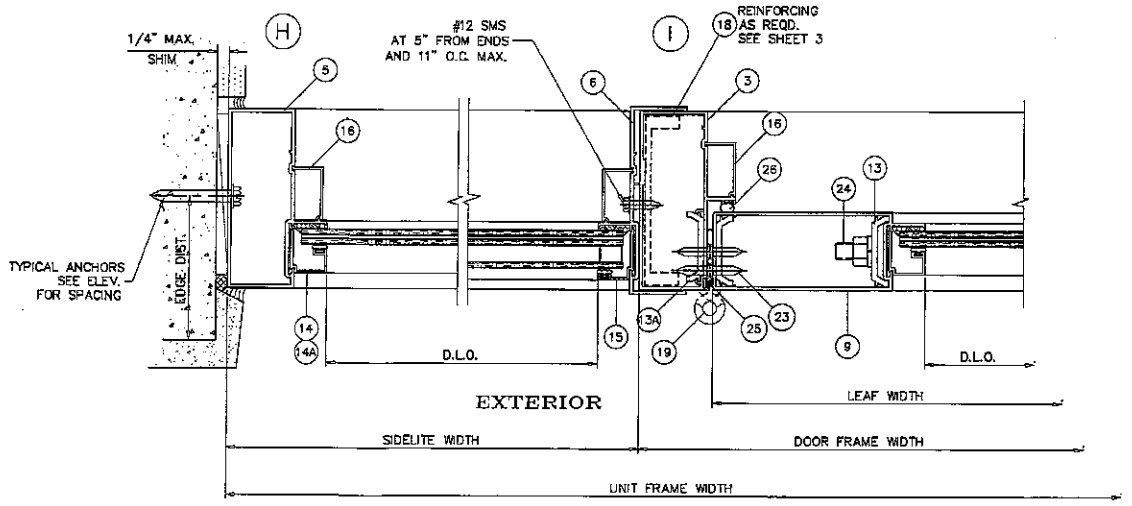
sheet 5 of 9





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By

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

SIDELITE DETAILS

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sheet 6 of 9

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E601	–	DOOR FRAME HEAD/SILL	6063–T6	–
2	E602	–	FRAME COVER	6063–T6	–
3	E603	–	DOOR FRAME JAMB	6063–T6	–
4	E604	–	SIDELITE TOP & BOTTOM FRAME	6063–T6	–
4A	E626	–	SIDELITE 9" BOTTOM FRAME	6063–T6	–
5	E605	–	SIDELITE FRAME JAMB	6063–T6	–
6	E606	–	SIDELITE SLIP ON JAMB	6063–T6	–
7	E607	–	LEAF TOP & BOTTOM RAIL	6063–T6	–
7A	E625	–	LEAF 9" BOTTOM RAIL	6063–T6	–
8	E608	–	LEAF W'STRIP ADAPTER	6063–T6	–
9	E609	–	LEAF HINGE STILE	6063–T6	–
10	E610	–	LEAF LOCK STILE	6063–T6	–
11	E611	–	LEAF ASTRAGAL STILE	6063–T6	–
12	E612	–	LEAF ALIGNMENT BRACKET	6063–T6	–
13	E613	–	LEAF CLAMP	6063–T6	4–1/4" LONG
13A	E613	–	HINGE BACK–UP PLATE	6063–T6	12" LONG
14	E614	–	GLAZING BEAD (5/16" LAM. GLASS)	6063–T6	–
14A	E109	–	GLAZING BEAD (7/16" LAM. GLASS)	6063–T6	–
15	E615	–	GLAZING BEAD (INSUL. GLASS)	6063–T6	–
16	E616	–	SNAP COVER	6063–T6	–
17	E613	–	BOLT SUPPORT	6063–T6	NOT SHOWN
18	–	AS REQD.	SIDELITE MULLION REINFORCING	6063–T6	–
19	FD–107	3/ LEAF	BUTT HINGES	ALUMINUM	SULLIVAN & ASSOC.
20	FB1202	–	FLUSH BOLT LEVER	–	SULLIVAN & ASSOC.
21	FBR914SS	–	CONCEALED FLUSH BOLT ROD	ST STEEL	SULLIVAN & ASSOC.
22	#12 SMS	AS REQD.	FRAME ASSEMBLY SCREWS	–	–
23	#12 X 3/4"	–	HINGE INSTALLATION FASTENERS	–	FH SMS
24	–	–	3/8" DIA. THREADED ROD	STEEL	–
25	W11323	–	PILE W'STRIPPING	WOOL	ULTRAFAB
26	E20818–KN–3020	–	BULB W'STRIPPING	SANTOPRENE	EPDM
27	E206	–	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
28	–	–	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
29	E622	–	FLUSH BOLT CUP	NYLON	–
30	DL01RC	–	BLACK BOLT SUPPORT BLOCK	POLYETHYLENE	INTERLOCK
31	DL01WB	–	WHITE BOLT SUPPORT BLOCK	POLYETHYLENE	ACME PLASTIC
33	#10 X 3/4"	2/ ADAPTER	FH SELF DRILLING SCREWS	–	–
34	–	2/ LITE	SETTING BLOCK, 1/4" X 1/2" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5
35	–	2/ LITE	SETTING BLOCK, 1/4" X 3/4" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5

LOCKS:

OPTION #1:

ACTIVE LEAF:

4 POINT LOCK ASSEMBLY DL01–6007 BY 'INTERLOCK USA INC.'
(2) LOCKING POINTS ENGAGING AT INACTIVE LEAF
1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME AT HEAD AND SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK LOCATED AT 42–1/2" FROM BOTTOM

INACTIVE LEAF:

2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.'
1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME AT HEAD AND SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING ROOS
LOCK LOCATED AT 42–1/2" FROM BOTTOM

OPTION #2:

ACTIVE LEAF:

CONVENTIONAL DOOR LOCKSET WITH HANDLE
DELTA 690 BY 'KWIKSET' LOCATED AT 39–1/4" FROM BOTTOM
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR THROW BOLT LOCATED AT 44–3/4" FROM BOTTOM

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'
1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE
LOCATED AT 10–5/8" FROM TOP AND BOTTOM
LOCK FASTENED TO STILE WITH (2) #8–32 X 1/2" FH MS

INACTIVE LEAF:

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'
1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
MANUALLY OPERATED LEVERS MOUNTED ON INSIDE FACE
OF LEAF STILE LOCATED AT 10–5/8" FROM TOP AND BOTTOM
LOCK FASTENED TO STILE WITH (2) #8–32 X 1/2" FH MS .

NOTE: LOCKS MUST BE ENGAGED DURING PERIODS OF HURRICANE WARNING.

HINGES:

3–1/2" X 7–5/8" X .122" THK. EXTRUDED ALUM HINGE
PART #FD–107 BY SULLIVAN & ASSOC.
3 HINGES PER LEAF
BOTTOM HINGE AT 10–1/4" FROM BOTTOM
TOP HINGE AT 11–3/4" FROM TOP
CENTER HINGE AT MIDSPAN (38" O.C. MAX.)
HINGES FASTENED WITH #10 X 1" FH SMS
(5) SCREWS AT HINGE STILE
(6) SCREWS AT FRAME JAMB

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE MOREHEAD JM5504 SEALANT.

Approved as complying with the Florida Building Code
Date: 10/19/2012
NOA# 12-0402.03
Miami-Dade Product Control
By: Isleen I. Ahmad

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP–ANL\W12–08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.)

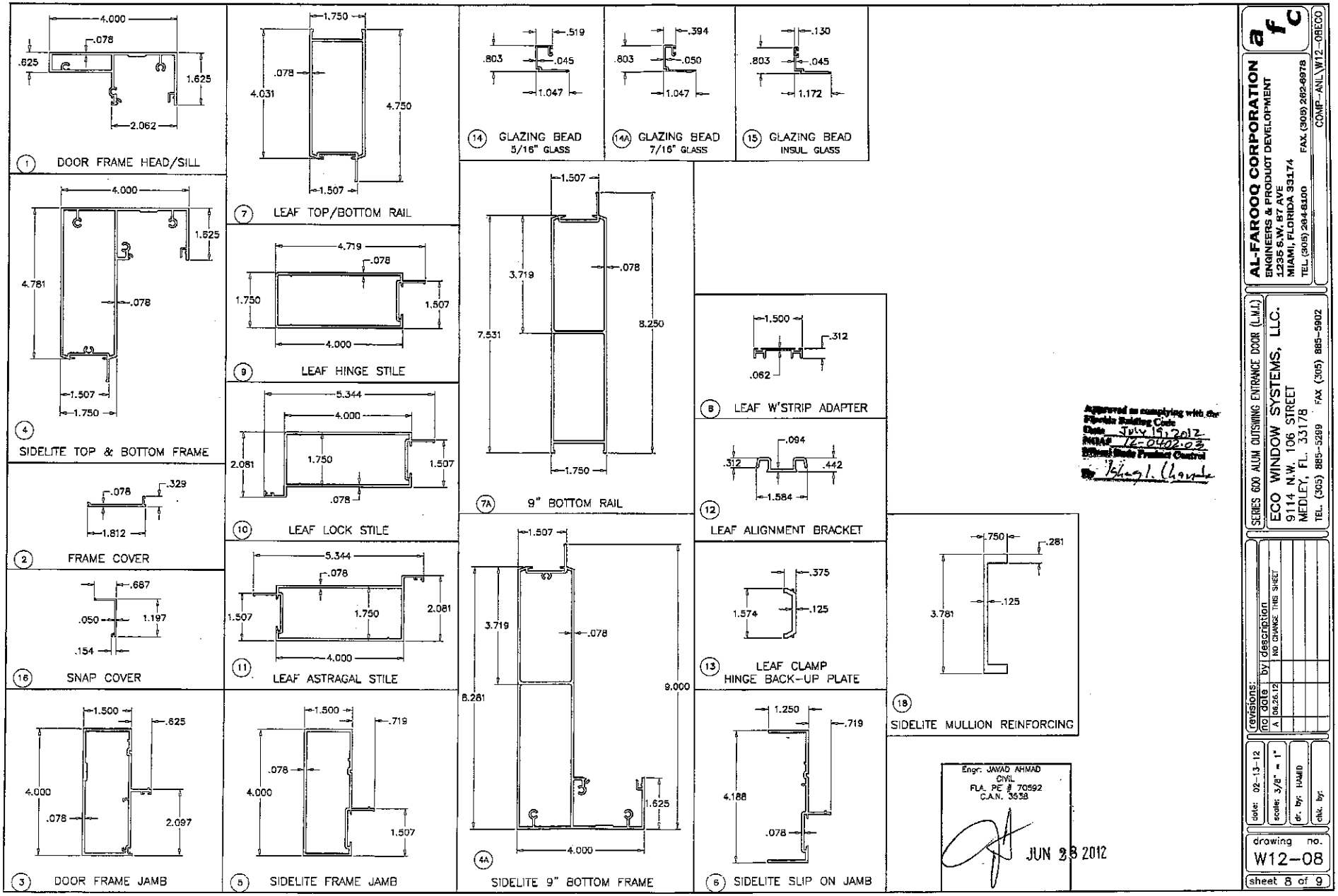
ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885–5299 FAX (305) 885–5902

revisions:			
no	date	by	description
A	06.26.12		REV. PER PERA COMMENTS

date: 02–13–12
scale: 3/8" = 1'
dr. by: HAMID
chk. by:

drawing no. W12–08

sheet 7 of 9



Approved as complying with the Florida Building Code
Date July 19, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By

Engr. JAWAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

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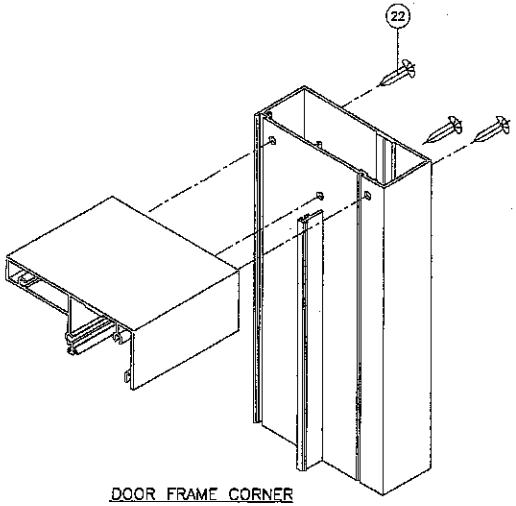
revisions:			
no	date	by	description
A	06.26.12		NO CHANGE THIS SHEET

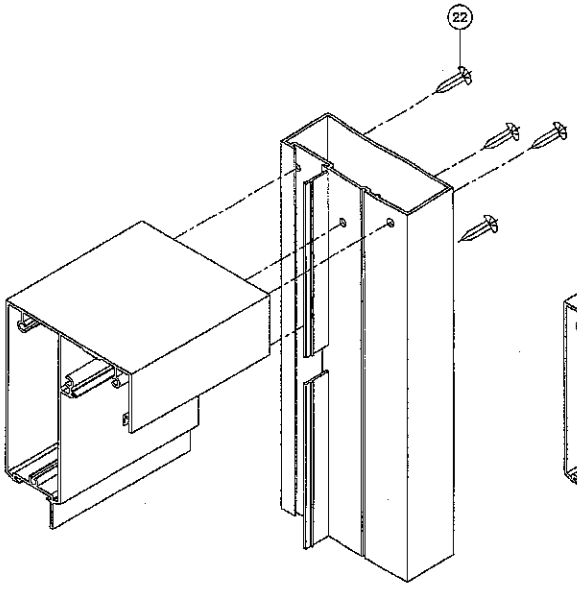
date: 02-13-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no. W12-08

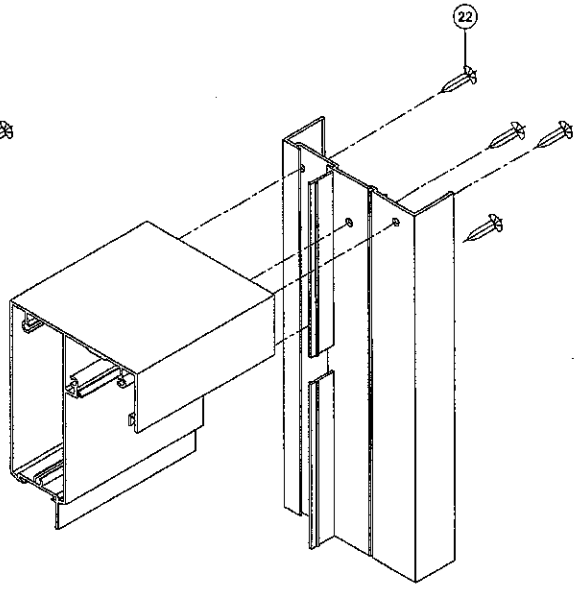
sheet 8 of 9



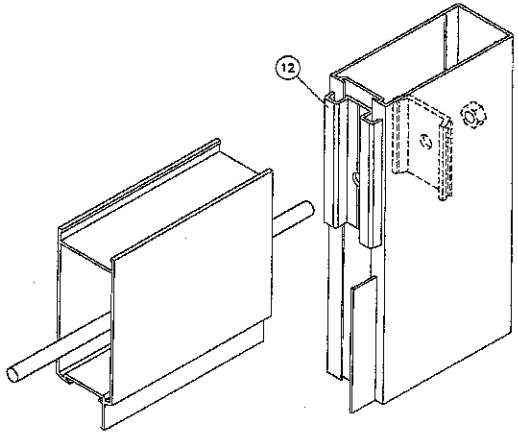
DOOR FRAME CORNER



SIDELITE FRAME CORNER



SIDELITE SLIP ON JAMB CORNER



LEAF CORNER

Approved as complying with the Florida Building Code
Date 07/19/2012
NOA# 12-0402.08
Miami-Dade Product Control
By Ishaq I. Chand

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12395 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.L.)

ECO WINDOW SYSTEMS, LLC.
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TEL. (305) 885-5299 FAX. (305) 885-5902

revisions:

no	date	by	description
A	06.26.12		REV. PER PERA COMMENTS

date: 02-13-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-08

sheet 9 of 9

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "HIG Casement" Aluminum Clad Wood Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1518**, titled "HIG Aluminum Clad Impact Casement Window", sheets 01 through 05 of 05, dated 03/23/07, with revision "**C1**" dated 06/27/13, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA No. 13-0829.18** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P.E.

MIAMI-DADE COUNTY APPROVED

J. Gascon 6/18/14

APPROVED
OCT 2 8 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

NOA No. 14-0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under previous NOA's No.'s 13–0829.18, 09–1027.05 & 07–0619.12)
2. Drawing No. **1518**, titled "HIG Aluminum Clad Impact Casement Window", sheets 01 through 05 of 05, dated 03/23/07, with revision "**C1**" dated 06/27/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, **P.** E.
   (Submitted under previous NOA No. 13–0829.18)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, **TAS** 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of series/ model HIG IG/ monolithic aluminum clad wood awning window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Element Materials Technology, Inc., Test Report No. **ESP–014011P.Casement.Dade**, dated 08/05/13, signed and sealed by Thomas A. Kolden, P. E.
   (Submitted under previous NOA No. 13–0829.18)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94

   along with marked–up drawings and installation diagram of series/ model HIG IG/ monolithic Aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–93260.01–201–18**, dated 09/15/09, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA No. 09–1027.05)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201–94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of series/model HIG IG/monolithic aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–93328.01–201–18**, dated 08/24/09, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA No. 09–1027.05)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202–94

   along with marked–up drawings and installation diagram of series/model HIG IG/monolithic aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–71262.08–201–18,** dated 05/27/07, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA No. 07–0619.12)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, dated 10/21/11, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 12–0620.11)
2. **Glazing complies with ASTM E1300–04/ 09**

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their **"DuPont Butacite® PVB Interlayer"** dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. **11–0624.02** issued to **E.I. DuPont DeNemours & Co.,** Inc. for their **"DuPont SentryGlas® Interlayer"** dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

1. Statement letter of conformance and complying with **FBC 5th Edition (2014),** issued by W. W. Schaefer Engineering & Consulting, P.A., dated 04/15/14, signed and sealed by Warren W. Schaefer, P. E.
2. Laboratory compliance letter for Test Report No. **ESP–014011P.Casement.Dade,** issued by Element Materials Technology, Inc., dated 08/05/13, signed and sealed by Thomas A. Kolden, P. E.
   (Submitted under previous NOA No. 13–0829.18)
3. Proposal issued by Product Control, 03/26/13, signed by Jaime D. Gascon, P. E.
   (Submitted under previous NOA No. 13–0829.18)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

4. Statement letter of conformance and complying with **FBC–2010**, dated 10/21/11, signed and sealed by Warren W. Schaefer, P.E.
   (Submitted under previous NOA No. 12–0620.11)
5. Statement letter of no financial interest, dated 10/19/11, signed and sealed by Warren W. Schaefer, P.E.
   (Submitted under previous NOA No. 12–0620.11)
6. Laboratory compliance letters for Test Reports No.'s **ATI–93260.01–201–18, ATI–93328.01–201–18** and **ATI–71262.08–201–18,** all issued by Architectural Testing, Inc., dated 09/15/09 and 08/25/09, all signed and sealed by Joseph A. Reed, P. E.
   (Submitted under previous NOA's No.'s 07–0619.12 and 09–1027.05)

G. OTHERS

1. Notice of Acceptance No. **13–0829.18**, issued to Pella Corporation for their Series **"HIG Casement Aluminum Clad Wood Casement Window – L.M.I."**, approved on 11/07/13 and expiring on 11/15/17.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.11
Expiration Date: November 15, 2017
Approval Date: June 26, 2014

GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF KD = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR CD = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

CORNER CONSTRUCTION

FRAME CORNERS: THE SIDE WOOD MEMBERS ARE BUTTED TO THE HEAD & SILL MEMBERS & SECURED WITH THREE(3) 14 GAGE 7/16" X 2 1/2" STAPLES. CLADDING IS MITERED TOGETHER, JOINED WITH A PLASTIC CORNER KEY PART NO. 77U00000 & SEALED WITH BUTYL DEVAN 578.12 OR BOSTIK 900 POLYURETHANE SEALANT. EACH CLADDING MEMBER IS SECURED TO THE KEY WITH 1 NO. 10 X 17/32" FH SCREW (2 TOTAL PER CORNER)

SASH CORNERS:

OPTION 1: MORTISE & TENON CONSTRUCTION. A 1/8" BEAD OF BOSTIK CHEM-CALK URETHANE IS PLACED AT THE TENNON BOTTOM SURFACE. WOOD GLUE IS PLACED AT THE TENNON SIDES. THE JOINT IS THEN ASSEMBLED & SECURED WITH ONE 15 GA. X 1 1/2" FINISH NAIL.

OPTION 2: SCREWED CONSTRUCTION. MEMBER ENDS ARE PROFILED AND PARTIALLY TENONED, BUTTED & ADHERED TOGETHER WITH BOSTIC 70-05/70-05A AND THEN SECURED WITH NO. 12 X 4" FH WOOD SCREWS (1 SCREW WITH SASH HEIGHTS LESS THAN 3.5"; 2 SCREWS WITH SASH HEIGHTS 3.5" TO 5 3/8"). THE CLADDING IS TABBED WITH THE TABS MEETING IN A BED OF BOSTIC IN A GROOVE ON THE EXTERIOR SASH FACE RESULTING FROM THE PARTIALLY TENNONED RAIL END.

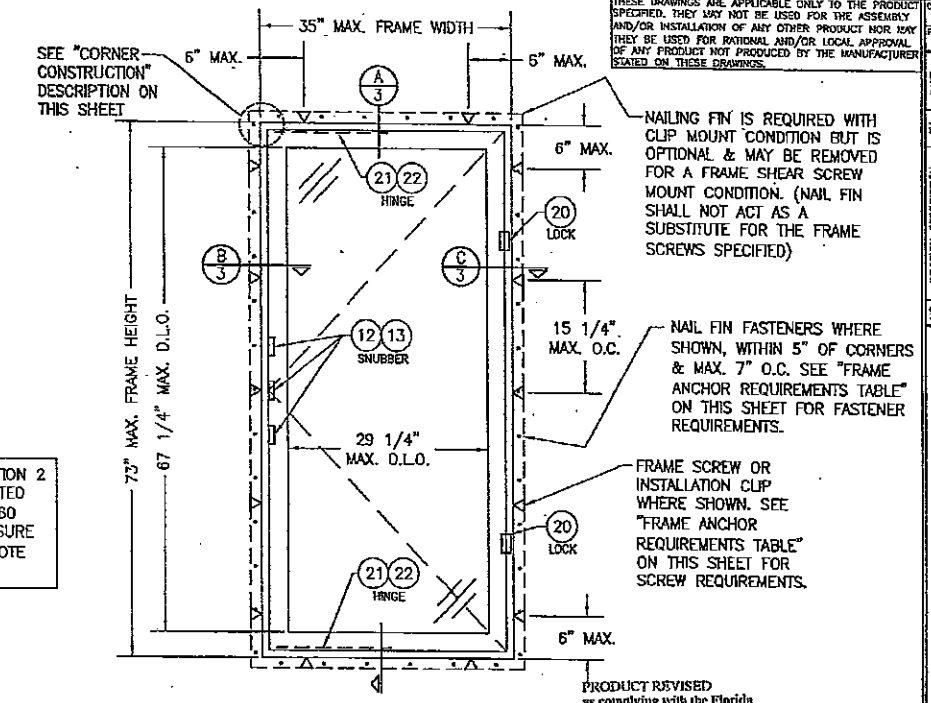
SASH CORNER OPTION 2 WINDOWS ARE LIMITED TO MAXIMUM +/-60 PSF DESIGN PRESSURE (SEE PRESSURE NOTE ON THIS SHEET.)

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	2" X 11 GA. ROOFING NAIL	1 7/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

(2) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.



EXTERIOR ELEVATION:
SINGLE CASEMENT WINDOW
SCALE: 3/4" = 1'-0"

ALLOWABLE WINDOW SIZE VS. PRESSURE TABLE (SINGLE WINDOWS)

GLASS OPTION	MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM FRAME WIDTH (IN.)	ALLOWABLE PRESSURE (PSF) POSITIVE	ALLOWABLE PRESSURE (PSF) NEGATIVE
A	73	35	75	75
B	73	35	75	75
	71	32	75	85
	65	35	75	85
C	73	35	75	75
D	73	35	75	75
	71	32	75	85
	65	35	75	85
E	71	32	(*) 64.8	(*) 64.8
	65	35	(*) 69.6	(*) 69.6

(*) WHEN THE 1/8" ANNEALED EXTERIOR PANE OF GLASS IN GLASS TYPE "E" IS SUBSTITUTED WITH 1/8" TEMPERED, THE ALLOWABLE PRESSURE MAY BE INCREASED TO +/-75 PSF.

ALLOWABLE PRESSURE NOTE:

PRESSURES LISTED IN TABLE CONSIDER WINDOWS WITH SASH CORNER CONSTRUCTION OPTION 1. WHEN SASH CORNER CONSTRUCTION OPTION 2 IS USED, ALLOWABLE PRESSURE MAY NOT EXCEED +/-60 PSF REGARDLESS OF PRESSURES SHOWN IN TABLE.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14-0428.11 Expiration Date 11/15/2017 By Miami-Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-0829.18 Expiration Date 11/15/2017 By Miami-Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE PER NEW TESTING AND CURRENT STANDARDS	WRM	09/20/09
B1	UPDATE TO CURRENT STANDARDS	WRM	10/21/11
C1	UPDATE TO PER NEW TESTING	WRM	06/27/13

DRAWN BY: W.R.M. | CHECKED BY: W.W.S. | PLOT: 1=1" | DATE: 03/23/07

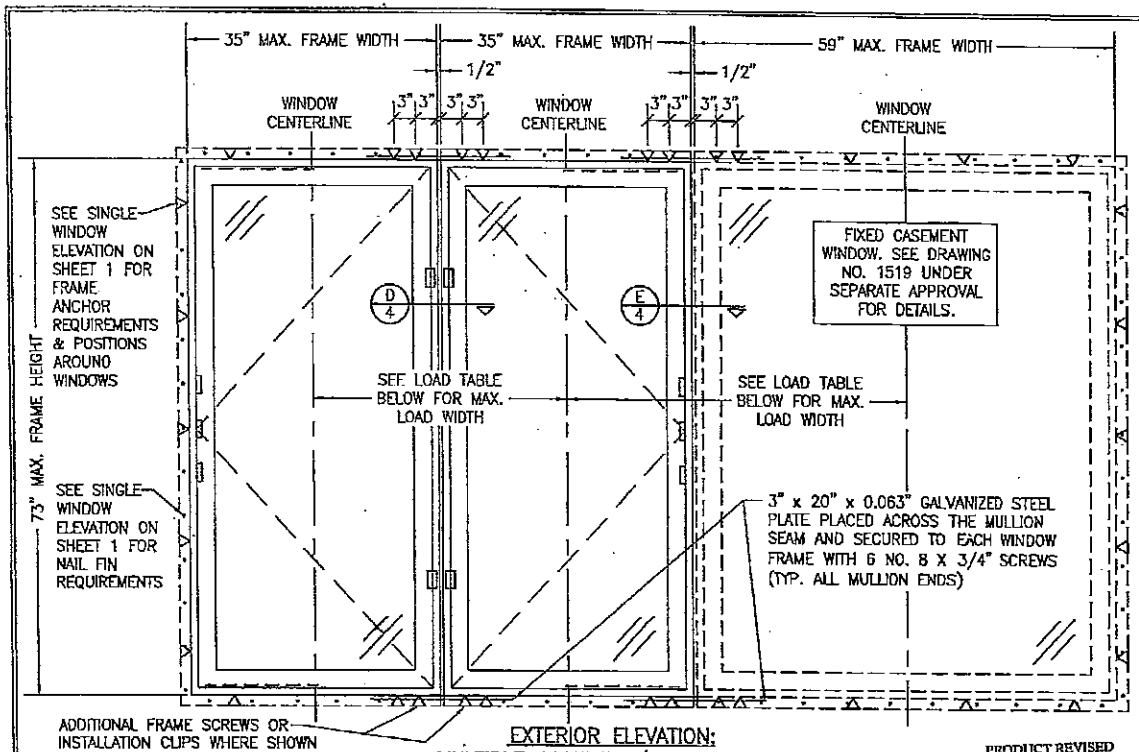
DRAWING TITLE: HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

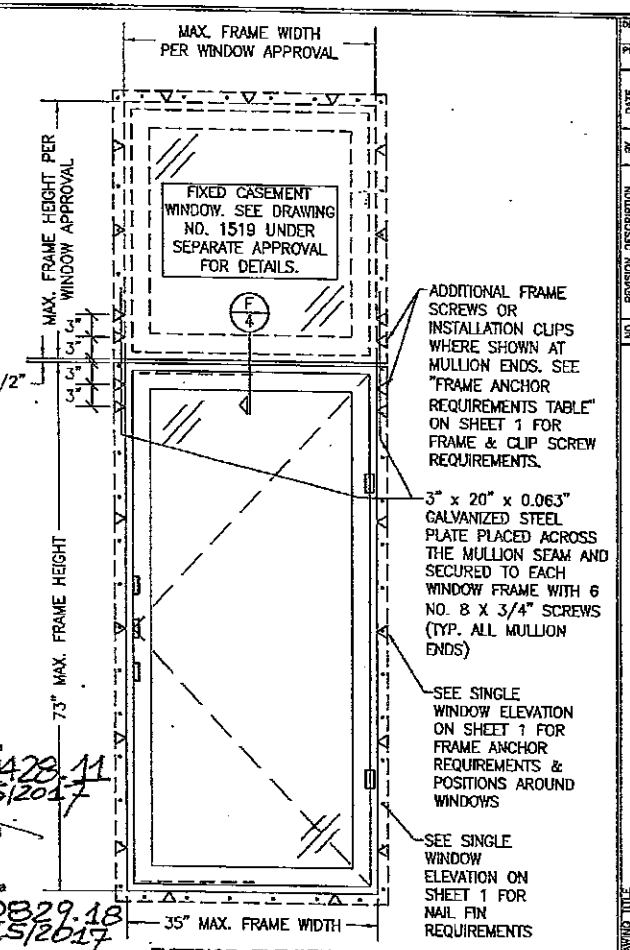
CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7499 130TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424

CERTIFICATION: AUG 27 2013, WARREN W. SCHAEFFER P.E. No. 44135

DRAWING NO. 1518 | REV. C | SHEET NO. 1 OF 5



EXTERIOR ELEVATION:
MULTIPLE CASEMENT/FIXED WINDOW
SCALE: 3/4" = 1'-0"



EXTERIOR ELEVATION:
SINGLE CASEMENT WINDOW WITH TRANSOM
SCALE: 3/4" = 1'-0"

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0422.11
Expiration Date 11/15/2017
By Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0829.18
Expiration Date 11/15/2017
By Miami Dade Product Control

ALLOWABLE DESIGN PRESSURE TABLE (SIDE BY SIDE WINDOWS)

MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF) MULLION CONDITION "XX"	"XO"
73	47.5	N/A	+75/-75
73	35.5	+75/-75	+75/-75
71	43.5	N/A	+75/-84.2
71	42.5	N/A	+75/-85
71	32.5	+75/-85	+75/-84.2
71	31.5	+75/-85	+75/-85
65	47.5	N/A	+75/-84.2
65	46.5	+75/-85	+75/-85
65	35.5	+75/-85	+75/-84.2
65	34.5	+75/-85	+75/-85

NOTES:
1. LOAD WIDTH IS THE DISTANCE BETWEEN WINDOW CENTERLINES.
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL WINDOW.
3. "XX" = MULLION BETWEEN 2 OPERABLE WINDOWS.
4. "XO" = MULLION BETWEEN AN OPERABLE AND FIXED WINDOW.
5. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT SIZE OPTION.

ALLOWABLE DESIGN PRESSURE (TRANSOM UNIT)

UNIT PRESSURE SHALL BE AS CONTROLLED BY THE INDIVIDUAL WINDOW ALLOWABLE PRESSURES. MULLION DOES NOT CONTROL THIS UNIT.

MULTIPLE UNIT NOTES:
1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERED FROM THE WINDOWS & THEIR MULLIONS.

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: W.R.W. CHECKED BY: W.W.S. PLOT: 1=16 DATE: 03/23/07

NO.	REVISION DESCRIPTION	BY	DATE

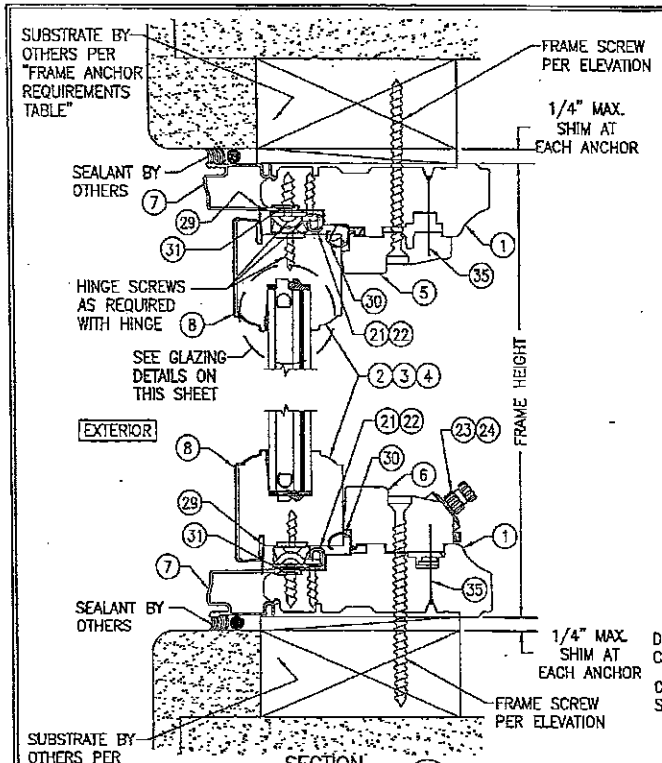
MANUFACTURER: PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7340 150TH COURT NORTH
PALM BEACH GARDENS, FL. 33418
PHONE: 561-744-3434

DRAWING TITLE: HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

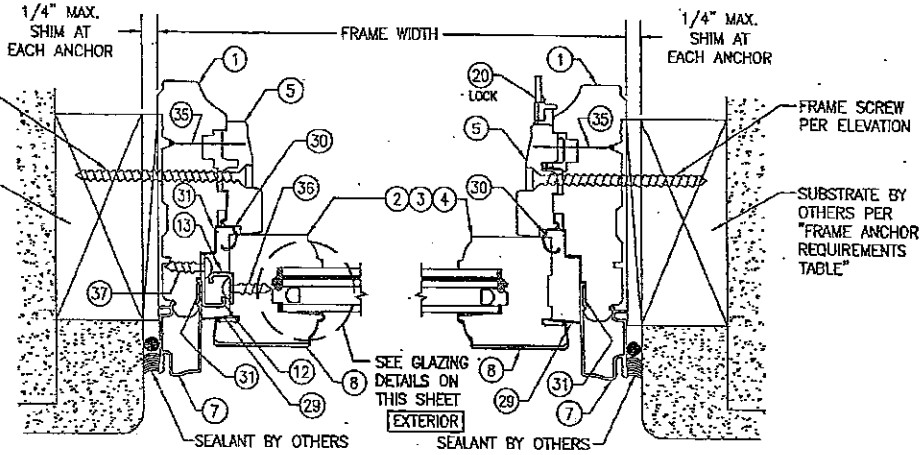
CERTIFICATION: AUG 07 2013
WARREN W. SCHAEFER P.E. No. 44135

DRAWING NO. 1518 REV. C
SHEET NO. 2 OF 5



SECTION A (3) SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.

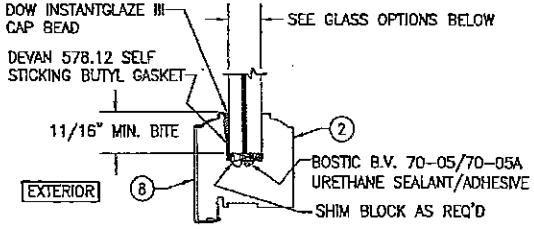


SECTION B (3) SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.

SECTION C (3) SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.

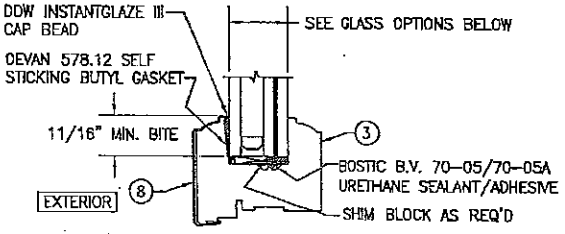


GLAZING DETAIL 1

GLASS OPTIONS:

OPTION A: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09 DUPONT BUTACITE PVB/1/4" AN.)

OPTION B: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09 DUPONT SG/1/4" AN.)



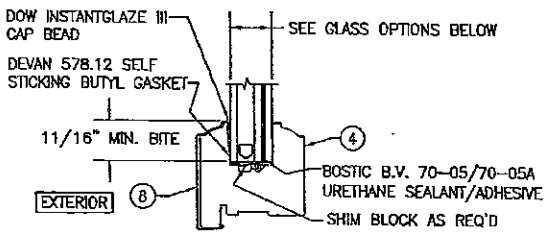
GLAZING DETAIL 2

GLASS OPTIONS:

OPTION C: 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT BUTACITE PVB/5/32" AN. INTERIOR)

OPTION D: 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT SG/5/32" AN. INTERIOR)

1" I.G. GLASS NOTE:
THE EXTERIOR 3/16" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 3/16" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.



GLAZING DETAIL 3

GLASS OPTIONS:

OPTION E: 11/16" THICK LAMINATED I.G. GLASS (1/8" AN. EXTERIOR; 1/4" SPACER; 7/64" AN./0.09 DUPONT BUTACITE PVB/7/64" AN. INTERIOR)

11/16" I.G. GLASS NOTE:
THE EXTERIOR 1/8" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 1/8" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-0829.18 Expiration Date 11/15/2017 By Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14-0428.14 Expiration Date 11/15/2017 By Miami Dade Product Control

WARREN W. SCHAEFFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: KRJL | CHECKED BY: WWS | PLOT: 1=2 | DATE: 03/23/07

NO. | REVISION DESCRIPTION | BY | DATE

DRAWING TITLE: HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

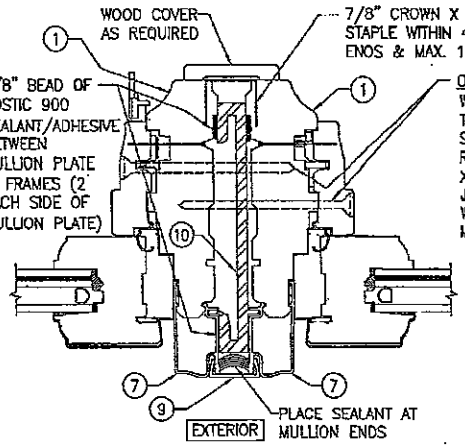
MANUFACTURER: PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000

CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3404

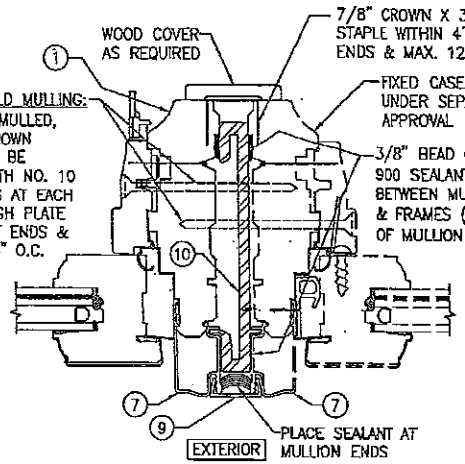
CERTIFICATION: AUG 07 2013 WARREN W. SCHAEFFER P.E. NO. 44135

DRAWING NO. 1518 | REV. C

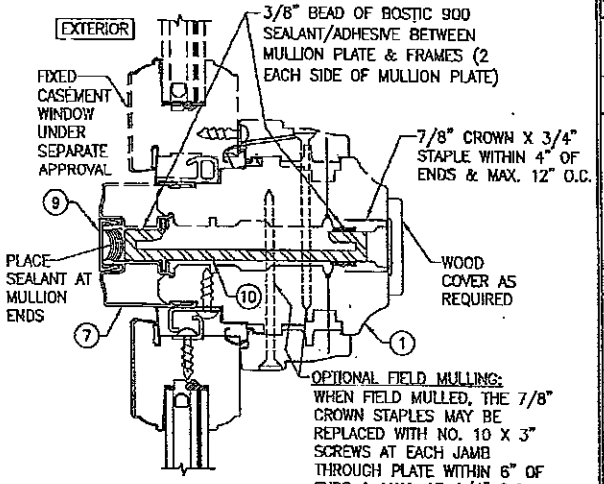
SHEET NO. 3 OF 5



SECTION D/4
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION E/4
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION F/4
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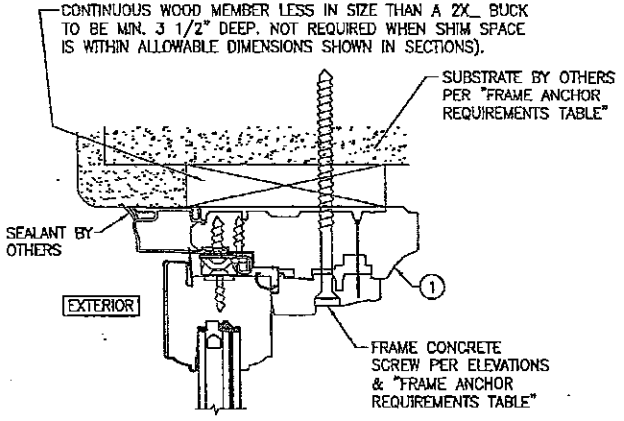
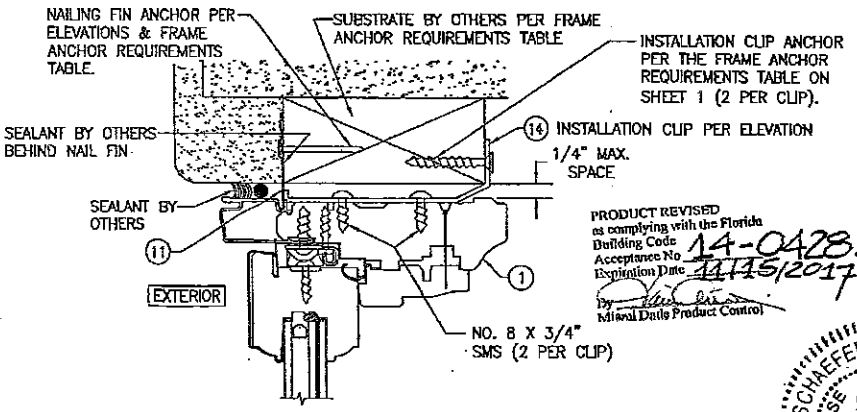
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL INSTALLATION CLIP/NAIL FIN DETAIL
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT REVISED
as complying with the Florida Building Code
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By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0829.18
Expiration Date 11/15/2017
By
Miami Dade Product Control

WARREN W. SCHAEFER * LICENSE No. 44135 * STATE OF FLORIDA * PROFESSIONAL ENGINEER *

DRAWN BY: WRM	CHECKED BY: WWS
PLOT: 1=2	DATE: 03/23/07

NO.	REVISION DESCRIPTION	BY	DATE

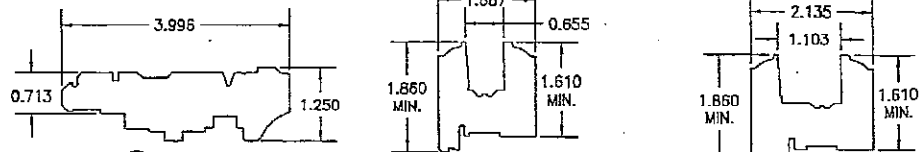
DRAWING TITLE
HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

MANUFACTURER
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

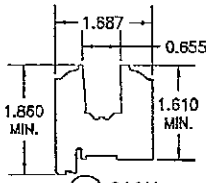
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 156TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE 561-744-3464

CERTIFICATION
AUG 27 2013
WARREN W. SCHAEFER P.E. NO. 44135

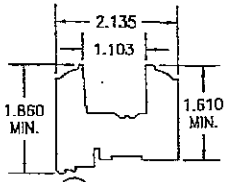
DRAWING NO. 1518 REV. C
SHEET NO. 4 OF 5



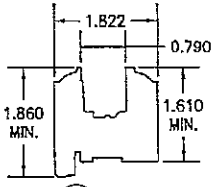
1 FRAME



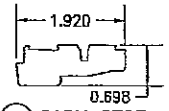
2 SASH
FOR GLASS OPTIONS "A" & "B"



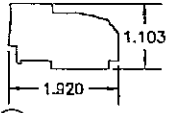
3 SASH
FOR GLASS OPTIONS "C" & "D"



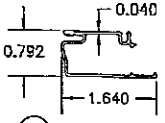
4 SASH
FOR GLASS OPTION "E"



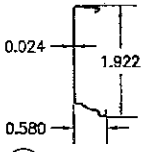
5 SASH STOP



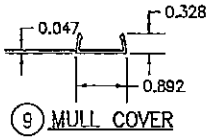
6 SASH STOP



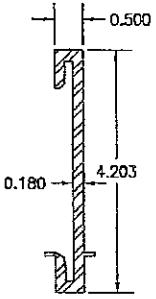
7 FRAME CLAD



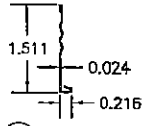
8 SASH CLAD



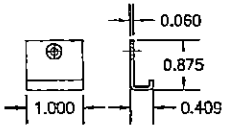
9 MULL COVER



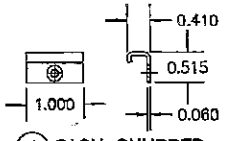
10 MULLION PLATE



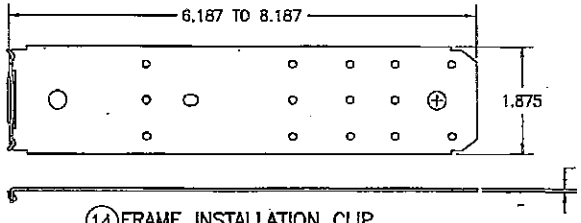
11 NAIL FIN



12 FRAME SNUBBER



13 SASH SNUBBER



14 FRAME INSTALLATION CLIP

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	FRAME JAMB	WOOD
2	SASH FOR GLASS OPTION A & B	WOOD
3	SASH FOR GLASS OPTION C & D	WOOD
4	SASH FOR GLASS OPTION E	WOOD
5	SASH STOP	WOOD
6	SASH STOP (VENT SILL)	WOOD
7	FRAME CLAD	6063-T6 ALUMINUM
8	SASH CLAD	3003-H14 ALUMINUM
9	MULLION COVER	6063-T6 ALUMINUM
10	MULLION PLATE	6063-T6 ALUMINUM
11	NAIL FIN	3003-H14 ALUMINUM
12	FRAME SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
13	SASH SNUBBER	302/304 S.S. (3 PER WINDOW 6" APART)
14	INSTALLATION CLIP	50 KSI GALVANIZED STEEL
	HARDWARE	
20	LOCK (2 PER WINDOW)	PELLA #16DR
21	CENTER PIVOT HINGE (USED WITH ROTO OPERATOR)	OVERLAND 1AJC/1AJA
22	SCISSOR HINGE (USED WITH EGRESS OPERATOR)	PELLA 15EA/15E9 (16 GAGE 302/304 S.S.)
23	ROTO OPERATOR	PELLA #2AAX/2AAY
24	EGRESS OPERATOR	PELLA #2ABA
	SEALS & SEALANTS	
29	RAINSTRIP	PELLA PART #75T2 - PVC DUROMETER 75
30	WEATHERSTRIP	PELLA PART #505J - PP/SANTOPRENE 64
31	FRAME CLAD SEALANT	BUTYL
	MISCELLANEOUS FASTENERS	
35	1 3/8" 4D ANNULAR RINGSHANK BOX NAIL	WITHIN 5" OF CORNERS & 4" TO 9" O.C.
36	NO. 8 X 3/4" FH SCREW	1 PER SNUBBER
37	NO. 7 X 3/4" PH SCREW	1 PER SNUBBER

NOTE: WOOD USED IN TESTING WAS WESTERN PINE WITH A SPECIFIC GRAVITY OF G = 0.43 AND A MODULUS OF ELASTICITY OF E = 1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PELLA CORPORATION TO SELECT.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0829.18
Expiration Date 11/15/2017
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0428.11
Expiration Date 11/15/2017
By
Miami Dade Product Control

WARREN W. SCHAEFER P.E. LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: W.R.M.
CHECKED BY: W.W.S.
PLOT: 1=2
DATE: 03/23/07

MANUFACTURER
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

DRAWING TITLE
HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW

CERTIFICATION
AUG 27 2013
WARREN W. SCHAEFER P.E. LIC. NO. 44135

DRAWING NO. 1518
REV. C
SHEET NO. 5 OF 5

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Direct Set" Aluminum Clad Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1287, titled "Aluminum Clad Wood Direct Set Impact Windows", sheets 01 through 04 of 04, dated 12/20/03, with revision "F1" dated 09/16/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA No. 13-0919.08** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**

MIAMI-DADE COUNTY APPROVED

APPROVED
J. Gascon 6/18/14
OCT 28 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

NOA No. 14-0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014
Page 1

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA's No.'s 04–0322.11, 10–0223.02 and 12–0308.34)
2. Drawing No **1287**, Sheets 01 through 04 of 04, titled "Aluminum Clad Wood Direct Set Impact Windows", dated 12/20/03, with revision "**F1**" dated 09/16/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed windows with IGU, prepared by Element Materials Technology, Test Report No. **TCT008189P.rev**, specimens #1 through #11, dated 01/05/12, revised on 02/14/12, signed and sealed by Jason Steen, P. E.
   (Submitted under previous NOA No. 12–0308.34)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI 97274.01–201–18**, dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
   (Submitted under NOA No. 10–0223.02)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201–94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Reports No.'s **ATI 97275.01–201–18** and **ATI 97276.01–201–18**, dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
   (Submitted under NOA No. 10–0223.02)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of a direct set aluminum clad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW–180–6691**, dated 12/15/03, signed and sealed by John D. Lee, P. E.
   (Submitted under NOA No. 04–0322.11)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC, dated 02/27/12, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 12–0308.34)
2. Glazing complies with **ASTM E1300–04/ 09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11–0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their **"DuPont SentryGlas® Interlayer"** dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their **"DuPont Butacite® PVB Interlayer"** dated 04/11/13, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with the **FBC 5th Edition (2014)**, dated 04/15/14, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of conformance, complying with the **FBC–2010**, dated 09/03/13, signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)
3. Statement letter of no financial interest, dated 09/04/13, signed and sealed by Warren W. Schaefer, P. E.
   (Submitted under previous NOA No. 13–0919.08)
4. Laboratory compliance letter for Test Report No. **TCT008189P.rev**, issued by Element Materials Technology, LLC, dated 02/14/12, signed and sealed by Jason Steen, P. E.
   (Submitted under previous NOA No. 12–0308.34)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

5. Laboratory compliance letter for Test Reports No.'s ATI **97274.01-201-18**, **ATI 97275.01-201-18** and **ATI 97276.01-201-18**, all issued by Architectural Testing, Inc., dated 01/21/10, signed and sealed by Joseph A. Reed, P. E.
   (Submitted under previous NOA No. 10-0223.02)
6. Laboratory compliance letter for Test Report No. **TCTCW-180-6691**, issued by Stork Twin City Testing Corporation, LLC, dated 12/15/03, signed and sealed by John D. Lee, P. E.
   (Submitted under previous NOA No. 04-0322.11)

G. OTHERS

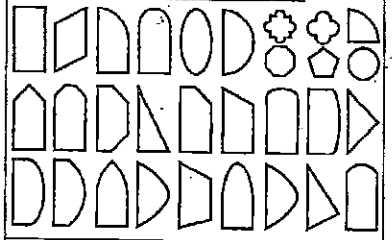
1. Notice of Acceptance No. **13-0919.08**, issued to Pella Corporation for their Series "**Direct Set Aluminum Clad Wood Fixed Window – L.M.I.**", approved on 11/28/13 and expiring on 06/24/19.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14-0428.13
Expiration Date: June 24, 2019
Approval Date: June 26, 2014

GENERAL NOTES:

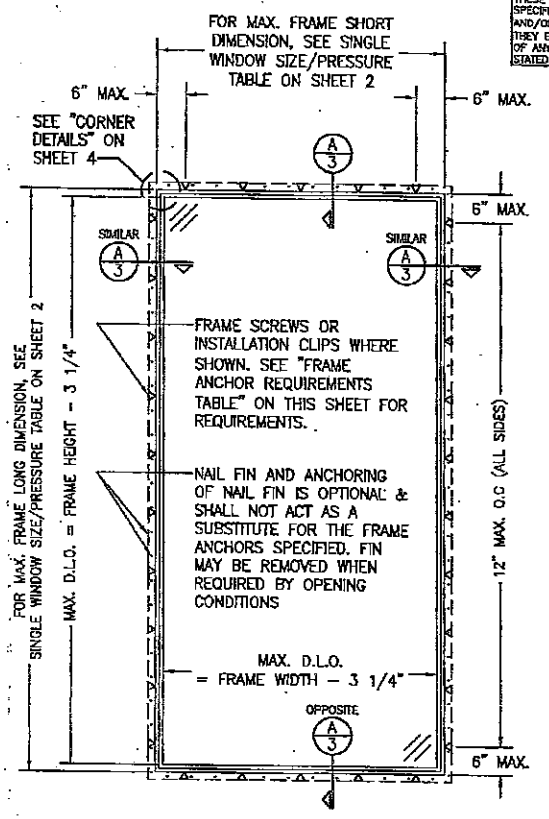
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCALS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

APPROVED SHAPES



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION PER CORNER DETAILS.
2. ALL UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE LOAD TABLE DIMENSIONS (SEE SHEET 2) & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE UNIT SIZE IN THE LOAD TABLE.
3. RECTANGULAR WINDOWS SHOWN. ANCHORING OF SHAPED WINDOWS IS THE SAME WITH REQUIRED ANCHOR SPACING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.



EXTERIOR ELEVATION:
SINGLE FIXED WINDOW
SCALE: 1/2" = 1'-0"
(RECTANGULAR WINDOW SHOWN, SHAPED WINDOWS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON THIS SHEET)

ALLOWABLE DESIGN PRESSURE
SEE LOAD TABLE ON SHEET 2

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
(2) INSTALLATION CLIP SCREWS (STANDARD BENT CONDITION)			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	(2) N/A
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A
INSTALLATION CLIP SCREWS (ALTERNATE STRAIGHT CONDITION)			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
(2) STANDARD BENT CLIP INSTALLATION SCREWS SHALL BE POSITIONED WITHIN 1/4" OF THE BUCK/SUBSTRATE EDGE AND, IF INTO WOOD, ANGLED 20 TO 30 DEGREES INTO THE BUCK.

EDGE DISTANCE MAY BE DECREASED TO 1/2" IF SCREWS ARE ANGLED 15 TO 20 DEGREES AWAY FROM THE EDGE.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14-0428.13 Expiration Date 06/24/2019
By Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-0919.08 Expiration Date June 24 2019
By Manuel Perez Miami Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO 2004 CODE COMPLIANT	WMS	08/09/05
B1	UPDATE TO PRESENT FBC	WMS	02/24/09
C1	CHANGE GLAZING COMPOUND	WMS	03/11/10
D1	UPDATE TO CURRENT STANDARDS	WMH	12/08/11
E1	UPDATE PER NEW TESTING	WMH	02/14/13
F1	UPDATE GLAZING DETAIL	WMH	09/16/13

DRAWN BY: K.P.S.
CHECKED BY: W.M.S.
PLOT: 1=24
DATE: 12/20/03

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7460 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE 561-744-3424

WARREN W. SCHAEFER, P.E. No. 44135, STATE OF FLORIDA, PROFESSIONAL ENGINEER

SEP 16 2013

DRAWING NO. 1287 | REV. F

SHEET NO. 1 OF 4

ALLOWABLE SIZE/PRESSURE TABLE

WINDOW FRAME DIMENSION		ALLOWABLE DESIGN PRESSURE (PSF)															
MAX. LONG SIDE (IN.)	MAX. SHORT SIDE (IN.)	GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTION 4		GLASS OPTION 5		GLASS OPTION 6		GLASS OPTION 7		GLASS OPTION 8	
		POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
120	60	50.3	50.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54.6	54.6	60.0	60.0
	54	56.3	56.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	48	63.6	63.6	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	38	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	25	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	21	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
108	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56.2	56.2	60.0	60.0
	60	55.9	55.9	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	61.5	61.5	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	48	69.8	69.8	75.0	75.0	N/A	N/A	52.7	52.7	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	28	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	23	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
105	68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56.8	56.8	60.0	60.0
	60	57.9	57.9	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	63.4	63.4	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	52	66.0	66.0	75.0	75.0	N/A	N/A	55.3	55.3	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	71.8	71.8	75.0	85.0	N/A	N/A	59.7	59.7	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	43	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	29	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	24	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	57.9	57.9	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	62.3	62.3	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	68.4	68.4	75.0	75.0	N/A	N/A	58.3	58.3	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	47	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	30	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	26	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	59.2	59.2	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	63.7	63.7	75.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	54	69.7	69.7	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	31	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	26	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
84	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	60	73.1	73.1	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	48	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	36	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	30	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
79	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	60.0	60.0
	66	N/A	N/A	N/A	N/A	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	39	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	36	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	32	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
74	74	71.6	71.6	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	66	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	40	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	34	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

ALLOWABLE SIZE/PRESSURE TABLE

WINDOW FRAME DIMENSION		ALLOWABLE DESIGN PRESSURE (PSF)															
MAX. LONG SIDE (IN.)	MAX. SHORT SIDE (IN.)	GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTION 4		GLASS OPTION 5		GLASS OPTION 6		GLASS OPTION 7		GLASS OPTION 8	
		POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG
73	73	73.4	73.4	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	66	75.0	75.0	75.0	75.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	54	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	35	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
66	66	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	45	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	38	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
60	60	75.0	75.0	75.0	85.0	N/A	N/A	60.0	60.0	N/A	N/A	60.0	60.0	60.0	60.0	60.0	60.0
	50	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	42	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
55	55	75.0	75.0	75.0	85.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	46	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
50	50	75.0	75.0	75.0	85.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

1. ALL SIZES IN TABLE ARE BASED ON TESTED SIZES & DO NOT EXCEED THE WINDOW AREA TESTED.
2. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT GLASS OPTION.
3. SEE GLAZING DETAILS FOR GLASS OPTIONS.
4. LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.13
Expiration Date 6/12/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0919.08
Expiration Date June 24, 2019
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: K.P.S. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 12/20/13

NO.	REVISION DESCRIPTION	BY	DATE

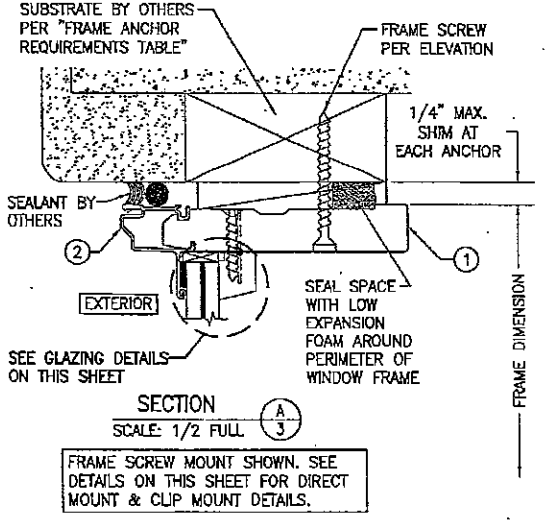
DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3924

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

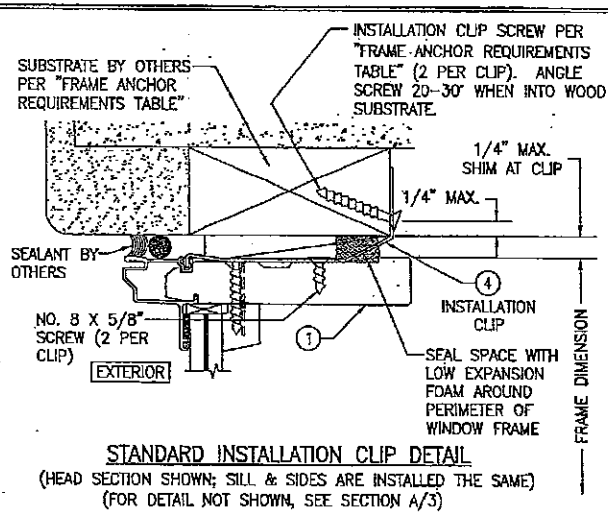
CERTIFICATION: SEP 16 2013
WARREN W. SCHAEFER P.E. FL. REG. NO. 44135

DRAWING NO. 1287 | REV. F
SHEET NO. 2 OF 4

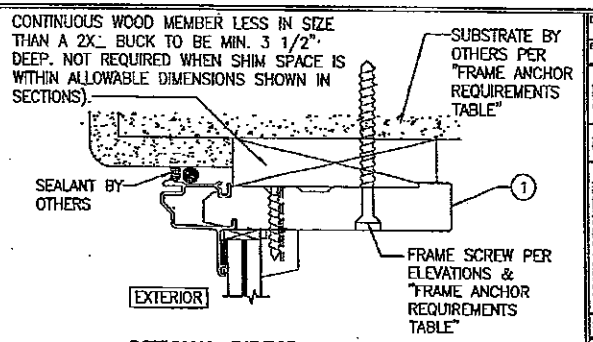


SECTION A/3
SCALE: 1/2 FULL

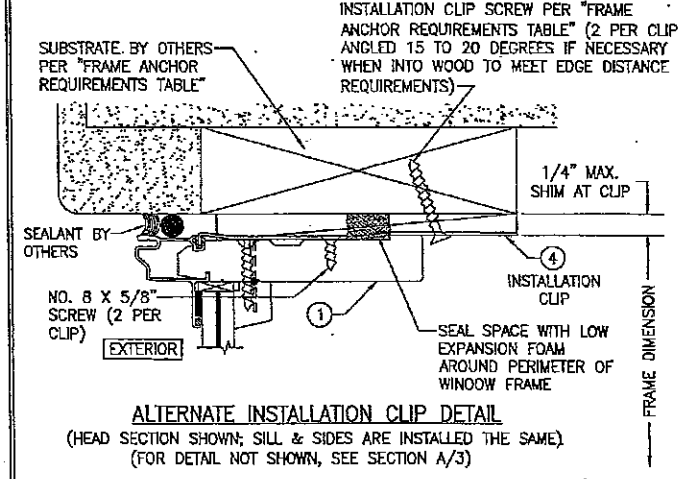
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON THIS SHEET FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



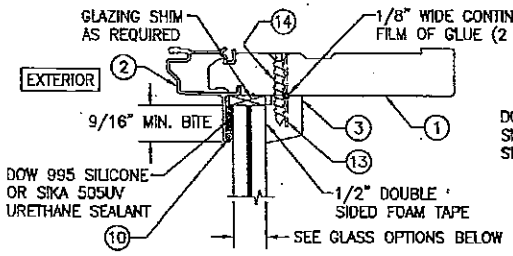
STANDARD INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)

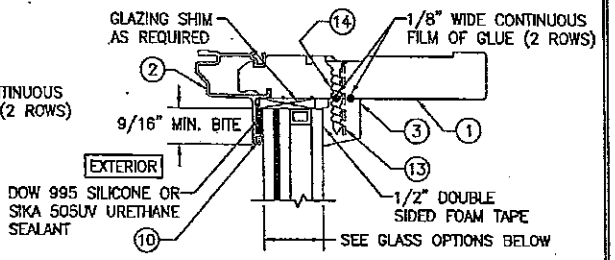


ALTERNATE INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)



TYPICAL MONOLITHIC GLAZING DETAIL

GLASS OPTIONS:
GLASS OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09" DUPONT SG/1/4" AN.)
GLASS OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09" DUPONT SG/1/4" HT. ST.)
GLASS OPTION 3: 7/16" THICK LAMINATED GLASS (3/16" AN./0.09" DUPONT BUTACITE PVB/3/16" AN.)



TYPICAL I.G. GLAZING DETAIL

GLASS OPTIONS:
GLASS OPTION 4: 1" THICK I.G. GLASS (3/16" AN./0.09 DUPONT SG/3/16" AN. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 5: 1" THICK I.G. GLASS (3/16" AN./0.09 DUPONT BUTACITE PVB/3/16" AN. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 6: 1" THICK I.G. GLASS (3/16" HT. ST./0.09 DUPONT SG/3/16" HT. ST. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
GLASS OPTION 7: 1 1/4" THICK I.G. GLASS (1/4" AN./0.09 DUPONT SG/1/4" AN. EXTERIOR; 3/8" SPACER; 1/4" TEMP. INTERIOR)
GLASS OPTION 8: 1 1/4" THICK I.G. GLASS (1/4" HT. ST./0.09 DUPONT SG/1/4" HT. ST. EXTERIOR; 3/8" SPACER; 1/4" TEMP. INTERIOR)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0428.13
Expiration Date 06/24/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0919.08
Expiration Date June 24, 2019
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE NO. 14135 STATE OF FLORIDA PROFESSIONAL ENGINEER

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: K.P.S. | CHECKED BY: W.W.S.
PLOT: 1-2 | DATE: 12/29/03

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3404

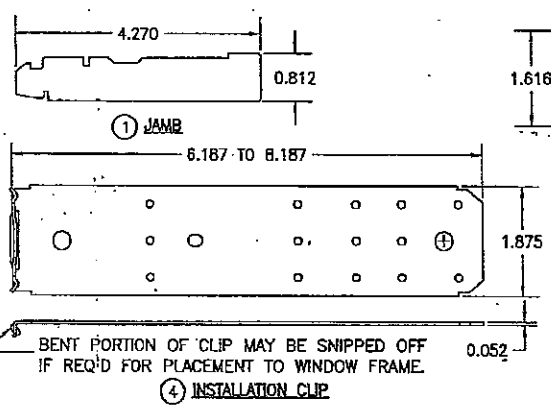
SEP 16 2013

WARREN W. SCHAEFER P.E. NO. 44139

DRAWING NO. 1287 | REV. F
SHEET NO. 3 OF 4

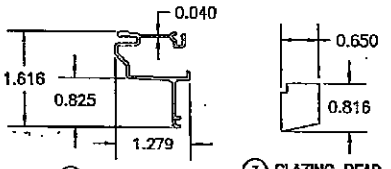
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	JAMB	WOOD
2	JAMB CLADDING	6063--T6 ALUMINUM
3	GLAZING BEAD	WOOD
4	INSTALLATION CLIP	50 KSI STEEL
5	CORNER REINFORCEMENT BRACKET	MIN. 33 KSI GALV. METAL
6	RECTANGULAR FRAME CORNER KEY	NYLON & HYLON
7	SHAPED FRAME CORNER KEY	NYLON & HYLON
	SEALS & SEALANTS	
10	BULB GASKET	PVC
	FASTENERS	
13	1/4" X 1 1/8" 18 GA. STAPLE	WITHIN 2"–4" OF CORNERS & MAX. 6" O.C.
14	NO. 8 X 1 1/4" SMS OR WOOD SCREW	POSITIONED 3", 6", 9" & 12" FROM EACH CORNER

NOTE: WOOD USED IN TESTING WAS PONDEROSA PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PELLA CORP. TO SELECT.



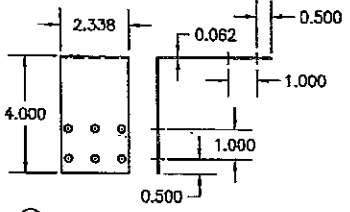
1 JAMB

4 INSTALLATION CLIP

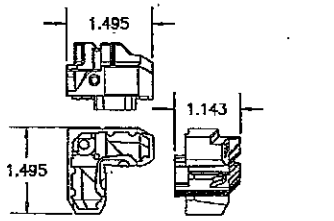


2 JAMB CLADDING

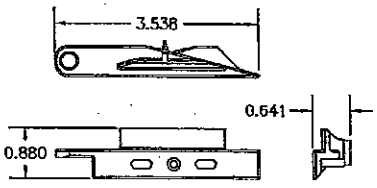
3 GLAZING BEAD



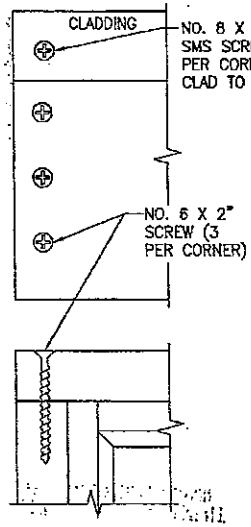
5 CORNER REINFORCEMENT BRACKET



6 RECTANGULAR FRAME CORNER KEY

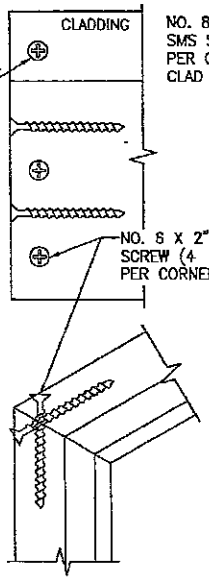


7 SHAPED FRAME CORNER KEY



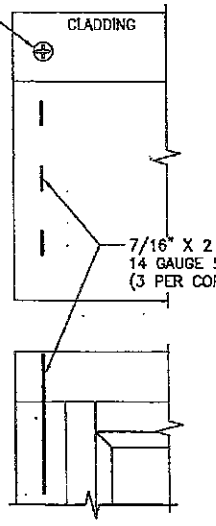
SCREW METHOD CORNER DETAIL FOR 90° CORNERS (INTERIOR VIEW)

NOT TO SCALE



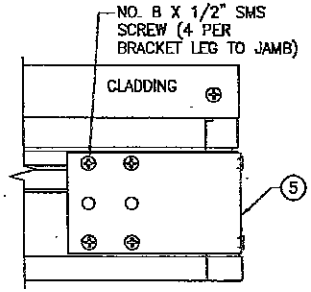
CORNER DETAIL FOR MITERED CORNERS (INTERIOR VIEW)

NOT TO SCALE



STAPLE METHOD CORNER DETAIL FOR 90° CORNERS (INTERIOR VIEW)

NOT TO SCALE



CORNER BRACKET DETAIL

NOT TO SCALE

(ONLY REQUIRED WITH WINDOWS OF SIZE 36 SQUARE FEET & LARGER)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0428.13
Expiration Date 06/24/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0919.08
Expiration Date June 24, 2014
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: K.P.S. | CHECKED BY: W.W.S. | PLOT: 1-2 | DATE: 12/29/03

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

MANUFACTURER: PELLA CORPORATION, 102 MAIN STREET, PELLA, IA 50219, 641-621-1000

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809), 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424

CERTIFICATION: SEP 16 2013

WARREN W. SCHAEFER P.E. FL. REG. NO. 44135

DRAWING NO. 1287 | REV. F

SHEET NO. 4 OF 4

MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

ECO Windows Systems, LLC
9114 N. W. 106th Street,
Medley, FL 33178

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 600 Aluminum Outswing Doors-L.M.I.

APPROVAL DOCUMENT: Drawing No. **W12-08**, titled "Series 600 Alum Outswing Entrance Door (L.M.I.)", sheets 1 through 9 of 9, prepared by AL-Farooq Corporation, dated 02/13/12 and last revised on Jun 28, 2012, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitation:

1. See Single or Double Door Design Pressure (DP) ratings in sheet 2 and Single or Double Door DP ratings with sidelites (w/wo Reinforcement) in sheet 3. The max door leaf width shall not to exceed 37".
2. Laminated glass types G1 and G2 are limited to .090" DuPont's PVB and glass type G3 is limited to Insulated laminated glass w/ .090" Solutia interlayer.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA and consists of this page 1 and evidence pages E-1 as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

APPROVED
OCT 2 8 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

MIAMI-DADE COUNTY
APPROVED

2/14/13

NOA No 12-0402.03
Expiration Date: July 19, 2017
Approval Date: July 19, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections
2. Drawing No. **W12-08**, titled "Series 600 Alum Outswing Entrance Door (L.M.I.)", sheets 1 through 9 of 9, prepared by AL-Farooq Corporation, dated 02/13/12 and last revised on Jun 28, 2012, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

   along with marked-up drawings and installation diagram of an aluminum Outswing French door, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-12-3357, HETI-12-3358, HETI-12-4003, HETI-12-4003 and HETI-12-4027**dated 03/16-26/12, all signed and sealed by Rafael E. Droz-Seda, P. E.
   Note: The above referenced test reports have been revised by an addendum letter dated June 29, 2012, issued by Hurricane Engineering & Testing, Inc., signed and sealed by Rafael E. Droz-Seda, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by Al Farooq Corporation, dated 03/30/12 and last revised on June 28, 2012, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTME-1300-02 & -04.

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**Butacite ® PVB interlayer**", expiring on 12/11/16.
2. Notice of Acceptance **No. 11-0325.05** for "Saflex clear & color interlayer" issued to Solutia Inc., expiring on 05/21/16.
3. XL Edge seal System 201 SS spacer by Cardinal IG.

F. STATEMENTS

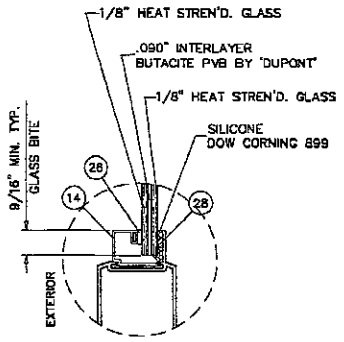
1. Statement letter of conformance and letter of no financial interest, prepared by Al Farooq Corporation, dated 03/30/12, signed and sealed by Javad Ahmad, P.E.
2. Addendum letter dated June 29, 2012, issued by Hurricane Engineering & Testing, Inc., signed and sealed by Rafael E. Droz-Seda, P. E.
3. Lab compliance as part of the above referenced test report.

G. OTHER

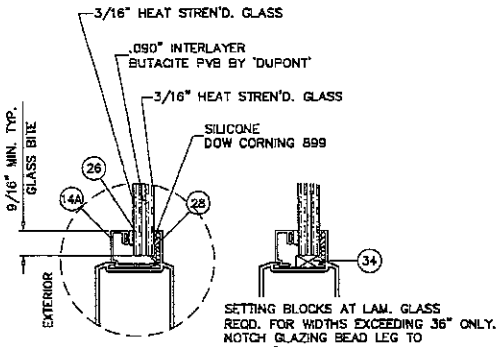
1. Test proposal, dated 10/14/11 and 02-21-12 approved by PERA.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 12-0402.03
Expiration Date: July 19, 2017
Approval Date: July 19, 2012



GLASS TYPE 'G1'



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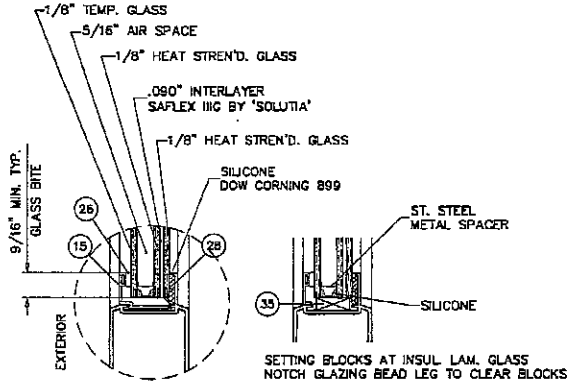

GLASS TYPE 'G3'

SERIES 600
ALUMINUM OUTSWING ENTRANCE DOOR

SINGLE (X) AND DOUBLE (XX) LEAF DOORS SEE SHEET 2.
SINGLE AND DOUBLE LEAF DOORS WITH SIDELITES SEE SHEET 3.
LOWER VALUES FROM SIDELITE CAPACITY CHART OR DOOR CAPACITY WILL APPLY TO ENTIRE SYSTEM.

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Approved as complying with the Florida Building Code
Date: JUN 19, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By: Sherry L. Hawks

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 18 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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COMP--ANL\W12--08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
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TEL. (305) 885-5299 FAX (305) 885-5902

revisions:

no	date	by	description
A	08.28.12		REV. PER PCBA COMMENTS

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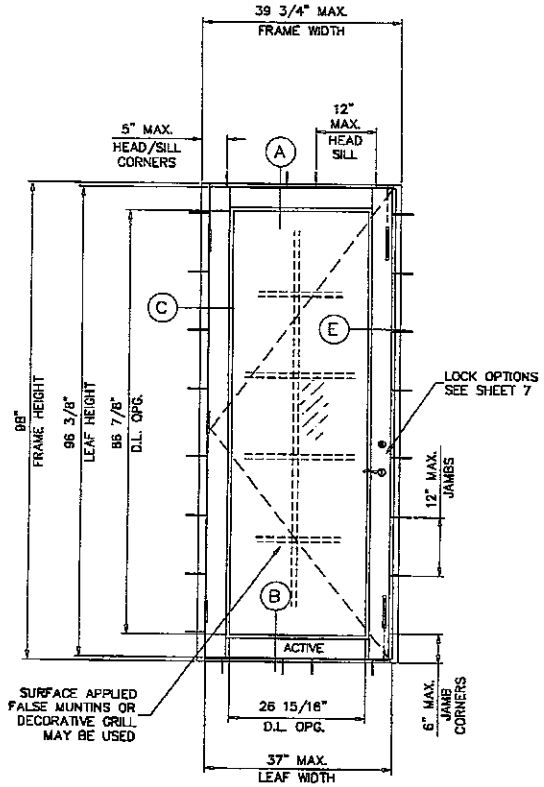
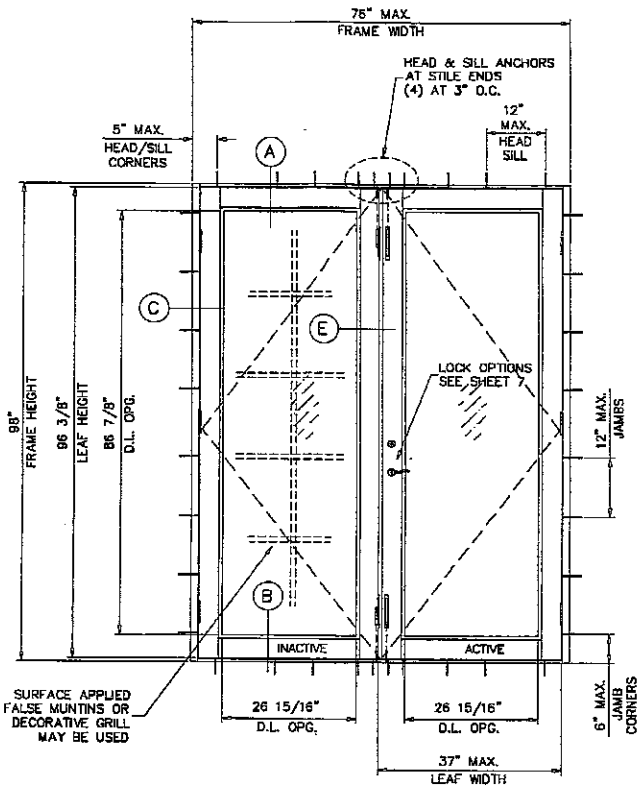
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-08
sheet 1 of 9



(X)



(XX)

DOORS LOAD CAPACITY - PSF SINGLE DOORS (X)				
DOOR DIMS.			LAMINATED GLASS	
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)
39-3/4"	37"	98"	70.0	75.0

DOORS LOAD CAPACITY - PSF DOUBLE (XX)				
DOOR DIMS.			LAMINATED GLASS	
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)
76"	37"	98"	70.0	75.0

GLASS D.L.O. DIMS.

D.L.O. HEIGHT = FRAME HEIGHT - 11.125"
D.L.O. WIDTH (X DOORS) = FRAME WIDTH - 12.813"
D.L.O. WIDTH (XX DOORS) = (FRAME WIDTH - 22.125")/2

Approved as complying with the Florida Building Code
Date JUN 19, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By Ishaq I. Chanda

NOTE:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-04 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

Engr: JAVAD AKHAD
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FLA. PE # 70592
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JUN 28 2012

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COMP-ANL\W12-08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (LM1)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

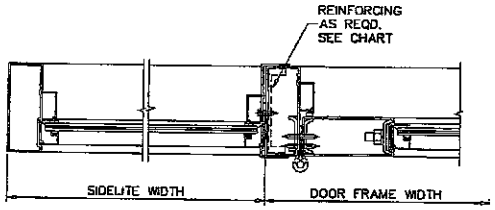
revisions:			
no	date	by	description
A	06.28.12		REV. PER. PERA COMMENTS

date: 02-13-12
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W12-08

sheet 2 of 9

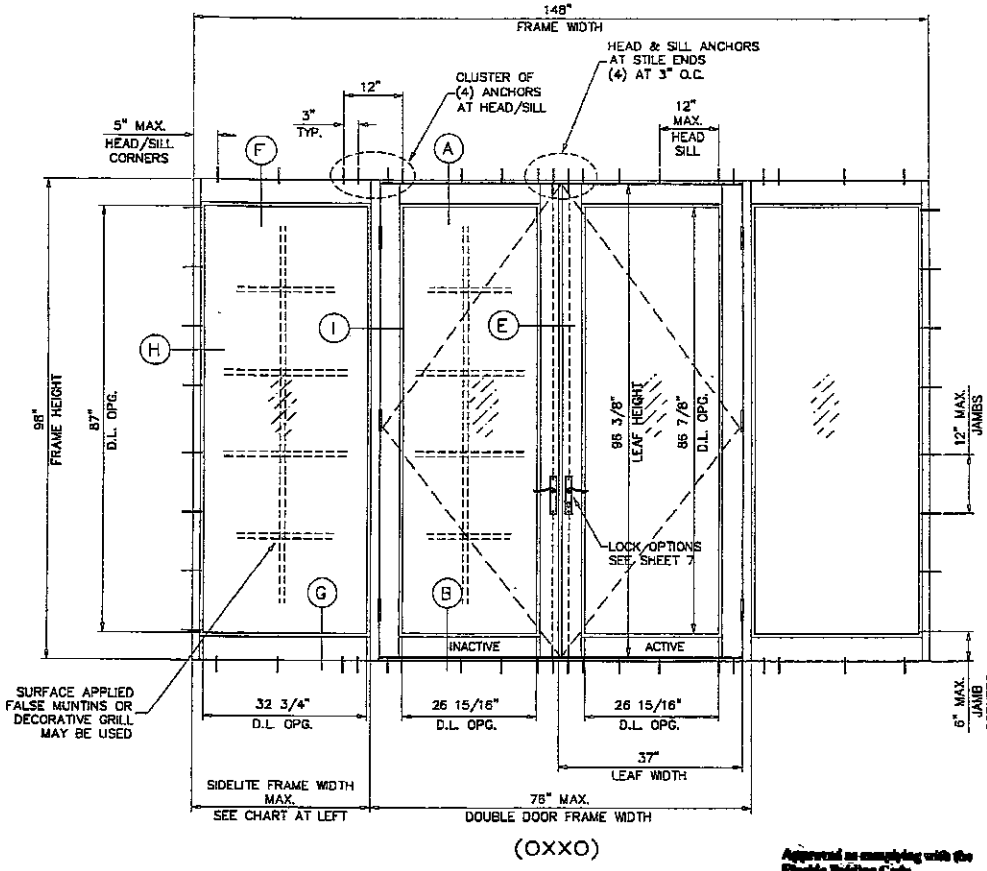
DESIGN LOAD CAPACITY – PSF SIDELITES WITH SINGLE OR DOUBLE LEAF DOORS (SEE NOTE BELOW)					
SIDELITE FRAME WIDTH INCHES	SIDELITE FRAME HEIGHT INCHES	WITHOUT REINFORCING		WITH REINFORCING	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24	82	70.0	75.0	70.0	75.0
30		70.0	75.0	70.0	75.0
36		70.0	75.0	70.0	75.0
37		70.0	75.0	70.0	75.0
42		61.7	66.1	61.7	66.1
24	86	70.0	75.0	70.0	75.0
30		70.0	75.0	70.0	75.0
36		70.0	75.0	70.0	75.0
37		70.0	75.0	70.0	75.0
42		61.7	66.1	61.7	66.1
24	92	70.0	75.0	70.0	75.0
30		69.8	69.8	70.0	75.0
36		64.1	64.1	70.0	75.0
37		63.3	63.3	70.0	78.0
24	98	63.3	63.3	70.0	75.0
30		57.8	57.8	70.0	75.0
36		53.1	53.1	70.0	75.0
37		52.4	52.4	70.0	75.0



NOTE:
FOR DOORS CAPACITIES SEE SHEET 2.
FOR SIDELITE CAPACITIES SEE CHART ABOVE.
LOWER VALUES FROM DOOR OR SIDELITE CHART WILL APPLY TO ENTIRE SYSTEM.

GLASS D.L.O. DIMS.

D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT – 11.000"
D.L.O. WIDTH (SIDELITE) = FRAME WIDTH – 4.438"



(OXXO)

Approved as complying with the Florida Building Code
Date July 19, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By

NOTE:
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Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70582
C.A.N. 3538

JUN 28 2012

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SERIES 600 ALUM. OUTSWING ENTRANCE DOOR (L.H.L.)

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revisions:

no	date	by	description
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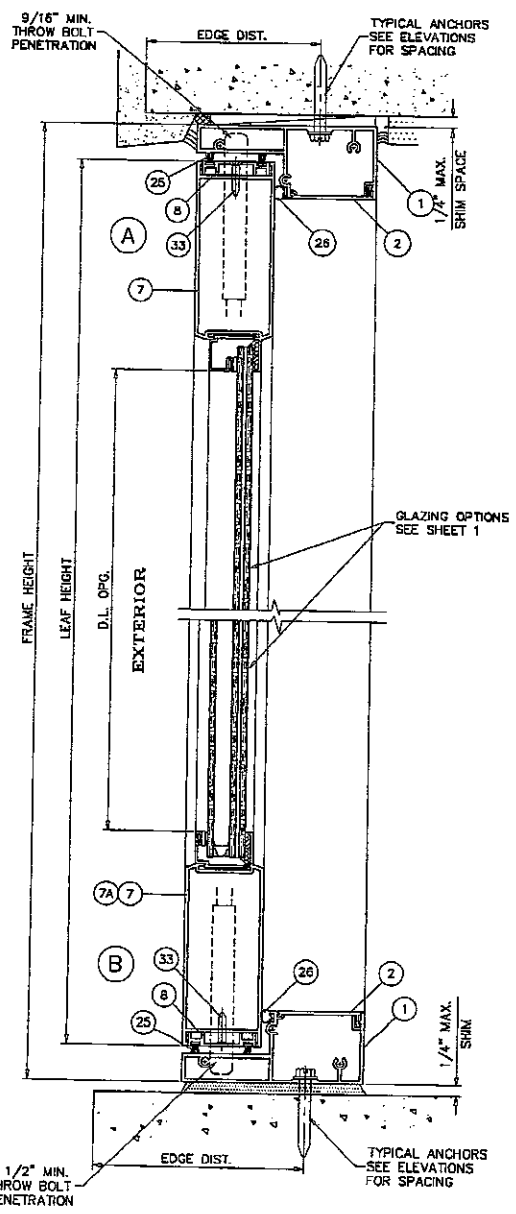
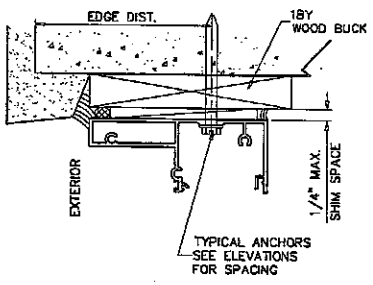
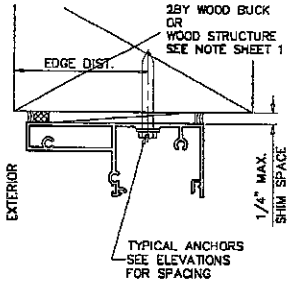
dr. by: HAMID
chk. by:

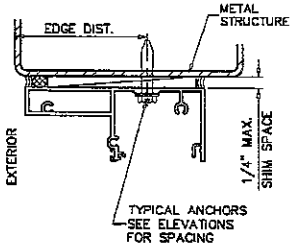
drawing no.
W12-08

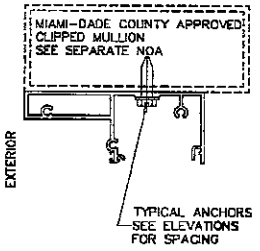
sheet 3 of 9











WOOD BUCKS AND METAL STRUCTURE NOT BY ECO WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

Approval as complying with the Florida Building Code
Date JUN 19 2012
NOA# 12-0402.02
Miami Dade Product Control
By

DOOR DETAILS

Engr: JAVAD AHMAD
Civil
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
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1238 S.W. 87 AVE
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TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-08ECO

SERIES 600 ALUM. OUTSWING ENTRANCE DOOR (L.M.L.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
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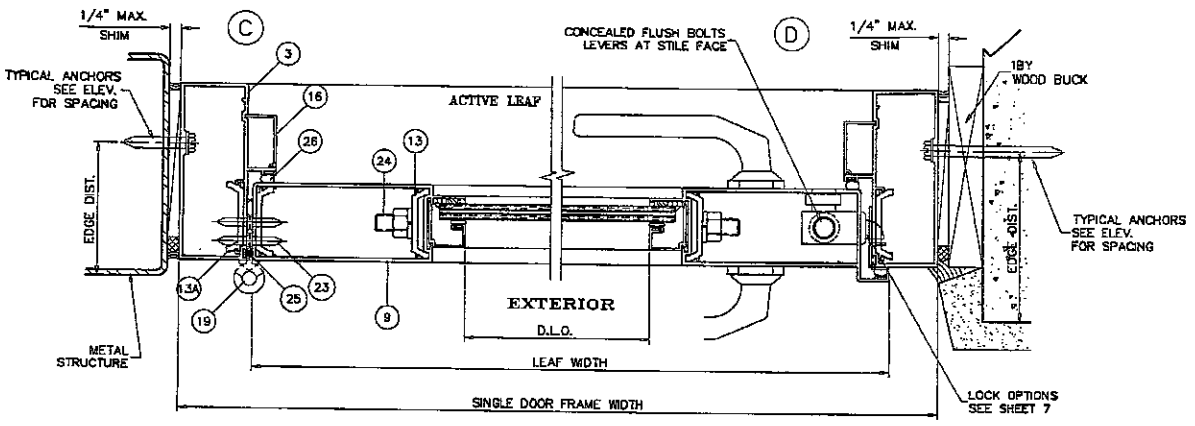
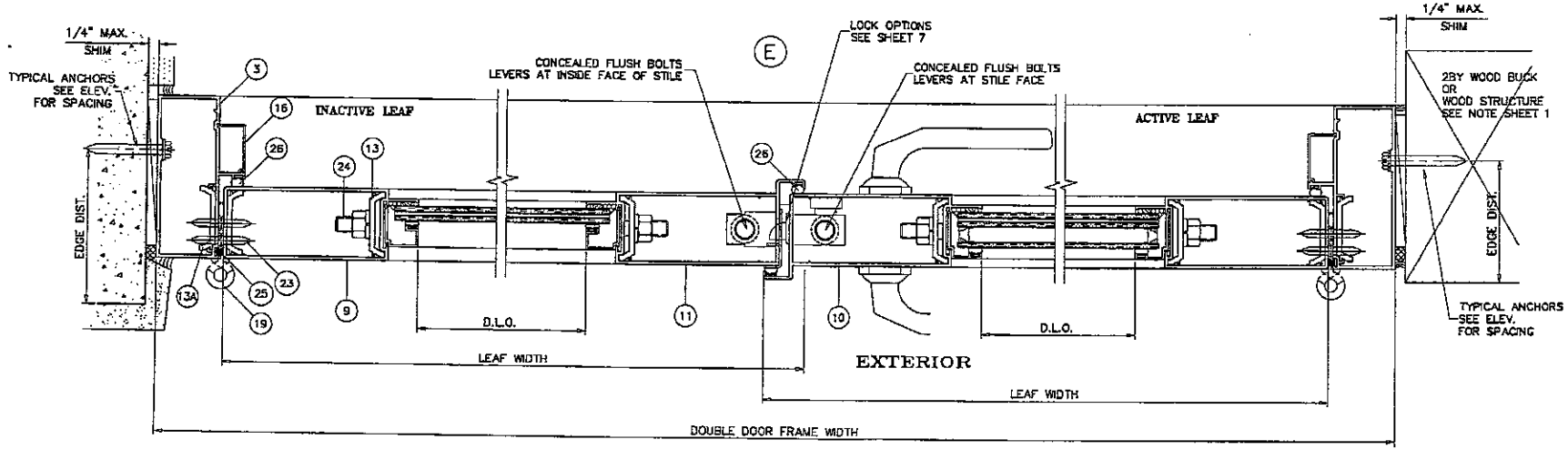
revisions:

no.	date	by	description
A	06.26.12		REV. PER PERA COMMENTS

date: 02-13-12
scale: 3/8" = 1'
dr. by: HAMID
chk. by:

drawing no.
W12-08
sheet 4 of 9





Approved as complying with the Florida Building Code
Date: July 19, 2012
NOA#: 12-0608.03
Miami-Dade Product Control
By: [signature]

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

DOOR DETAILS

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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SERIES 600 ALUM. OUTSWING ENTRANCE DOOR (L.M.I.)

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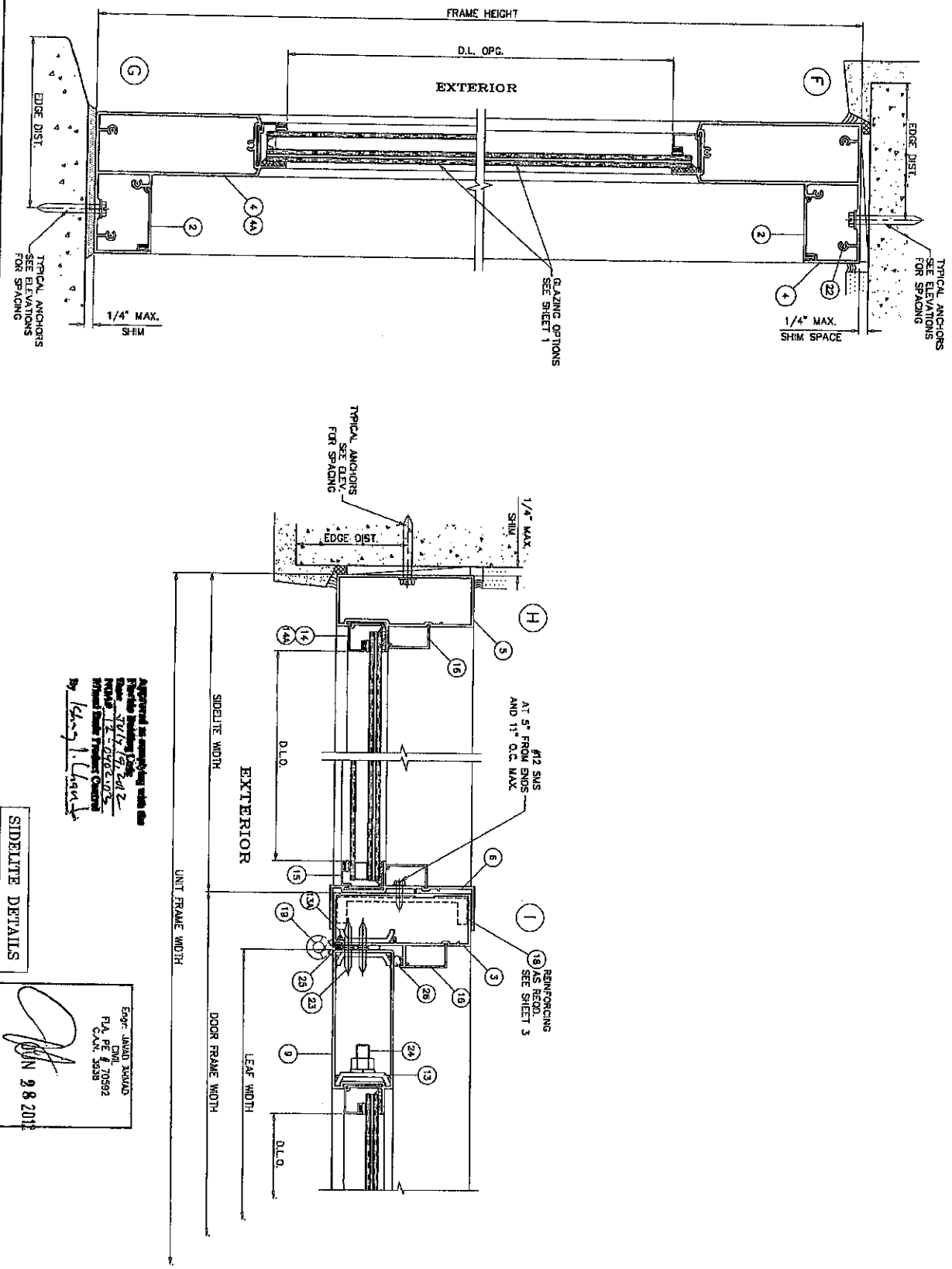
revisions:			
no	date	by	description
A	06.26.12		REV. PER FEMA COMMENTS

date: 02-13-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-08

sheet 5 of 9



SIDELITE DETAILS

Approved as complying with the Florida Building Code
Date: JULY 19, 2012
NOA#: 12-0702.05
Miami-Dade Product Control
By:

Engr. JAVAD JAHAD CIVIL FLA. PE # 70592 C.A.N. 3938

JUN 28 2012

sheet 6 of 9	drawing no. W12-08	date: 02-13-12	revisions:
		scale: 3/8" = 1"	no. date by description
		dr. by: HANO	A 05.25.12 REV. PER PERA COMMENTS
		chk. by:	

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.I.)

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afc

COMP-ANL\W12-08ECO

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E601	–	DOOR FRAME HEAD/SILL	6063–T6	–
2	E602	–	FRAME COVER	6063–T6	–
3	E603	–	DOOR FRAME JAMB	6063–T6	–
4	E604	–	SIDELITE TOP & BOTTOM FRAME	6063–T6	–
4A	E626	–	SIDELITE 9" BOTTOM FRAME	6063–T6	–
5	E605	–	SIDELITE FRAME JAMB	6063–T6	–
6	E606	–	SIDELITE SLIP ON JAMB	6063–T6	–
7	E607	–	LEAF TOP & BOTTOM RAIL	6063–T6	–
7A	E625	–	LEAF 9" BOTTOM RAIL	6063–T6	–
8	E608	–	LEAF W'STRIP ADAPTER	6063–T6	–
9	E609	–	LEAF HINGE STILE	6063–T6	–
10	E610	–	LEAF LOCK STILE	6063–T6	–
11	E611	–	LEAF ASTRAGAL STILE	6063–T6	–
12	E612	–	LEAF ALIGNMENT BRACKET	6063–T6	–
13	E613	–	LEAF CLAMP	6063–T6	4–1/4" LONG
13A	E613	–	HINGE BACK–UP PLATE	6063–T6	12" LONG
14	E614	–	GLAZING BEAD (5/16" LAM. GLASS)	6063–T6	–
14A	E109	–	GLAZING BEAD (7/16" LAM. GLASS)	6063–T6	–
15	E615	–	GLAZING BEAD (INSUL. GLASS)	6063–T6	–
16	E616	–	SNAP COVER	6063–T6	–
17	E613	–	BOLT SUPPORT	6063–T6	NOT SHOWN
18	–	AS REQD.	SIDELITE MULLION REINFORCING	6063–T6	–
19	FD–107	3/ LEAF	BUTT HINGES	ALUMINUM	SULLIVAN & ASSOC.
20	FB1202	–	FLUSH BOLT LEVER	–	SULLIVAN & ASSOC.
21	FBR914SS	–	CONCEALED FLUSH BOLT ROD	ST STEEL	SULLIVAN & ASSOC.
22	#12 SMS	AS REQD.	FRAME ASSEMBLY SCREWS	–	–
23	#12 X 3/4"	–	HINGE INSTALLATION FASTENERS	–	FH SMS
24	–	–	3/8" DIA. THREADED ROD	STEEL	–
25	W11323	–	PILE W'STRIPPING	WOOL	ULTRAFAB
26	E20618–KN–3020	–	BULB W'STRIPPING	SANTOPRENE	EPDM
27	E206	–	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
28	–	–	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
29	E622	–	FLUSH BOLT CUP	NYLON	–
30	DL01RC	–	BLACK BOLT SUPPORT BLOCK	POLYETHYLENE	INTERLOCK
31	DL01WB	–	WHITE BOLT SUPPORT BLOCK	POLYETHYLENE	ACME PLASTIC
33	#10 X 3/4"	2/ ADAPTER	FH SELF DRILLING SCREWS	–	–
34	–	2/ LITE	SETTING BLOCK, 1/4" X 1/2" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5
35	–	2/ LITE	SETTING BLOCK, 1/4" X 3/4" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5

LOCKS:

OPTION #1:

ACTIVE LEAF:

4 POINT LOCK ASSEMBLY DL01–6007 BY 'INTERLOCK USA INC.'
(2) LOCKING POINTS ENGAGING AT INACTIVE LEAF
1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME AT HEAD AND SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK LOCATED AT 42–1/2" FROM BOTTOM

INACTIVE LEAF:

2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.'
1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME AT HEAD AND SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK LOCATED AT 42–1/2" FROM BOTTOM

OPTION #2:

ACTIVE LEAF:

CONVENTIONAL DOOR LOCKSET WITH HANDLE
DELTA 690 BY 'KWIKSET' LOCATED AT 39–1/4" FROM BOTTOM
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR THROW BOLT LOCATED AT 44–3/4" FROM BOTTOM

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'
1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE
LOCATED AT 10–5/8" FROM TOP AND BOTTOM
LOCK FASTENED TO STILE WITH (2) #8–32 X 1/2" FH MS

INACTIVE LEAF:

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'
1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
MANUALLY OPERATED LEVERS MOUNTED ON INSIDE FACE
OF LEAF STILE LOCATED AT 10–5/8" FROM TOP AND BOTTOM
LOCK FASTENED TO STILE WITH (2) #8–32 X 1/2" FH MS

NOTE: LOCKS MUST BE ENGAGED DURING PERIODS OF HURRICANE WARNING.

HINGES:

3–1/2" X 7–5/8" X .122" THK. EXTRUDED ALUM HINGE
PART #FD–107 BY SULLIVAN & ASSOC.
3 HINGES PER LEAF
BOTTOM HINGE AT 10–1/4" FROM BOTTOM
TOP HINGE AT 11–3/4" FROM TOP
CENTER HINGE AT MIDSPAN (38" O.C. MAX.)
HINGES FASTENED WITH #10 X 1" FH SMS
(5) SCREWS AT HINGE STILE
(6) SCREWS AT FRAME JAMB

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE MOREHEAD JM5504 SEALANT.

Approved as complying with the Florida Building Code
Date: 1/19/2012
NOA#: 12-0402.03
Miami-Dade Product Control
By: Isleen Hernandez

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
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COMP–ANL\W12–08ECO

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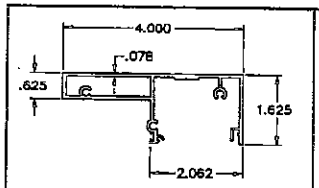
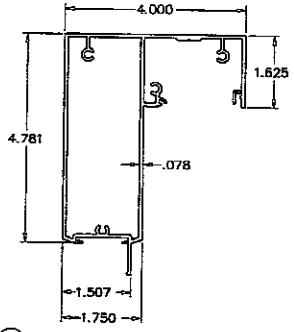
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no. W12–08

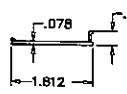
sheet 7 of 9



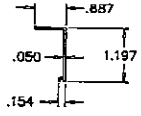
1 DOOR FRAME HEAD/SILL



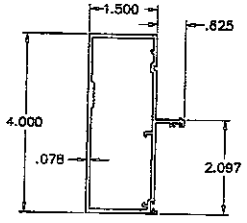
4 SIDELITE TOP & BOTTOM FRAME



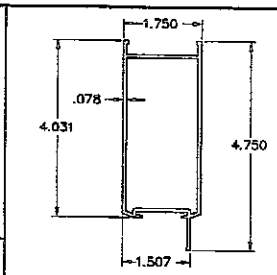
2 FRAME COVER



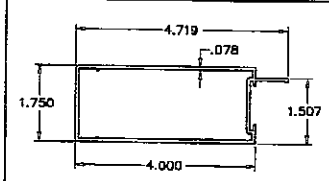
16 SNAP COVER



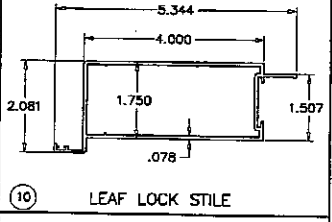
3 DOOR FRAME JAMB



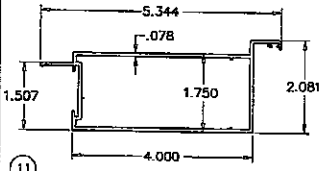
7 LEAF TOP/BOTTOM RAIL



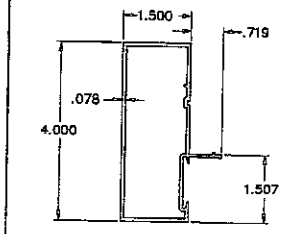
9 LEAF HINGE STILE



10 LEAF LOCK STILE



11 LEAF ASTRAGAL STILE



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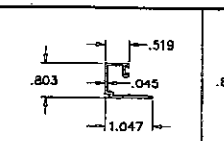
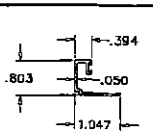
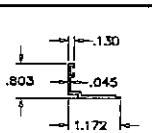


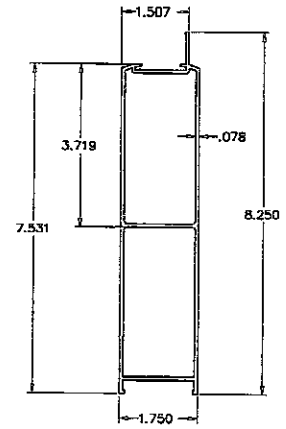
14 GLAZING BEAD 5/16" GLASS



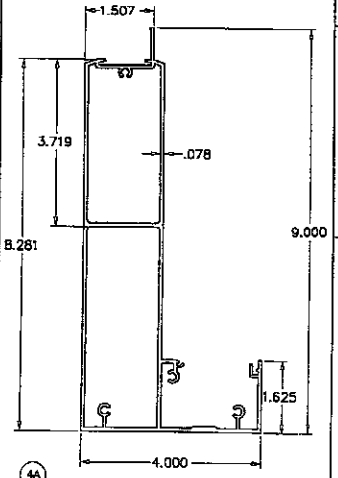
14A GLAZING BEAD 7/16" GLASS



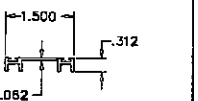
15 GLAZING BEAD INSUL. GLASS



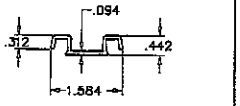
7A 9" BOTTOM RAIL



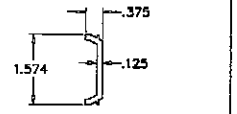
4A SIDELITE 9" BOTTOM FRAME



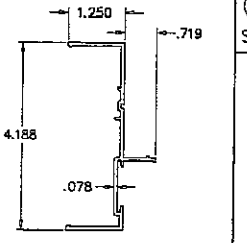
8 LEAF W'STRIP ADAPTER



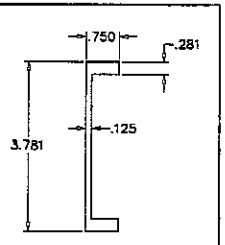
12 LEAF ALIGNMENT BRACKET



13 LEAF CLAMP HINGE BACK-UP PLATE



6 SIDELITE SLIP ON JAMB



18 SIDELITE MULLION REINFORCING

Approved as complying with the Florida Building Code
Date July 19, 2012
NOA# 12-0402.03
Miami-Dade Product Control
By

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.R. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-9100 FAX. (305) 262-6978

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.L.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

COMP-ANL\W12-08ECO

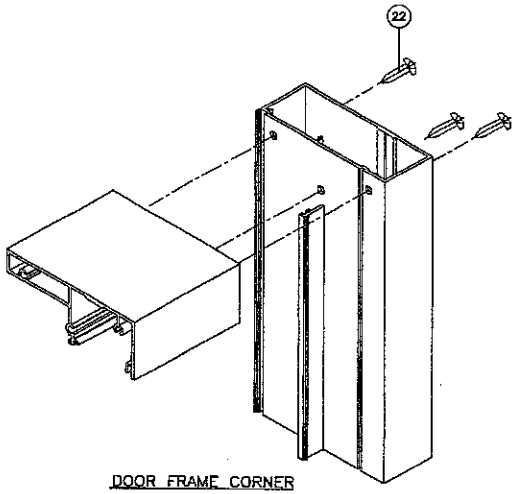
revisions:

no	date	by	description
A	06.26.12		NO CHANGE THIS SHEET

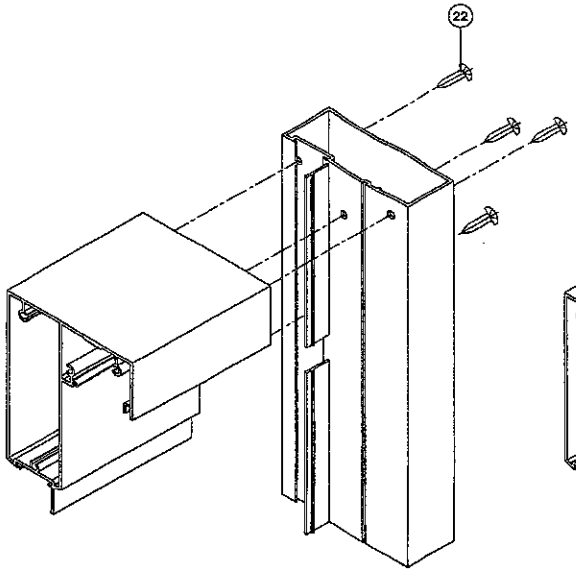
date: 02-13-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no. W12-08

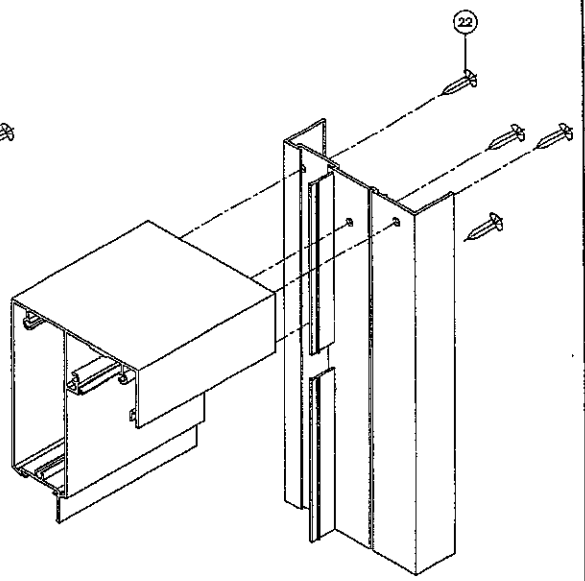
sheet 8 of 9



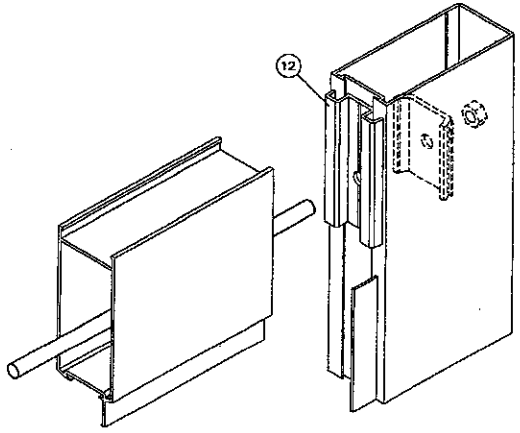
DOOR FRAME CORNER



SIDELITE FRAME CORNER



SIDELITE SLIP ON JAMB CORNER



LEAF CORNER

Approved as complying with the Florida Building Code
Date 7/19/2012
NOA# 12-0402.08
Miami-Dade Product Control
By

Engn. JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUN 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-5978

COMP-ANL\W12-08ECO

SERIES 600 ALUM OUTSWING ENTRANCE DOOR (L.M.L.)

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9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:

no	date	by	description
A	06.25.12		REV. PER PERA COMMENTS

date: 02-13-12
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-08

sheet 9 of 9

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Behar Windows, LLC
4006 N. 30th Avenue
Hollywood, FL 33020

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "NOAH 3000" Aluminum Window Wall System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **BW-3000F**, titled "Series NOAH 3000 Fixed Window/Window Wall System (LMI)" sheets 1 thru 5, 6, 6A, and 7 thru 11 of 11, dated 04/18/11, with revision #4 dated 10/22/13, prepared by Stanton Engineering, Inc. signed and sealed by Christopher Stanton, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA# 12-0523.14** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

APPROVED
OCT 2 8 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

MIAMI-DADE COUNTY APPROVED

11/22/13

NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

Behar Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **BW-3000F**, titled "Series NOAH 3000 Fixed Window/Window Wall System (L.M.I.)" Sheets 1 thru 5, 6, 6A, and 7 thru 11 of 11, dated 04/18/11, with revision #4 dated 10/22/13, prepared by Stanton Engineering, Inc., signed and sealed by Christopher Stanton, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-0827.01-12**, dated 02/13/13, signed and sealed by Henry Hattem, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-1213.01-10**, dated 02/01/11, signed and sealed by Julio E. Gonzalez, P.E. ***(Submitted under NOA# 11-0427.01)***
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of aluminum fixed window, prepared by American Test Lab of South Florida, Test Report No. **ATLSF-0908.01-10,** dated 10/06/10, signed and sealed by Julio E. Gonzalez, P.E. ***(Submitted under NOA# 11-0427.01)***

Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Stanton Engineering, Inc., dated 01/28/11, revised on 07/14/11, and revised for compliance of FBC 2010 on 05/21/12, signed and sealed by Christopher Stanton, P.E.
   (Submitted under NOA# 11-0427.01)
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11–0624.02** issued to **E.I. DuPont DeNemours & Co.**, Inc. for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 2010**, dated June 10, 2013, signed and sealed by Christopher Stanton, P.E.
2. Statement letter of no financial interest, dated June 10, 2013, signed and sealed by Christopher Stanton, P.E.
3. Laboratory compliance letter for Test Report No. **ATLSF-0827.01-12**, issued by American Test Lab of South Florida, dated 02/13/13, signed and sealed by Henry Hattem, P.E.
3. Laboratory compliance letter for Test Report No. **ATLSF-1213.01-10**, issued by American Test Lab of South Florida, dated 02/01/11, signed and sealed by Julio E. Gonzalez, P.E.
   (Submitted under NOA# 11-0427.01)
4. Laboratory compliance letter for Test Report No. **ATLSF-0908.01-10**, issued by American Test Lab of South Florida, dated 10/06/10, signed and sealed by Julio E. Gonzalez, P.E.
   (Submitted under NOA# 11-0427.01)

G. OTHER

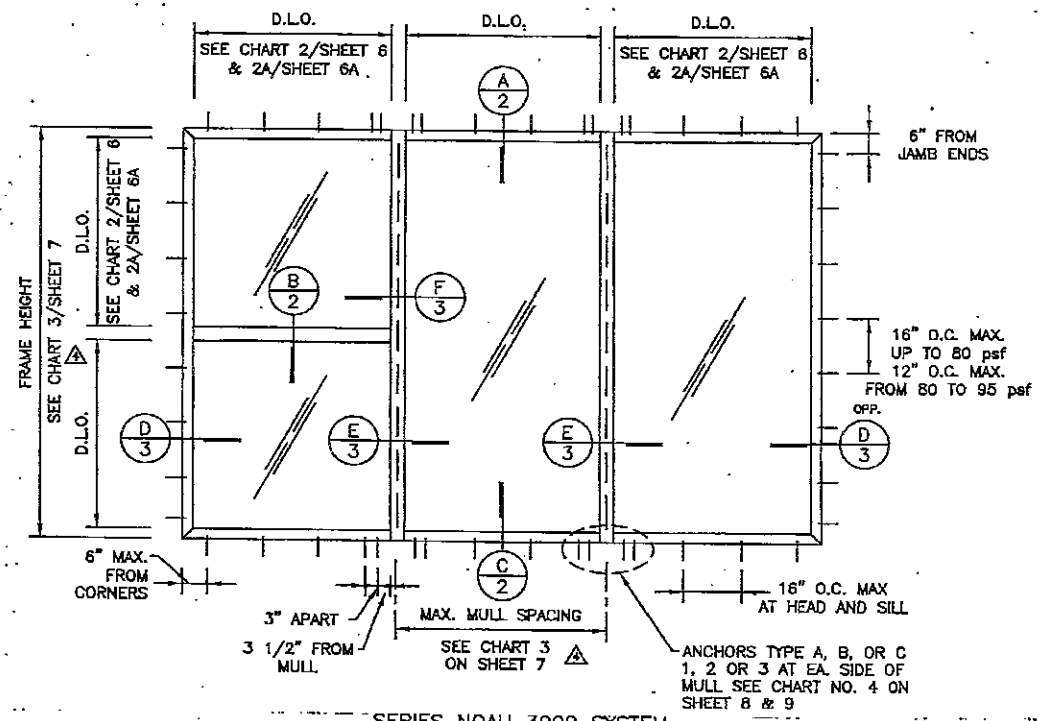
1. Notice of Acceptance No. **12-0523.14**, issued to Behar Windows, LLC for their Series "NOAH 3000" Aluminum Window Wall System – L.M.I., approved on 07/19/12 and expiring on 08/11/16.

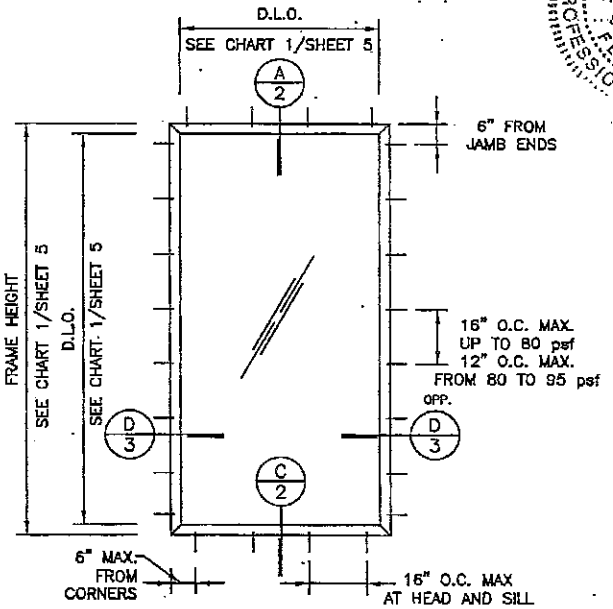
Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0724.10
Expiration Date: August 11, 2016
Approval Date: November 28, 2013

BEHAR WINDOW · SERIES NOAH 3000 WINDOW WALL

TYPICAL ELEVATIONS





SERIES NOAH 3000 SYSTEM

THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 EDITION, INCLUDING HIGH VELOCITY HURRICANE ZONE.

WOOD BUCKS, BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED AND SHOWN ON THE DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A 33% INCREASE IN ALLOWABLE STRESS IS NOT USED IN THE DESIGN OF THIS SYSTEM.

ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2: SEE CHART NO. 1 ON SHEET 5 AND CHART NO. 2 ON SHEET 6 AND CHART 2A ON SHEET 6A FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON FRAME CONFIGURATION AND APPLICABLE WIND DURATION. THE CAPACITY SHOULD EXCEED THE REQUIRED DESIGN LOAD.

STEP 3: CHECK MULLION CAPACITY FOR GIVEN SPACING AND HEIGHT USING CHART NO. 3 ON SHEET 7. THE CAPACITY SHOULD EXCEED THE REQUIRED DESIGN LOAD.

STEP 4: USING CHART NO. 4 ON SHEET 8 & 9, SELECT ANCHOR OPTION WITH DESIGN RATING THAT EXCEEDS THE REQUIRED DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 13-0726.10
Expiration Date 2nd-11-2016
By Manuel Perez
Miami Dade Product Control

CHRISTOPHER STANTON * LICENSE * NO. 69316 * STATE OF FLORIDA * PROFESSIONAL ENGINEER *
SEAL
NOV 14 2013
CHRISTOPHER STANTON, P.E. FL P.E. #69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

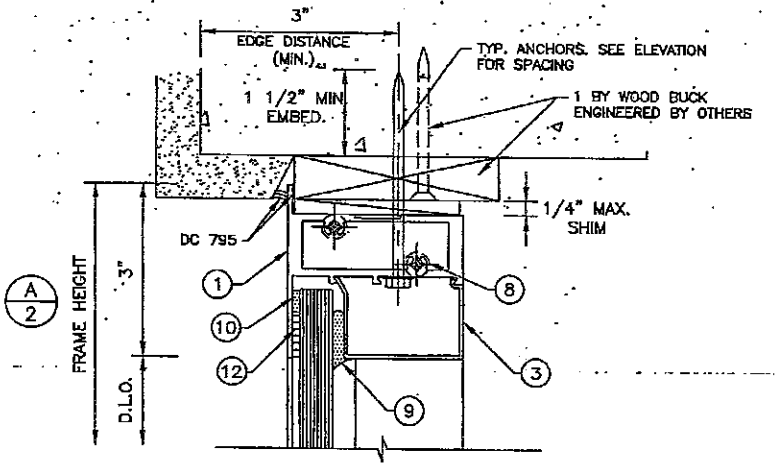
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

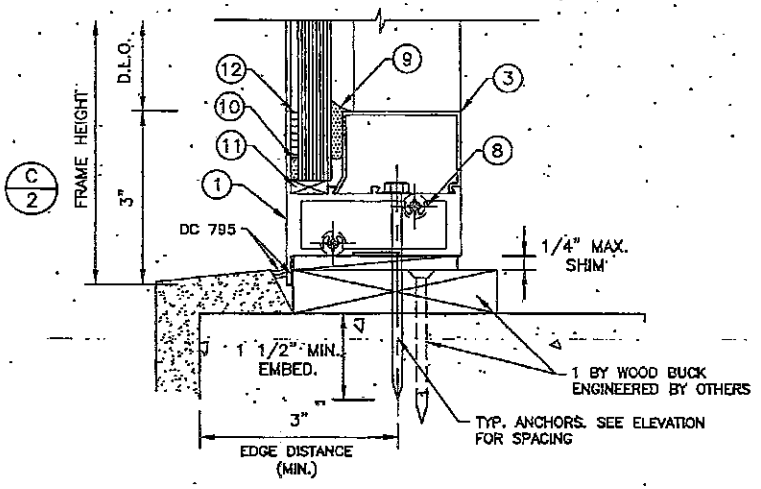
Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

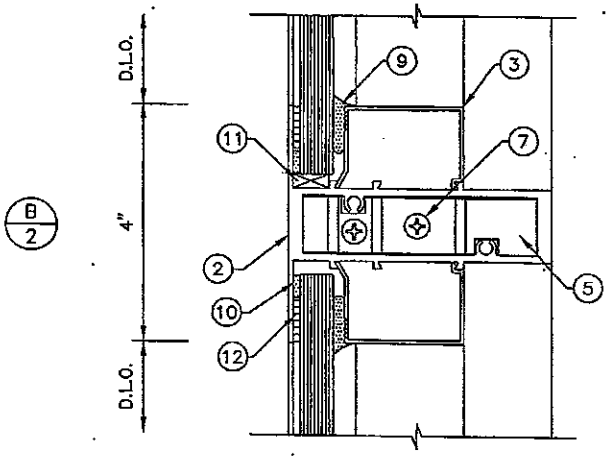
SCALE:	NOTED
DATE:	4/16/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

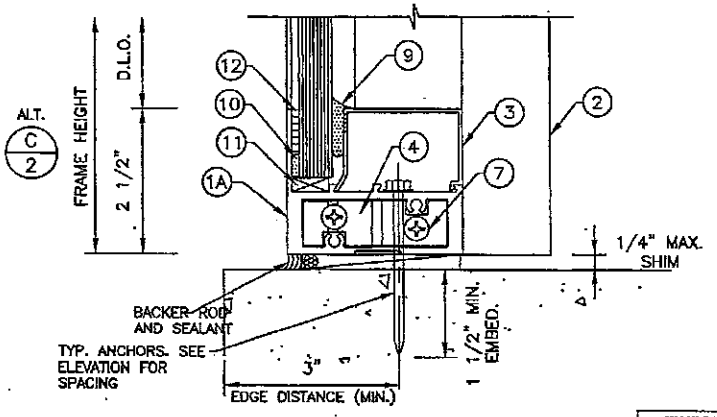
BW-3000 F
DRAWING NO.

SHEET NO.
1 of 11









ALTERNATE INSTALLATION

WITH FLANGE REMOVED
(HEAD, SILL AND JAMB)

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	6-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date 2nd.11.2016
By Manuel Sera
Miami-Dade Product Control

CHRISTOPHER STANTON LIC. NO. 68316 STATE OF FLORIDA PROFESSIONAL ENGINEER
SEAL
NOV 1 2013
CHRISTOPHER STANTON, P.E.
FLA P.E. #68316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

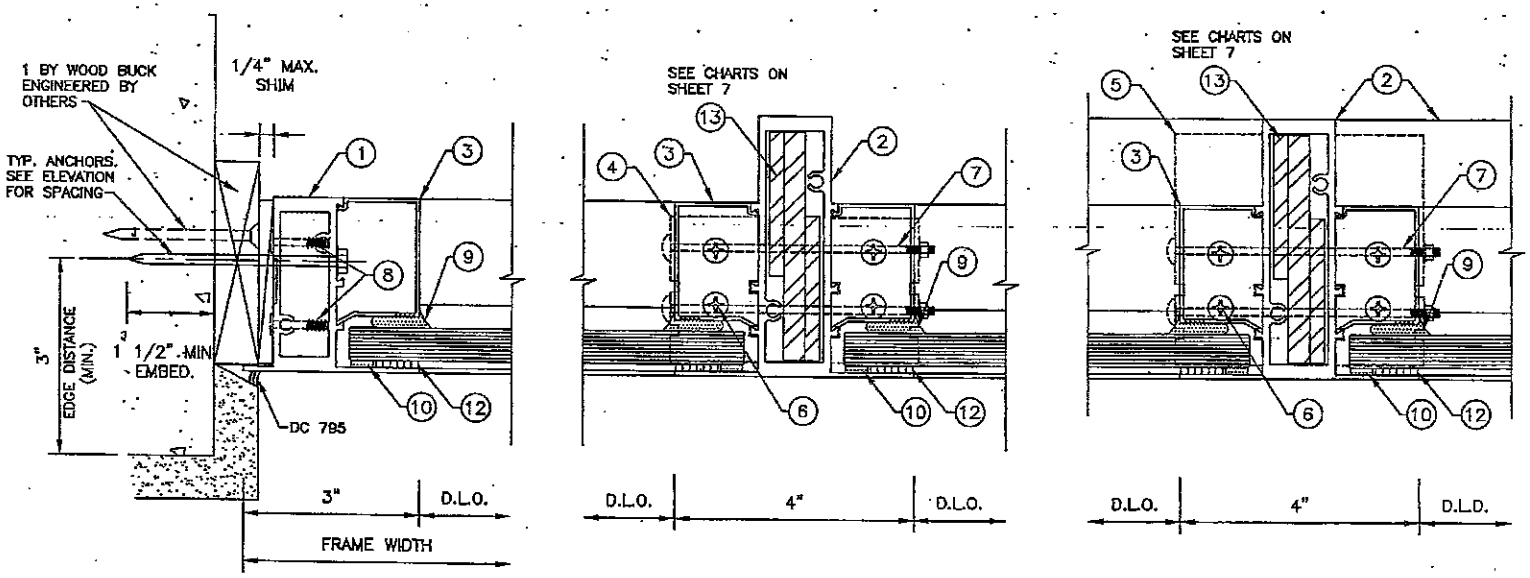
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DG
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
2 of 11



D/3 E/3 F/3

CHRISTOPHER STANTON P.E. LICENSE No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 14 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5660

SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	D.S.

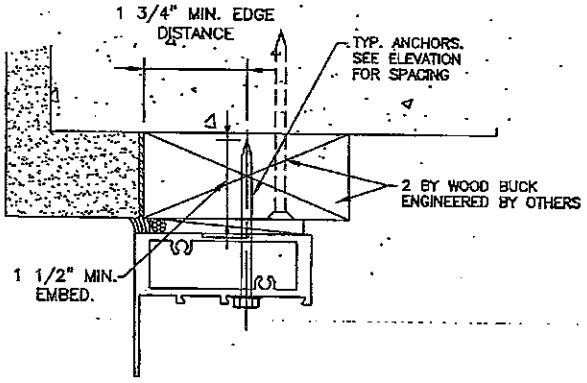
BW-3000 F
DRAWING NO.

SHEET NO.
3 of 11

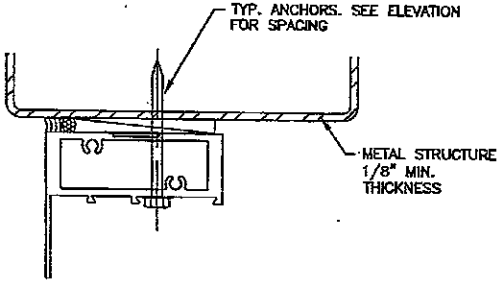
NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			
6			

MIAMI-DADE COUNTY USE ONLY

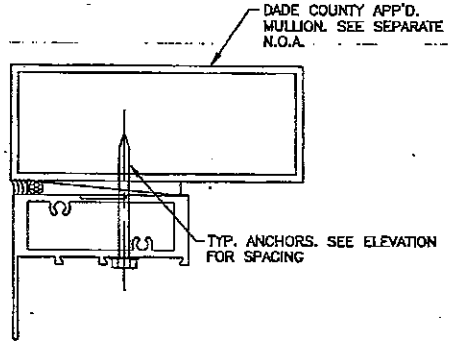
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Oct 11 2016
By Manuel Perez
Miami Dade Product Control



ANCHOR TYPE – C



ANCHOR TYPE – B



ANCHOR TYPE – B

WOOD BUCKS NOT BY BEHAR WINDOWS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS:

SEE ELEVATIONS FOR SPACING

TYPE "A"–1/4" ULTRACONS BY ELCO

THRU 1BY WOOD OR 2BY WOOD BUCKS INTO 3000 PSI MIN. CONC. OR C–90 GROUT FILLED BLOCK. 1 1/2" MIN. EMBED. INTO CONC. OR MASONRY

DIRECTLY INTO 3000 PSI MIN. CONCRETE 1 1/2" MIN. EMBED. INTO CONC.

TYPE "B"–#14 SMS OR 1/4" SELF DRILLING SCREWS

INTO METAL STRUCTURES (STEEL OR ALUM. 1/8" MIN. THICK.)

STEEL: Fy – 36 KSI MIN.
ALUMINUM: 6063–T5 MIN.
(STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED)

TYPE "C"–1/4" ULTRACONS BY ELCO

INTO 2BY WOOD BUCKS OR WOOD SUBSTRAIGHTS 1 1/2" MIN. PENETRATION INTO #2 SYP

TYPICAL EDGE DISTANCE

INTO CONC. OR MASONRY = 3" MIN.
INTO WOOD STRUCTURE = 1 3/4" MIN.
INTO METAL STRUCTURE = 3/8" MIN.

4 MINIMUM ANCHOR SPACING

ANCHOR TYPE "A" = 3" MIN.
ANCHOR TYPE "B" = 1" MIN.
ANCHOR TYPE "C" = 2 1/2" MIN.

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Dec 11 2016
By Maurice Fera
Miami-Dade Product Control

CHRISTOPHER STANTON LICENSE No. 68316 STATE OF FLORIDA PROFESSIONAL ENGINEER NOV 1 1 2013
CHRISTOPHER STANTON, P.E. FLA. REG. No. 68316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
4 of 11

CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS PSF

NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (–)	EXT. (+) INT. (–)
26 1/2"	26"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	38 3/8"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	50 5/8"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	63"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0
26 1/2"	76"	100.0	80.0
32"		100.0	80.0
37"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
53 1/8"		100.0	80.0

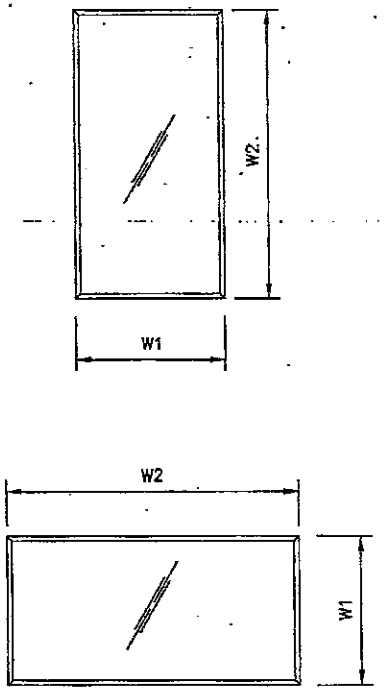
CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS PSF

NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	48"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	80.0
24"	60"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	80.0
24"	72"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	80.0
60"		100.0	–
24"	84"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	80.0
54"		100.0	–
60"		100.0	–

CHART NO. 1
GLASS CAPACITY CHART FOR SINGLE OPENING WINDOWS PSF

NOMINAL DIMS.		GLASS TYPE "A"	GLASS TYPE "B" & "C"
W1	W2	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	96"	100.0	80.0
30"		100.0	80.0
36"		100.0	80.0
42"		100.0	80.0
48"		100.0	–
54"		100.0	–
60"		100.0	–
24"	108"	100.0	–
30"		100.0	–
36"		100.0	–
42"		100.0	–
48"		100.0	–
54"		100.0	–
60"		100.0	–
24"	120"	100.0	–
30"		100.0	–
36"		100.0	–
42"		100.0	–
48"		100.0	–
54"		100.0	–
60"		100.0	–

TYPICAL ELEVATION



NOTE:

W1 = SHORT SIDE
W2 = LONG SIDE
WINDOW MAY BE INSTALLED VERTICALLY OR HORIZONTALLY

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)–5"] X [(W2)–5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)–4 1/2"] X [(W2)–4 1/2"]

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Aug. 14, 2016
By Maria Perez
Miami Dade Product Control

CHRISTOPHER STANTON LICENSE No 69318 STATE OF FLORIDA PROFESSIONAL ENGINEER
SEAL
NOV 21 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5660

SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
5 of 11

CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	87"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0
36"	90"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0

CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	93"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
69"		100.0
72"		100.0
36"	99"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
66"		100.0
36"	102"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
65"		100.0

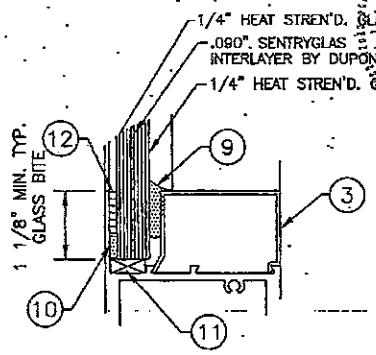
CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

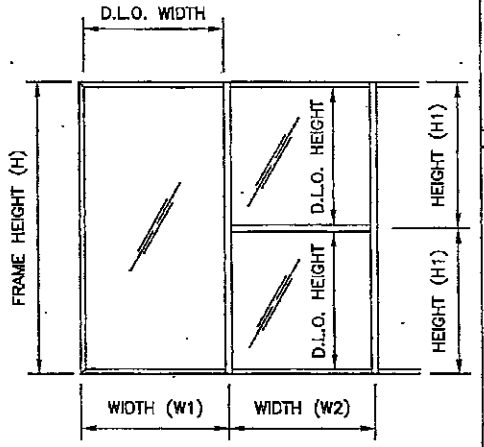
NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	105"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
63"		100.0
36"	108"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
62"		100.0
36"	111"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0

CHART NO. 2
GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF

NOMINAL DIMS.		GLASS TYPE "A"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	114"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
58"		100.0
36"	117"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
36"	120"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
55"		100.0

GLASS TYPE "A"





NOTE:
4 GLASS CHECKED PER ASTM E1300–04 AND TESTING.

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)–5"] OR [(W2)–4"] X [(H)–6"] OR [(H1)–5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)–4 1/2"] OR [(W2)–4"] X [(H)–5"] OR [(H1)–4 1/2"]

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date Dec. 4, 2016
By Miami-Dade Product Control

CHRISTOPHER L. STANTON No. 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 1st 2013
CHRISTOPHER STANTON, P.E. FL P.E. #69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-4003 FAX: (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

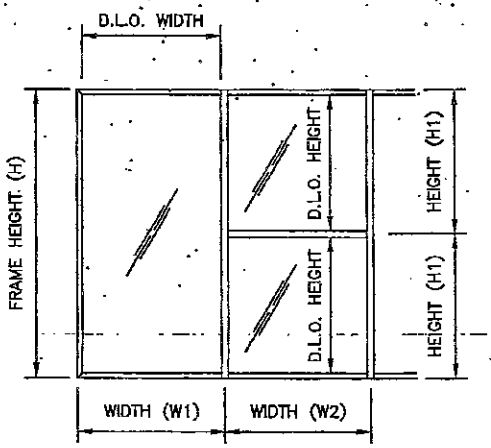
Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-6560

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DSI
CHECKED BY: C.S.

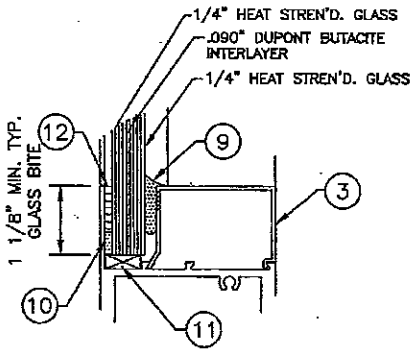
BW-3000 F.
DRAWING NO.

SHEET NO.
6 of 11

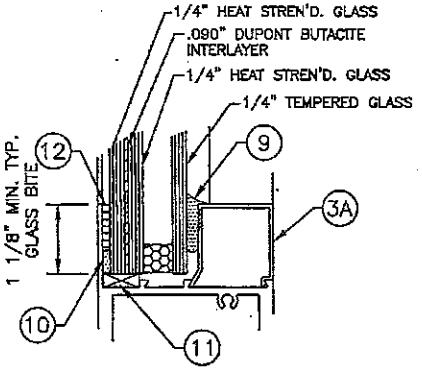
CHART NO. 2A GLASS CAPACITY CHART FOR STOREFRONT / WINDOW WALL CONFIGURATIONS – PSF		
NOMINAL DIMS.		GLASS TYPE "B" & "C"
W1/W2	H/H1	EXT. (+) INT. (–)
36"	60"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
51"		80.0
54"		80.0
57"		80.0
60"		80.0
63"		80.0
66"		80.0
69"		80.0
72"		80.0
36"	72"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
51"		80.0
54"		80.0
36"	84"	80.0
39"		80.0
42"		80.0
45"		80.0
48"		80.0
36"	92"	80.0
39"		80.0
42"		80.0
44"		80.0



GLASS TYPE "B"



GLASS TYPE "C"



NOTE:

4 GLASS CHECKED PER ASTM E1300-04 AND TESTING.

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	6-21-12		REVISED CODE EDITION
3	8-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

FORMULA FOR D.L.O.

FRAME WITH FLANGE

D.L.O. = [(W1)–5"] OR [(W2)–4"] X [(H)–6"] OR [(H1)–5"]

FRAME WITHOUT FLANGE

D.L.O. = [(W1)–4 1/2"] OR [(W2)–4"] X [(H)–5"] OR [(H1)–4 1/2"]

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Aug. 11, 2016
By Miami Dade Product Control

CHRISTOPHER STANTON LICENSE No 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1008 FAX: (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5660

SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
6Aof 11

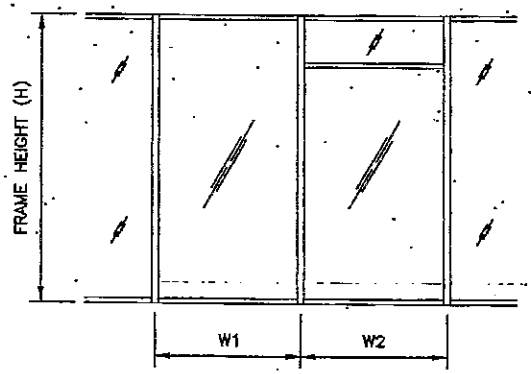
CHART NO. 3
REINFORCED MULLION LOAD CAPACITY PSF

NOMINAL DIMS.		N3002 W/ STEEL
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (−)
24"	78"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	84"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	96"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0

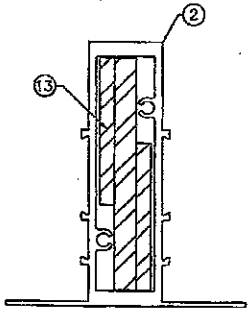
CHART NO. 3
REINFORCED MULLION LOAD CAPACITY PSF

NOMINAL DIMS.		N3002 W/ STEEL
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (−)
24"	102"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		95.0
72"		95.0
24"	108"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		95.0
66"		93.9
24"	114"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		95.0
60"		92.7
24"	120"	95.0
30"		95.0
36"		95.0
42"		95.0
48"		95.0
54"		93.0
60"		83.7

TYPICAL ELEVATION



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



INTERMEDIATE VERTICAL MULLION

N3002 WITH STD. STEEL REINFORCING

	Ix = X in^4	Sx = X in^3
ALUMINUM	5.300	2.100
STEEL	3.400	1.700
TOTAL *	15.160	

* Ix ALUM. + Ix STL. X 2.9

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			
6			

CHRISTOPHER J. STANTON * LICENSED PROFESSIONAL ENGINEER * SEAL No 69316 STATE OF FLORIDA
NOV 11 2013
CHRISTOPHER J. STANTON P.E. FLA. REG. # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003, FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-6560

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Dec. 11, 2016
By Manuel Sosa
Miami-Dade Product Control

4

SCALE: NOTED
DATE: 4/19/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

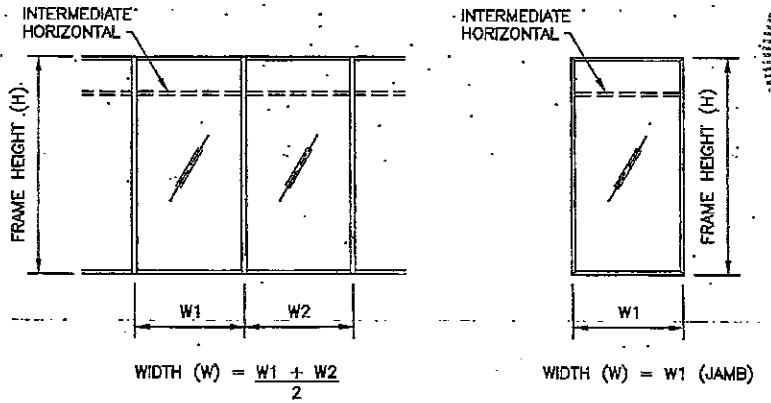
SHEET NO.
7 of 11

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF.

NOMINAL DIMS.		ANCHOR TYPE		
		"A1"	"A2"	"A3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	95.0	95.0	95.0
30"		91.0	95.0	95.0
36"		76.0	95.0	95.0
42"		65.0	95.0	95.0
48"		57.0	95.0	95.0
54"		51.0	95.0	95.0
60"		46.0	91.0	95.0
66"		42.0	83.0	95.0
72"		38.0	76.0	95.0
24"	84"	95.0	95.0	95.0
30"		85.0	95.0	95.0
36"		71.0	95.0	95.0
42"		61.0	95.0	95.0
48"		53.0	95.0	95.0
54"		47.0	94.0	95.0
60"		42.0	85.0	95.0
66"		39.0	77.0	95.0
72"		35.0	71.0	95.0
24"	96"	93.0	95.0	95.0
30"		74.0	95.0	95.0
36"		62.0	95.0	95.0
42"		53.0	95.0	95.0
48"		46.0	93.0	95.0
54"		41.0	82.0	95.0
60"		37.0	74.0	95.0
66"		34.0	67.0	95.0
72"		31.0	62.0	93.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"A1"	"A2"	"A3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	82.0	95.0	95.0
30"		66.0	95.0	95.0
36"		55.0	95.0	95.0
42"		47.0	94.0	95.0
48"		41.0	82.0	95.0
54"		37.0	73.0	95.0
60"		33.0	66.0	95.0
66"		30.0	60.0	90.0
72"		27.0	55.0	82.0
24"	114"	78.0	95.0	95.0
30"		62.0	95.0	95.0
36"		52.0	95.0	95.0
42"		45.0	89.0	95.0
48"		39.0	78.0	95.0
54"		35.0	69.0	95.0
60"		31.0	62.0	94.0
66"		28.0	57.0	85.0
72"		26.0	52.0	78.0
24"	120"	74.0	95.0	95.0
30"		59.0	95.0	95.0
36"		49.0	95.0	95.0
42"		42.0	85.0	95.0
48"		37.0	74.0	95.0
54"		33.0	66.0	95.0
60"		30.0	59.0	89.0
66"		27.0	54.0	81.0
72"		25.0	49.0	74.0

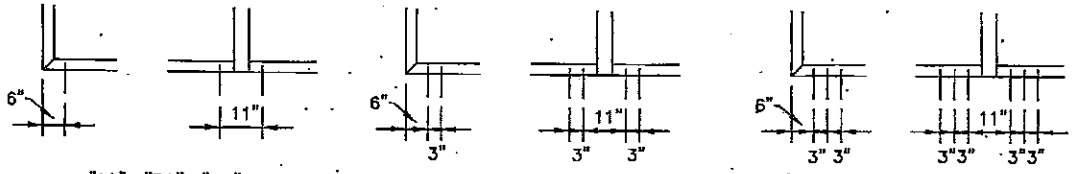


ANCHOR TYPES: SEE SHEET 6 FOR DESCRIPTION

"A1" – (1) ANCHOR TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"A2" – (2) ANCHORS TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"A3" – (3) ANCHORS TYPE "A" AT EA. SIDE OF MULLION OR JAMB
"B1" – (1) ANCHOR TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"B2" – (2) ANCHORS TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"B3" – (3) ANCHORS TYPE "B" AT EA. SIDE OF MULLION OR JAMB
"C1" – (1) ANCHOR TYPE "C" AT EA. SIDE OF MULLION OR JAMB
"C2" – (2) ANCHORS TYPE "C" AT EA. SIDE OF MULLION OR JAMB
"C3" – (3) ANCHORS TYPE "C" AT EA. SIDE OF MULLION OR JAMB

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION

TYPICAL ANCHOR CLUSTERS



NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
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3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0724.10
Expiration Date Aug. 11, 2016
By
Miami-Dade Product Control

CHRISTOPHER STANTON LICENSE No 89316 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 17 2013

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
8 of 11

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"B1"	"B2"	"B3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	95.0	95.0	95.0
30"		95.0	95.0	95.0
36"		81.0	95.0	95.0
42"		69.0	95.0	95.0
48"		61.0	95.0	95.0
54"		54.0	95.0	95.0
60"		49.0	95.0	95.0
66"		44.0	88.0	95.0
72"		41.0	81.0	95.0
24"	84"	95.0	95.0	95.0
30"		90.0	95.0	95.0
36"		75.0	95.0	95.0
42"		64.0	95.0	95.0
48"		56.0	95.0	95.0
54"		50.0	95.0	95.0
60"		45.0	90.0	95.0
66"		41.0	82.0	95.0
72"		38.0	75.0	95.0
24"	96"	95.0	95.0	95.0
30"		79.0	95.0	95.0
36"		66.0	95.0	95.0
42"		56.0	95.0	95.0
48"		49.0	95.0	95.0
54"		44.0	88.0	95.0
60"		40.0	79.0	95.0
66"		36.0	72.0	95.0
72"		33.0	66.0	95.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"B1"	"B2"	"B3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	88.0	95.0	95.0
30"		70.0	95.0	95.0
36"		59.0	95.0	95.0
42"		50.0	95.0	95.0
48"		44.0	88.0	95.0
54"		39.0	78.0	95.0
60"		35.0	70.0	95.0
66"		32.0	64.0	95.0
72"		29.0	59.0	88.0
24"	114"	83.0	95.0	95.0
30"		67.0	95.0	95.0
36"		55.0	95.0	95.0
42"		48.0	95.0	95.0
48"		42.0	83.0	95.0
54"		37.0	74.0	95.0
60"		33.0	67.0	95.0
66"		30.0	60.0	91.0
72"		28.0	56.0	83.0
24"	120"	79.0	95.0	95.0
30"		63.0	95.0	95.0
36"		53.0	95.0	95.0
42"		45.0	90.0	95.0
48"		40.0	79.0	95.0
54"		35.0	70.0	95.0
60"		32.0	63.0	95.0
66"		29.0	57.0	86.0
72"		26.0	53.0	79.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"C1"	"C2"	"C3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	95.0	95.0	95.0
30"		95.0	95.0	95.0
36"		83.0	95.0	95.0
42"		71.0	95.0	95.0
48"		62.0	95.0	95.0
54"		55.0	95.0	95.0
60"		50.0	95.0	95.0
66"		45.0	90.0	95.0
72"		41.0	83.0	95.0
24"	84"	95.0	95.0	95.0
30"		92.0	95.0	95.0
36"		77.0	95.0	95.0
42"		66.0	95.0	95.0
48"		58.0	95.0	95.0
54"		51.0	95.0	95.0
60"		46.0	92.0	95.0
66"		42.0	84.0	95.0
72"		38.0	77.0	95.0
24"	96"	95.0	95.0	95.0
30"		81.0	95.0	95.0
36"		67.0	95.0	95.0
42"		58.0	95.0	95.0
48"		51.0	95.0	95.0
54"		45.0	90.0	95.0
60"		40.0	81.0	95.0
66"		37.0	73.0	95.0
72"		34.0	67.0	95.0

CHART NO. 4
ANCHOR LOAD CAPACITY – PSF

NOMINAL DIMS.		ANCHOR TYPE		
		"C1"	"C2"	"C3"
WIDTH (W)	HEIGHT (H)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	90.0	95.0	95.0
30"		72.0	95.0	95.0
36"		60.0	95.0	95.0
42"		51.0	95.0	95.0
48"		45.0	90.0	95.0
54"		40.0	80.0	95.0
60"		36.0	72.0	95.0
66"		33.0	65.0	95.0
72"		30.0	60.0	90.0
24"	114"	85.0	95.0	95.0
30"		68.0	95.0	95.0
36"		57.0	95.0	95.0
42"		49.0	95.0	95.0
48"		43.0	85.0	95.0
54"		38.0	76.0	95.0
60"		34.0	68.0	95.0
66"		31.0	62.0	93.0
72"		28.0	57.0	85.0
24"	120"	81.0	95.0	95.0
30"		65.0	95.0	95.0
36"		54.0	95.0	95.0
42"		46.0	92.0	95.0
48"		40.0	81.0	95.0
54"		36.0	72.0	95.0
60"		32.0	65.0	95.0
66"		29.0	58.0	88.0
72"		27.0	54.0	81.0

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	6-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-0724.10
Expiration Date Aug. 1, 2016
By Manuel Perez
Miami-Dade Product Control

STATE OF FLORIDA
CHRISTOPHER STANTON
LICENSE
No 69316
NOV 1 1 2013
CHRISTOPHER STANTON, PE
FLA P.E. # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL: (561) 393-1003 FAX: (561) 393-1008

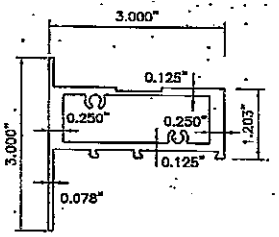
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

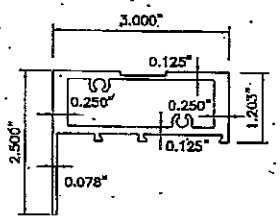
SCALE: NOTED
DATE: 4/18/11
DRAWN BY: DGI
CHECKED BY: C.S.

BWI-3000 F
DRAWING NO.

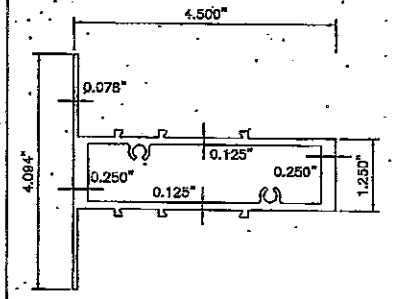
SHEET NO.
9 of 11



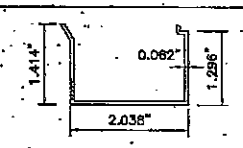
① N3001 – HEAD/SILL/JAMB



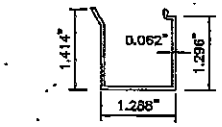
1A N3001 (ALT.) – HEAD/SILL/JAMB



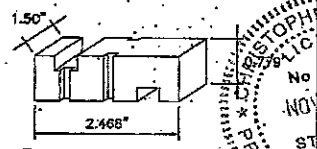
② N3002 – MULLION/INT. HORIZONTAL



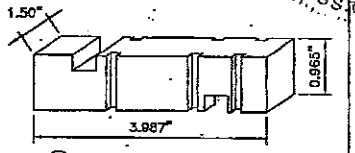
③ N3003 – GLASS STOP MONOLITHIC



3A N3004 – GLASS STOP INSULATED



④ B1 – SHEAR BLOCK



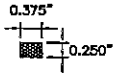
⑤ B2 – SHEAR BLOCK

⑥ SHEAR BLOCK FASTENER

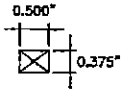
⑦ MULL SHEAR BLOCK ANCHOR

⑧ ASSEMBLY SCREW

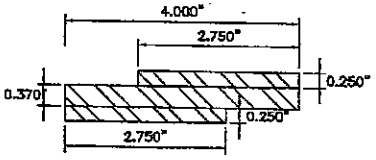
⑨ GLAZING GASKET



⑩ GLAZING TAPE



⑪ SETTING BLOCK



⑬ STEEL REINFORCING

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
3	8-6-13		ADDED GLASS B & C / UNREINF. MULL
4	10-22-13		REVISED PER COUNTY REVIEW
5			
6			

MATERIALS LIST

ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
①	N3001	AS REQ'D.	HEAD/JAMB/SILL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
1A	N3001 (ALT.)	AS REQ'D.	EQ. LEG HEAD/JAMB/SILL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
②	N3002	AS REQ'D.	MULLION/INTERMEDIATE HORIZONTAL	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
③	N3003	AS REQ'D.	GLASS STOP (MONOLITHIC)	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
3A	N3004	AS REQ'D.	GLASS STOP (INSULATED)	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
④	B1	AS REQ'D.	HEAD/SILL SHEAR BLOCK	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
⑤	B2	AS REQ'D.	INT. HORIZONTAL SHEAR BLOCK	ALUM. ALLOY 6063–T6	BEHAR WINDOWS
⑥	S1	2/SHEAR BLOCK	#8–32 x 1/2" PH THREAD CUTTING	STAINLESS STEEL	
⑦	S2	2/SHEAR BLOCK	#10–24 x 5" PHPMS W/ HEX NUT	STAINLESS STEEL	
⑧	S3	2/SHEAR BLOCK	#12–24 x 2 1/2" THPMS	STAINLESS STEEL	
⑨	RG12100	AS REQ'D.	GLAZING GASKET	NEOPRENE	C.R. LAURENCE
⑩	V–2108	AS REQ'D.	GLAZING TAPE	3/8" x 1/4" VINYL FOAM	NORTON
⑪	SB584	2/LITE	SETTING BLOCK	2" x 1/2" x 3/8"	C.R. LAURENCE
⑫	SSG4000AC	AS REQ'D.	GLAZING COMPOUND		GENERAL ELECTRIC
⑬	ST1	AS REQ'D.	STEEL REINFORCING	A36	

MIAMI-DADE COUNTY USE ONLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0724.10
Expiration Date Nov. 11, 2016
By Manuel Perez
Miami-Dade Product Control

CHRISTOPHER STANTON LICENSE No 69816 STATE OF FLORIDA PROFESSIONAL ENGINEER NOV 1 2013

CHRISTOPHER STANTON, P.E.
FLA. P.E. LIC. NO. 69816

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TEL. (561) 393-1003 FAX (561) 393-1008

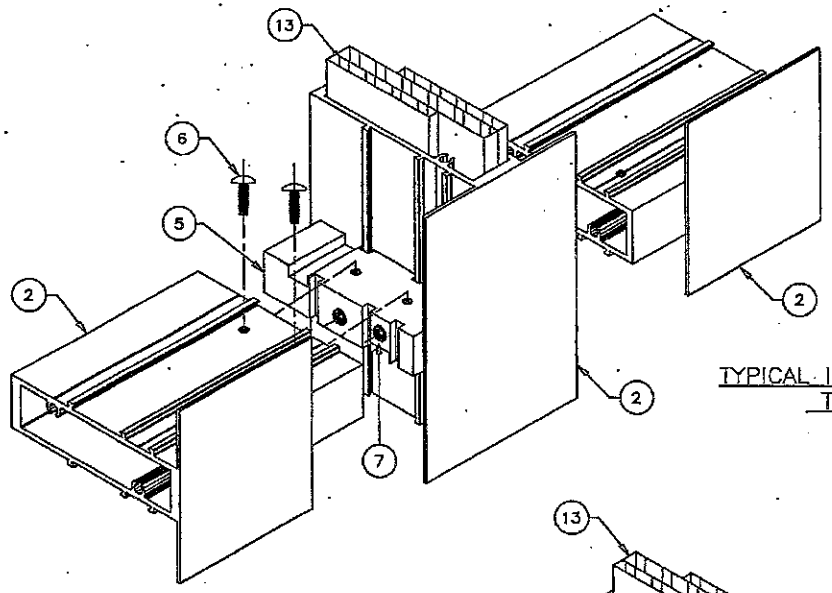
SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4006 N. 30th Ave.
Hollywood, Fl. 33020
954-381-5560

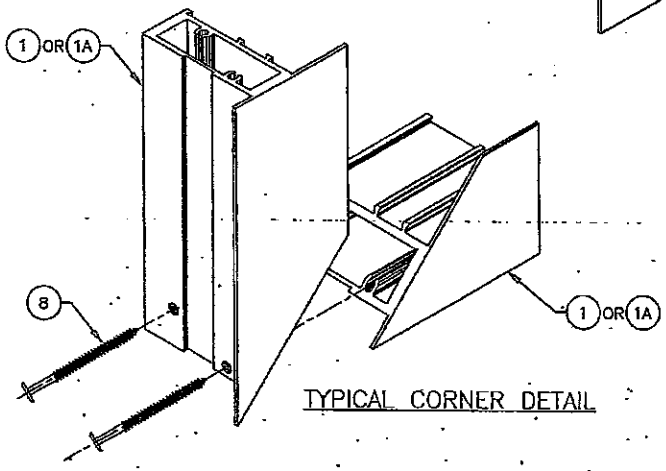
SCALE:	NOTED
DATE:	4/18/11
DRAWN BY:	DGI
CHECKED BY:	C.S.

BW-3000 F
DRAWING NO.

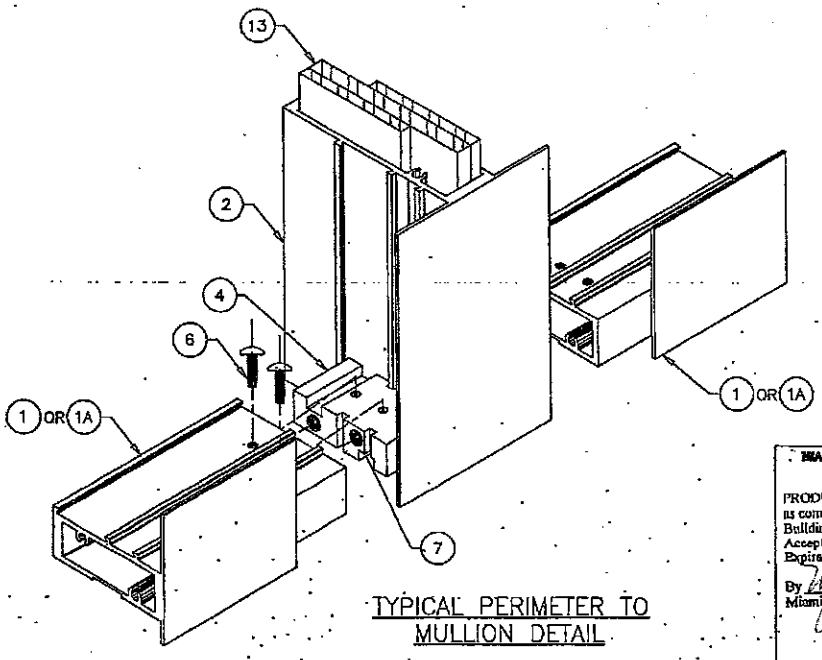
SHEET NO.
10 of 11



TYPICAL INTERMEDIATE HORIZONTAL TO MULLION DETAIL



TYPICAL CORNER DETAIL



TYPICAL PERIMETER TO MULLION DETAIL

NO.	DATE		REVISIONS
1	12-22-11		REVISED ANCHOR GROUPS
2	5-21-12		REVISED CODE EDITION
	6-3-13		ADDED GLASS B & C / UNBRKN. MULL
3	10-22-13		REVISED PER COUNTY REVIEW
4			

CHRISTOPHER STANTON, P.E. LICENSE No. 69316 STATE OF FLORIDA PROFESSIONAL ENGINEER

NOV 11 2013

CHRISTOPHER STANTON, P.E.
FLA.P.E. # 69316

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NW BOCA RATON BLVD. SUITE 115
BOCA RATON, FL 33431
TELL (561) 393-1003 FAX (561) 393-1008

SERIES NOAH 3000 FIXED WINDOW / WINDOW WALL SYSTEM (L.M.I.)

Behar Windows LLC
4008 N. 30th Ave.
Hollywood, FL 33020
954-381-5560

SCALE: NOTED
DATE: 4/19/11
DRAWN BY: DGI
CHECKED BY: C.S.

BW-3000 F
DRAWING NO.

SHEET NO.
11 of 11

MIAMI-DADE COUNTY USE ONLY

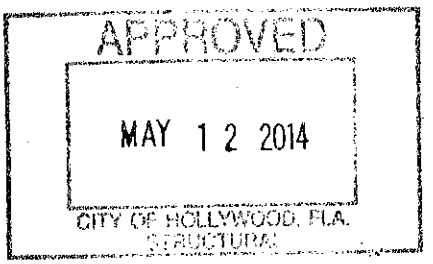
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 13-0774.19
Expiration Date Aug 11, 2016
By Manuel Perez
Miami-Dade Product Control

scot distefano-architect

Project Manual for the Cantor Residence

Additions and Alterations

1201 North Southlake Drive
Hollywood, FL 33019



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12/20/2013

12.19.13

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NOA - TUBULAR SKYLIGHT 6

NOA - GARAGE DOOR 7

8

9

10

11

12

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Project Summary
Entire House
SNC A/C INC

Job:
Date: May 09, 2013
By:

5348 NE 3 Ave, Oakland Park, FL 33334 Phone: 954-295-7286 Fax: 954-771-6772 Email: snclvc@bellsouth.net

Project Information

For: Cantor Residence
1201 North South Lake Drive, Hollywood, FL 33019-1503

Notes:

Design Information

Weather: Fort Lauderdale Hollywood, FL, US

Winter Design Conditions

Outside db	51 °F
Inside db	68 °F
Design TD	17 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	L
Relative humidity	50 %
Moisture difference	61 gr/lb

Heating Summary

Structure	37272 Btuh
Ducts	171 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	37443 Btuh

Sensible Cooling Equipment Load Sizing

Structure	61668 Btuh
Ducts	162 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	60160 Btuh

Infiltration

Method	Simplified
Construction quality	Loose
Fireplaces	0

	Heating	Cooling
Area (ft²)	3951	3951
Volume (ft³)	38802	38802
Air changes/hour	0.58	0.30
Equiv. AVF (cfm)	375	194

Latent Cooling Equipment Load Sizing

Structure	9238 Btuh
Ducts	42 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	9280 Btuh
Equipment total load	69440 Btuh
Req. total capacity at 0.70 SHR	7.2 ton

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

Project Summary
AH 1
SNC A/C INC

Job:
Date: May 09, 2013
By:

5348 NE 3 Ave, Oakland Park, FL 33334 Phone: 954-295-7286 Fax: 954-771-6772 Email: sncivc@bellsouth.net

Project Information

For: Cantor Residence
1201 North South Lake Drive, Hollywood, FL 33019-1503

Notes:

Design Information

Weather: Fort Lauderdale Hollywood, FL, US

Winter Design Conditions

Outside db	51 °F
Inside db	68 °F
Design TD	17 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	L
Relative humidity	50 %
Moisture difference	61 gr/lb

Heating Summary

Structure	13737 Btuh
Ducts	171 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	13908 Btuh

Sensible Cooling Equipment Load Sizing

Structure	21360 Btuh
Ducts	162 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	20940 Btuh

Infiltration

Method	Simplified
Construction quality	Loose
Fireplaces	0

	Heating	Cooling
Area (ft^2)	1451	1451
Volume (ft^3)	13700	13700
Air changes/hour	0.65	0.33
Equiv. AVF (cfm)	147	76

Latent Cooling Equipment Load Sizing

Structure	7635 Btuh
Ducts	42 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	7676 Btuh
Equipment total load	28617 Btuh
Req. total capacity at 0.70 SHR	2.5 ton

Heating Equipment Summary

Make	
Trade	5 KW
Model	
AHRI ref	
Efficiency	100 AFUE
Heating input	17500 kW
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	450 cfm
Air flow factor	0.032 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Trane
Trade	XB14
Cond	4TTB4030E1
Coil	GAM5A0B30M21
AHRI ref	4150829
Efficiency	13.0 EER, 16 SEER
Sensible cooling	21000 Btuh
Latent cooling	9000 Btuh
Total cooling	30000 Btuh
Actual air flow	1000 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.74

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft® **Project Summary**
AH 2
SNC A/C INC

Job:
Date: May 09, 2013
By:

5348 NE 3 Ave, Oakland Park, FL 33334 Phone: 954-295-7286 Fax: 954-771-6772 Email: snclvc@bellsouth.net

Project Information

For: Cantor Residence
1201 North South Lake Drive, Hollywood, FL 33019-1503

Notes:

Design Information

Weather: Fort Lauderdale Hollywood, FL, US

Winter Design Conditions

Outside db	51 °F
Inside db	68 °F
Design TD	17 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	L
Relative humidity	50 %
Moisture difference	61 gr/lb

Heating Summary

Structure	23535 Btuh
Ducts	0 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	23535 Btuh

Sensible Cooling Equipment Load Sizing

Structure	40308 Btuh
Ducts	0 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	39220 Btuh

Infiltration

Method	Simplified
Construction quality	Loose
Fireplaces	0

	Heating	Cooling
Area (ft²)	2500	2500
Volume (ft³)	25103	25103
Air changes/hour	0.54	0.28
Equiv. AVF (cfm)	228	118

Latent Cooling Equipment Load Sizing

Structure	11051 Btuh
Ducts	0 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	11051 Btuh
Equipment total load	50270 Btuh
Req. total capacity at 0.70 SHR	4.7 ton

Heating Equipment Summary

Make	
Trade	10 KW
Model	
AHRI ref	
Efficiency	100 AFUE
Heating input	34700 kW
Heating output	34700 Btuh
Temperature rise	35 °F
Actual air flow	900 cfm
Air flow factor	0.038 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Trane
Trade	XB14
Cond	4TTB4061E1
Coil	*AM7B0C60H51
AHRI ref	5318435
Efficiency	13.0 EER, 16 SEER
Sensible cooling	39900 Btuh
Latent cooling	17100 Btuh
Total cooling	57000 Btuh
Actual air flow	1900 cfm
Air flow factor	0.047 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.78

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

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Duct System Summary
AH 1
SNC A/C INC

Job:
Date: May 09, 2013
By:

5348 NE 3 Ave, Oakland Park, FL 33334 Phone: 954-295-7286 Fax: 954-771-6772 Email: snclvc@bellsouth.net

Project Information

For: Cantor Residence
1201 North South Lake Drive, Hollywood, FL 33019-1503

	Heating	Cooling
External static pressure	***0.50*** in H2O	***0.50*** in H2O
Pressure losses	0.26 in H2O	0.26 in H2O
Available static pressure	0.24 in H2O	0.24 in H2O
Supply / return available pressure	0.120 / 0.120 in H2O	0.120 / 0.120 in H2O
Lowest friction rate	0.059 in/100ft	0.059 in/100ft
Actual air flow	450 cfm	1000 cfm
Total effective length (TEL)	406 ft	

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath 1a	c	1200	26	56	0.069	***4.0***	***0x 0***	VIFx	54.1	295.0	st2D
Bath 1d	c	271	3	13	0.079	4.0	0x 0	VIFx	38.0	265.0	st2C
Bath2	c	1137	29	53	0.184	***4.0***	***0x 0***	VIFx	20.5	110.0	st2A
Bed 1	c	3153	72	147	0.059	***8.0***	***0x 0***	VIFx	61.2	345.0	st2D
Bed 1-A	c	3153	72	146	0.061	***8.0***	***0x 0***	VIFx	55.5	335.0	st2D
Bed 2	c	3161	73	147	0.193	7.0	0x 0	VIFx	19.5	105.0	st2A
Closet	c	616	13	29	0.101	***4.0***	***0x 0***	VIFx	28.5	210.0	st2B
Dressing	c	2055	45	96	0.102	***6.0***	***0x 0***	VIFx	26.0	210.0	st2B
Hall 2	c	626	13	29	0.119	***4.0***	***0x 0***	VIFx	26.5	175.0	st2B
Laundry	c	1553	21	72	0.254	5.0	0x 0	VIFx	9.3	85.0	st2
New Foyer	c	2253	43	105	0.117	***6.0***	***0x 0***	VIFx	30.5	175.0	st2B
bath 1b	c	1995	34	93	0.070	***6.0***	***0x 0***	VIFx	49.5	295.0	st2D
bath 1c	c	349	5	16	0.073	4.0	0x 0	VIFx	40.0	290.0	st2C

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st2A	Peak AVF	429	928	0.059	835	***14.7***	***8*** x ***20***	RectFbg	st2
st2	Peak AVF	450	1000	0.059	720	***14.7***	***10*** x ***20***	RectFbg	
st2B	Peak AVF	327	728	0.059	728	***14.7***	***8*** x ***18***	RectFbg	st2A
st2C	Peak AVF	213	470	0.059	529	12.2	8 x 16	RectFbg	st2B
st2D	Peak AVF	204	441	0.059	568	***11.9***	***8*** x ***14***	RectFbg	st2C

Bold/italic values have been manually overridden

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb4	0x 0	450	1000	0	0	0	0	0x 0		VlFx	

wrightsoft

Duct System Summary
AH 2
SNC A/C INC

Job:
Date: May 09, 2013
By:

5348 NE 3 Ave, Oakland Park, FL 33334 Phone: 954-295-7286 Fax: 954-771-6772 Email: snclvc@bellsouth.net

Project Information

For: Cantor Residence
1201 North South Lake Drive, Hollywood, FL 33019-1503

	Heating	Cooling
External static pressure	***0.50*** in H2O	***0.50*** in H2O
Pressure losses	0.26 in H2O	0.26 in H2O
Available static pressure	0.24 in H2O	0.24 in H2O
Supply / return available pressure	0.120 / 0.120 in H2O	0.120 / 0.120 in H2O
Lowest friction rate	0.082 in/100ft	0.082 in/100ft
Actual air flow	900 cfm	1900 cfm
Total effective length (TEL)	292 ft	

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath 3	c	290	10	14	0.498	4.0	0x0	VlFx	3.2	45.0	
Bed 3	c	6382	143	301	0.347	***9.0***	***0x0***	VlFx	19.1	50.0	
Dining	c	2519	65	119	0.103	***7.0***	***0x0***	VlFx	34.0	200.0	st3A
Dining-A	c	2519	65	119	0.141	7.0	0x0	VlFx	25.0	145.0	st3
Florida Rm	c	3384	76	160	0.191	7.0	0x0	VlFx	35.4	90.0	st6A
Florida Rm-A	c	3384	76	159	0.189	7.0	0x0	VlFx	36.9	90.0	st6A
Foyer	c	1984	46	94	0.400	***6.0***	***0x0***	VlFx	10.0	50.0	
Kitchen	c	2898	56	137	0.197	***8.0***	***0x0***	VlFx	17.0	105.0	st4
Kitchen-A	c	2897	56	137	0.219	***8.0***	***0x0***	VlFx	29.5	80.0	st5
Kitchen-B	c	2897	56	137	0	0	0x0	VlFx	0	0	
Living	c	2934	58	138	0.082	8.0	0x0	VlFx	47.3	245.0	st3A
Living-A	c	2933	58	138	0.102	8.0	0x0	VlFx	35.0	200.0	st3A
Living-B	c	2933	58	138	0.140	8.0	0x0	VlFx	26.0	145.0	st3
Pantry	c	859	29	40	0.141	***4.0***	***0x0***	VlFx	15.0	155.0	st3
Pantry-A	c	859	29	40	0.139	***4.0***	***0x0***	VlFx	7.9	165.0	st3
Vestibule	c	640	20	30	0.212	4.0	0x0	VlFx	28.0	85.0	st6

Bold/italic values have been manually overridden

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st6A	Peak AVF	152	319	0.189	722	***9.0***	***0*** x ***0***	VinlFlx	st6
st4	Peak AVF	284	622	0.189	700	10.7	8 x 16	RectFbg	st1
st5	Peak AVF	56	137	0.219	410	***5.9***	***8*** x ***6***	RectFbg	st4
st1	Peak AVF	645	1355	0.082	813	***17.5***	***12*** x ***20***	RectFbg	
st3	Peak AVF	361	733	0.082	660	13.4	8 x 20	RectFbg	st1
st6	Peak AVF	173	349	0.189	628	8.6	8 x 10	RectFbg	st4
st3A	Peak AVF	181	395	0.082	593	10.7	8 x 12	RectFbg	st3

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb5	0x 0	900	1900	0	0	0	0	0x 0		VlFx	

Bold/italic values have been manually overridden

scot distefano-architect
2004 Rodman Street
Hollywood, Florida 33020
954.316.8800

12 March, 2014

These calculations, in addition to the codes referenced herein, are in conformance with Florida Building Code 2010.

Sincerely,

Scot DiStefano

APPROVED
MAY 12 2014
CITY OF HOLLYWOOD, FLA.

CeBB
7450 Griffin Road, Suite # 140, DAVIE, FL. 33314
Phone: (954) 581-7115, (954) 581-2614; Fax: (954) 581-2415
INSPECTION, STUDIES, DESIGN & TESTING SERVICES
www.cebb.net

Proposed Additions & Alterations for Cantor Residence
1201 N. South Lake Drive
Hollywood, FL. 33019

Prepared For:

SCOT Di STEFANO, ARCHITECT
2410 Woodside Drive
FORT LAUDERDALE, FL. 33312

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Prepared by:
CeBB Engineering & Testing Co.
(CA 9807)
12/13/13
EDUARD C. BADIU, P.E.
License # 59997

CeBB Engineering & Testing Co.
7450 Griffin Road, Suite 140
Fort Lauderdale, FL. 33314
Phone: (954) 581-7115
Fax: (954) 581-2415

JOB TITLE CANTOR RESIDENCE
1201 N South Lake Dr., Hollywood, FL.
JOB NO. SHEET NO.
CALCULATED BY Eduard Badiu, P.E. DATE 12/13/13
CHECKED BY Eduard Badiu, P.E. DATE 12/13/13

CS12 Ver 2012.04.06 www.struware.com

STRUCTURAL CALCULATIONS

FOR

CANTOR RESIDENCE

1201 N South Lake Dr., Hollywood, FL.

Prepared by:
CeBB Engineering & Testing Co.
(FBPA CA # 9807)

12/13/13

Eduard C Badiu, P.E.
59997
For The Firm

CeBB Engineering & Testing Co.
7450 Griffin Road, Suite 140
Fort lauderdale, FL. 33314
Phone: (954) 581-7115
Fax: (954) 581-2415

Code Search

Code: ASCE 7 - 10

Occupancy:

Occupancy Group = R Residential

Risk Category & Importance Factors:

Risk Category =	II	
Wind factor =	1.00	use 0.60 NOTE: Output will be nominal wind pressures
Snow factor =	1.00	
Seismic factor =	1.00	

Type of Construction:

Fire Rating:

Roof =	0.0 hr
Floor =	0.0 hr

Building Geometry:

Roof angle (θ)	0.25 / 12	1.2 deg
Building length (L)	62.5 ft	
Least width (B)	50.0 ft	10
Mean Roof Ht (h)	10.0 ft	
Parapet ht above grd	10.0 ft	
Minimum parapet ht	0.0 ft	

Live Loads:

Roof 0 to 200 sf: 20 psf
200 to 600 sf: 24 - 0.02Area, but not less than 12 psf
over 600 sf: 12 psf

Roofs used for assembly 100 psf

Floor:

Typical Floor	125 psf
Partitions	15 psf
All other residential areas except balc	40 psf
All other residential areas except balc	40 psf
Partitions	N/A

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JOB TITLE CANTOR RESIDENCE (4)
1201 N South Lake Dr., Hollywood, FL.
JOB NO. SHEET NO.
CALCULATED BY Eduard Badiu, P.E. DATE 12/13/13
CHECKED BY Eduard Badiu, P.E. DATE 12/13/13

Wind Loads :

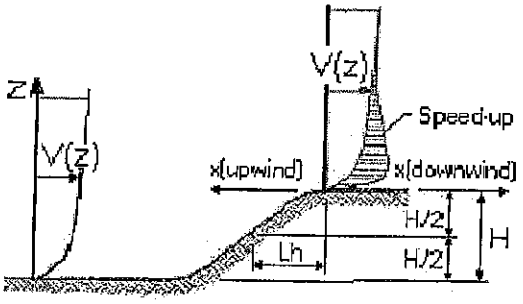
Ultimate Wind Speed	170 mph
Directionality (Kd)	0.85
Exposure Category	C
Enclosure Classif.	Enclosed Building
Internal pressure	+/-0.18
Kh case 1	0.849
Kh case 2	0.849
Type of roof	Monoslope

Topographic Factor (Kzt)

Topography		Flat
Hill Height	(H)	0.0 ft
Half Hill Length (Lh)		0.0 ft
Actual H/Lh	=	0.00
Use H/Lh	=	0.00
Modified Lh	=	0.0 ft
From top of crest: x =		0.0 ft
Bldg up/down wind?		downwind

H/Lh= 0.00 K_1 = 0.000
x/Lh = 0.00 K_2 = 0.000
z/Lh = 0.00 K_3 = 1.000
At Mean Roof Ht:
Kzt = $(1+K_1K_2K_3)^2$ = 1.00

H< 15ft;exp C
\ Kzt=1.0



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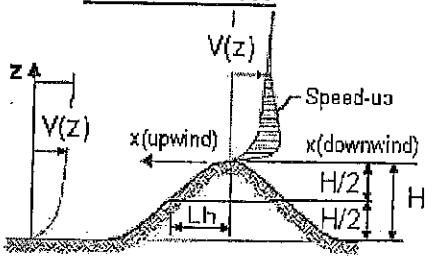

2D RIDGE or 3D AXISYMMETRICAL HILL

Gust Effect Factor

h =	10.0 ft
B =	50.0 ft
/z (0.6h) =	15.0 ft

Flexible structure if natural frequency < 1 Hz (T > 1 second).
However, if building h/B < 4 then probably rigid structure (rule of thumb).
h/B = 0.20 Rigid structure

G = 0.85 Using rigid structure default

Rigid Structure

$\bar{e}$ =	0.20
ℓ =	500 ft
z_{min} =	15 ft
c =	0.20
g_Q, g_v =	3.4
L_z =	427.1 ft
Q =	0.92
I_z =	0.23
G =	0.88 use G = 0.85

Flexible or Dynamically Sensitive Structure

Natural Frequency (η_1) =	0.0 Hz			
Damping ratio (β) =	0			
/b =	0.65			
/α =	0.15			
Vz =	143.6			
N_1 =	0.00			
R_n =	0.000			
R_h =	28.282	η =	0.000	h = 10.0 ft
R_B =	28.282	η =	0.000	
R_L =	28.282	η =	0.000	
g_R =	0.000			
R =	0.000			
G =	0.000			

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Enclosure Classification

Test for Enclosed Building: A building that does not qualify as open or partially enclosed.

Test for Open Building: All walls are at least 80% open.
Ao ≥ 0.8Ag

Test for Partially Enclosed Building:

	Input			Test	
Ao	0.0	sf	Ao ≥ 1.1Aoi	YES	
Ag	0.0	sf	Ao > 4' or 0.01Ag	NO	
Aoi	0.0	sf	Aoi / Agi ≤ 0.20	NO	Building is NOT Partially Enclosed
Agi	0.0	sf			

Conditions to qualify as Partially Enclosed Building. Must satisfy all of the following:
Ao ≥ 1.1Aoi
Ao > smaller of 4' or 0.01 Ag
Aoi / Agi ≤ 0.20
Where:
Ao = the total area of openings in a wall that receives positive external pressure.
Ag = the gross area of that wall in which Ao is identified.
Aoi = the sum of the areas of openings in the building envelope (walls and roof) not including Ao.
Agi = the sum of the gross surface areas of the building envelope (walls and roof) not including Ag.

Reduction Factor for large volume partially enclosed buildings (Ri) :

If the partially enclosed building contains a single room that is unpartitioned , the internal pressure coefficient may be multiplied by the reduction factor Ri.

Total area of all wall & roof openings (Aog): 0 sf
Unpartitioned internal volume (Vi) : 0 cf
Ri = 1.00

Altitude adjustment to constant 0.00256 (caution - see code) :

Altitude = 0 feet
Constant = 0.00256
Average Air Density = 0.0765 lbm/ft^3

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Wind Loads - MWFRS all h (Enclosed/partially enclosed only)

Kh (case 2) =	0.85	h =	10.0 ft	GCpi =	+/-0.18
Base pressure (q_h) =	**32.0 psf**	ridge ht =	10.5 ft	G =	0.85
Roof Angle (θ) =	1.2 deg	L =	62.5 ft	qi = qh	
Roof tributary area - (h/2)*L:	313 sf	B =	50.0 ft		
(h/2)*B:	250 sf				

Nominal Wind Surface Pressures (psf)

Surface	Wind Normal to Ridge B/L = 0.80		h/L = 0.20		Wind Parallel to Ridge L/B = 1.25		h/L = 0.16	
	Cp	q_hGC_p	w/+q_iGC_{pi}	w/-q_hGC_{pi}	Dist.*	Cp	q_hGC_p	w/ +q_iGC_{pi}	w/ -q_hGC_{pi}
Windward Wall (WW)	0.80	21.8	see table below			0.80	21.8	see table below	
Leeward Wall (LW)	-0.50	-13.6	-19.4	-7.8		-0.45	-12.3	-18.0	-6.5
Side Wall (SW)	-0.70	-19.1	-24.8	-13.3		-0.70	-19.1	-24.8	-13.3
Leeward Roof (LR)		**				Included in windward roof			
Windward Roof: 0 to h/2*	-0.90	-24.5	-30.3	-18.7	0 to h/2*	-0.90	-24.5	-30.3	-18.7
h/2 to h*	-0.90	-24.5	-30.3	-18.7	h/2 to h*	-0.90	-24.5	-30.3	-18.7
h to 2h*	-0.50	-13.61	-19.38	-7.85	h to 2h*	-0.50	-13.6	-19.4	-7.8
> 2h*	-0.30	-8.17	-13.93	-2.40	> 2h*	-0.30	-8.2	-13.9	-2.4

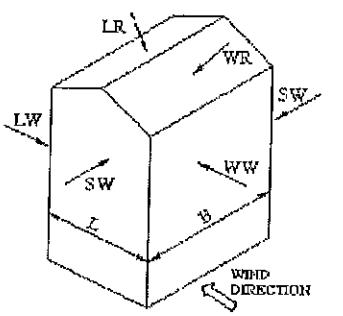
**Roof angle < 10 degrees. Therefore, leeward roof is included in windward roof pressure zones.

*Horizontal distance from windward edge

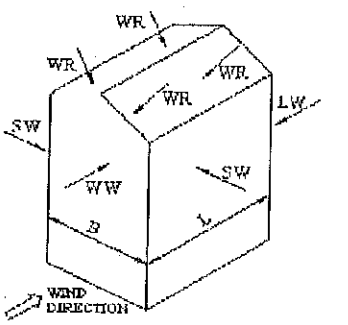
For monoslope roofs, entire roof surface is either windward or leeward surface.

Windward Wall Pressures at "z" (psf)

	z	Kz	Kzt	Windward Wall q_zGC_p	Windward Wall w/+q_iGC_{pi}	Windward Wall w/-q_hGC_{pi}	Combined WW + LW Normal to Ridge	Combined WW + LW Parallel to Ridge
h=	0 to 15'	0.85	1.00	21.8	16.0	27.5	35.4	34.0



WIND NORMAL TO RIDGE



WIND PARALLEL TO RIDGE

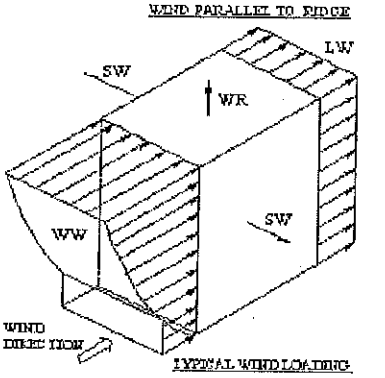
NOTE:
See figure in ASCE7 for the application of full and partial loading of the above wind pressures. There are 4 different loading cases.

Parapet

z	Kz	Kzt	qp (psf)
10.0 ft	0.85	1.00	32.0

Windward parapet: 48.0 psf (GCpn = +1.5)
Leeward parapet: -32.0 psf (GCpn = -1.0)

Windward roof overhangs (add to windward roof pressure) : 21.8 psf (upward)



TYPICAL WIND LOADING

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Wind Loads - MWFRS h≤60' (Low-rise Buildings) Enclosed/partially enclosed only

Kz = Kh (case 1) = 0.85
Base pressure (qh) = **32.0 psf**
GCpi = +/-0.18

Edge Strip (a) = 4.0 ft
End Zone (2a) = 8.0 ft
Zone 2 length = 25.0 ft

Wind Pressure Coefficients

Surface	CASE A GCpf	CASE A θ = 1.2 deg w/-GCpi	CASE A w/+GCpi	CASE B GCpf	CASE B w/-GCpi	CASE B w/+GCpi
1	0.40	0.58	0.22	-0.45	-0.27	-0.63
2	-0.69	-0.51	-0.87	-0.69	-0.51	-0.87
3	-0.37	-0.19	-0.55	-0.37	-0.19	-0.55
4	-0.29	-0.11	-0.47	-0.45	-0.27	-0.63
5	-0.45	-0.27	-0.63	0.40	0.58	0.22
6	-0.45	-0.27	-0.63	-0.29	-0.11	-0.47
1E	0.61	0.79	0.43	-0.48	-0.30	-0.66
2E	-1.07	-0.89	-1.25	-1.07	-0.89	-1.25
3E	-0.53	-0.35	-0.71	-0.53	-0.35	-0.71
4E	-0.43	-0.25	-0.61	-0.48	-0.30	-0.66
5E				0.61	0.79	0.43
6E				-0.43	-0.25	-0.61

Nominal Wind Surface Pressures (psf)

1	18.6	7.0		-8.6	-20.2
2	-16.3	-27.9		-16.3	-27.9
3	-6.1	-17.6		-6.1	-17.6
4	-3.5	-15.1		-8.6	-20.2
5	-8.6	-20.2		18.6	7.0
6	-8.6	-20.2		-3.5	-15.1
1E	25.3	13.8		-9.6	-21.1
2E	-28.5	-40.0		-28.5	-40.0
3E	-11.2	-22.7		-11.2	-22.7
4E	-8.0	-19.5		-9.6	-21.1
5E				25.3	13.8
6E				-8.0	-19.5

Parapet

Windward parapet = 48.0 psf (GCpn = +1.5)
Leeward parapet = -32.0 psf (GCpn = -1.0)

Windward roof overhangs = 22.4 psf (upward) add to windward roof pressure

Horizontal MWFRS Simple Diaphragm Pressures (psf)

Transverse direction (normal to L)

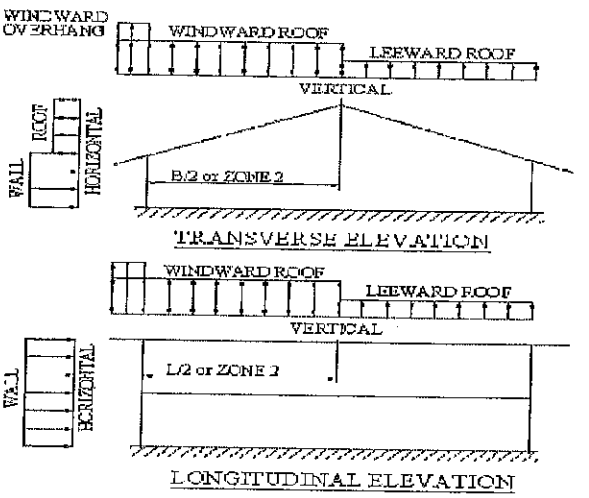
Interior Zone: Wall 22.1 psf
Roof -10.2 psf **
End Zone: Wall 33.3 psf
Roof -17.3 psf **

Longitudinal direction (parallel to L)

Interior Zone: Wall 22.1 psf
End Zone: Wall 33.3 psf

** NOTE: Total horiz force shall not be less than that determined by neglecting roof forces (except for MWFRS moment frames).

The code requires the MWFRS be designed for a min ultimate force of 16 psf multiplied by the wall area plus an 8 psf force applied to the vertical projection of the roof.



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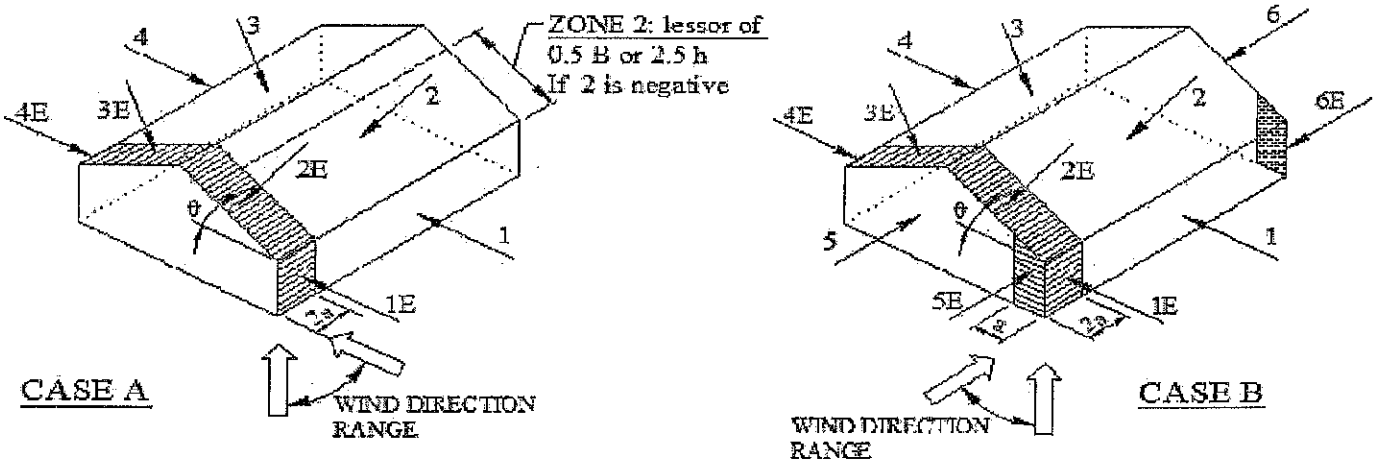
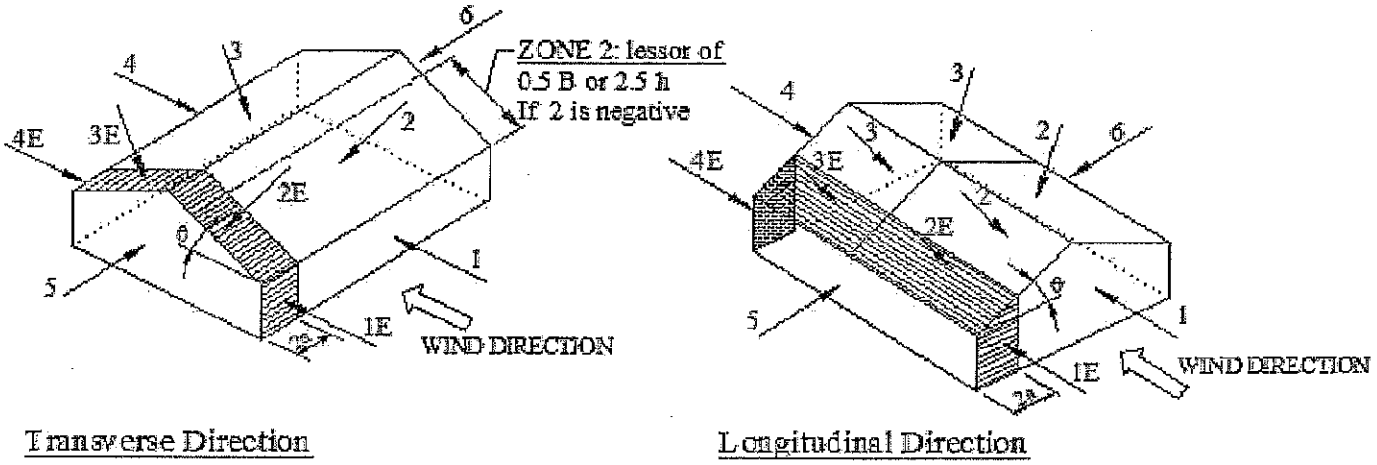
Location of MWFRS Wind Pressure Zones



NOTE: Torsional loads are 25% of zones 1 - 6. See code for loading diagram.

ASCE 7 -99 and ASCE 7-10 (& later)



NOTE: Torsional loads are 25% of zones 1 - 4. See code for loading diagram.

ASCE 7 -02 and ASCE 7-05

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JOB TITLE CANTOR RESIDENCE
1201 N South Lake Dr., Hollywood, FL.
JOB NO. SHEET NO.
CALCULATED BY Eduard Badiu, P.E. DATE 12/13/13
CHECKED BY Eduard Badiu, P.E. DATE 12/13/13

Wind Loads - Components & Cladding : h <= 60'

Nominal Wind Pressures

Kh (case 1) =	0.85	h =	10.0 ft
Base pressure (qh) =	**32.0 psf**	a =	4.0 ft
Minimum parapet ht =	0.0 ft	GCpi =	+/-0.18
Roof Angle (θ) =	1.2 deg		
Type of roof =	Monoslope		

Roof

	GCp +/- GCpi			Surface Pressure (psf)			User input	
Area	10 sf	50 sf	100 sf	10 sf	50 sf	100 sf	10 sf	500 sf
Negative Zone 1	-1.18	-1.11	-1.08	-37.8	-35.6	-34.6	-37.8	-34.6
Negative Zone 2	-1.98	-1.49	-1.28	-63.4	-47.7	-41.0	-63.4	-41.0
Negative Zone 3	-2.98	-1.79	-1.28	-95.4	-57.4	-41.0	-95.4	-41.0
Positive All Zones	0.48	0.41	0.38	15.4	13.1	12.2	15.4	12.2
Overhang Zone 1&2	-1.70	-1.63	-1.60	-54.5	-52.2	-51.3	-54.5	-35.2
Overhang Zone 3	-2.80	-1.40	-0.80	-89.7	-44.9	-25.6	-89.7	-25.6

Overhang pressures in the table above assume an internal pressure coefficient (Gcpi) of 0.0
Overhang soffit pressure equals adjacent wall pressure minus internal pressure of -5.8 / 5.8 psf

Parapet

qp = 32.0 psf

CASE A = pressure towards building (pos)
CASE B = pressure away from bldg (neg)

	Surface Pressure (psf)			User Input
Solid Parapet Pressure	10 sf	100 sf	500 sf	10 sf
CASE A : Interior zone:	0.0	0.0	0.0	0.0
Corner zone:	0.0	0.0	0.0	0.0
CASE B : Interior zone:	0.0	0.0	0.0	0.0
Corner zone:	0.0	0.0	0.0	0.0

Walls

	GCp +/- GCpi			Surface Pressure (psf)			User input	
Area	10 sf	100 sf	500 sf	10 sf	100 sf	500 sf	10 sf	200 sf
Negative Zone 4	-1.17	-1.01	-0.90	-37.5	-32.4	-28.8	-37.5	-30.9
Negative Zone 5	-1.44	-1.12	-0.90	-46.1	-35.9	-28.8	-46.1	-32.9
Positive Zone 4 & 5	1.08	0.92	0.81	34.6	29.5	25.9	34.6	28.0

Note: GCp reduced by 10% due to roof angle <= 10 deg.

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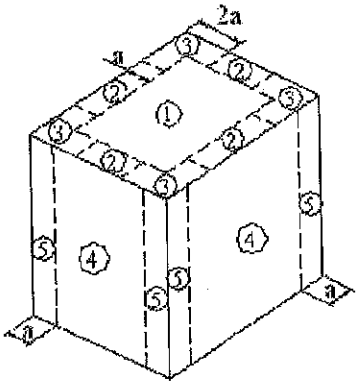
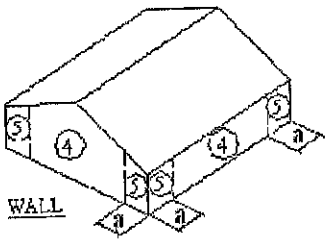
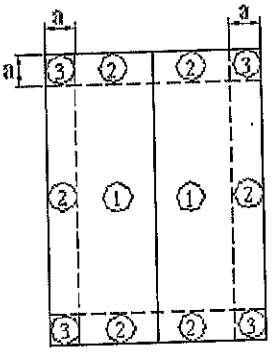
Location of C&C Wind Pressure Zones



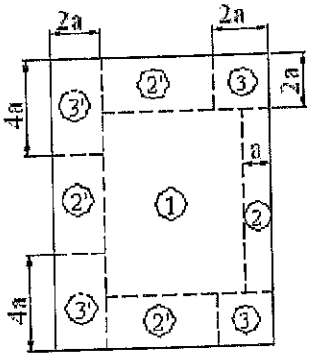
Roofs w/ $\theta \leq 10°$
and all walls
h > 60'



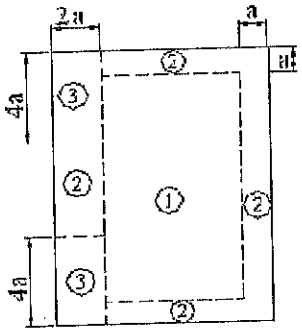
Walls h ≤ 60'
& alt design h<90'



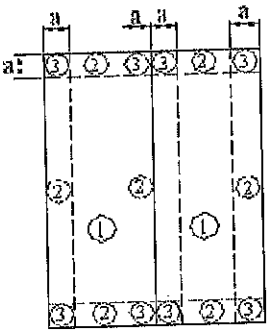
Gable, Sawtooth and
Multispan Gable $\theta \leq 7$ degrees &
Monoslope ≤ 3 degrees
h ≤ 60' & alt design h<90'



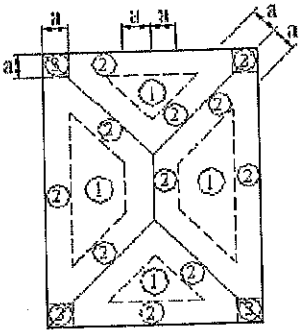
Monoslope roofs
$3° < \theta \leq 10°$
h ≤ 60' & alt design h<90'



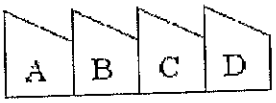
Monoslope roofs
$10° < \theta \leq 30°$
h ≤ 60' & alt design h<90'

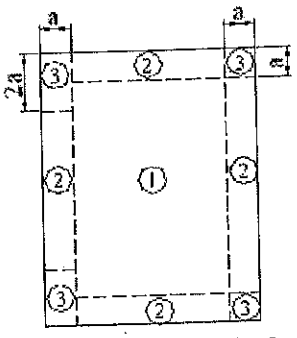


Multispan Gable &
Gable $7° < \theta \leq 45°$

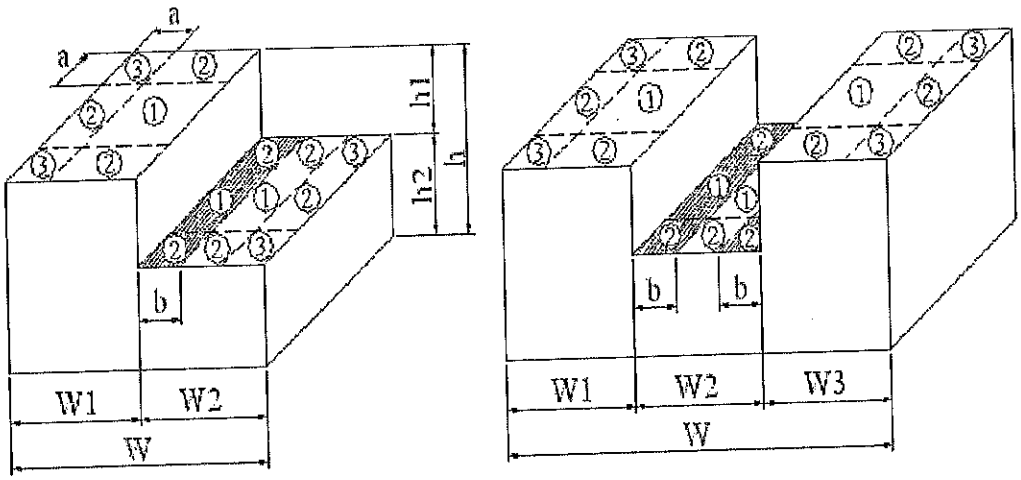


Hip $7° < \theta \leq 27°$





Sawtooth $10° < \theta \leq 45°$
h ≤ 60' & alt design h<90'



Stepped roofs $\theta \leq 3°$
h ≤ 60' & alt design h<90'

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(11)

Roof Design Loads

Items	Description	Multiple	psf (max)	psf (min)
Roofing	5 ply composite, no gravel		2.5	2.0
Decking	5/8" plywood/OSB		2.2	1.8
Framing	Wood Trusses @ 24"		3.0	2.5
Insulation	R-30 Fiberglass insul.	x 2.0	1.8	1.8
Ceiling	5/8" gypsum	x 1.0	2.8	2.5
Mech & Elec	Mech. & Elec.		2.0	0.0
			0.0	0.0
			0.0	0.0
		Actual Dead Load	(●) 14.3	(●) 10.6
		Use this DL instead	( ) 20.0	( ) 9.0
		Live Load	20.0	0.0
		Snow Load	0.0	0.0
		Ultimate Wind (zone 2 100sf)	20.3	-68.3
ASD Loading		D + Lr	34.3	-
		D + 0.75(0.6*W + Lr)	38.4	-
		0.6*D + 0.6*W	-	-34.6
LRFD Loading		1.2D + 1.6 Lr + 0.5W	59.3	-
		1.2D + 1.0W + 0.5Lr	47.4	-
		0.9D + 1.0W	-	-58.8

Roof Live Load Reduction Roof angle 0.25 / 12 1.2 deg

0 to 200 sf: 20.0 psf
200 to 600 sf: 24 - 0.02Area, but not less than 12 psf
over 600 sf: 12.0 psf

	300 sf	18.0 psf
	400 sf	16.0 psf
	500 sf	14.0 psf
User Input:	450 sf	15.0 psf

Design a single span solid slab floor to span 10'-4" clean between concrete beams/wall supports for the following superimposed service loads Space permits a **5.0 inches** depth slab.

Span	10.33 feet
Span including 4" minimum bearing	10.66 feet
Live Load	100 psf
Dead load (floor Finish)	20 psf

solution: Strength Design

The total factored superimposed load requirement is:

Live Load	100	1.7	170 psf
Dead Load	20	1.4	28 psf
	wu=		**198 *psf**

Since the clear span is 10.33 feet:
See page 7-7 of CRSI Design Hadbook:
p≈0.0075 wu= **304** psf ≥ **198** psf

Bottom bars:	#5	**10 inches**
Top Bars	#3	12 inches
Temp-Shrinkage Bars	#3	12 inches

Bar Details are shown in the attached Fig. 7.1

Serviceability Check:

1. Deflection

Note **asterisk** indicates elastic deflection for service load:

(304/1.7)=L/360

LL Deflection = (170/304)*(10.66*12/360) 0.198706 inches

2. Crack Control - The maximum spacing (s) permitted by ACI 10.6.4:

s= 12(36/fs) **12 inches** ≥ 10 inches

fs= 36ksi for Grade 60 bars

The spacing of the #5 bottom bars is 10 inches < 12 inches OK

CANTOR GB1 LOADING (WALL, FLOOR, ROOF) CALC'S

12"x16"		2#7	2#7	2#7	DL	LL	WIND
CMU WALL	7	65			455.00		
CONC BEAM 8"x12"	1	100.5			100.50		
1st FLOOR STRUCT SLAB DL	10.33	75			774.75		
1st FLOOR SLAB DL	10.33	20			206.60		
1st FLOOR SLAB LL	10.33		100			1033	
ROOF DL	13.17	25			329.25		
ROOF LL	13.17		30		-	395.1	
ROOF WIND	13.17			21.8			287.106
					1,866.10	**1428**	**287.106**

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Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Job # 13-0837
Date: 8:15AM, 13 DEC 13

Rev: 580010
User: KW-0607554, Ver 5.8.0, 1-Dec-2003
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Concrete Rectangular & Tee Beam Design

Description GB1

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

General Information

Span	10.33 ft	f'c	3,000 psi
Depth	16.000 in	Fy	60,000 psi
Width	12.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned
		Live Load not acting with Short Term	

Beam Weight Added Internally

Reinforcing

Rebar @ Center of Beam...	Count	Size	'd' from Top	Rebar @ Left End of Beam...	Count	Size	'd' from Top	Rebar @ Right End of Beam...	Count	Size	'd' from Top
#1	2	7	2.00 in	#1	2	7	2.00 in	#1	2	7	2.00 in
#2	2	7	8.00 in	#2	2	7	8.00 in	#2	2	7	8.00 in
#3	2	7	13.00in	#3	2	7	13.00 in	#3	2	7	13.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design.
Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Uniform Loads

	Dead Load	Live Load	Short Term	Start	End
#1	1.870 k	1.430 k	0.300 k	0.000 ft	10.330 ft

Summary

Beam Design OK

Span = 10.33ft, Width= 12.00in Depth = 16.00in

Maximum Moment : Mu	70.96 k-ft	Maximum Deflection	-0.1888 in
Allowable Moment : Mn*phi	94.73 k-ft		
Maximum Shear : Vu	21.76 k	Max Reaction @ Left	18.04 k
Allowable Shear : Vn*phi	62.86 k	Max Reaction @ Right	18.04 k

Shear Stirrups...							
Stirrup Area @ Section	0.440 in2						
Region	0.000	1.722	3.443	5.165	6.887	8.608	10.330 ft
Max. Spacing	6.500	6.500	6.500	6.500	6.500	6.500	6.500 in
Max Vu	21.761	18.464	9.232	9.012	9.012	18.244	21.541 k

Bending & Shear Force Summary

	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
Bending...		70.96 k-ft	34.00 k-ft	29.97 k-ft
@ Center	94.73 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Left End	94.73 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	94.73 k-ft			
	Vn*Phi	Vu, Eq. C-1	Vu, Eq. C-2	Vu, Eq. C-3
Shear...		21.76 k	10.43 k	9.19 k
@ Left End	62.86 k	21.54 k	10.32 k	9.10 k
@ Right End	62.86 k			

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0815 in	at	5.1650ft
DL + LL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.1888 in	at	5.1650ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.1053 in	at	5.1650ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	10.657 k	10.657 k
DL + LL + [Bm Wt]	18.043 k	18.043 k
DL + LL + ST + [Bm Wt]	12.207 k	12.207 k

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Concrete Rectangular & Tee Beam Design

Description GB1

Section Analysis

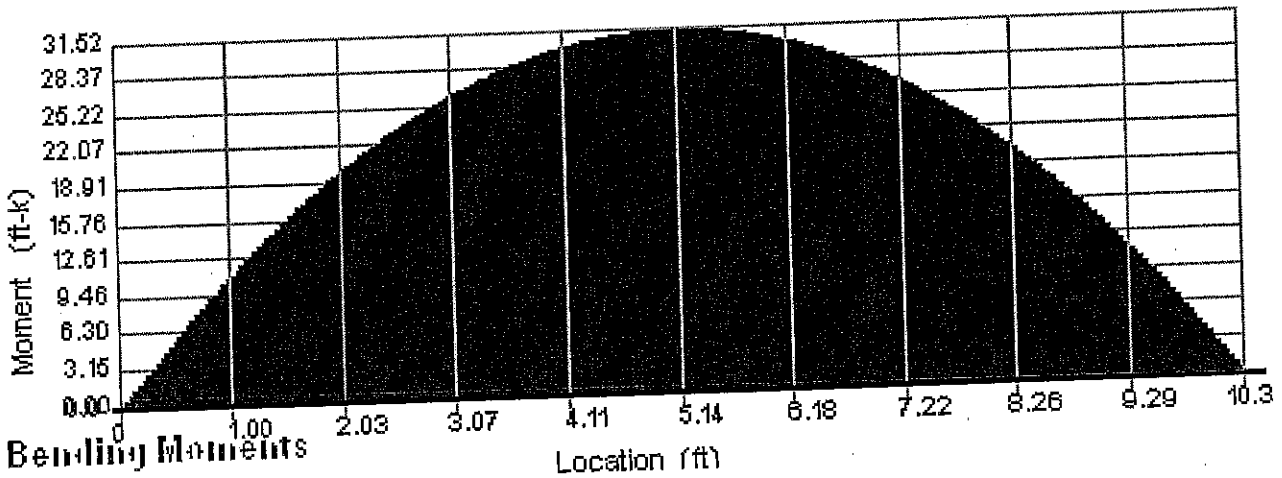
	Center	Left End	Right End
Evaluate Moment Capacity...			
X : Neutral Axis	3.770 in	3.770 in	3.770 in
a = beta * Xneutral	3.204 in	3.204 in	3.204 in
Compression in Concrete	98.058 k	98.058 k	98.058 k
Sum [Steel comp. forces]	45.955 k	45.955 k	45.955 k
Tension in Reinforcing	-144.000 k	-144.000 k	-144.000 k
Find Max As for Ductile Failure...			
X-Balanced	7.694 in	7.694 in	7.6939 in
Xmax = Xbal * 0.75	5.770 in	5.770 in	5.770 in
a-max = beta * Xbal	6.540 in	6.540 in	6.540 in
Compression in Concrete	150.088 k	150.088 k	150.088 k
Sum [Steel Comp Forces]	65.155 k	65.155 k	65.155 k
Total Compressive Force	215.244 k	215.244 k	215.244 k
AS Max = Tot Force / Fy	3.587 in2	3.587 in2	3.587 in2
Actual Tension As	2.400 OK	0.000 OK	0.000 OK

Additional Deflection Calcs

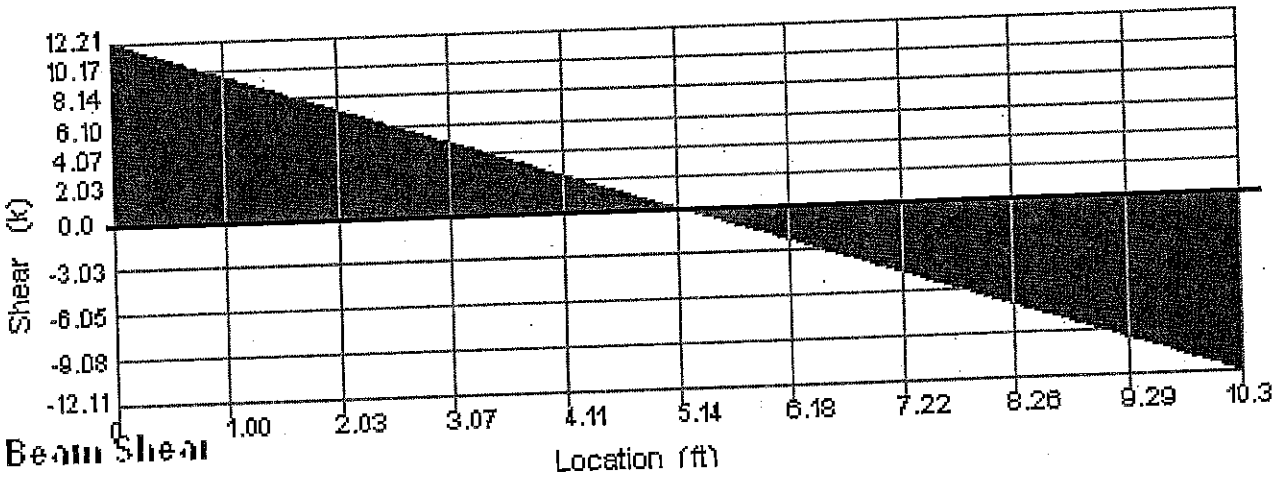
Neutral Axis	4.320 in	Mcr	17.53 k-ft
Igross	4,096.00 in4	Ms:Max DL + LL	50.60 k-ft
Icracked	1,373.25 in4	R1 = (Ms:DL+LL)/Mcr	0.346
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	31.52 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	0.556
Z:Cracking	255.646 k/in	I:eff... Ms(DL+LL)	1,486.422 in4
Z:cracking > 175 : No Good!		I:eff... Ms(DL+LL+ST)	1,841.235 in4
Eff. Flange Width	12.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

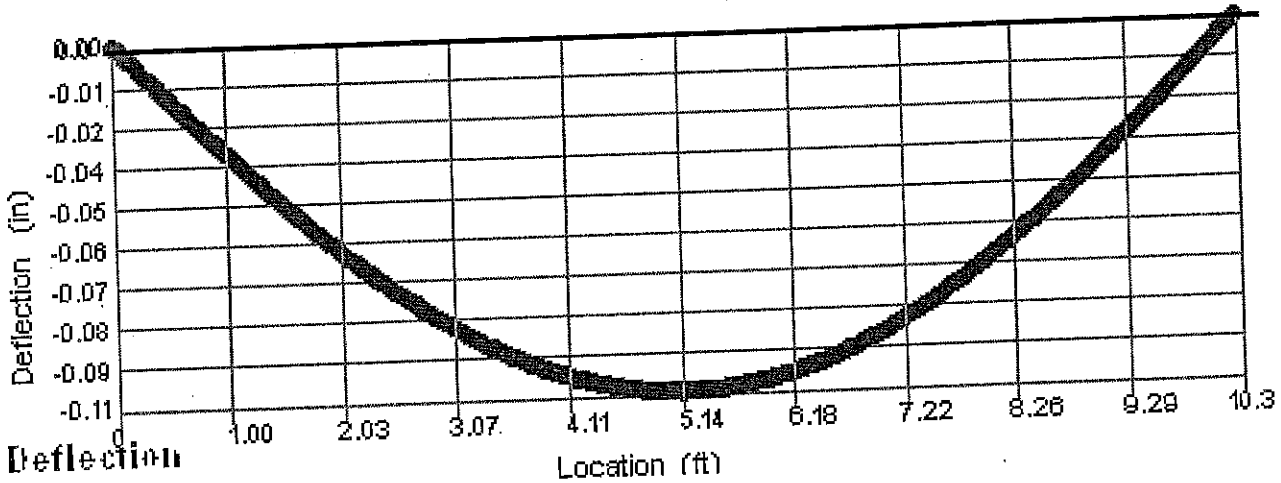
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add"l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add"l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



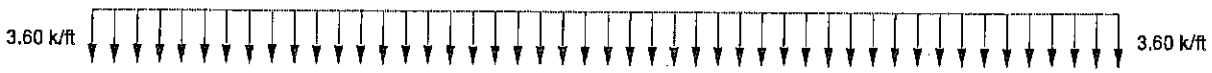
Bending Moments

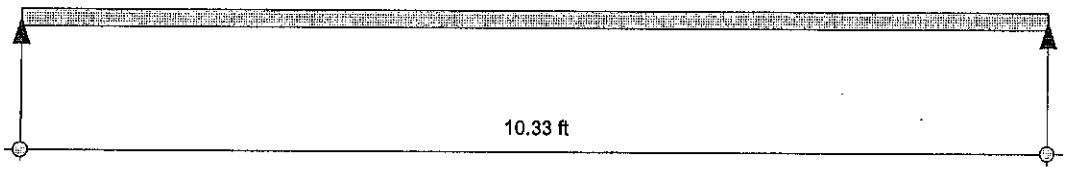


Beam Shear



Deflection





Mu:Max = 70.95 k-ft

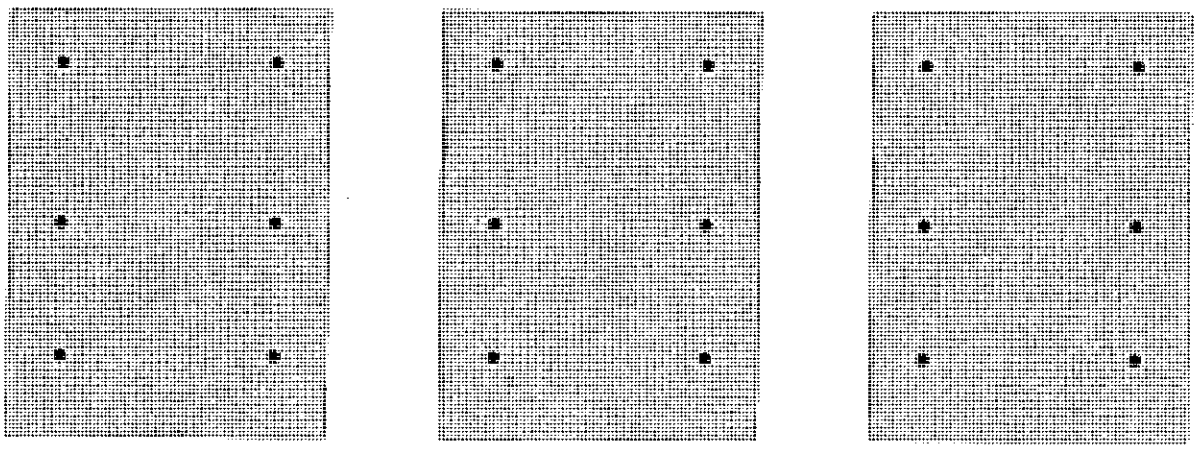
Dmax = 0.1888 in

Rmax = 18.043 k

Vu-Max = 21.781 k

Rmax = 18.043 k

Vu Max = 21.541 k



CANTOR GB2 LOADING (WALL, FLOOR, ROOF) CALC'S

12"x30"		2#7	2#7	2#7	DL	LL	WIND
CMU WALL	7	65			455.00		
CONC BEAM 8"x12"	1	100.5			100.50		
1st FLOOR STRUCT SLAB DL	4.5	75			337.50		
1st FLOOR SLAB DL	4.5	20			90.00		
1st FLOOR SLAB LL	4.5		55			247.5	
ROOF DL	6	25			150.00		
ROOF LL	6		30		-	180	
ROOF WIND	6			21.8			130.8
					1,133.00	**427.5**	**130.8**

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Scope : Additions and Renovations

Rev: 580010
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Concrete Rectangular & Tee Beam Design

Description GB2

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Span	7.00 ft	f'c	3,000 psi
Depth	30.000 in	Fy	60,000 psi
Width	12.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned
Beam Weight Added Internally		Live Load not acting with Short Term	

Reinforcing

Rebar @ Center of Beam...				Rebar @ Left End of Beam...				Rebar @ Right End of Beam...			
	Count	Size	'd' from Top		Count	Size	'd' from Top		Count	Size	'd' from Top
#1	2	7	2.00 in	#1	2	7	2.00 in	#1	2	7	2.00 in
#2	2	7	15.00 in	#2	2	7	15.00 in	#2	2	7	15.00 in
#3	2	7	27.00 in	#3	2	7	27.00 in	#3	2	7	27.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design. Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Uniform Loads

	Dead Load	Live Load	Short Term	Start	End
#1	1.140 k	0.430 k	0.140 k	0.000 ft	7.000 ft

Summary

Beam Design OK

Span = 7.00ft, Width= 12.00in Depth = 30.00in

Maximum Moment : Mu	17.36 k-ft	Maximum Deflection	-0.0012 in
Allowable Moment : Mn*phi	208.14 k-ft		
Maximum Shear : Vu	3.57 k	Max Reaction @ Left	6.76 k
Allowable Shear : Vn*phi	31.29 k	Max Reaction @ Right	6.76 k

Shear Stirrups...

Stirrup Area @ Section	0.440 in2						
Region	0.000	1.167	2.333	3.500	4.667	5.833	7.000 ft
Max. Spacing	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd in
Max Vu	3.571	3.571	3.571	3.254	3.254	3.492	3.492 k

Bending & Shear Force Summary

Bending...	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
@ Center	208.14 k-ft	17.36 k-ft	10.76 k-ft	9.40 k-ft
@ Left End	208.14 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	208.14 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
Shear...	**Vn*Phi**	**Vu, Eq. C-**	**Vu, Eq. C-**	**Vu, Eq. C-**
@ Left End	31.29 k	3.57 k	2.21 k	1.93 k
@ Right End	31.29 k	3.49 k	2.16 k	1.89 k

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	7.0000 ft	-0.0010 in	at	3.5000 ft
DL + LL + [Bm Wt]	0.0000 in	at	7.0000 ft	-0.0012 in	at	3.5000 ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	7.0000 ft	-0.0011 in	at	3.5000 ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	5.259 k	5.259 k
DL + LL + [Bm Wt]	6.764 k	6.764 k
DL + LL + ST + [Bm Wt]	5.749 k	5.749 k

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Concrete Rectangular & Tee Beam Design

Description GB2

Section Analysis

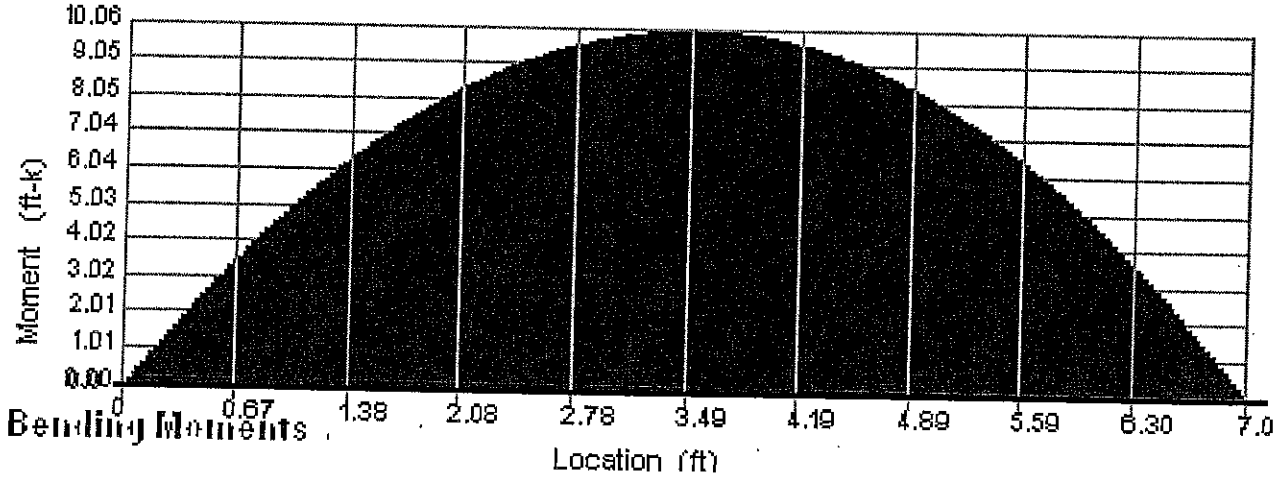
Evaluate Moment Capacity...	Center	Left End	Right End
X : Neutral Axis	3.770 in	3.770 in	3.770 in
a = beta * Xneutral	3.204 in	3.204 in	3.204 in
Compression in Concrete	98.058 k	98.058 k	98.058 k
Sum [Steel comp. forces]	45.955 k	45.955 k	45.955 k
Tension in Reinforcing	-144.000 k	-144.000 k	-144.000 k
Find Max As for Ductile Failure...			
X-Balanced	15.980 in	15.980 in	15.9796 in
Xmax = Xbal * 0.75	11.985 in	11.985 in	11.985 in
a-max = beta * Xbal	13.583 in	13.583 in	13.583 in
Compression in Concrete	311.722 k	311.722 k	311.722 k
Sum [Steel Comp Forces]	68.940 k	68.940 k	68.940 k
Total Compressive Force	380.662 k	380.662 k	380.662 k
AS Max = Tot Force / Fy	6.344 in2	6.344 in2	6.344 in2
Actual Tension As	2.400 OK	0.000 OK	0.000 OK

Additional Deflection Calcs

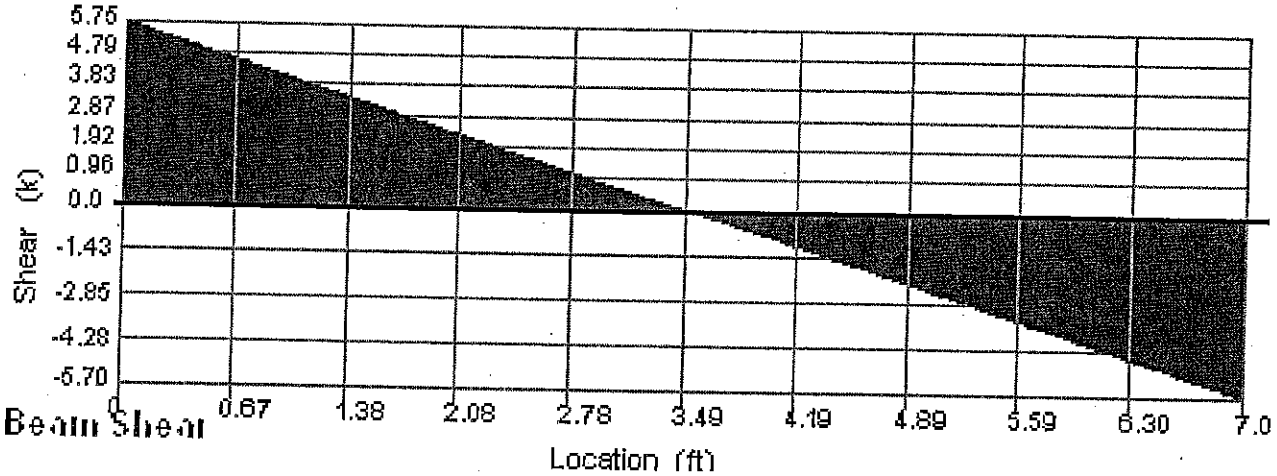
Neutral Axis	6.675 in	Mcr	61.62 k-ft
Igross	27,000.00 in4	Ms:Max DL + LL	12.69 k-ft
Icracked	6,810.51 in4	R1 = (Ms:DL+LL)/Mcr	4.854
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	10.06 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	6.125
Z:Cracking	27.733 k/in	I:eff... Ms(DL+LL)	27,000.000 in4
		I:eff... Ms(DL+LL+ST)	27,000.000 in4
Eff. Flange Width	12.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

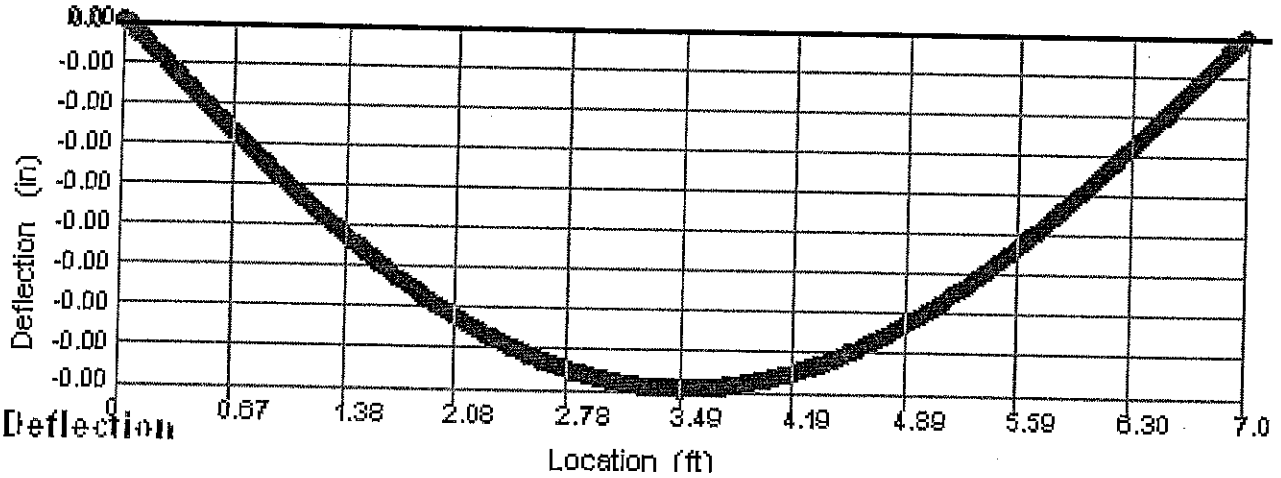
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add"l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add"l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



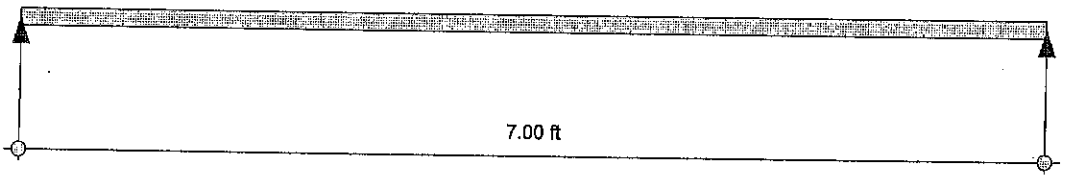
Bending Moments



Beam Shear



Deflection



Mu:Max = 17.36 k-ft

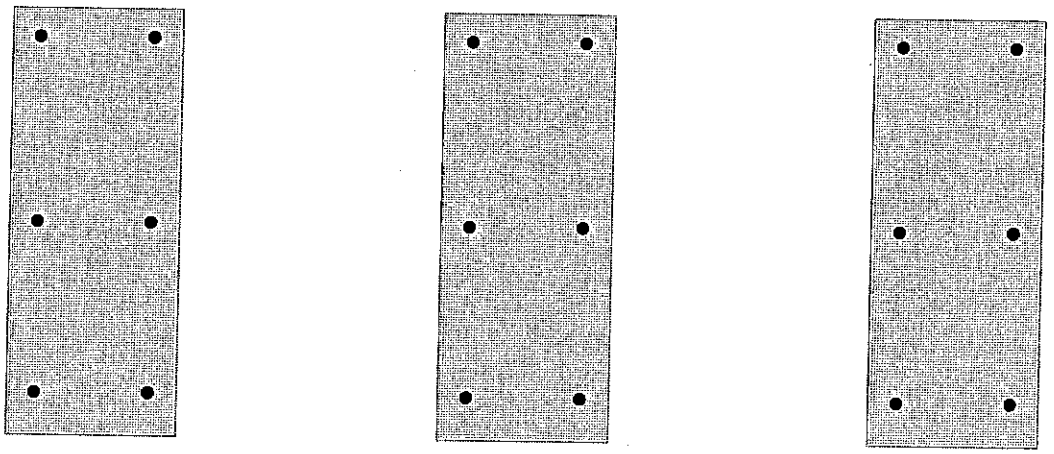
Dmax = 0.0012 in

Rmax = 6.763 k

Vu-Max = 3.571 k

Rmax = 6.763 k

Vu Max = 3.492 k



CANTOR GB3 LOADING (WALL, FLOOR, ROOF) CALC'S

12"x24"		2#7		2#7			
					DL	LL	WIND
CMU WALL	7	65			455.00		
CONC BEAM 8"x12"	1	100.5			100.50		
1st FLOOR STRUCT SLAB DL	6	75			450.00		
1st FLOOR SLAB DL	6	20			120.00		
1st FLOOR SLAB LL	6		55			330	
ROOF DL	10.67	25			266.75		
ROOF LL	10.67		30		-	320.1	
ROOF WIND	10.67			21.8			232.606
					1,392.25	**650.1**	**232.606**

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Concrete Rectangular & Tee Beam Design

Description GB3

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Span	13.50 ft	f'c	3,000 psi
Depth	24.000 in	Fy	60,000 psi
Width	12.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned
Beam Weight Added Internally		Live Load not acting with Short Term	

Reinforcing

Rebar @ Center of Beam...				Rebar @ Left End of Beam...				Rebar @ Right End of Beam...			
	Count	Size	'd' from Top		Count	Size	'd' from Top		Count	Size	'd' from Top
#1	2	7	2.00 in	#1	2	7	2.00 in	#1	2	7	2.00 in
#2	2	7	21.00 in	#2	2	7	21.00 in	#2	2	7	21.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design.
Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Uniform Loads

	Dead Load	Live Load	Short Term	Start	End
#1	1.400 k	0.650 k	0.240 k	0.000 ft	13.500 ft

Summary

Beam Design OK

Span = 13.50ft, Width= 12.00in Depth = 24.00in

Maximum Moment : Mu	79.07 k-ft	Maximum Deflection	-0.0732 in
Allowable Moment : Mn*phi	107.19 k-ft		
Maximum Shear : Vu	17.43 k	Max Reaction @ Left	15.79 k
Allowable Shear : Vn*phi	70.48 k	Max Reaction @ Right	15.79 k

Shear Stirrups...

Stirrup Area @ Section	0.440 in2						
Region	0.000	2.250	4.500	6.750	9.000	11.250	13.500 ft
Max. Spacing	10.500	10.500	Not Req'd	Not Req'd	Not Req'd	10.500	10.500 in
Max Vu	17.431	15.744	7.872	7.685	7.685	15.557	17.244 k

Bending & Shear Force Summary

Bending...	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
@ Center	107.19 k-ft	79.07 k-ft	47.40 k-ft	41.76 k-ft
@ Left End	107.19 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	107.19 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
Shear...	**Vn*Phi**	**Vu, Eq. C-**	**Vu, Eq. C-**	**Vu, Eq. C-**
@ Left End	70.48 k	17.43 k	10.45 k	9.21 k
@ Right End	70.48 k	17.24 k	10.34 k	9.11 k

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	13.5000 ft	-0.0293 in	at	6.7500 ft
DL + LL + [Bm Wt]	0.0000 in	at	13.5000 ft	-0.0732 in	at	6.7500 ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	13.5000 ft	-0.0422 in	at	6.7500 ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	11.407 k	11.407 k
DL + LL + [Bm Wt]	15.795 k	15.795 k
DL + LL + ST + [Bm Wt]	13.027 k	13.027 k

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Title : CANTOR Job # 13-0837
Dsgnr: Eduard C Badiu, P.E. Date: 8:24AM, 13 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Rev: 560010
User: KW-0607554, Ver 5.8.0, 1-Dec-2003
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Concrete Rectangular & Tee Beam Design

Description GB3

Section Analysis

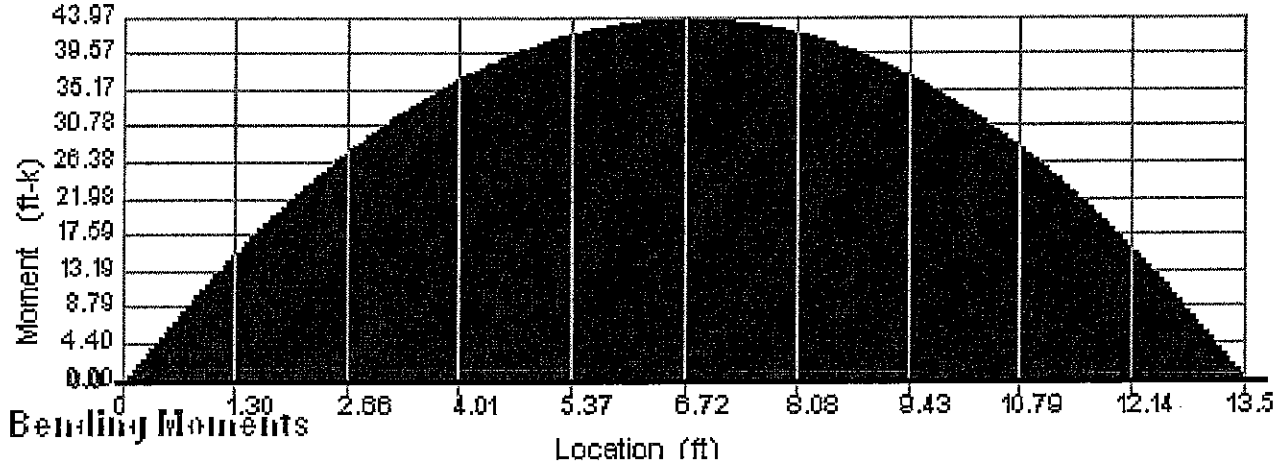
Evaluate Moment Capacity...	Center	Left End	Right End
X : Neutral Axis	2.325 in	2.325 in	2.325 in
a = beta * Xneutral	1.976 in	1.976 in	1.976 in
Compression in Concrete	60.473 k	60.473 k	60.473 k
Sum [Steel comp. forces]	11.534 k	11.534 k	11.534 k
Tension in Reinforcing	-72.000 k	-72.000 k	-72.000 k
Find Max As for Ductile Failure...			
X-Balanced	12.429 in	12.429 in	12.4286 in
Xmax = Xbal * 0.75	9.321 in	9.321 in	9.321 in
a-max = beta * Xbal	10.564 in	10.564 in	10.564 in
Compression in Concrete	242.450 k	242.450 k	242.450 k
Sum [Steel Comp Forces]	68.940 k	68.940 k	68.940 k
Total Compressive Force	311.390 k	311.390 k	311.390 k
AS Max = Tot Force / Fy	5.190 in2	5.190 in2	5.190 in2
Actual Tension As	1.200 OK	0.000 OK	0.000 OK

Additional Deflection Calcs

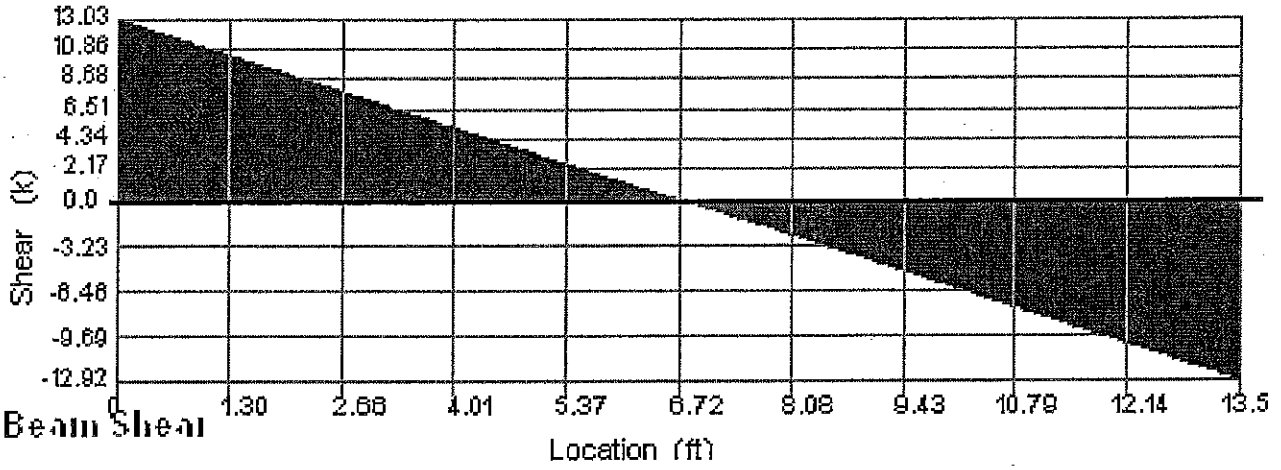
Neutral Axis	4.940 in	Mcr	39.44 k-ft
Igross	13,824.00 in4	Ms:Max DL + LL	58.78 k-ft
Icracked	3,453.54 in4	R1 = (Ms:DL+LL)/Mcr	0.671
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	43.97 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	0.897
Z:Cracking	158.072 k/in	I:eff... Ms(DL+LL)	6,586.006 in4
Z:cracking > 145 : Interior Only !		I:eff... Ms(DL+LL+ST)	10,936.498 in4
Eff. Flange Width	12.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

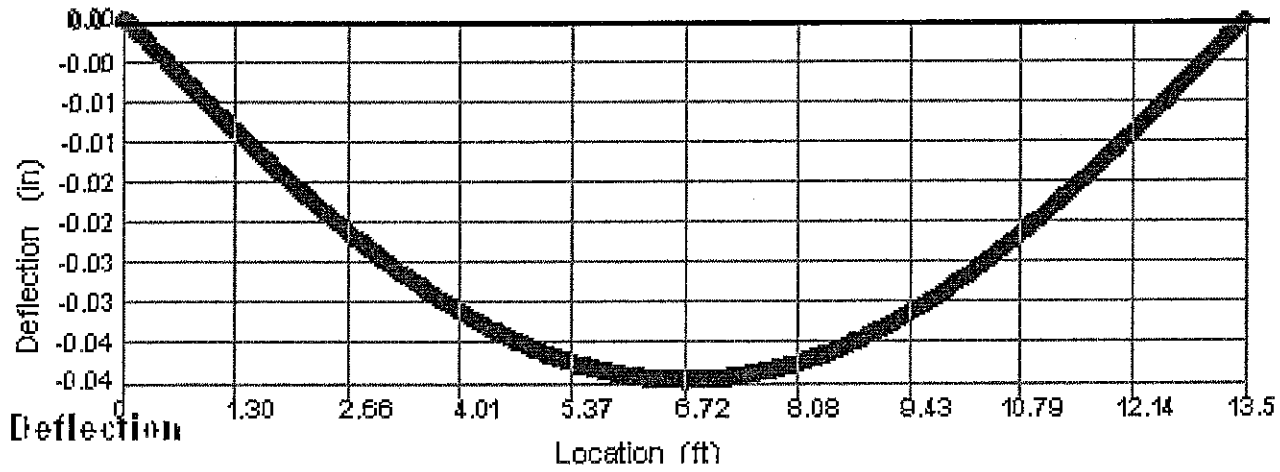
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add'l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add'l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



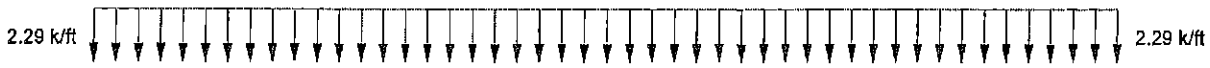
Bending Moments

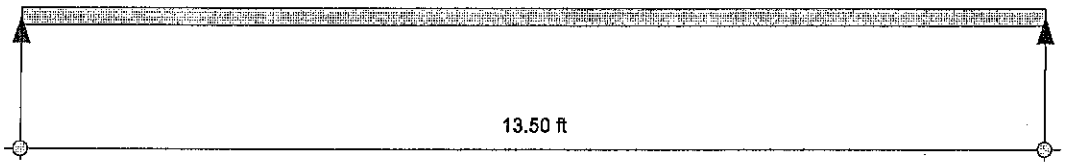


Beam Shear



Deflection





Mu:Max = 79.07 k-ft

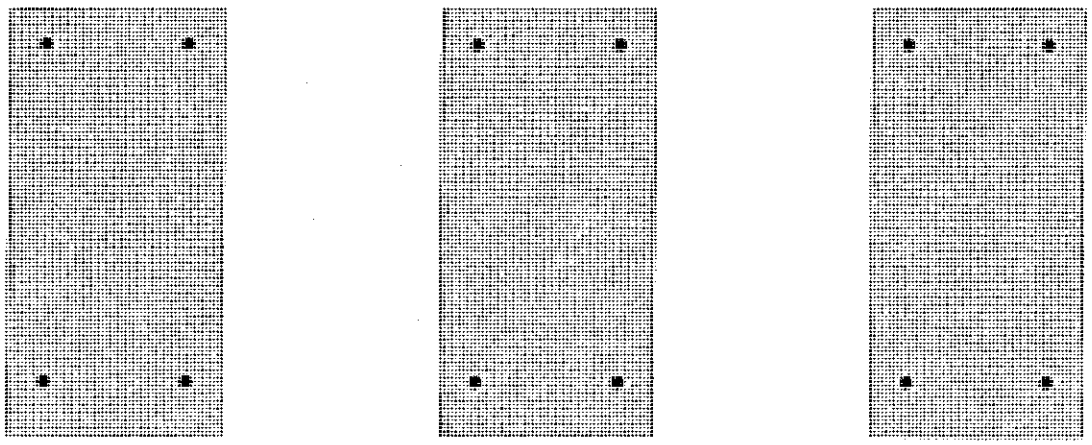
Dmax = 0.0731 in

Rmax = 15.794 k

Vu-Max = 17.431 k

Rmax = 15.794 k

Vu Max = 17.243 k



CANTOR GB4 LOADING (WALL, FLOOR, ROOF) CALC'S

8"x16"		2#7	2#7	DL	LL	WIND
CMU WALL		65		-		
CONC BEAM 8"x12"		100.5		-		
1st FLOOR STRUCT SLAB DL	5.75	75		431.25		
1st FLOOR SLAB DL	5.75	20		115.00		
1st FLOOR SLAB LL	5.75		55		316.3	
ROOF DL		25		-		
ROOF LL			30	-	0	
ROOF WIND			21.8			0
				546.25	**316.3**	**0**

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Dsgnr: Eduard C Badiu, P.E. Date: 8:35AM, 13 DEC 13
Description : 1201 N South Lake Drive HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Concrete Rectangular & Tee Beam Design

Description GB4

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Span	4.00 ft	f'c	3,000 psi
Depth	16.000 in	Fy	60,000 psi
Width	8.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned
Beam Weight Added Internally		Live Load not acting with Short Term	

Reinforcing

Rebar @ Center of Beam...				Rebar @ Left End of Beam...				Rebar @ Right End of Beam...			
	Count	Size	'd' from Top		Count	Size	'd' from Top		Count	Size	'd' from Top
#1	2	7	2.00 in	#1	2	7	2.00 in	#1	2	7	2.00 in
#2	2	7	13.00 in	#2	2	7	13.00 in	#2	2	7	13.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design. Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Uniform Loads

	Dead Load	Live Load	Short Term	Start	End
#1	0.550 k	0.320 k	k	0.000 ft	4.000 ft

Summary

Beam Design OK

Span = 4.00ft, Width= 8.00in Depth = 16.00in

Maximum Moment : Mu	2.99 k-ft	Maximum Deflection	-0.0007 in
Allowable Moment : Mn*phi	62.37 k-ft		
Maximum Shear : Vu	1.39 k	Max Reaction @ Left	2.00 k
Allowable Shear : Vn*phi	10.43 k	Max Reaction @ Right	2.00 k

Shear Stirrups...

Stirrup Area @ Section 0.440 in2

Region	0.000	0.667	1.333	2.000	2.667	3.333	4.000 ft
Max. Spacing	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd in
Max Vu	1.387	1.387	1.004	0.980	0.980	1.363	1.363 k

Bending & Shear Force Summary

Bending...	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
@ Center	62.37 k-ft	2.99 k-ft	1.43 k-ft	1.22 k-ft
@ Left End	62.37 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	62.37 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
Shear...	**Vn*Phi**	**Vu, Eq. C-**	**Vu, Eq. C-**	**Vu, Eq. C-**
@ Left End	10.43 k	1.39 k	0.66 k	0.57 k
@ Right End	10.43 k	1.36 k	0.65 k	0.56 k

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0005 in	at	2.0000 ft
DL + LL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0007 in	at	2.0000 ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0005 in	at	2.0000 ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	1.358 k	1.358 k
DL + LL + [Bm Wt]	1.998 k	1.998 k
DL + LL + ST + [Bm Wt]	1.358 k	1.358 k

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Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Description GB4

Section Analysis

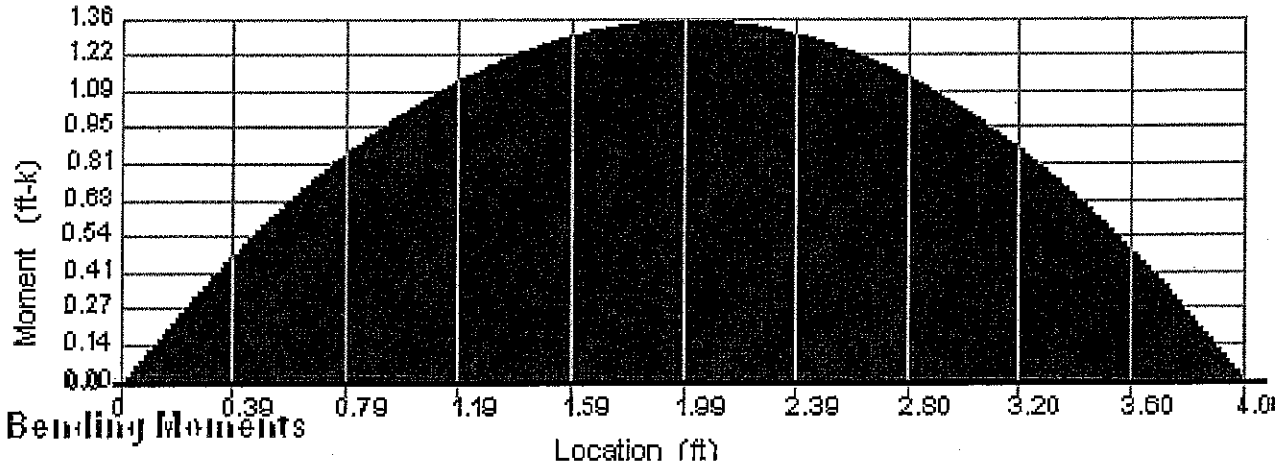
Evaluate Moment Capacity...	Center	Left End	Right End
X : Neutral Axis	2.725 in	2.725 in	2.725 in
a = beta * Xneutral	2.316 in	2.316 in	2.316 in
Compression in Concrete	47.251 k	47.251 k	47.251 k
Sum [Steel comp. forces]	24.716 k	24.716 k	24.716 k
Tension in Reinforcing	-72.000 k	-72.000 k	-72.000 k
Find Max As for Ductile Failure...			
X-Balanced	7.694 in	7.694 in	7.6939 in
Xmax = Xbal * 0.75	5.770 in	5.770 in	5.770 in
a-max = beta * Xbal	6.540 in	6.540 in	6.540 in
Compression in Concrete	100.059 k	100.059 k	100.059 k
Sum [Steel Comp Forces]	65.155 k	65.155 k	65.155 k
Total Compressive Force	165.214 k	165.214 k	165.214 k
AS Max = Tot Force / Fy	2.754 in2	2.754 in2	2.754 in2
Actual Tension As	1.200 OK	0.000 OK	0.000 OK

Additional Deflection Calcs

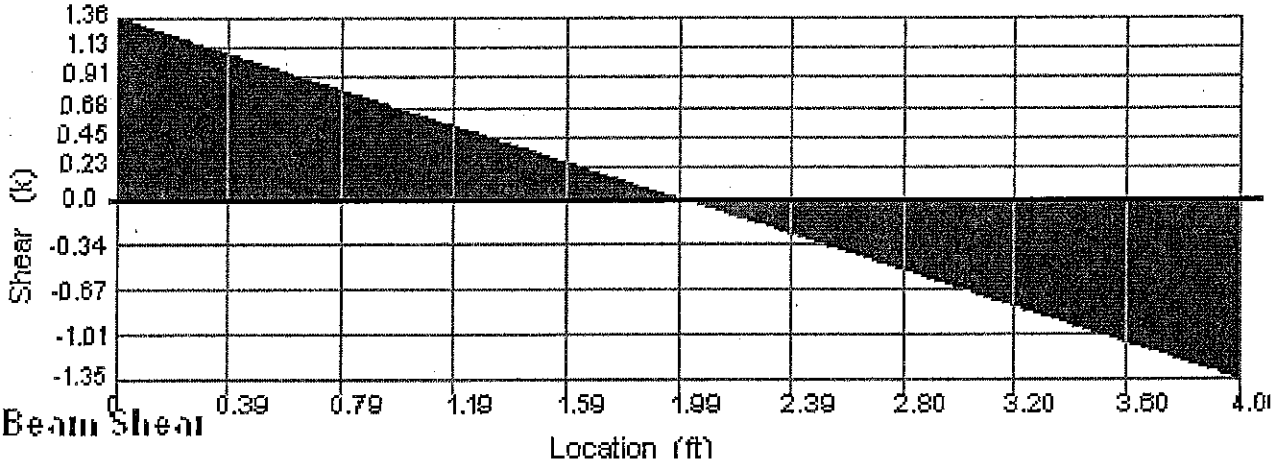
Neutral Axis	4.255 in	Mcr	11.68 k-ft
Igross	2,730.67 in4	Ms:Max DL + LL	2.00 k-ft
Icracked	1,114.55 in4	R1 = (Ms:DL+LL)/Mcr	5.849
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	1.36 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	8.606
Z:Cracking	9.504 k/in	I:eff... Ms(DL+LL)	2,730.667 in4
		I:eff... Ms(DL+LL+ST)	2,730.667 in4
Eff. Flange Width	8.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

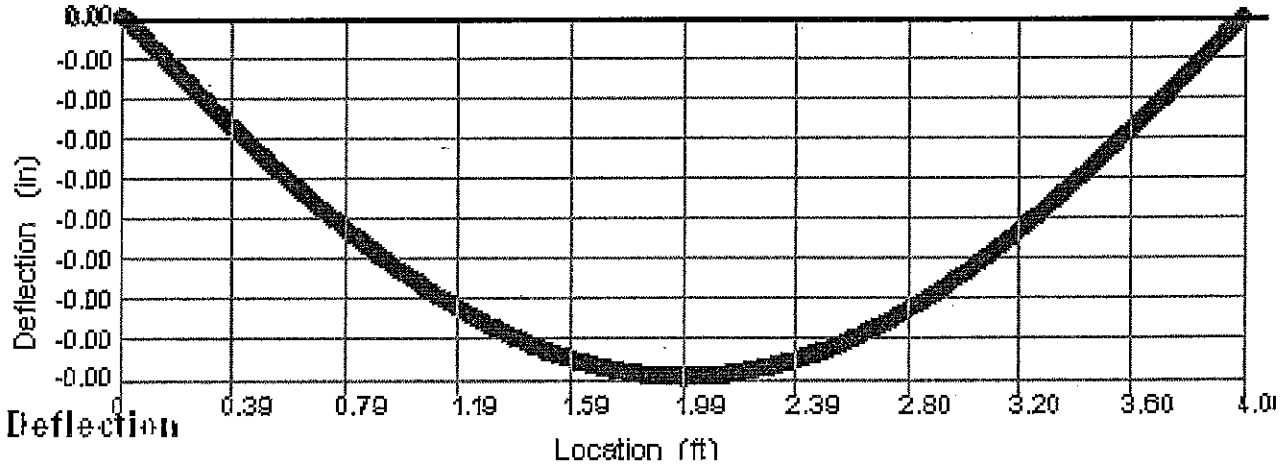
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add"l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add"l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



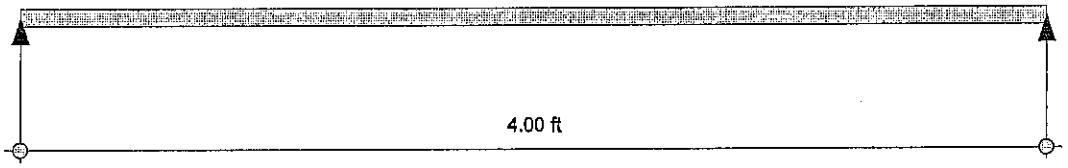
Bending Moments



Beam Shear



Deflection



Mu:Max = 2.98 k-ft

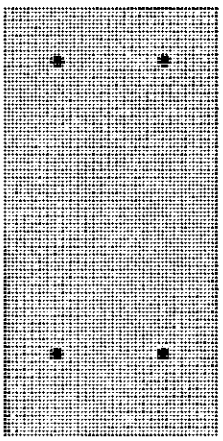
Dmax = 0.0006 in

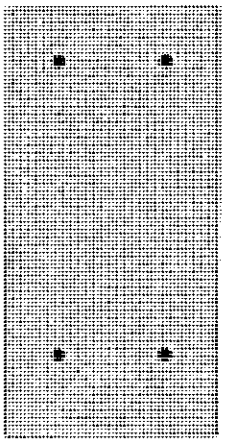
Rmax = 1.997 k

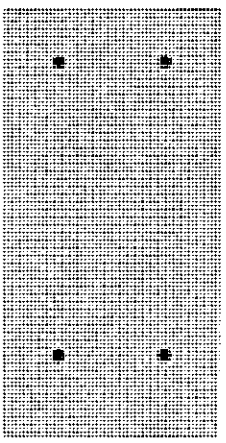
Vu-Max = 1.386 k

Rmax = 1.997 k

Vu Max = 1.362 k







CANTOR GB5 LOADING (WALL, FLOOR, ROOF) CALC'S

12"x30"		2#7	2#7	2#7			
					DL	**LL**	**WIND**
CMU WALL	**7**	65			455.00		
CONC BEAM 8"x12"	1	100.5			100.50		
1st FLOOR STRUCT SLAB DL	3	75			225.00		
1st FLOOR SLAB DL	3	20			60.00		
1st FLOOR SLAB LL	3		55			165	
ROOF DL	9.5	25			237.50		
ROOF LL	9.5		30		-	285	
ROOF WIND	9.5			21.8			207.1
					1,078.00	**450**	**207.1**

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Title : CANTOR
Dsgnr: Eduard C Badiu, P.E.
Description : 1201 N South Lake Drive HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Job # 13-0837
Date: 8:38AM, 13 DEC 13

Rev: 580010
User: KW-0607554, Ver 5.8.0, 1-Dec-2003
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Concrete Rectangular & Tee Beam Design

Description GB5

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Span	14.10 ft	f'c	3,000 psi
Depth	30.000 in	Fy	60,000 psi
Width	12.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned
		Live Load not acting with Short Term	

Beam Weight Added Internally

Reinforcing

Rebar @ Center of Beam...	Count	Size	'd' from Top	Rebar @ Left End of Beam...	Count	Size	'd' from Top	Rebar @ Right End of Beam...	Count	Size	'd' from Top
#1	2	7	2.00 in	#1	2	7	2.00 in	#1	2	7	2.00 in
#2	2	7	15.00 in	#2	2	7	15.00 in	#2	2	7	15.00 in
#3	2	7	27.00in	#3	2	7	27.00 in	#3	2	7	27.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design.
Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Uniform Loads

	Dead Load	Live Load	Short Term	Start	End
#1	1.100 k	0.450 k	0.210 k	0.000 ft	14.100 ft

Summary

Beam Design OK

Span = 14.10ft, Width= 12.00in Depth = 30.00in

Maximum Moment : Mu	69.89 k-ft	Maximum Deflection	-0.0202 in
Allowable Moment : Mn*phi	208.14 k-ft		
Maximum Shear : Vu	13.64 k	Max Reaction @ Left	13.48 k
Allowable Shear : Vn*phi	31.29 k	Max Reaction @ Right	13.48 k

Shear Stirrups...

Stirrup Area @ Section	0.440 in2						
Region	0.000	2.350	4.700	7.050	9.400	11.750	14.100 ft
Max. Spacing	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd in
Max Vu	13.642	13.642	6.662	6.504	6.504	13.166	13.483 k

Bending & Shear Force Summary

	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
Bending...		69.89 k-ft	44.82 k-ft	39.49 k-ft
@ Center	208.14 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Left End	208.14 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	208.14 k-ft			
	Vn*Phi	**Vu, Eq. C-**	**Vu, Eq. C-**	**Vu, Eq. C-**
Shear...		13.64 k	8.75 k	7.71 k
@ Left End	31.29 k	13.48 k	8.65 k	7.62 k
@ Right End	31.29 k			

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	14.1000 ft	-0.0154 in	at	7.0500 ft
DL + LL + [Bm Wt]	0.0000 in	at	14.1000 ft	-0.0202 in	at	7.0500 ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	14.1000 ft	-0.0176 in	at	7.0500 ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	10.311 k	10.311 k
DL + LL + [Bm Wt]	13.483 k	13.483 k
DL + LL + ST + [Bm Wt]	11.791 k	11.791 k

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Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Job # 13-0837
Date: 8:38AM, 13 DEC 13

Concrete Rectangular & Tee Beam Design

Description GB5

Section Analysis

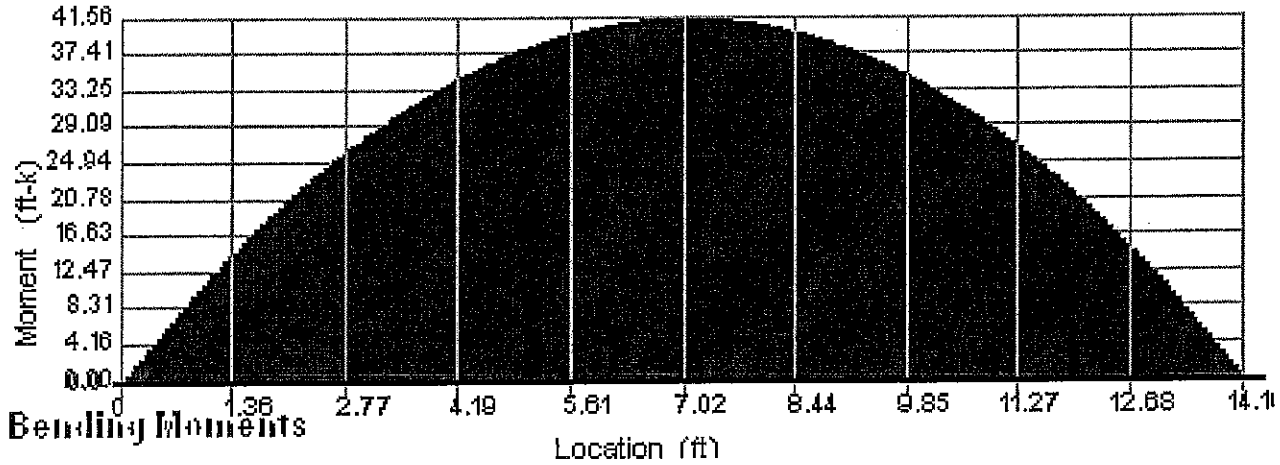
Evaluate Moment Capacity...	Center	Left End	Right End
X : Neutral Axis	3.770 in	3.770 in	3.770 in
a = beta * Xneutral	3.204 in	3.204 in	3.204 in
Compression in Concrete	98.058 k	98.058 k	98.058 k
Sum [Steel comp. forces]	45.955 k	45.955 k	45.955 k
Tension in Reinforcing	-144.000 k	-144.000 k	-144.000 k
Find Max As for Ductile Failure...			
X-Balanced	15.980 in	15.980 in	15.9796 in
Xmax = Xbal * 0.75	11.985 in	11.985 in	11.985 in
a-max = beta * Xbal	13.583 in	13.583 in	13.583 in
Compression in Concrete	311.722 k	311.722 k	311.722 k
Sum [Steel Comp Forces]	68.940 k	68.940 k	68.940 k
Total Compressive Force	380.662 k	380.662 k	380.662 k
AS Max = Tot Force / Fy	6.344 in2	6.344 in2	6.344 in2
Actual Tension As	2.400 OK	0.000 OK	0.000 OK

Additional Deflection Calcs

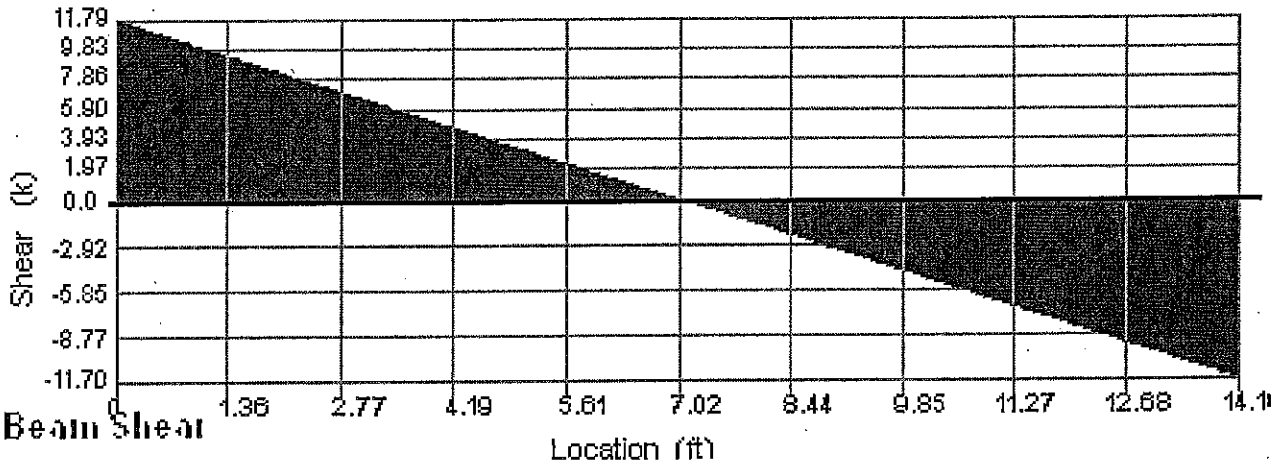
Neutral Axis	6.675 in	Mcr	61.62 k-ft
Igross	27,000.00 in4	Ms:Max DL + LL	52.75 k-ft
Icracked	6,810.51 in4	R1 = (Ms:DL+LL)/Mcr	1.168
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	41.56 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	1.483
Z:Cracking	111.359 k/in	I:eff... Ms(DL+LL)	27,000.000 in4
		I:eff... Ms(DL+LL+ST)	27,000.000 in4
Eff. Flange Width	12.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

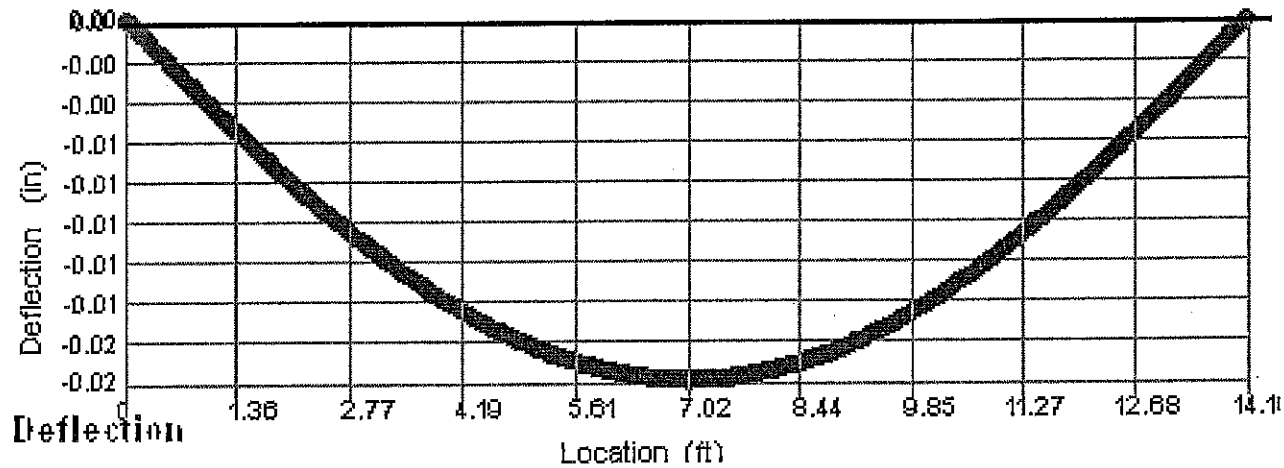
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add'l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add'l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



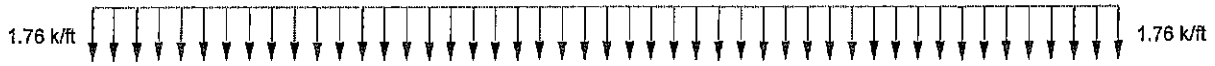
Bending Moments

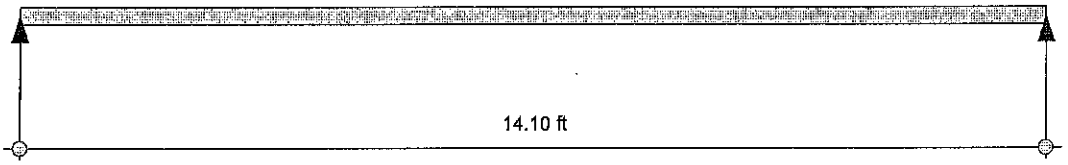


Beam Shear



Deflection





Mu:Max = 69.89 k-ft

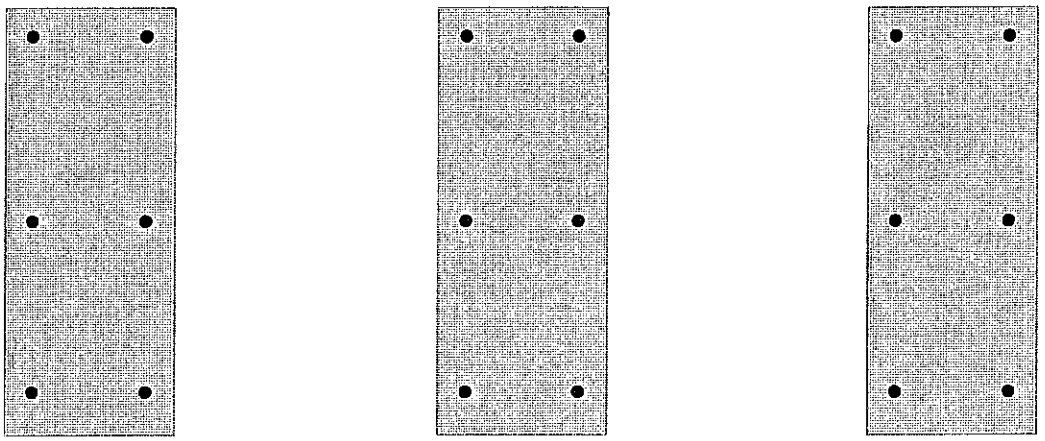
Dmax = 0.0201 in

Rmax = 13.483 k

Vu-Max = 13.641 k

Rmax = 13.483 k

Vu Max = 13.483 k



CANTOR GB5A LOADING (WALL, FLOOR, ROOF) CALC'S

8"x16"	2#7		2#7		DL	LL	WIND	
CMU WALL	7	65			455.00			
CONC BEAM 8"x12"	1	100.5			100.50			
1st FLOOR STRUCT SLAB DL		75			-			
1st FLOOR SLAB DL		20			-			
1st FLOOR SLAB LL			55			0		
ROOF DL		25			-			
ROOF LL			30		-	0		
ROOF WIND				21.8				0
					555.50	**0**		**0**

CeBB Engineering & Testing Co.
7450 Griffin Road, Suite 140
Fort Lauderdale, FL. 33314
(954) 581-7115 Phone
(954) 581-2415 Fax

Title : CANTOR Job # 13-0837
Dsgnr: Eduard C Badiu, P.E. Date: 8:53AM, 13 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Concrete Rectangular & Tee Beam Design

Description GB5A

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Span	6.00 ft	f'c	3,000 psi
Depth	16.000 in	Fy	60,000 psi
Width	8.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned
Beam Weight Added Internally		Live Load not acting with Short Term	

Reinforcing

	Rebar @ Center of Beam...			Rebar @ Left End of Beam...			Rebar @ Right End of Beam...			
	Count	Size	'd' from Top	Count	Size	'd' from Top	Count	Size	'd' from Top	
#1	2	7	2.00 in	#1	2	7	2.00 in	#1	2	7	2.00 in
#2	2	7	13.00 in	#2	2	7	13.00 in	#2	2	7	13.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design. Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Uniform Loads

	Dead Load	Live Load	Short Term	Start	End
#1	0.560 k	k	k	0.000 ft	6.000 ft

Summary

Beam Design OK

Span = 6.00ft, Width= 8.00in Depth = 16.00in

Maximum Moment : Mu	4.34 k-ft	Maximum Deflection	-0.0024 in
Allowable Moment : Mn*phi	62.37 k-ft		
Maximum Shear : Vu	1.85 k	Max Reaction @ Left	2.07 k
Allowable Shear : Vn*phi	10.43 k	Max Reaction @ Right	2.07 k

Shear Stirrups...

Stirrup Area @ Section 0.440 in2

Region	0.000	1.000	2.000	3.000	4.000	5.000	6.000 ft
Max. Spacing	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd in
Max Vu	1.852	1.852	0.972	0.949	0.949	1.829	1.829 k

Bending & Shear Force Summary

Bending...	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
@ Center	62.37 k-ft	4.34 k-ft	3.25 k-ft	2.79 k-ft
@ Left End	62.37 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	62.37 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
Shear...	**Vn*Phi**	**Vu, Eq. C-1**	**Vu, Eq. C-2**	**Vu, Eq. C-3**
@ Left End	10.43 k	1.85 k	1.39 k	1.19 k
@ Right End	10.43 k	1.83 k	1.37 k	1.18 k

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	6.0000 ft	-0.0024 in	at	3.0000 ft
DL + LL + [Bm Wt]	0.0000 in	at	6.0000 ft	-0.0024 in	at	3.0000 ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	6.0000 ft	-0.0024 in	at	3.0000 ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	2.067 k	2.067 k
DL + LL + [Bm Wt]	2.067 k	2.067 k
DL + LL + ST + [Bm Wt]	2.067 k	2.067 k

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Title : CANTOR Job # 13-0837
Dsgnr: Eduard C Badiu, P.E. Date: 8:53AM, 13 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Concrete Rectangular & Tee Beam Design

Description GB5A

Section Analysis

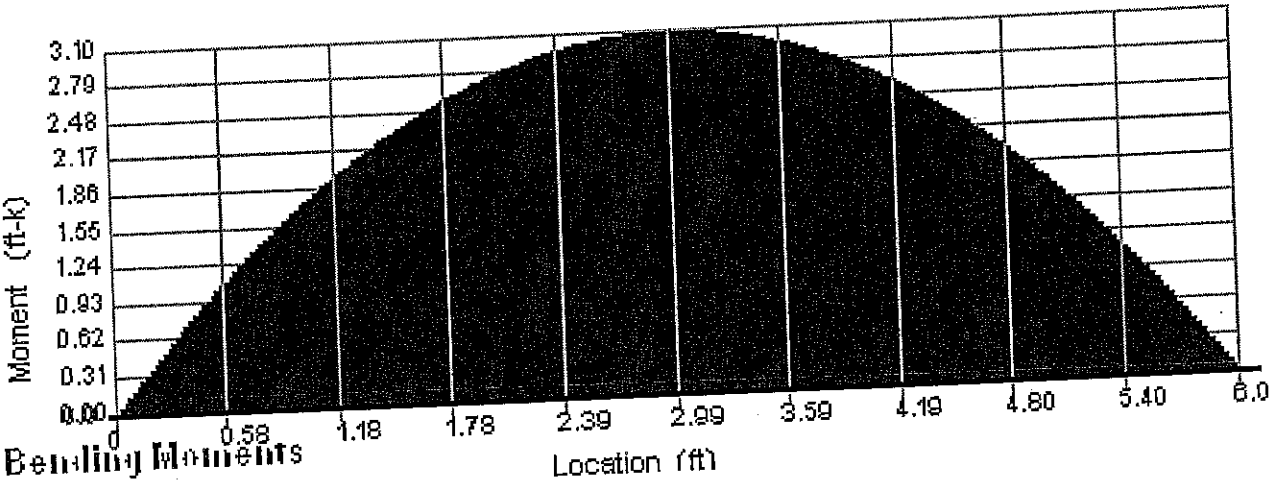
Evaluate Moment Capacity...	Center	Left End	Right End
X : Neutral Axis	2.725 in	2.725 in	2.725 in
a = beta * Xneutral	2.316 in	2.316 in	2.316 in
Compression in Concrete	47.251 k	47.251 k	47.251 k
Sum [Steel comp. forces]	24.716 k	24.716 k	24.716 k
Tension in Reinforcing	-72.000 k	-72.000 k	-72.000 k
Find Max As for Ductile Failure...			
X-Balanced	7.694 in	7.694 in	7.6939 in
Xmax = Xbal * 0.75	5.770 in	5.770 in	5.770 in
a-max = beta * Xbal	6.540 in	6.540 in	6.540 in
Compression in Concrete	100.059 k	100.059 k	100.059 k
Sum [Steel Comp Forces]	65.155 k	65.155 k	65.155 k
Total Compressive Force	165.214 k	165.214 k	165.214 k
AS Max = Tot Force / Fy	2.754 in2	2.754 in2	2.754 in2
Actual Tension As	1.200 OK	0.000 OK	0.000 OK

Additional Deflection Calcs

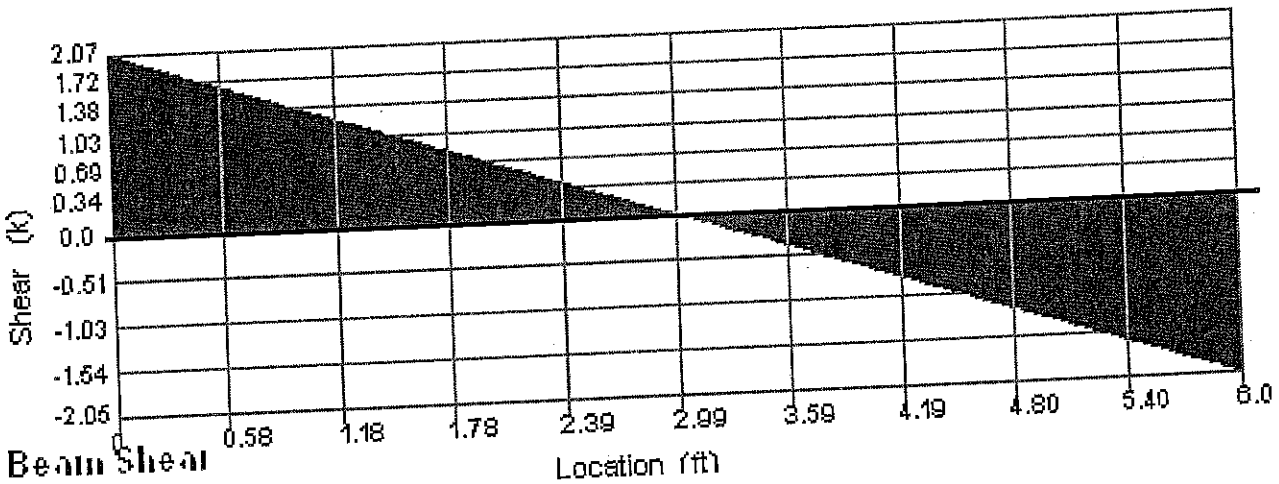
Neutral Axis	4.255 in	Mcr	11.68 k-ft
Igross	2,730.67 in4	Ms:Max DL + LL	3.10 k-ft
Icracked	1,114.55 in4	R1 = (Ms:DL+LL)/Mcr	3.769
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	3.10 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	3.769
Z:Cracking	14.747 k/in	I:eff... Ms(DL+LL)	2,730.667 in4
		I:eff... Ms(DL+LL+ST)	2,730.667 in4
Eff. Flange Width	8.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

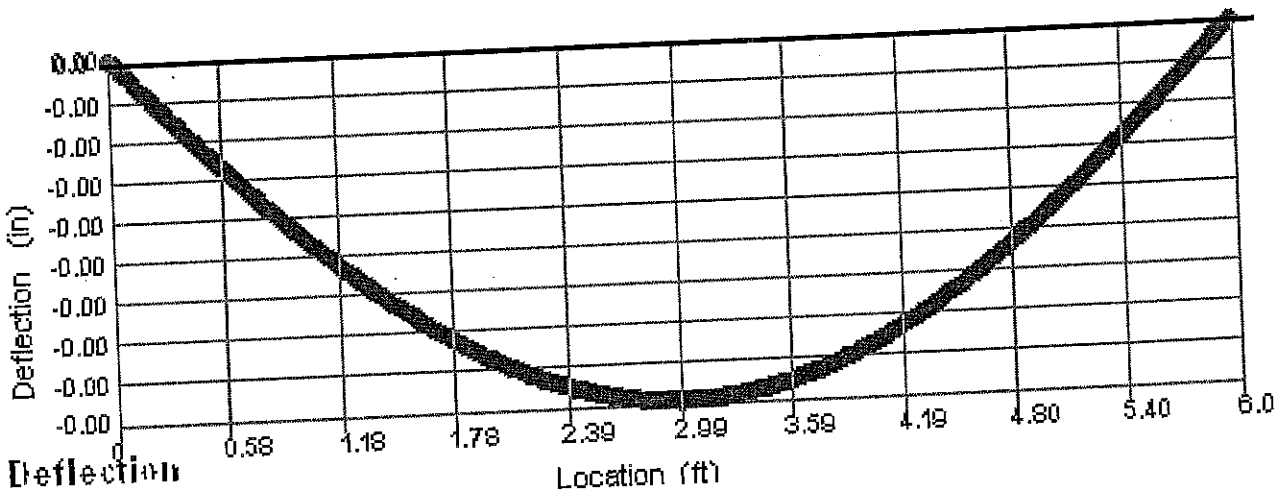
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add'l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add'l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



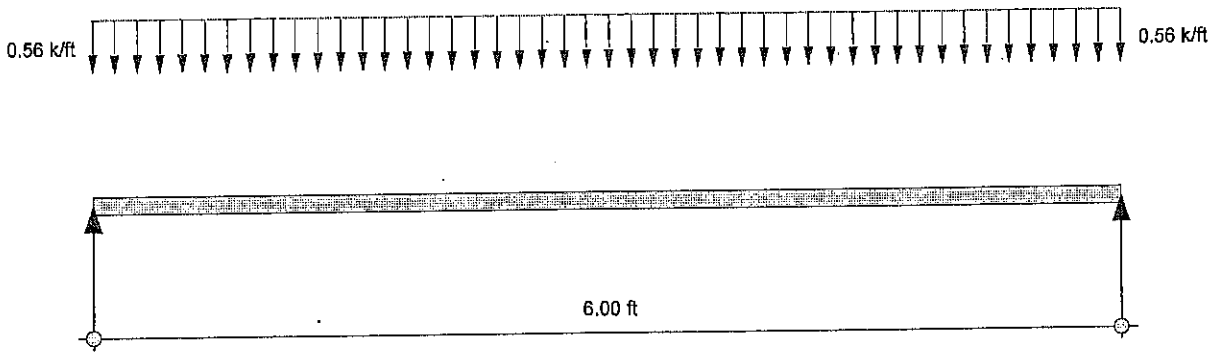
Bending Moments



Beam Shear



Deflection



Mu:Max = 4.33 k-ft

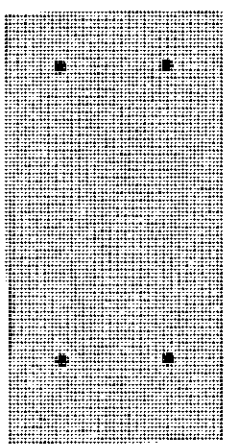
Dmax = 0.0023 in

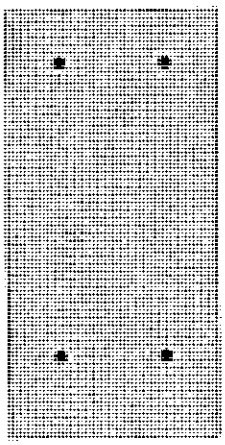
Rmax = 2.066 k

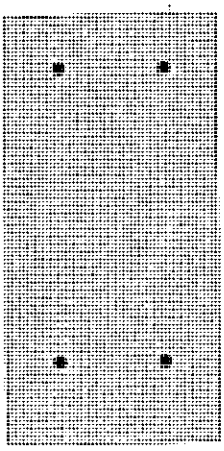
Vu-Max = 1.851 k

Rmax = 2.066 k

Vu Max = 1.828 k







CANTOR GB6 LOADING (WALL, FLOOR, ROOF) CALC'S

8"x24"		2#5		2#7			
					DL	**LL**	**WIND**
CMU WALL	3	65			195.00		
CONC BEAM 8"x12"	1	100.5			100.50		
1st FLOOR STRUCT SLAB DL		75			-		
1st FLOOR SLAB DL		20			-		
1st FLOOR SLAB LL			55			0	
ROOF DL		25			-		
ROOF LL			30		-	0	
ROOF WIND				21.8			0
					295.50	**0**	**0**

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Fort Lauderdale, FL. 33314
(954) 581-7115 Phone
(954) 581-2415 Fax

Title : CANTOR
Dsgnr: Eduard C Badiu, P.E.
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Job # 13-0837
Date: 8:59AM, 13 DEC 13

Rev: 580010
User: KW-0607564, Ver 5.8.0, 1-Dec-2003
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Concrete Rectangular & Tee Beam Design

Description GB6

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

General Information

Span	11.50 ft	f'c	3,000 psi
Depth	24.000 in	Fy	60,000 psi
Width	8.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned
		Live Load not acting with Short Term	

Beam Weight Added Internally

Reinforcing

Rebar @ Center of Beam...	Count	Size	'd' from Top	Rebar @ Left End of Beam...	Count	Size	'd' from Top	Rebar @ Right End of Beam...	Count	Size	'd' from Top
#1	2	5	2.00 in	#1	2	5	2.00 in	#1	2	5	2.00 in
#2	2	7	21.00 in	#2	2	7	21.00 in	#2	2	7	21.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design.
Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Uniform Loads

	Dead Load	Live Load	Short Term	Start	End
		k	k	0.000 ft	11.500 ft
#1	0.300 k				

Summary

Beam Design OK

Span = 11.50ft, Width= 8.00in Depth = 24.00in

Maximum Moment : Mu	11.42 k-ft	Maximum Deflection	-0.0067 in
Allowable Moment : Mn*phi	105.35 k-ft		
Maximum Shear : Vu	2.76 k	Max Reaction @ Left	2.84 k
Allowable Shear : Vn*phi	16.39 k	Max Reaction @ Right	2.84 k

Shear Stirrups...

Stirrup Area @ Section	0.440 in2						11.500 ft
Region	0.000	1.917	3.833	5.750	7.667	9.583	Not Req'd in
Max. Spacing	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	2.732 k
Max Vu	2.764	2.669	1.334	1.303	1.303	2.637	

Bending & Shear Force Summary

	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
Bending...		11.42 k-ft	8.56 k-ft	7.34 k-ft
@ Center	105.35 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Left End	105.35 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	105.35 k-ft			
	Vn*Phi	Vu, Eq. C-1	Vu, Eq. C-2	Vu, Eq. C-3
Shear...		2.76 k	2.07 k	1.78 k
@ Left End	16.39 k	2.73 k	2.05 k	1.76 k
@ Right End	16.39 k			

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0067 in	at	5.7500 ft
DL + LL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0067 in	at	5.7500 ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0067 in	at	5.7500 ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	2.837 k	2.837 k
DL + LL + [Bm Wt]	2.837 k	2.837 k
DL + LL + ST + [Bm Wt]	2.837 k	2.837 k

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Title : CANTOR Job # 13-0837
Dsgnr: Eduard C Badiu, P.E. Date: 8:59AM, 13 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Concrete Rectangular & Tee Beam Design

Description GB6

Section Analysis

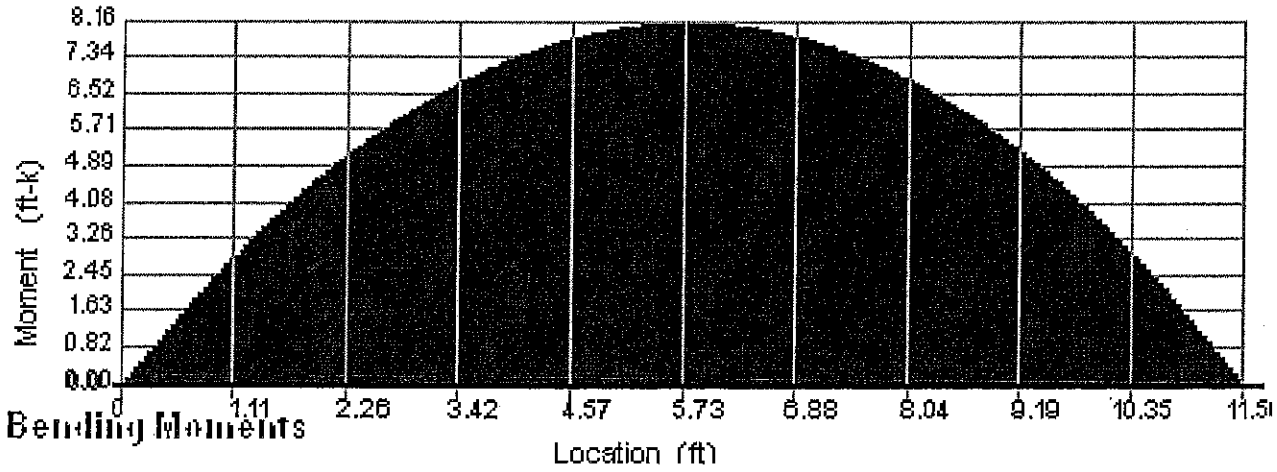
Evaluate Moment Capacity...	Center	Left End	Right End
X : Neutral Axis	3.125 in	3.125 in	3.125 in
a = beta * Xneutral	2.656 in	2.656 in	2.656 in
Compression in Concrete	54.187 k	54.187 k	54.187 k
Sum [Steel comp. forces]	17.837 k	17.837 k	17.837 k
Tension in Reinforcing	-72.000 k	-72.000 k	-72.000 k
Find Max As for Ductile Failure...			
X-Balanced	12.429 in	12.429 in	12.4286 in
Xmax = Xbal * 0.75	9.321 in	9.321 in	9.321 in
a-max = beta * Xbal	10.564 in	10.564 in	10.564 in
Compression in Concrete	161.634 k	161.634 k	161.634 k
Sum [Steel Comp Forces]	35.619 k	35.619 k	35.619 k
Total Compressive Force	197.253 k	197.253 k	197.253 k
AS Max = Tot Force / Fy	3.288 in2	3.288 in2	3.288 in2
Actual Tension As	1.200 OK	0.000 OK	0.000 OK

Additional Deflection Calcs

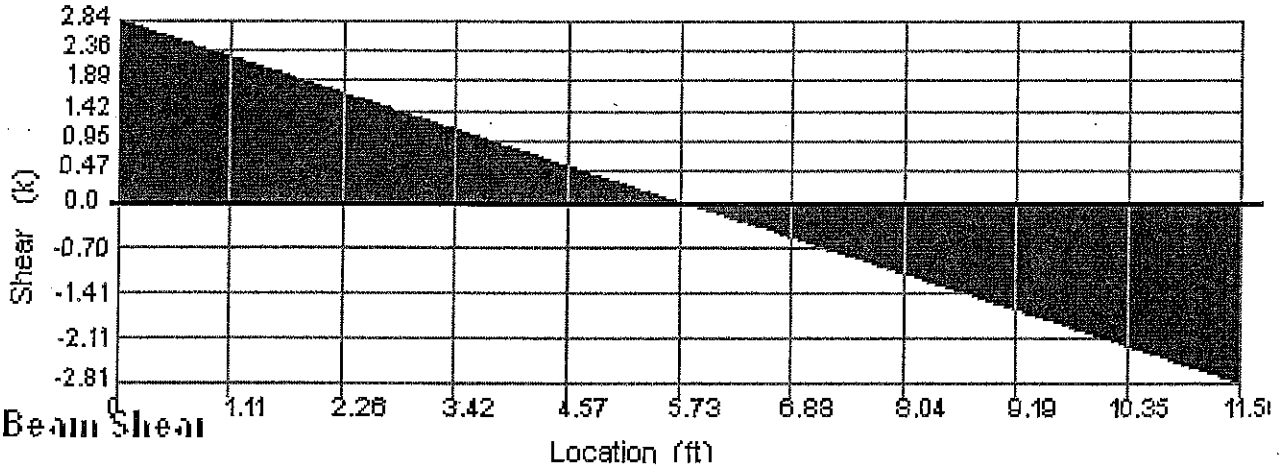
Neutral Axis	6.005 in	Mcr	26.29 k-ft
Igross	9,216.00 in4	Ms:Max DL + LL	8.16 k-ft
Icracked	3,176.14 in4	R1 = (Ms:DL+LL)/Mcr	3.224
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	8.16 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	3.224
Z:Cracking	22.626 k/in	I:eff... Ms(DL+LL)	9,216.000 in4
		I:eff... Ms(DL+LL+ST)	9,216.000 in4
Eff. Flange Width	8.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

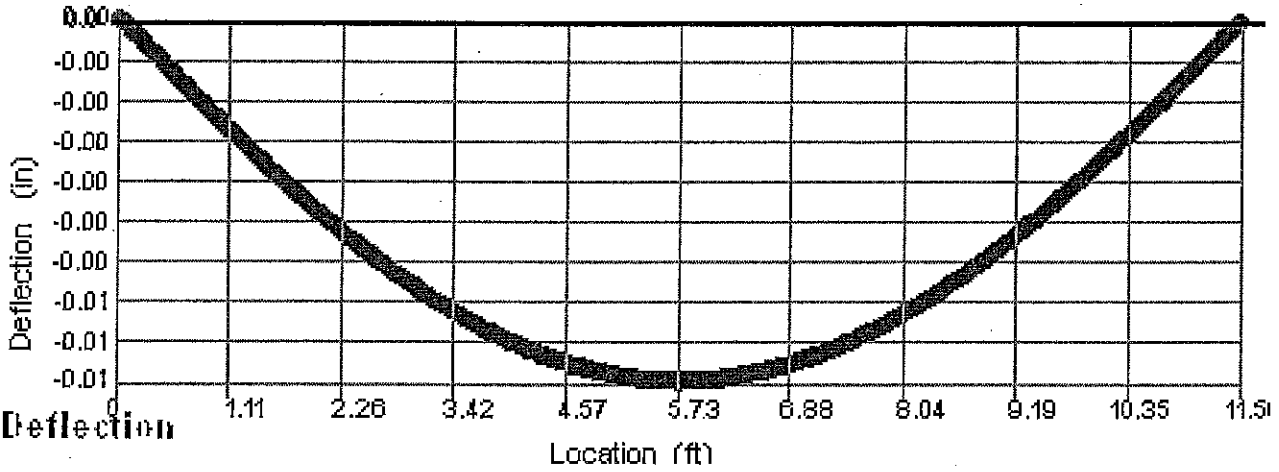
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add"l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add"l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



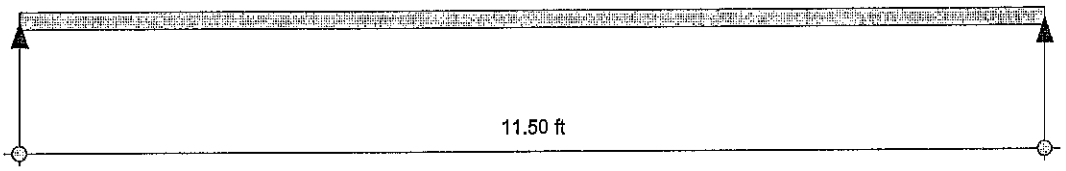
Bending Moments



Beam Shear



Deflection



Mu:Max = 11.41 k-ft

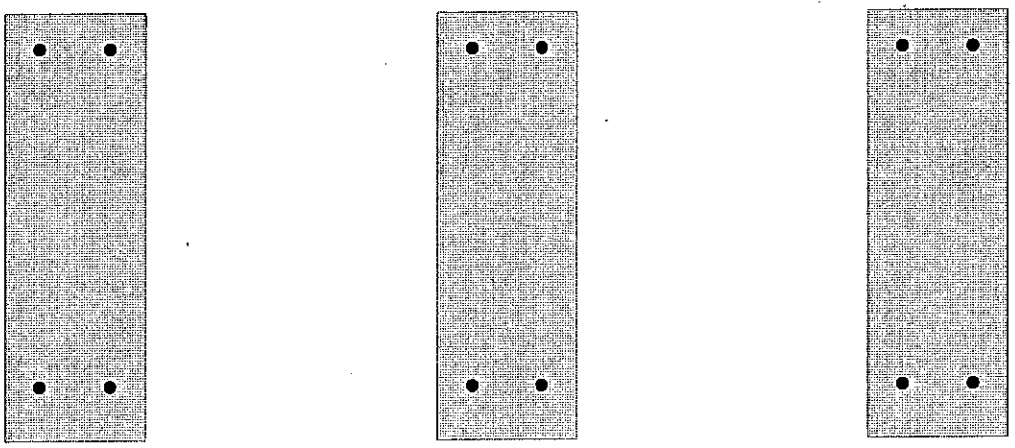
Dmax = 0.0067 in

Rmax = 2.836 k

Vu-Max = 2.764 k

Rmax = 2.836 k

Vu Max = 2.732 k



CANTOR GB7 LOADING (WALL, FLOOR, ROOF) CALC'S

8"x32"		2#7	2#5	2#7	DL	LL	WIND	
CMU WALL	3	65			195.00			
CONC BEAM 8"x12"	1	100.5			100.50			
1st FLOOR STRUCT SLAB DL		75			-			
1st FLOOR SLAB DL		20			-			
1st FLOOR SLAB LL			55			0		
ROOF DL		25			-			
ROOF LL			30		-	0		
ROOF WIND				21.8			0	
					295.50	**0**	**0**	

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(954) 581-7115 Phone
(954) 581-2415 Fax

Title : CANTOR Job # 13-0837
Dsgnr: Eduard C Badiu, P.E. Date: 9:04AM, 13 DEC 13
Description : 1201 N South Lake Drive HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Rev: 580010
User: KW-0607554, Ver 5.8.0, 1-Dec-2003
(c)1983-2003 ENERCALC Engineering Software

Concrete Rectangular & Tee Beam Design

Description GB7

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Span	11.00 ft	f'c	3,000 psi
Depth	32.000 in	Fy	60,000 psi
Width	8.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned
Beam Weight Added Internally		Live Load not acting with Short Term	

Reinforcing

Rebar @ Center of Beam...				Rebar @ Left End of Beam...				Rebar @ Right End of Beam...			
	Count	Size	'd' from Top		Count	Size	'd' from Top		Count	Size	'd' from Top
#1	2	7	2.00 in	#1	2	7	2.00 in	#1	2	7	2.00 in
#2	2	5	16.00 in	#2	2	5	16.00 in	#2	2	5	16.00 in
#3	2	7	29.00in	#3	2	7	29.00 in	#3	2	7	29.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design. Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Uniform Loads

	Dead Load	Live Load	Short Term	Start	End
#1	0.300 k	k	k	0.000 ft	11.000 ft

Summary

Beam Design OK

Span = 11.00ft, Width= 8.00in Depth = 32.00in

Maximum Moment : Mu	11.81 k-ft	Maximum Deflection	-0.0027 in
Allowable Moment : Mn*phi	186.94 k-ft		
Maximum Shear : Vu	2.44 k	Max Reaction @ Left	3.07 k
Allowable Shear : Vn*phi	22.35 k	Max Reaction @ Right	3.07 k

Shear Stirrups...

Stirrup Area @ Section	0.440 in2						
Region	0.000	1.833	3.667	5.500	7.333	9.167	11.000 ft
Max. Spacing	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd in
Max Vu	2.439	2.439	1.443	1.409	1.409	2.405	2.405 k

Bending & Shear Force Summary

Bending...	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
@ Center	186.94 k-ft	11.81 k-ft	8.86 k-ft	7.59 k-ft
@ Left End	186.94 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	186.94 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
Shear...	**Vn*Phi**	**Vu, Eq. C-**	**Vu, Eq. C-**	**Vu, Eq. C-**
@ Left End	22.35 k	2.44 k	1.83 k	1.57 k
@ Right End	22.35 k	2.41 k	1.80 k	1.55 k

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0027 in	at	5.5000 ft
DL + LL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0027 in	at	5.5000 ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0027 in	at	5.5000 ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	3.068 k	3.068 k
DL + LL + [Bm Wt]	3.068 k	3.068 k
DL + LL + ST + [Bm Wt]	3.068 k	3.068 k

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Title : CANTOR
Dsgnr: Eduard C Badiu, P.E.
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Job # 13-0837
Date: 9:04AM, 13 DEC 13

Rev: 580010
User: KW-0607554, Ver 5.8.0, 1-Dec-2003
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Concrete Rectangular & Tee Beam Design

Description GB7

Section Analysis

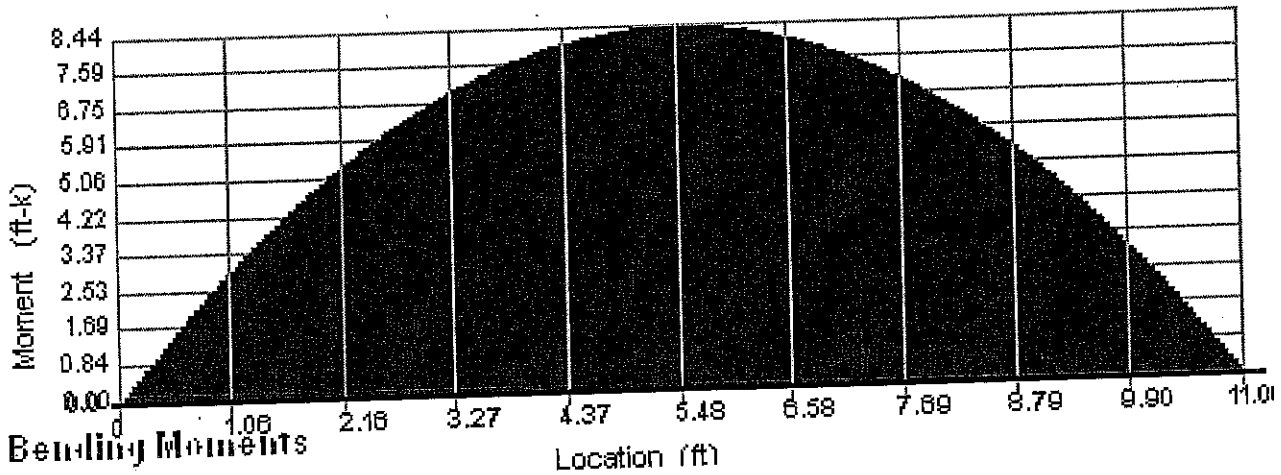
	Center	Left End	Right End
Evaluate Moment Capacity...			
X : Neutral Axis	3.705 in	3.705 in	3.705 in
a = beta * Xneutral	3.149 in	3.149 in	3.149 in
Compression in Concrete	64.245 k	64.245 k	64.245 k
Sum [Steel comp. forces]	44.984 k	44.984 k	44.984 k
Tension in Reinforcing	-109.200 k	-109.200 k	-109.200 k
Find Max As for Ductile Failure...			
X-Balanced	17.163 in	17.163 in	17.1633 in
Xmax = Xbal * 0.75	12.872 in	12.872 in	12.872 in
a-max = beta * Xbal	14.589 in	14.589 in	14.589 in
Compression in Concrete	223.208 k	223.208 k	223.208 k
Sum [Steel Comp Forces]	68.940 k	68.940 k	68.940 k
Total Compressive Force	292.148 k	292.148 k	292.148 k
AS Max = Tot Force / Fy	4.869 in2	4.869 in2	4.869 in2
Actual Tension As	1.820 OK	0.000 OK	0.000 OK

Additional Deflection Calcs

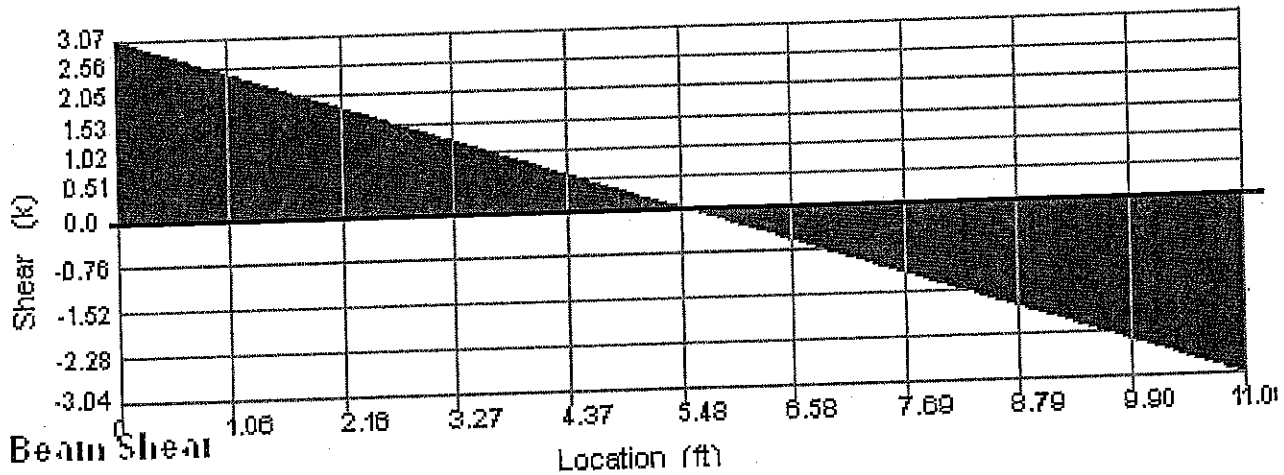
Neutral Axis	7.530 in	Mcr	46.74 k-ft
Igross	21,845.33 in4	Ms:Max DL + LL	8.44 k-ft
Icracked	7,030.75 in4	R1 = (Ms:DL+LL)/Mcr	5.540
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	8.44 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	5.540
Z:Cracking	16.347 k/in	I:eff... Ms(DL+LL)	21,845.333 in4
		I:eff... Ms(DL+LL+ST)	21,845.333 in4
Eff. Flange Width	8.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

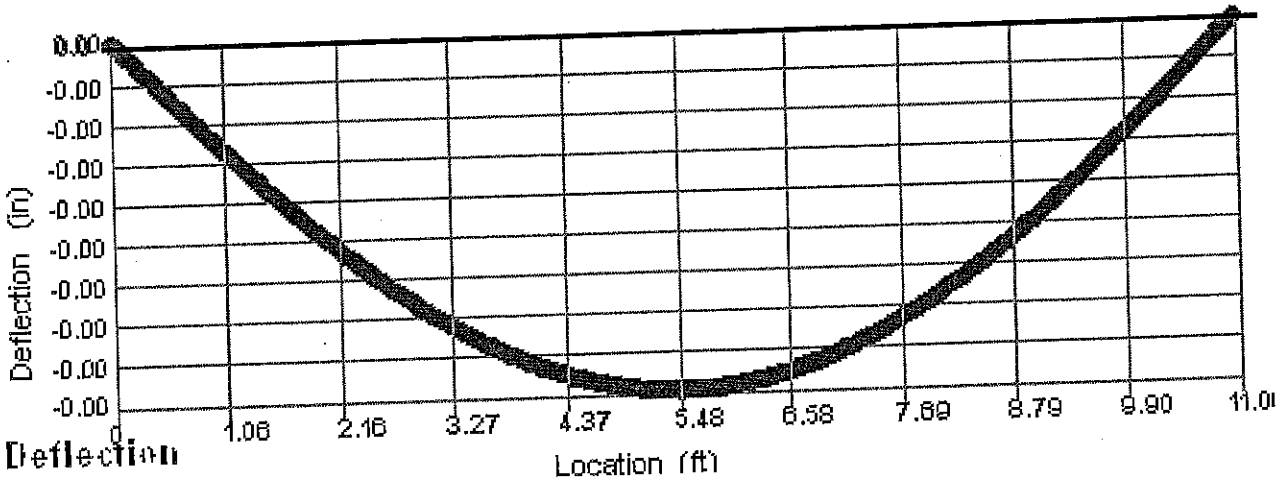
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add"l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add"l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



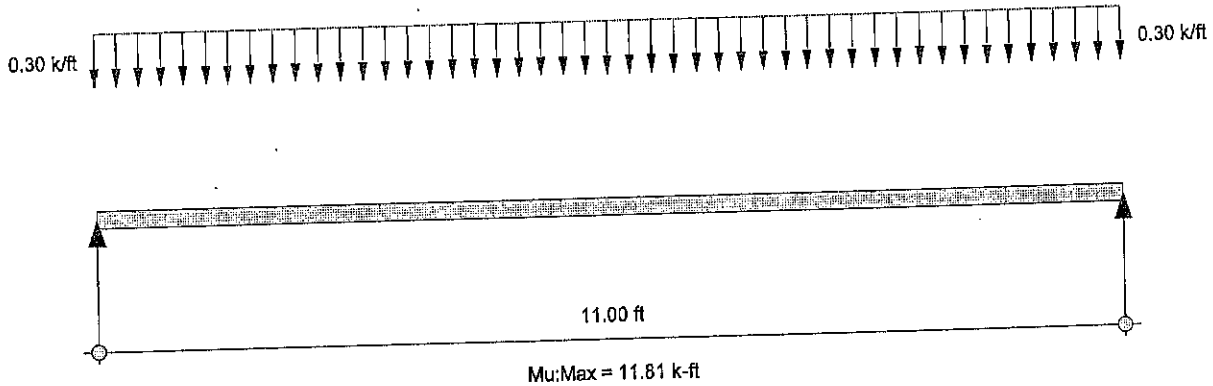
Bending Moments



Beam Shear



Deflection



Mu:Max = 11.81 k-ft

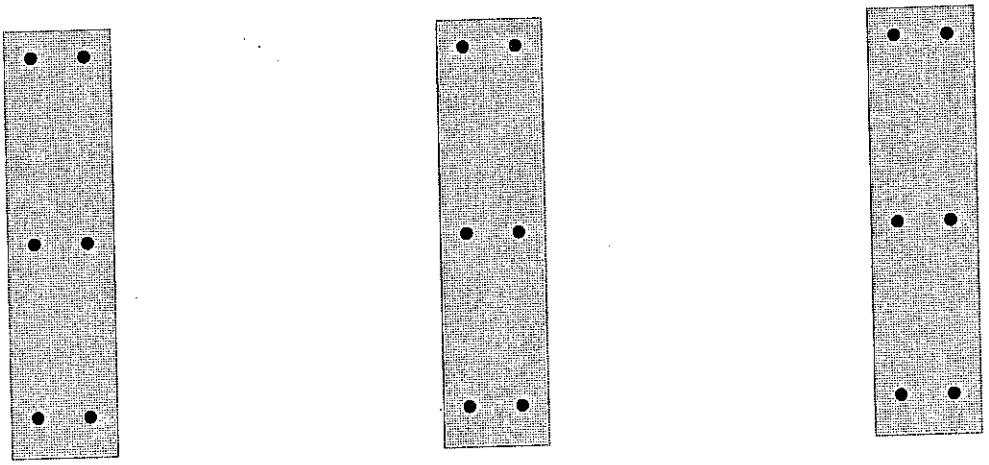
Dmax = 0.0026 in

Rmax = 3.067 k

Vu-Max = 2.439 k

Rmax = 3.067 k

Vu Max = 2.405 k



CANTOR GB8 LOADING (WALL, FLOOR, ROOF) CALC'S

12"x16"		2#7		2#7		DL	LL	WIND
CMU WALL		65				-		
CONC BEAM 8"x12"		100.5				-		
1st FLOOR STRUCT SLAB DL	7.5	75				562.50		
1st FLOOR SLAB DL	7.5	20				150.00		
1st FLOOR SLAB LL	7.5		100				750	
ROOF DL	8	25				200.00		
ROOF LL	8		30			-	240	
ROOF WIND	8			21.8				174.4
						912.50	**990**	**174.4**

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Title : CANTOR Job # 13-0837
Dsgnr: Eduard C Badiu, P.E. Date: 9:06AM, 13 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Concrete Rectangular & Tee Beam Design

Description GB8

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Span	9.00 ft	f'c	3,000 psi
Depth	16.000 in	Fy	60,000 psi
Width	12.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned

Beam Weight Added Internally
Live Load not acting with Short Term

Reinforcing

	Rebar @ Center of Beam...			Rebar @ Left End of Beam...			Rebar @ Right End of Beam...			
	Count	Size	'd' from Top	Count	Size	'd' from Top	Count	Size	'd' from Top	
#1	2	7	2.00 in	2	7	2.00 in	#1	2	7	2.00 in
#2	2	7	13.00 in	2	7	13.00 in	#2	2	7	13.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design. Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Uniform Loads

	Dead Load	Live Load	Short Term	Start	End
#1	0.920 k	1.000 k	0.180 k	0.000 ft	9.000 ft

Summary

Beam Design OK

Span = 9.00ft, Width= 12.00in Depth = 16.00in

Maximum Moment : Mu	32.99 k-ft	Maximum Deflection	-0.0358 in
Allowable Moment : Mn*phi	63.99 k-ft		
Maximum Shear : Vu	11.14 k	Max Reaction @ Left	9.51 k
Allowable Shear : Vn*phi	62.86 k	Max Reaction @ Right	9.51 k

Shear Stirrups...

Stirrup Area @ Section	0.440 in2						
Region	0.000	1.500	3.000	4.500	6.000	7.500	9.000 ft
Max. Spacing	6.500	6.500	Not Req'd	Not Req'd	Not Req'd	6.500	6.500 in
Max Vu	11.145	9.854	4.927	4.810	4.810	9.737	11.027 k

Bending & Shear Force Summary

Bending...	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
@ Center	63.99 k-ft	32.99 k-ft	14.16 k-ft	12.51 k-ft
@ Left End	63.99 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	63.99 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
Shear...	**Vn*Phi**	**Vu, Eq. C-**	**Vu, Eq. C-**	**Vu, Eq. C-**
@ Left End	62.86 k	11.14 k	4.78 k	4.23 k
@ Right End	62.86 k	11.03 k	4.73 k	4.18 k

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0129 in	at	4.5000 ft
DL + LL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0358 in	at	4.5000 ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0149 in	at	4.5000 ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	5.010 k	5.010 k
DL + LL + [Bm Wt]	9.510 k	9.510 k
DL + LL + ST + [Bm Wt]	5.820 k	5.820 k

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Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Description GB8

Section Analysis

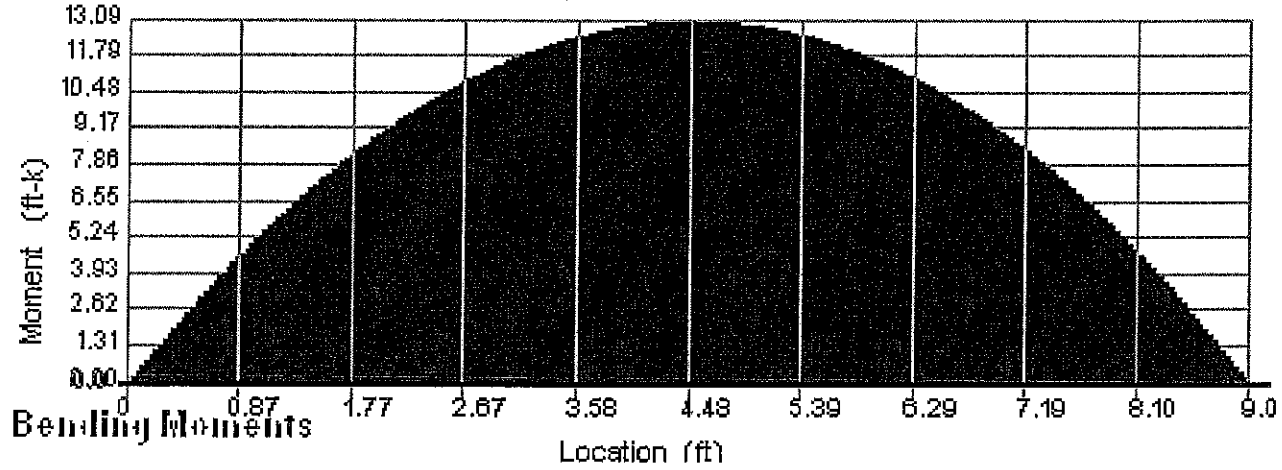
Evaluate Moment Capacity...	Center	Left End	Right End
X : Neutral Axis	2.325 in	2.325 in	2.325 in
a = beta * Xneutral	1.976 in	1.976 in	1.976 in
Compression in Concrete	60.473 k	60.473 k	60.473 k
Sum [Steel comp. forces]	11.534 k	11.534 k	11.534 k
Tension in Reinforcing	-72.000 k	-72.000 k	-72.000 k
Find Max As for Ductile Failure...			
X-Balanced	7.694 in	7.694 in	7.6939 in
Xmax = Xbal * 0.75	5.770 in	5.770 in	5.770 in
a-max = beta * Xbal	6.540 in	6.540 in	6.540 in
Compression in Concrete	150.088 k	150.088 k	150.088 k
Sum [Steel Comp Forces]	65.155 k	65.155 k	65.155 k
Total Compressive Force	215.244 k	215.244 k	215.244 k
AS Max = Tot Force / Fy	3.587 in2	3.587 in2	3.587 in2
Actual Tension As	1.200 OK	0.000 OK	0.000 OK

Additional Deflection Calcs

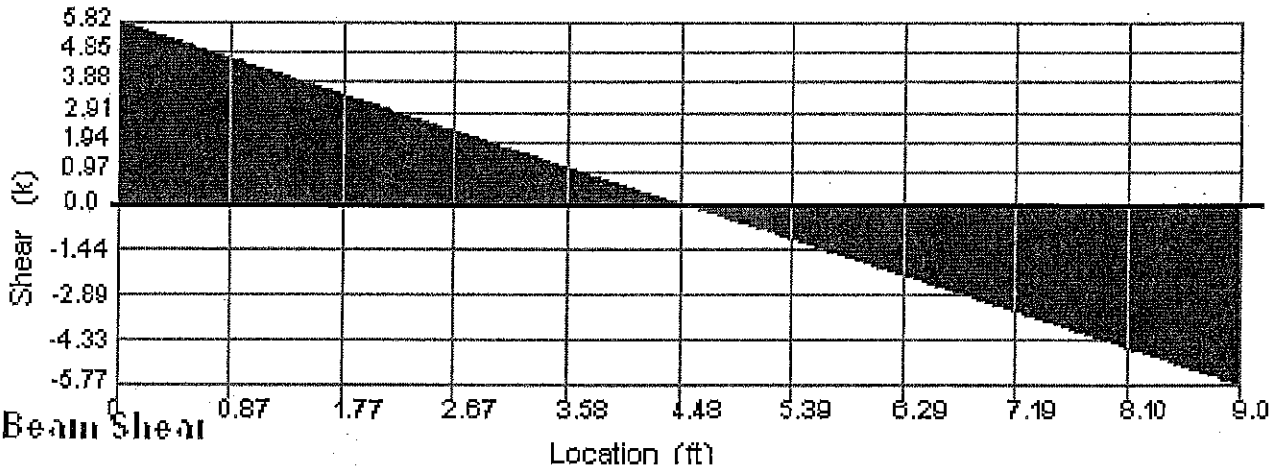
Neutral Axis	3.740 in	Mcr	17.53 k-ft
Igross	4,096.00 in4	Ms:Max DL + LL	23.22 k-ft
Icracked	1,198.80 in4	R1 = (Ms:DL+LL)/Mcr	0.755
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	13.09 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	1.338
Z:Cracking	110.042 k/in	I:eff... Ms(DL+LL)	2,444.817 in4
		I:eff... Ms(DL+LL+ST)	4,096.000 in4
Eff. Flange Width	12.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

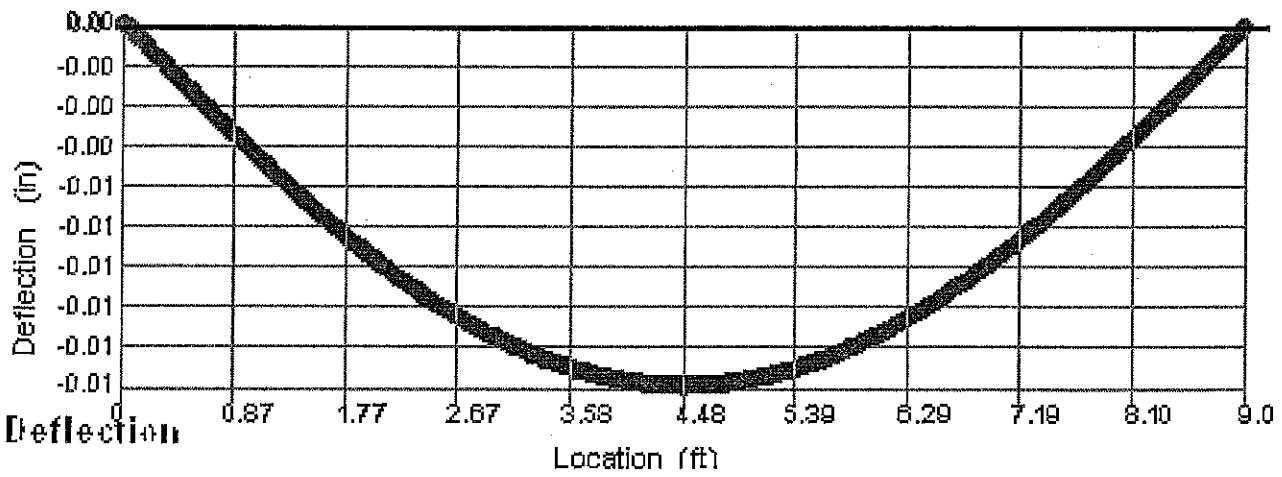
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add'l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add'l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



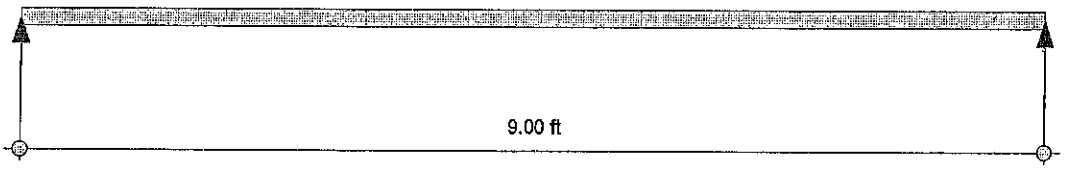
Bending Moments



Beam Shear



Deflection



Mu:Max = 32.99 k-ft

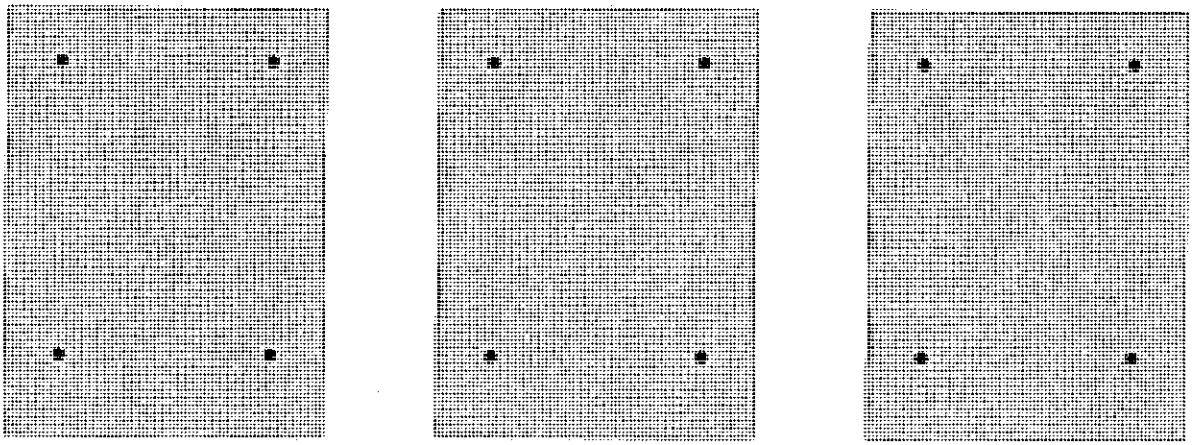
Dmax = 0.0358 in

Rmax = 9.509 k

Vu-Max = 11.144 k

Rmax = 9.509 k

Vu Max = 11.027 k



CANTOR GB9 LOADING (WALL, FLOOR, ROOF) CALC'S

8"x16"	2#7		2#7					
					DL	**LL**	**WIND**	
CMU WALL	3	65			195.00			
CONC BEAM 8"x12"	3	100.5			301.50			
1st FLOOR STRUCT SLAB DL	0	75			-			
1st FLOOR SLAB DL	0	20			-			
1st FLOOR SLAB LL	0		55			0		
ROOF DL	0	25			-			
ROOF LL	0		30		-	0		
ROOF WIND	0			21.8			0	
					496.50	**0**	**0**	

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Dsgnr: Eduard C Badiu, P.E. Date: 9:11AM, 13 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Concrete Rectangular & Tee Beam Design

Description GB9

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Span	12.00 ft	f'c	3,000 psi
Depth	16.000 in	Fy	60,000 psi
Width	8.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned
Beam Weight Added Internally		Live Load not acting with Short Term	

Reinforcing

	Rebar @ Center of Beam...			Rebar @ Left End of Beam...				Rebar @ Right End of Beam...			
	Count	Size	'd' from Top		Count	Size	'd' from Top		Count	Size	'd' from Top
#1	2	7	2.00 in	#1	2	7	2.00 in	#1	2	7	2.00 in
#2	2	7	13.00 in	#2	2	7	13.00 in	#2	2	7	13.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design. Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Uniform Loads

	Dead Load	Live Load	Short Term	Start	End
#1	0.500 k	k	k	0.000 ft	12.000 ft

Summary

Beam Design OK

Span = 12.00ft, Width= 8.00in Depth = 16.00in

Maximum Moment : Mu	15.85 k-ft	Maximum Deflection	-0.0344 in
Allowable Moment : Mn*phi	62.37 k-ft		
Maximum Shear : Vu	4.35 k	Max Reaction @ Left	3.77 k
Allowable Shear : Vn*phi	10.43 k	Max Reaction @ Right	3.77 k

Shear Stirrups...

Stirrup Area @ Section 0.440 in2

Region	0.000	2.000	4.000	6.000	8.000	10.000	12.000 ft
Max. Spacing	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd in
Max Vu	4.353	3.550	1.775	1.733	1.733	3.508	4.311 k

Bending & Shear Force Summary

Bending...	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
@ Center	62.37 k-ft	15.85 k-ft	11.89 k-ft	10.19 k-ft
@ Left End	62.37 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	62.37 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
Shear...	**Vn*Phi**	**Vu, Eq. C-**	**Vu, Eq. C-**	**Vu, Eq. C-**
@ Left End	10.43 k	4.35 k	3.26 k	2.80 k
@ Right End	10.43 k	4.31 k	3.23 k	2.77 k

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	12.0000 ft	-0.0344 in	at	6.0000 ft
DL + LL + [Bm Wt]	0.0000 in	at	12.0000 ft	-0.0344 in	at	6.0000 ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	12.0000 ft	-0.0344 in	at	6.0000 ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	3.773 k	3.773 k
DL + LL + [Bm Wt]	3.773 k	3.773 k
DL + LL + ST + [Bm Wt]	3.773 k	3.773 k

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HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Concrete Rectangular & Tee Beam Design

Description GB9

Section Analysis

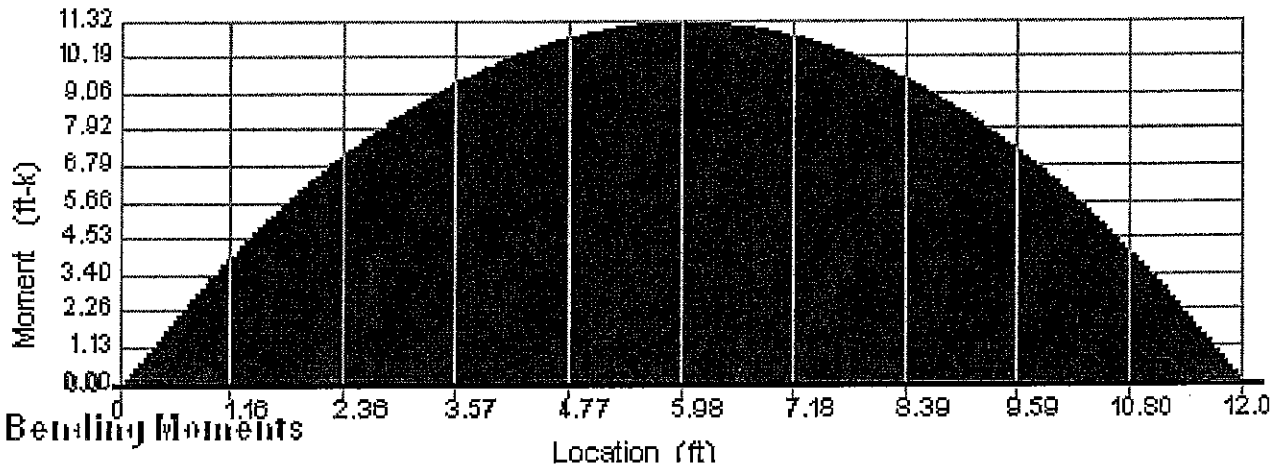
Evaluate Moment Capacity...	Center	Left End	Right End
X : Neutral Axis	2.725 in	2.725 in	2.725 in
a = beta * Xneutral	2.316 in	2.316 in	2.316 in
Compression in Concrete	47.251 k	47.251 k	47.251 k
Sum [Steel comp. forces]	24.716 k	24.716 k	24.716 k
Tension in Reinforcing	-72.000 k	-72.000 k	-72.000 k
Find Max As for Ductile Failure...			
X-Balanced	7.694 in	7.694 in	7.6939 in
Xmax = Xbal * 0.75	5.770 in	5.770 in	5.770 in
a-max = beta * Xbal	6.540 in	6.540 in	6.540 in
Compression In Concrete	100.059 k	100.059 k	100.059 k
Sum [Steel Comp Forces]	65.155 k	65.155 k	65.155 k
Total Compressive Force	165.214 k	165.214 k	165.214 k
AS Max = Tot Force / Fy	2.754 in2	2.754 in2	2.754 in2
Actual Tension As	1.200 **OK**	0.000 **OK**	0.000 **OK**

Additional Deflection Calcs

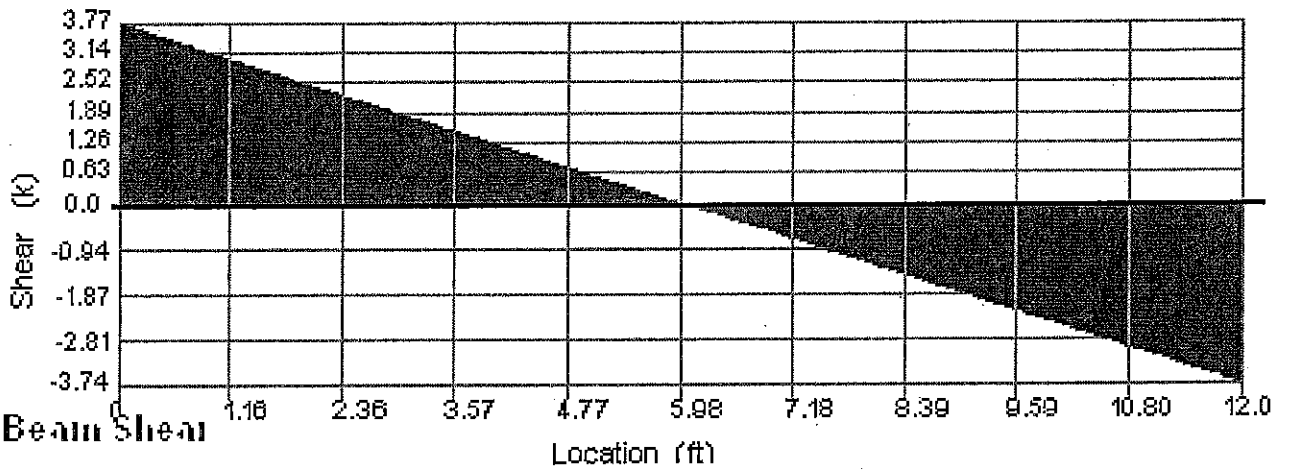
Neutral Axis	4.255 in	Mcr	11.68 k-ft
Igross	2,730.67 in4	Ms:Max DL + LL	11.32 k-ft
Icracked	1,114.55 in4	R1 = (Ms:DL+LL)/Mcr	1.032
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	11.32 k-ft
Fr = 7.5 * fc^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	1.032
Z:Cracking	53.851 k/in	I:eff... Ms(DL+LL)	2,730.667 in4
		I:eff... Ms(DL+LL+ST)	2,730.667 in4
Eff. Flange Width	8.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

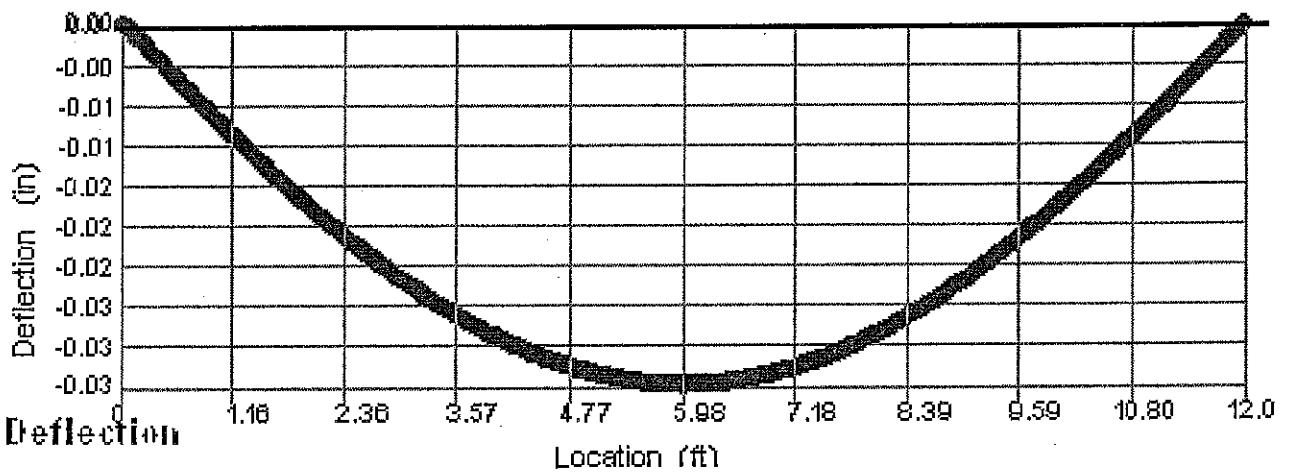
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add"l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add"l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



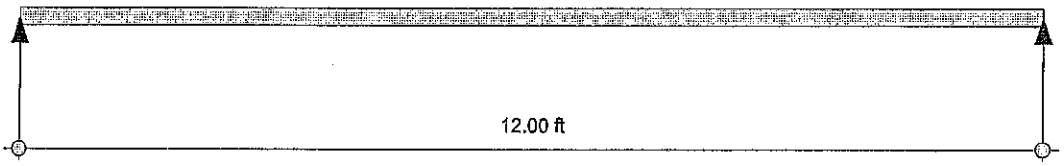
Bending Moments



Beam Shear



Deflection



Mu:Max = 15.84 k-ft

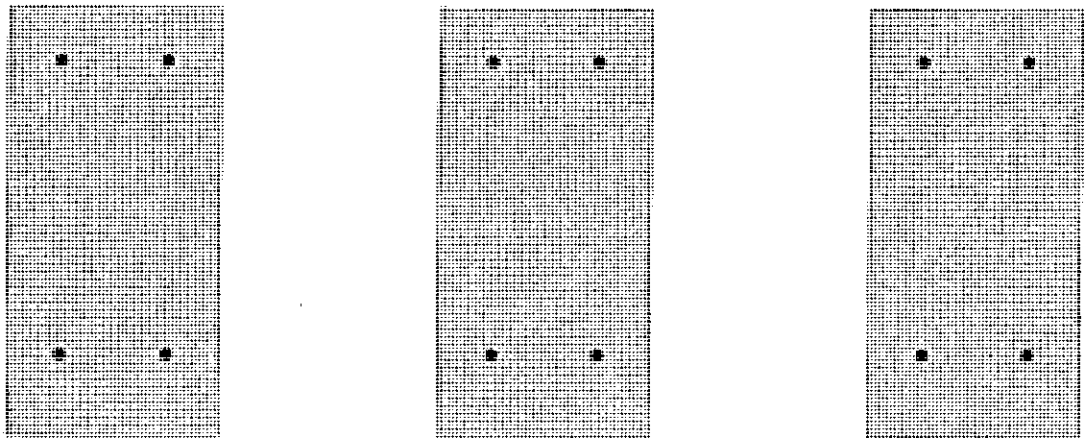
Dmax = 0.0344 in

Rmax = 3.773 k

Vu-Max = 4.352 k

Rmax = 3.773 k

Vu Max = 4.310 k



CANTOR GB11 LOADING (WALL, FLOOR, ROOF) CALC'S

12"x16"		2#7		2#7			
					DL	**LL**	**WIND**
CMU WALL		65			-		
CONC BEAM 8"x12"		100.5			-		
1st FLOOR STRUCT SLAB DL	7.5	75			562.50		
1st FLOOR SLAB DL	7.5	20			150.00		
1st FLOOR SLAB LL	7.5		100			750	
ROOF DL	8	25			200.00		
ROOF LL	8		30		-	240	
ROOF WIND	8			21.8			174.4
					912.50	**990**	**174.4**

CeBB Engineering & Testing Co.
7450 Griffin Road, Suite 140
Fort Lauderdale, FL. 33314
(954) 581-7115 Phone
(954) 581-2415 Fax

Title : CANTOR Job # 13-0837
Dsgnr: Eduard C Badiu, P.E. Date: 9:13AM, 13 DEC 13
Description : 1201 N South Lake Drive HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

(64)

Concrete Rectangular & Tee Beam Design

Description GB11

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Span	7.33 ft	f'c	3,000 psi
Depth	16.000 in	Fy	60,000 psi
Width	12.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned
Beam Weight Added Internally		Live Load acts with Short Term	

Reinforcing

Rebar @ Center of Beam...				Rebar @ Left End of Beam...				Rebar @ Right End of Beam...			
	Count	Size	'd' from Top		Count	Size	'd' from Top		Count	Size	'd' from Top
#1	2	7	2.00in	#1	2	7	2.00 in	#1	2	7	2.00 in
#2	2	7	13.00 in	#2	2	7	13.00 in	#2	2	7	13.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design. Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Uniform Loads

	Dead Load	Live Load	Short Term	Start	End
#1	0.920 k	1.000 k	0.180 k	0.000 ft	7.330 ft

Summary

Beam Design OK

Span = 7.33ft, Width= 12.00in Depth = 16.00in

Maximum Moment : Mu	21.89 k-ft	Maximum Deflection	-0.0116 in
Allowable Moment : Mn*phi	63.99 k-ft		
Maximum Shear : Vu	8.50 k	Max Reaction @ Left	8.41 k
Allowable Shear : Vn*phi	62.86 k	Max Reaction @ Right	8.41 k

Shear Stirrups...
Stirrup Area @ Section 0.440 in2

Region	0.000	1.222	2.443	3.665	4.887	6.108	7.330 ft
Max. Spacing	6.500	6.500	Not Req'd	Not Req'd	Not Req'd	6.500	6.500 in
Max Vu	8.503	8.026	4.013	3.917	3.917	7.930	8.408 k

Bending & Shear Force Summary

Bending...	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
@ Center	63.99 k-ft	21.89 k-ft	17.96 k-ft	8.30 k-ft
@ Left End	63.99 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	63.99 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
Shear...	**Vn*Phi**	**Vu, Eq. C-**	**Vu, Eq. C-**	**Vu, Eq. C-**
@ Left End	62.86 k	8.50 k	6.98 k	3.23 k
@ Right End	62.86 k	8.41 k	6.90 k	3.19 k

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	7.3300 ft	-0.0057 in	at	3.6650 ft
DL + LL + [Bm Wt]	0.0000 in	at	7.3300 ft	-0.0107 in	at	3.6650 ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	7.3300 ft	-0.0116 in	at	3.6650 ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	4.080 k	4.080 k
DL + LL + [Bm Wt]	7.745 k	7.745 k
DL + LL + ST + [Bm Wt]	8.405 k	8.405 k

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Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Concrete Rectangular & Tee Beam Design

Description GB11

Section Analysis

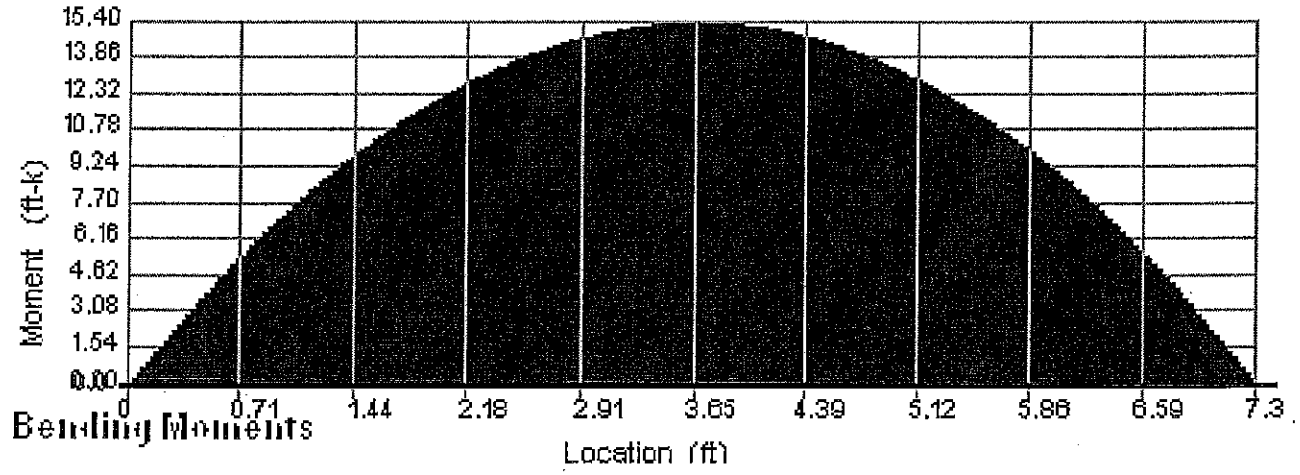
Evaluate Moment Capacity...	Center	Left End	Right End
X : Neutral Axis	2.325 in	2.325 in	2.325 in
a = beta * Xneutral	1.976 in	1.976 in	1.976 in
Compression in Concrete	60.473 k	60.473 k	60.473 k
Sum [Steel comp. forces]	11.534 k	11.534 k	11.534 k
Tension in Reinforcing	-72.000 k	-72.000 k	-72.000 k
Find Max As for Ductile Failure...			
X-Balanced	7.694 in	7.694 in	7.6939 in
Xmax = Xbal * 0.75	5.770 in	5.770 in	5.770 in
a-max = beta * Xbal	6.540 in	6.540 in	6.540 in
Compression in Concrete	150.088 k	150.088 k	150.088 k
Sum [Steel Comp Forces]	65.155 k	65.155 k	65.155 k
Total Compressive Force	215.244 k	215.244 k	215.244 k
AS Max = Tot Force / Fy	3.587 in2	3.587 in2	3.587 in2
Actual Tension As	1.200 OK	0.000 OK	0.000 OK

Additional Deflection Calcs

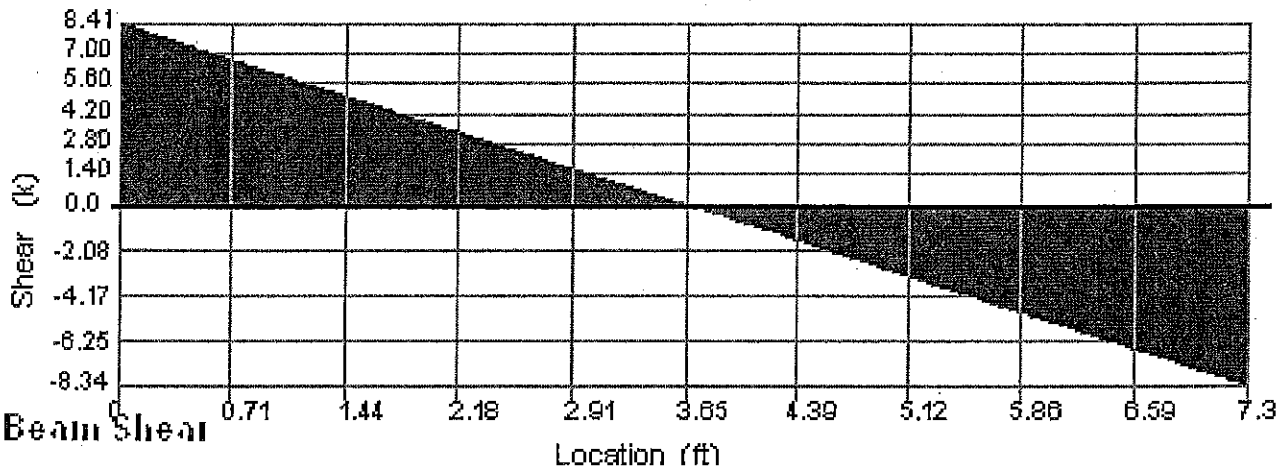
Neutral Axis	3,740 in	Mcr	17.53 k-ft
Igross	4,096.00 in4	Ms:Max DL + LL	15.40 k-ft
Icracked	1,198.80 in4	R1 = (Ms:DL+LL)/Mcr	1.138
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	15.40 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	1.138
Z:Cracking	79.210 k/in	I:eff... Ms(DL+LL)	4,096.000 in4
		I:eff... Ms(DL+LL+ST)	4,096.000 in4
Eff. Flange Width	12.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

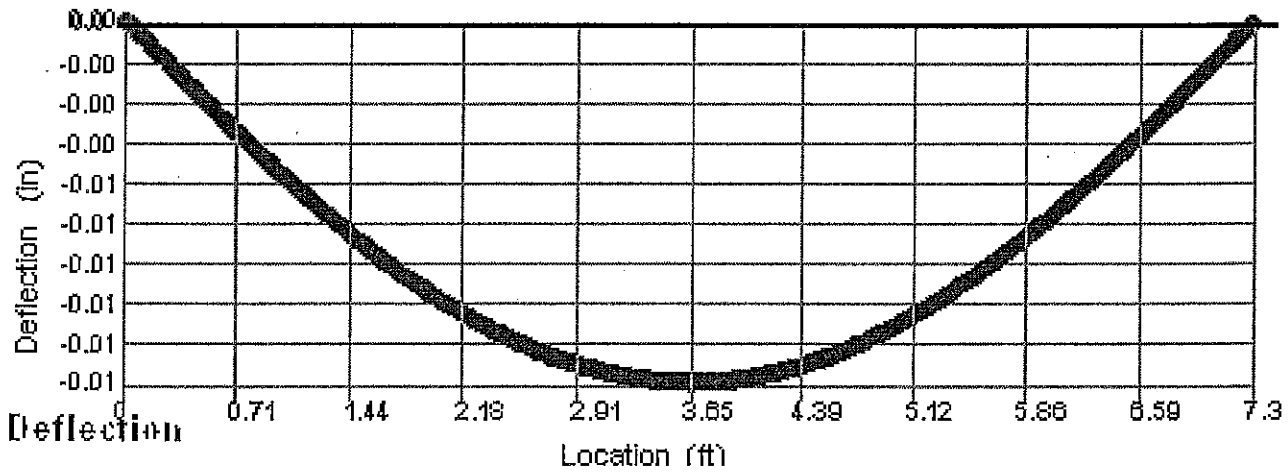
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add'l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add'l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



Bending Moments



Beam Shear



Deflection

CeBB Engineering & Testing Co.
7450 Griffin Road, Suite 140
Fort Lauderdale, FL. 33314
(954) 581-7115 Phone
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Title : CANTOR Job # 13-0837
Dsgnr: Eduard C Badiu, P.E. Date: 9:24AM, 13 DEC 13
Description : 1201 N South Lake Drive HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Rev: 580010
User: KW-0607554, Ver 5.8.0, 1-Dec-2003
(c)1983-2003 ENERCALC Engineering Software

Concrete Rectangular & Tee Beam Design

Description GB12

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Span	10.50 ft	f'c	3,000 psi
Depth	12.000 in	Fy	60,000 psi
Width	24.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Pinned-Pinned
Beam Weight Added Internally		Live Load acts with Short Term	

Reinforcing

Rebar @ Center of Beam...				Rebar @ Left End of Beam...				Rebar @ Right End of Beam...			
	Count	Size	'd' from Top		Count	Size	'd' from Top		Count	Size	'd' from Top
#1	3	5	2.00in	#1	3	5	2.00 in	#1	3	5	2.00 in
#2	4	5	7.00 in	#2	4	5	7.00 in	#2	4	5	7.00 in
#3	4	5	9.00in	#3	4	5	9.00 in	#3	4	5	9.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design. Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Summary

Beam Design OK

Span = 10.50ft, Width= 24.00in Depth = 12.00in

Maximum Moment : Mu	5.60 k-ft	Maximum Deflection	-0.0074 in
Allowable Moment : Mn*phi	76.09 k-ft		
Maximum Shear : Vu	1.84 k	Max Reaction @ Left	1.52 k
Allowable Shear : Vn*phi	22.35 k	Max Reaction @ Right	1.52 k

Shear Stirrups...

Stirrup Area @ Section 0.440 in2

Region	0.000	1.750	3.500	5.250	7.000	8.750	10.500 ft
Max. Spacing	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd	Not Req'd in
Max Vu	1.842	1.432	0.716	0.699	0.699	1.415	1.825 k

Bending & Shear Force Summary

Bending...	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
@ Center	76.09 k-ft	5.60 k-ft	4.20 k-ft	3.60 k-ft
@ Left End	76.09 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
@ Right End	76.09 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
Shear...	**Vn*Phi**	**Vu, Eq. C-**	**Vu, Eq. C-**	**Vu, Eq. C-**
@ Left End	22.35 k	1.84 k	1.38 k	1.18 k
@ Right End	22.35 k	1.82 k	1.37 k	1.17 k

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0074 in	at	5.2500ft
DL + LL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0074 in	at	5.2500ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0074 in	at	5.2500ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	1.522 k	1.522 k
DL + LL + [Bm Wt]	1.522 k	1.522 k
DL + LL + ST + [Bm Wt]	1.522 k	1.522 k

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Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Concrete Rectangular & Tee Beam Design

Description GB12

Section Analysis

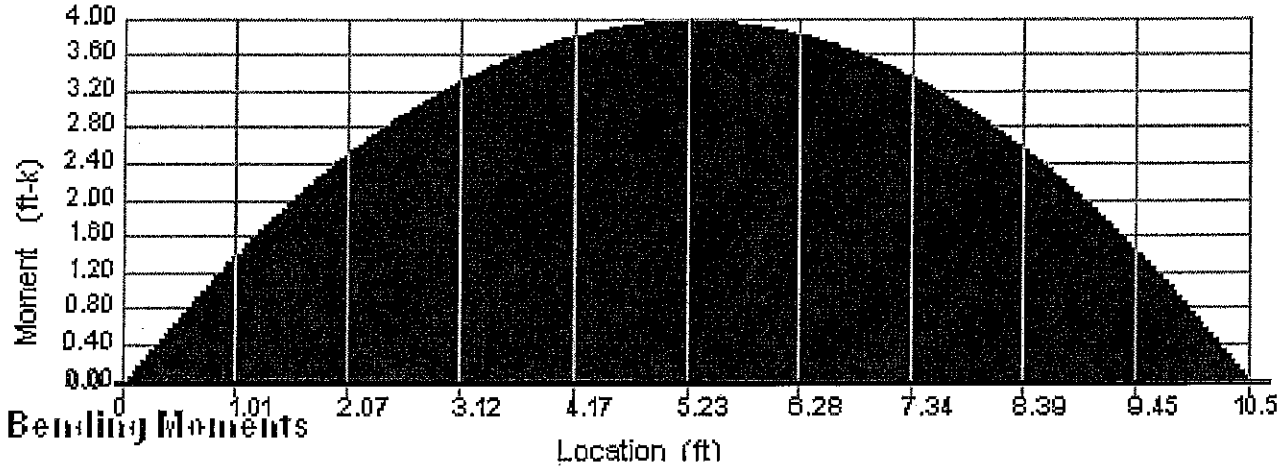
Evaluate Moment Capacity...	Center	Left End	Right End
X : Neutral Axis	2.565 in	2.565 in	2.565 in
a = beta * Xneutral	2.180 in	2.180 in	2.180 in
Compression in Concrete	133.431 k	133.431 k	133.431 k
Sum [Steel comp. forces]	15.451 k	15.451 k	15.451 k
Tension in Reinforcing	-148.800 k	-148.800 k	-148.800 k
Find Max As for Ductile Failure...			
X-Balanced	5.327 in	5.327 in	5.3265 in
Xmax = Xbal * 0.75	3.995 in	3.995 in	3.995 in
a-max = beta * Xbal	4.528 in	4.528 in	4.528 in
Compression in Concrete	207.815 k	207.815 k	207.815 k
Sum [Steel Comp Forces]	38.032 k	38.032 k	38.032 k
Total Compressive Force	245.846 k	245.846 k	245.846 k
AS Max = Tot Force / Fy	4.097 in2	4.097 in2	4.097 in2
Actual Tension As	2.480 OK	0.000 OK	0.000 OK

Additional Deflection Calcs

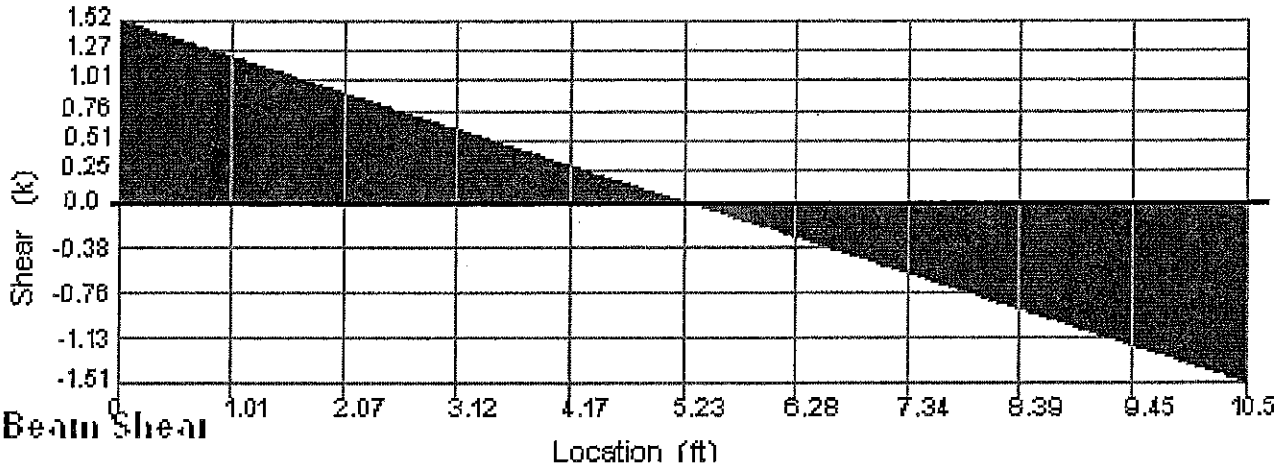
Neutral Axis	2.990 in	Mcr	19.72 k-ft
Igross	3,456.00 in4	Ms:Max DL + LL	4.00 k-ft
Icracked	823.57 in4	R1 = (Ms:DL+LL)/Mcr	4.934
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	4.00 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	4.934
Z:Cracking	17.674 k/in	I:eff... Ms(DL+LL)	3,456.000 in4
		I:eff... Ms(DL+LL+ST)	3,456.000 in4
Eff. Flange Width	24.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

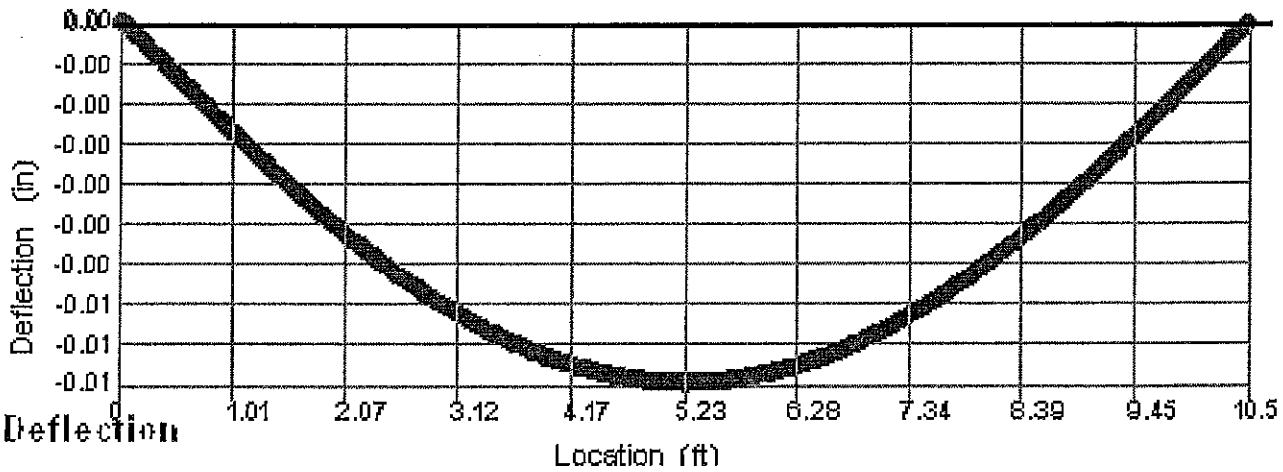
ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add"l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add"l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				



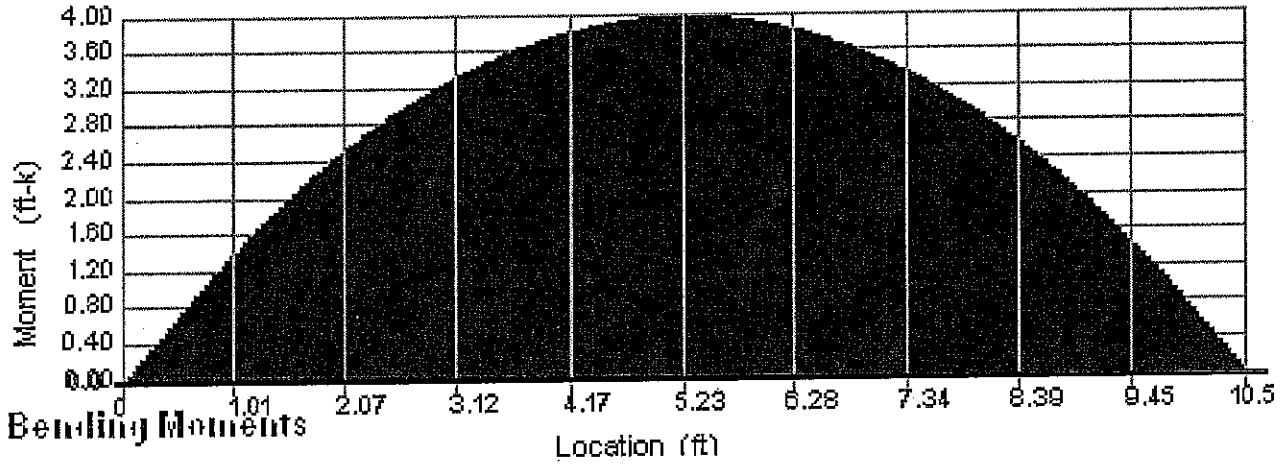
Bending Moments



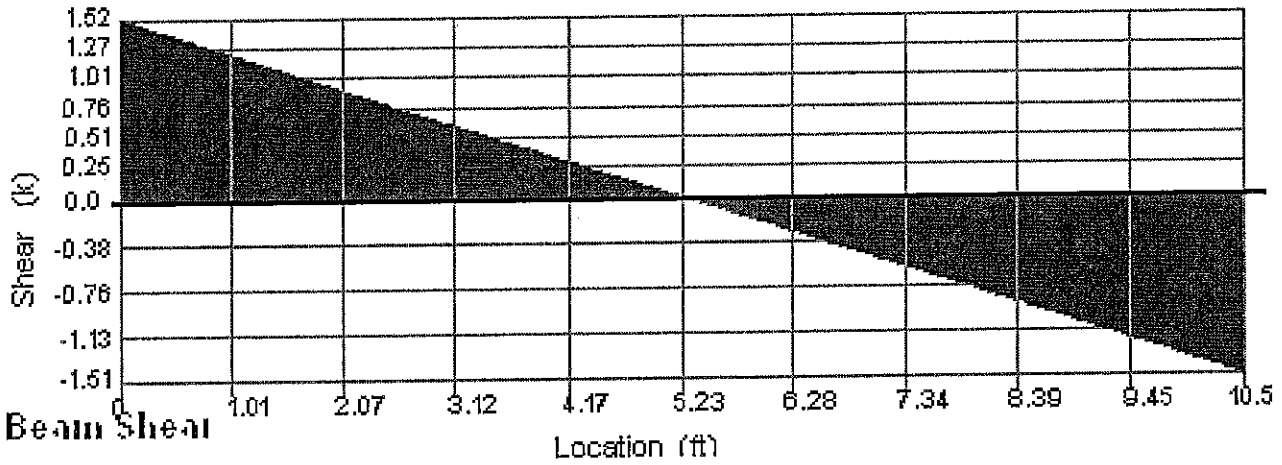
Beam Shear



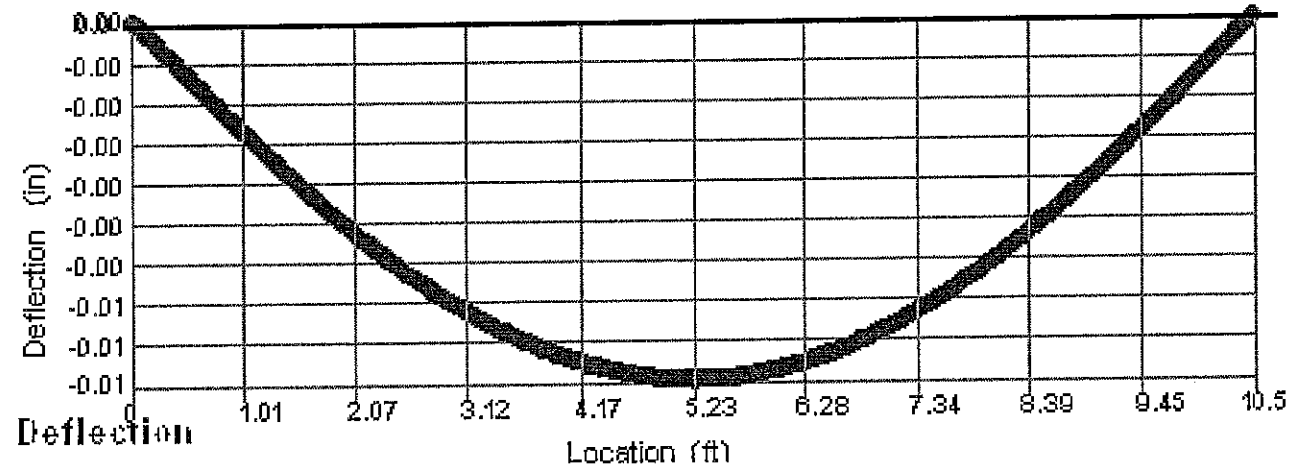
Deflection



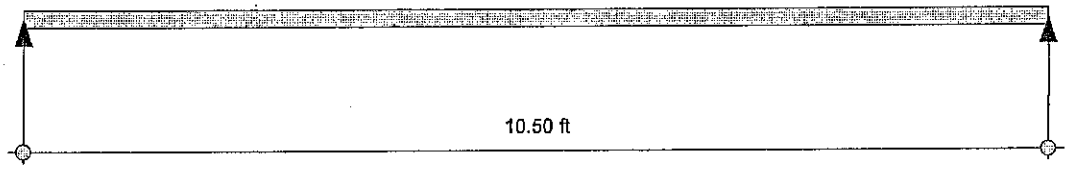
Bending Moments



Beam Shear



Deflection



Mu:Max = 5.59 k-ft

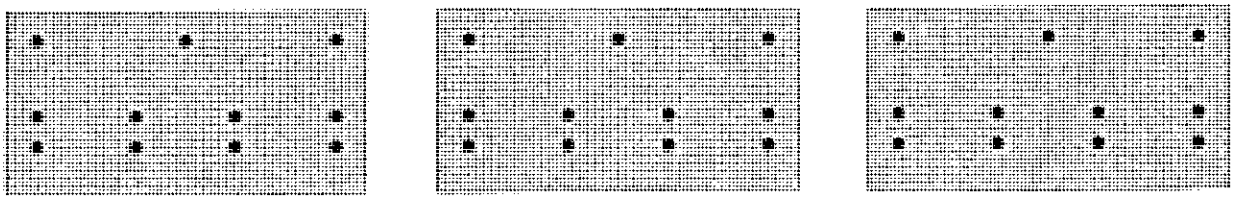
Dmax = 0.0073 in

Rmax = 1.522 k

Vu-Max = 1.841 k

Rmax = 1.522 k

Vu Max = 1.824 k



MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Republic Doors and Frame, Inc.
155 Republic Drive
McKenzie, TN 38201

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).
This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "DL418" Outswing Flush Commercial Steel 18 ga Doors w/ 16 ga Frames-Impact

APPROVAL DOCUMENT: Drawing No. **RDF-002 Rev E**, titled "DL418 Steel Flush Door", sheets 1 through 10 of 10, prepared by Building Drops, Inc., dated 11/19/08 and last revised on 09-20-12, signed and sealed by Hermes F. Norero, P. E. , bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:
1. Existing construction: Bldg official to verify the existing frame meeting the frame material (sheet 1) and frame anchor installation thru pipe or channel and additional anchor per detail "W" per sheet 6 of this approval.
2. Series HCF2100 Precision (Stanley Security Solution) Rim Panic item #8F to be used with Precision HC822 mullion item #25 along with mullion reinforcement item #26 (For double doors application only).
3. Refer to Bill of materials & cross-sections for additional reinforcements at lock stiles, hinge stiles and jambs.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **revises NOA # 09-1210.01 (Former Winsor Republic Door, Inc.)** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq L Chanda, P.E.**

APPROVED
MAY 2 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

MIAMI-DADE COUNTY
APPROVED

4/28/12

REVIEWED & APPD
12.17.13

NOA No. 12-0604.12
Expiration Date: February 03, 2015
Approval Date: September 27, 2012

Republic Doors and Frame, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (submitted under file # **09-1210.01**)
2. Drawing No. **RDF-002 Rev E**, titled "DL418 Steel Flush Door", sheets 1 through 10 of 10, prepared by Building Drops, Inc., dated 11/19/08 and last revised on 09-20-12, signed and sealed by Hermes F. Norero, P.E.

Note: This revision consists of FBC 2010 notes only.

B. TESTS (submitted under file # **09-1210.01**)

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test per FBC TAS 202-94 (Not Performed).
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

   Along with marked-up drawings and installation diagram of Double Outswing Flush Commercial Steel Doors, prepared by Intertek Testing services., Test Report No. **3058531,** dated February 24, 2005 (This test report was last revised on 04/09/07) , signed and sealed by Leo Schlimgen, P. E.
2. Additional reference Intertek test report # **3080611**, dated **01/19/06** per TAS 201, 202 & 203, signed & sealed by Rick Curkeet, P.E.

C. CALCULATIONS

1. Anchor verification calculations, complying with FBC-2010 dated 05-25-12, prepared by Building Drops, Inc., signed and sealed by Hermes F. Norero, P.E.
2. Anchor verification calculations complying w/ FBC 2007, dated 03/30/09, 10/12/09, 11/29/09 and last revised on 01/06/2010, prepared by CertWorks Inc., signed and sealed by Kristina S. Daugherty, P.E. (submitted under file # **09-1210.01**)

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Tensile test report prepared by prepared by Intertek Testing Services, Test Report No. **3058531,** tested per ASTM E8, dated 12/27/04 signed and sealed by Leo Schlimgen, P. E.

F. STATEMENTS

1. Statesman letter of conformance to FBC 2010 and "No financial interest", dated 03/28/12, signed and sealed by Hermes F. Norero, P. E.
2. Statesman letter of conformance to FBC 2007 and "No financial interest", dated 03/30/09, signed and sealed by Kristina S. Daugherty, P. E. (submitted under file # **09-0604.12**)
3. Lab compliance as part of the above referenced test reports.
4. Statement of Name change, dated July 25, 2012 by Republic Doors & Frames, signed by Steven Hugueley, Senior Engineer Republic Doors
5. Amendment of Article # **201124900304,** dated 09/02/11 issued by State of Ohio to Republic Doors & Frame, Inc., signed by John Husted, Ohio secretary of State.
6. Amendment of Article # **200422000488,** dated 01/13/04 issued by State of Ohio to Winsor Republic Door Inc., signed by J. Kenneth Blackwell, Ohio secretary of State.

G. OTHER

1. This NOA **revises # 09-1210.01(Former Winsor Republic Door)**, expiring on FEB 03, 2015.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 12-0604.12
Expiration Date: February 03, 2015
Approval Date: September 27, 2012

REPUBLIC DOORS AND FRAMES

DL418 STEEL FLUSH DOOR

INSTALLATION NOTES:

1. *ONE (1)* INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. *INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/16 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.*
4. *FOR INSTALLATION INFORMATION AND ANCHOR LAYOUTS ON JAMBS AND SILL, REFER TO SHEET 6.*
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
6. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
7. FOR GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
8. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
9. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
   A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
   B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF *2700 PSI.*
   C. GROUT-FILLED CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 & GROUT CONFORMS TO ASTM C 476. GROUT SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2000 Psi. SEE FBC SECTION 2105.2.2.1.2 (3) FOR GROUTED MASONRY REQUIREMENTS.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2010 FLORIDA BUILDING CODE, INCLUDING HVHZ.
   - *TAS 201-94*
   - *TAS 202-94*
   - *TAS 203-94*
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X OR 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT FOR NON-HVHZ AREA. FOR HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE PERA OR AUTHORITY HAVING JURISDICTION (AHJ).
5. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. FRAME MATERIAL: *STEEL 16 GA. (0.053") MIN. FY MIN. 45.7 KSI*
7. DOOR MATERIAL: *STEEL 18 GA. (0.045") MIN. FY MIN. 43.9 KSI*
8. *DESIGNATIONS "X" STANDS FOR THE FOLLOWING: X: OPERABLE PANEL*
9. STEEL COMPONENTS SHALL BE COATED OR PROVIDED WITH CORROSION RESISTANCE PROTECTION IN CONFORMANCE WITH THE MATERIAL PROTECTION PROVISIONS OF FBC SECTION 2220.

STEEL DOOR CONSTRUCTION:

[redacted]

FRAME CONSTRUCTION:

THE DOOR FRAMES ARE CONSTRUCTED FROM 16 GAUGE (0.053") COLD-ROLLED STEEL. THE CORNERS ARE MITERED KNOCK DOWN MECHANICALLY FASTENED. THE DOOR FRAME SECTIONS ARE T-SHAPED. THE DOOR FRAME CORNER REINFORCEMENTS ARE KNOCK DOWN WITH CORNER KEY. THE DOOR FRAME HINGES ARE S. PARKER 4.5" X 4.5" X 0.134" FULL MORTISE BUTT-TYPE STANDARD WEIGHT HINGES. THE DOOR FRAME HINGE REINFORCEMENTS ARE 1.625" WIDE X 7.50" LONG AND ARE CONSTRUCTED OF 9 GAUGE (0.132" MIN.) COLD-ROLLED STEEL. THE DOOR FRAME HEADER SLEEVE REINFORCEMENTS ARE 5.6875" X 96" AND ARE CONSTRUCTED OF 14 GAUGE (0.067") FORMED STEEL. THE DOOR FRAME BASE ANCHORS ARE 1.875" X 1.875" AND ARE CONSTRUCTED OF 16 GAUGE (0.053") FORMED STEEL. THE DOORFRAME MULLION REINFORCEMENTS ARE 5/8" BAR STOCK 4.0" X 1.5". THE DOORFRAME SURFACE BOLT REINFORCEMENTS ARE 1.5" X 1.5" 3 GAUGE STEEL ANGLES.

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SHEET	REVISION	SHEET DESCRIPTION
1	E	INSTALLATION & GENERAL NOTES
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3	E	RIM EXIT DEVICE ELEVATIONS & DETAILS
4	C	CYLINDRICAL W/ DEADLOCK ELEVATIONS & DETAILS
5	C	MORTISE LOCK ELEVATIONS & DETAILS
6	E	ANCHOR LAYOUT
7	C	VERTICAL SECTIONS
8	E	HORIZONTAL SECTIONS
9	C	CORNER ASSEMBLIES & COMPONENTS
10	D	BILL OF MATERIALS & COMPONENTS

DESIGN PRESSURE RATING		
DESIGN PRESSURE ALL SIZES		MISSILE IMPACT RATING
+60/-60 PSF	W/O WATER INFILTRATION	SMALL & LARGE MISSILE IMPACT RATED

PRODUCT REVIEWED in compliance with the Florida Building Code, Application No. 12-0604.12, Expiration Date: February 2015

Republic doors · frames

125 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 799-3667 FX: (731) 352-2886

PREPARED BY:
BUILDING DROPS, INC.
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 644-6867 FX: (407) 644-2886

TITLE: DL418 STEEL FLUSH DOOR INSTALLATION & GENERAL NOTES

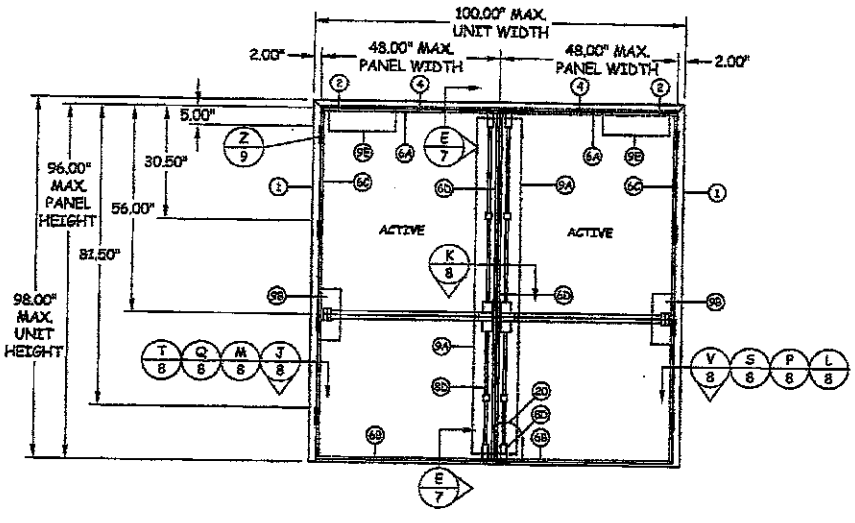
REVISIONS

NO.	DESCRIPTION	BY	DATE
C	COMMENTS PER MIAMI-DADE CO.	KSD	11.20.09
D	COMMENTS PER MIAMI-DADE CO.	HFN	01.08.10
E	2010 FBC UPDATES	MS	03.28.12

DATE: 11.19.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS

DWG #: RDF002

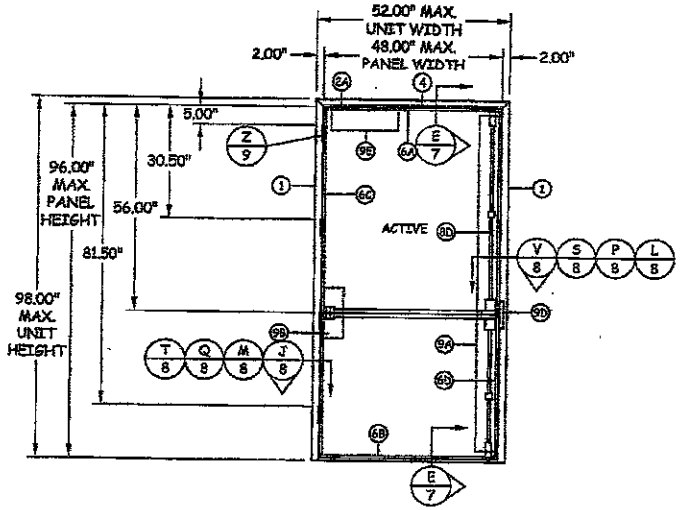
SHEET: 1 OF 10



ELEVATION DOUBLE

SURFACE VERTICAL ROD

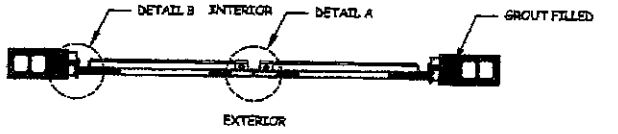
(OUTSWING DOOR - INTERIOR VIEW)

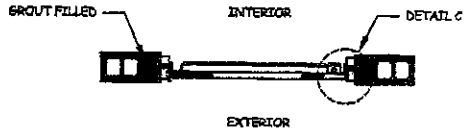


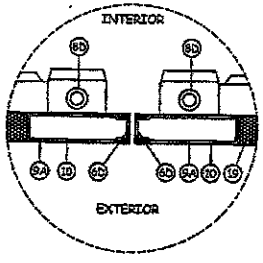
ELEVATION SINGLE

SURFACE VERTICAL ROD

(OUTSWING DOOR - INTERIOR VIEW)







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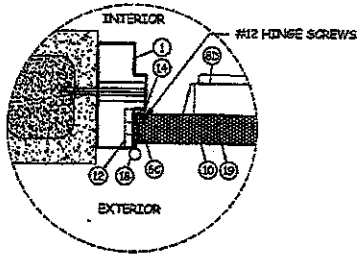

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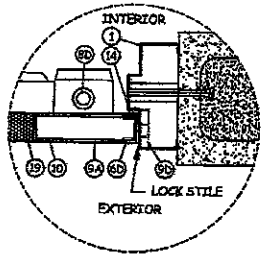


DETAIL C

PRODUCT REVISED in compliance with the Florida Building Code
Application No. 12-0604.12
Expiration Date: 2/3/15

Republic doors · frames

125 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 799-3667 FAX: (731) 352-2556

TITLE: DL418 STEEL FLUSH DOOR
SURFACE VERTICAL ROD
ELEVATIONS & DETAILS

PREPARED BY:
BUILDING DROPS, INC.
127 W. FAIRBANKS AVE. STE 438
WINTER PARK, FL 32789
PH: (407) 644-6997 FAX: (407) 644-2366

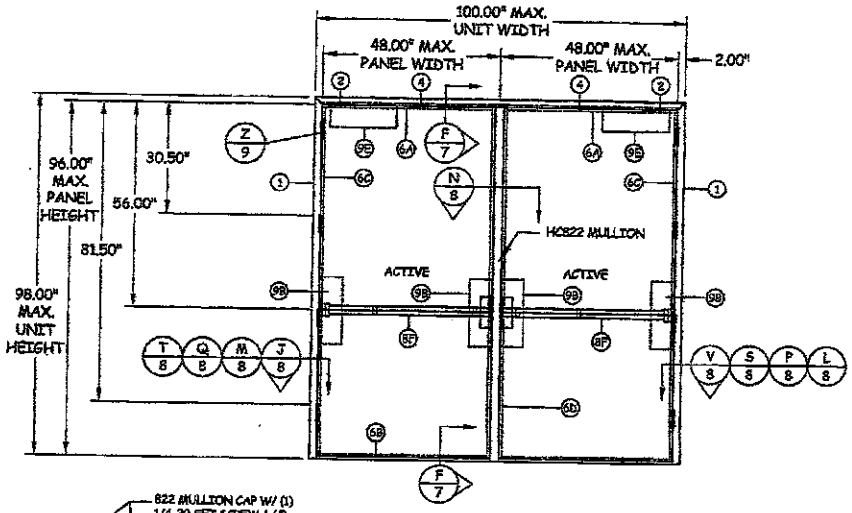
REVISIONS

NO.	DESCRIPTION	BY	DATE
A	COMMENTS PER MIAMI-DADE CO.	JLR	06.02.09
B	COMMENTS PER MIAMI-DADE CO.	JLR	10.12.09
C	COMMENTS PER MIAMI-DADE CO.	KSD	11.20.09
D	2010 FBC UPDATES	MS	03.28.12

DATE: 11.19.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS

DWG #: RDF002

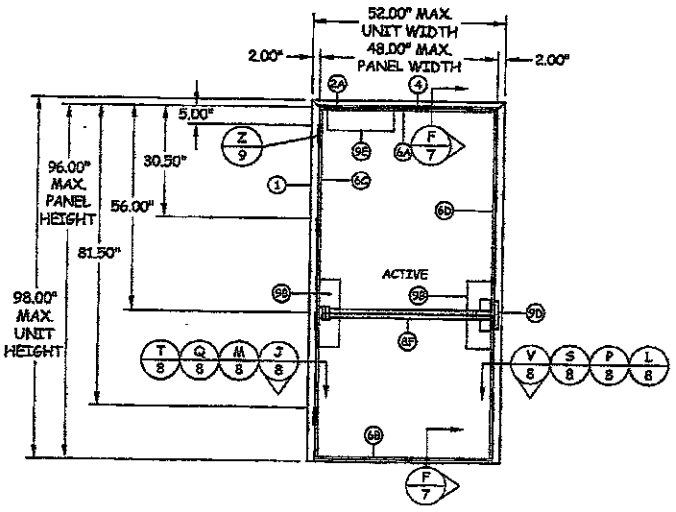
SHEET: 2 OF 10



ELEVATION DOUBLE

HCF 2100 RIM EXIT DEVICE W/ HC822 MULLION

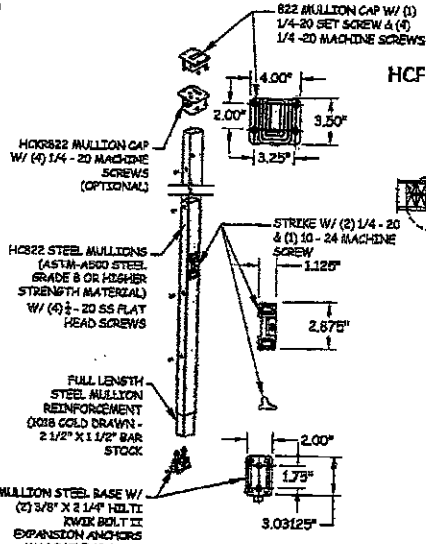
(OUTSWING DOOR - INTERIOR VIEW)



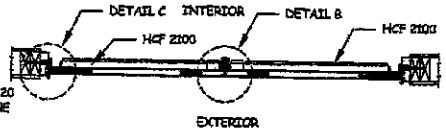
ELEVATION SINGLE

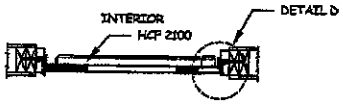
RIM EXIT DEVICE

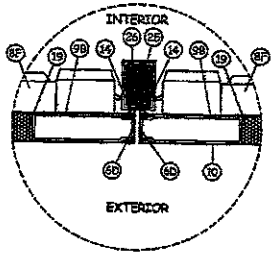
(OUTSWING DOOR - INTERIOR VIEW)



HC822 MULLION DETAIL







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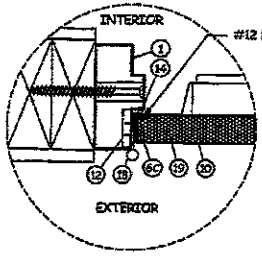

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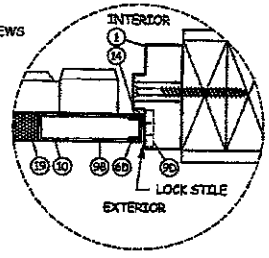


DETAIL D

#REVISE REVISED
in complying with the Florida Building Code.
Application No. 12-0604.12
Expiration Date 2/2.1.15

Republic doors·frames

155 REPUBLIC DRIVE
MOORESVILLE, TN 37801
PH: (800) 799-3667 FX: (732) 382-2556

TITLE: DL418 STEEL FLUSH DOOR RIM EXIT DEVICE ELEVATIONS & DETAILS

PREPARED BY:
BUILDING DROPS, INC.
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 644-6997 FX: (407) 644-2166

REVISIONS

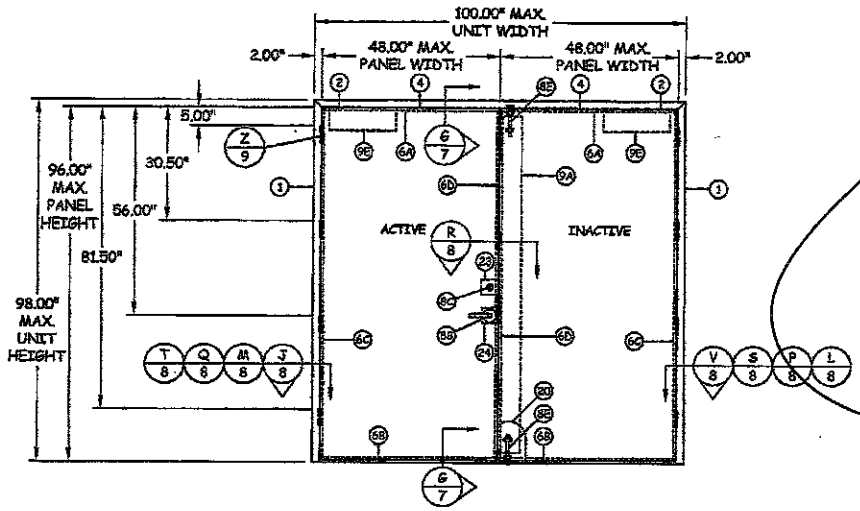
NO.	DESCRIPTION	BY	DATE
C	COMMENTS PER MIAMI-DADE CO.	KSD	11.20.09
D	COMMENTS PER MIAMI-DADE CO.	HFN	01.05.10
E	2010 FBC UPDATES	MS	03.28.12

DATE: 11.19.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS

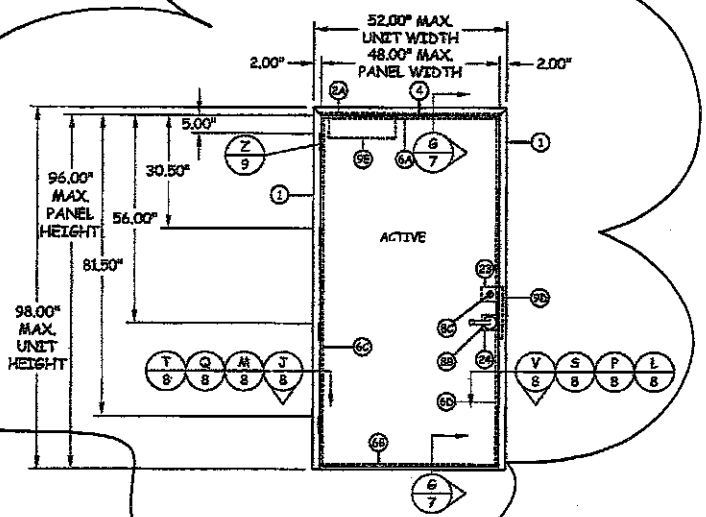
DWG #: RDF002

SHEET: 3 OF 10

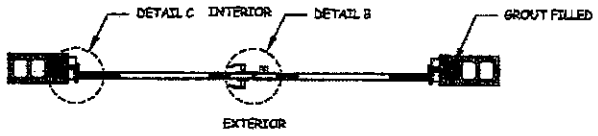
SP 12.17.13

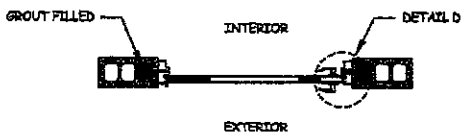


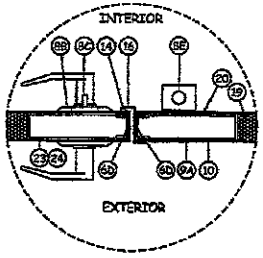
ELEVATION DOUBLE
CYLINDRICAL LOCK WITH DEADLOCK
(OUTSWING DOOR - INTERIOR VIEW)



ELEVATION SINGLE
CYLINDRICAL LOCK WITH DEADBOLT
(OUTSWING DOOR - INTERIOR VIEW)







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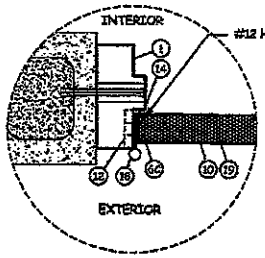

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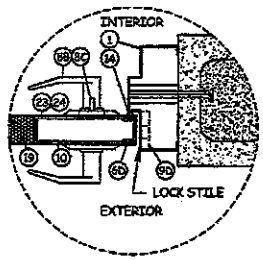


DETAIL D

Republic doors · frames

155 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 799-3667 FX: (731) 352-2556

TITLE: DL418 STEEL FLUSH DOOR
CYLINDRICAL W/ DEADLOCK
ELEVATIONS & DETAILS

PREPARED BY:
BUILDING DROPS, INC.
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 644-6987 FX: (407) 644-8246

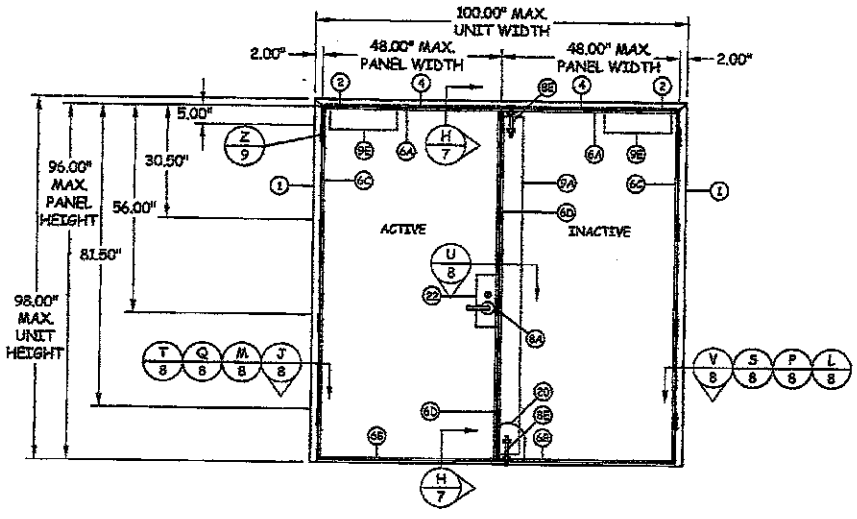
REVISIONS

NO.	DESCRIPTION	BY	DATE
A	COMMENTS PER MIAMI-DADE CO.	JLR	06.02.09
B	COMMENTS PER MIAMI-DADE CO.	JLR	10.12.09
C	2010 FBC UPDATES	MS	03.28.12

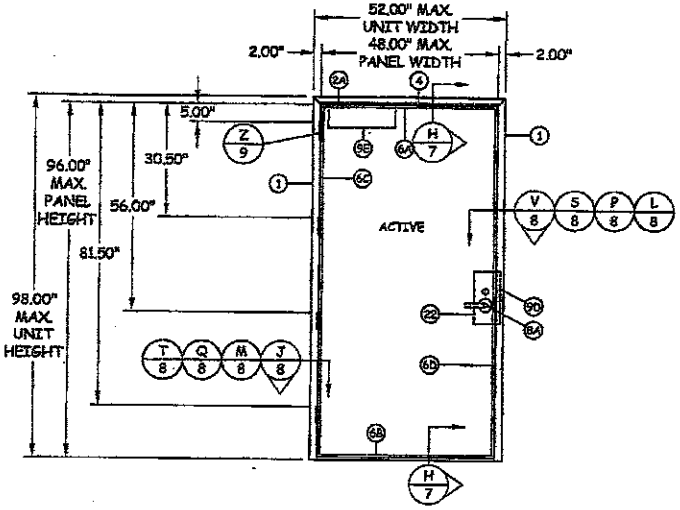
DATE: 11.19.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS

DWG #: RDF002
SHEET: 4 OF 10

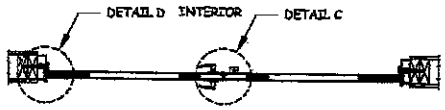
SURFACE REVISED in compliance with the Florida Building Code: Acceptance No. 12-0604.12 Expiration Date: 2/28/15
By: Chris J. Cuevas
Miami-Dade Product Control

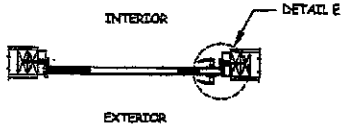


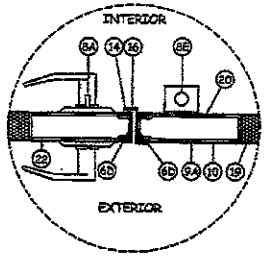
ELEVATION DOUBLE
MORTISE LOCK WITH DEADLOCK
(OUTSWING DOOR - INTERIOR VIEW)



ELEVATION SINGLE
MORTISE LOCK WITH DEADLOCK
(OUTSWING DOOR - INTERIOR VIEW)







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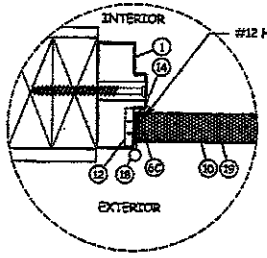

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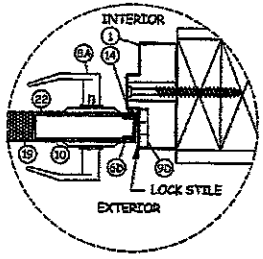


DETAIL E

Republic doors · frames

195 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 799-3667 FX: (731) 352-2556

TITLE: DL418 STEEL FLUSH DOOR
MORTISE LOCK ELEVATIONS & DETAILS

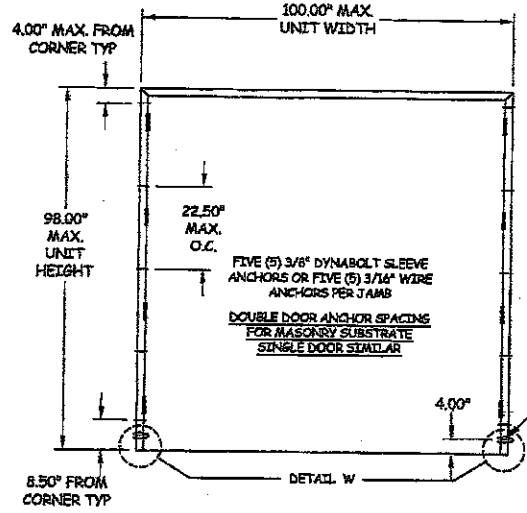
PREPARED BY:
BUILDING DROPS, INC.
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
Ph (407) 644-0997 Fx: (407) 644-2366

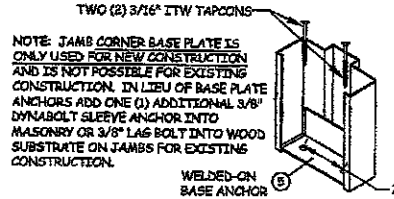
REVISIONS

NO.	DESCRIPTION	BY	DATE
A	COMMENTS PER MIAMI-DADE CO.	JLR	06.02.09
B	COMMENTS PER MIAMI-DADE CO.	JLR	10.12.09
C	2010 FBC UPDATES	MS	03.28.12

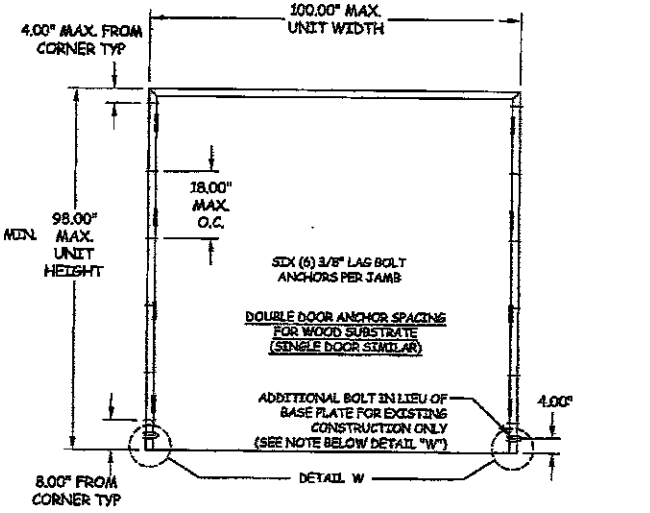
DATE: 09.01.09
DWN BY: JLR
CHK BY: HN
SCALE: NTS

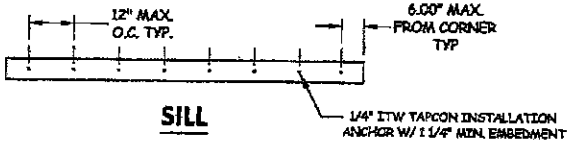
DWG #: RDF002
SHEET: 5 OF 10





DETAIL W
JAMB CORNER BASE PLATE





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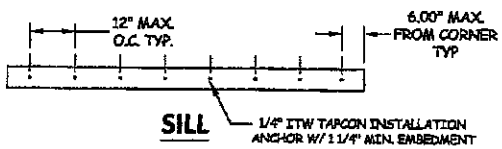

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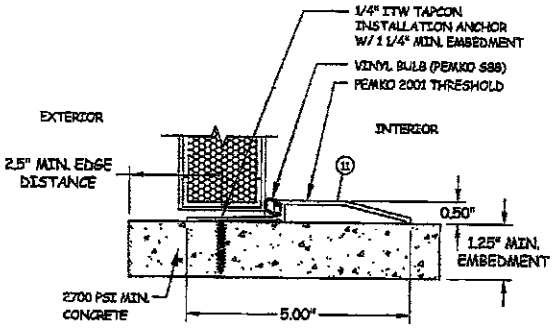
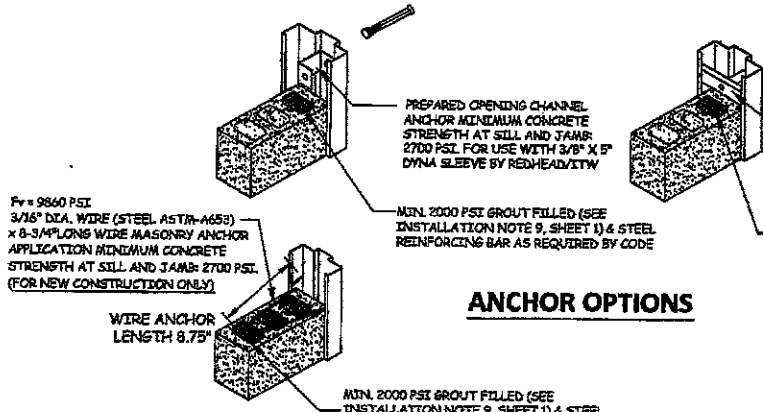


THRESHOLD DETAIL (SILL)



ANCHOR OPTIONS

PRODUCT REVISED
in complying with the Florida
Building Code.
Acceptance No. 12-0604.12
Expiration Date 2/3/15

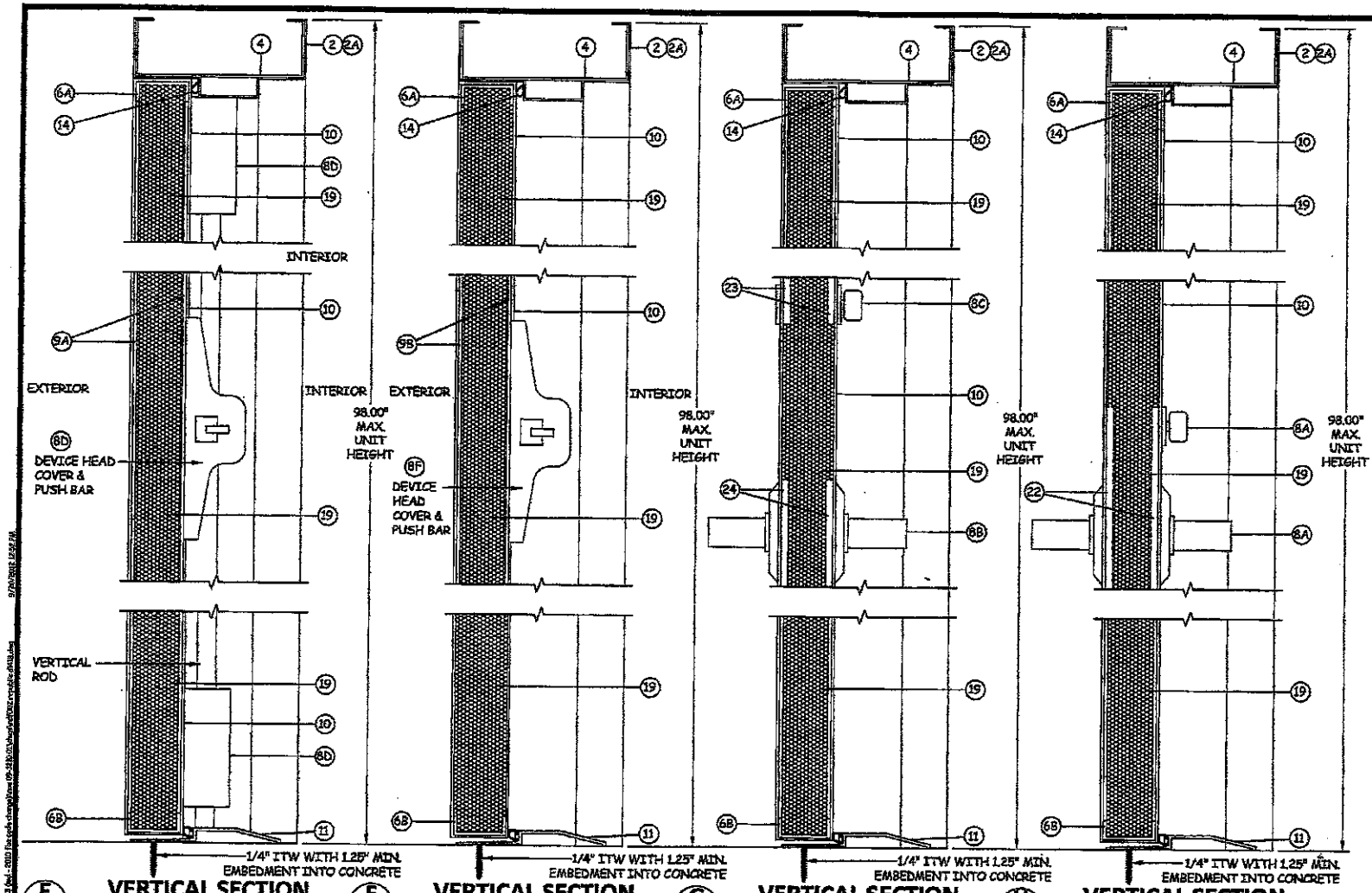
Republic doors·frames
295 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 709-3667 FX: (731) 352-2556

TITLE: DL418 STEEL FLUSH DOOR
ANCHOR LAYOUT

PREPARED BY:
BUILDING DROPS, INC.
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407)644-4957 FX: (407)644-2966

NO.	DESCRIPTION	BY	DATE
C	COMMENTS PER MIAMI-DADE CO.	KSD	11.20.09
D	COMMENTS PER MIAMI-DADE CO.	HPN	01.05.10
E	2010 FBC UPDATES	MS	03.28.12

DATE: 11.19.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS
DWG #: RDF002
SHEET: 6 OF 10



Republic doors·frames

155 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 799-3667 FAX: (731) 352-2556

TITLE: DL418 STEEL FLUSH DOOR VERTICAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 644-6967 FAX: (407) 644-8386

REVISIONS

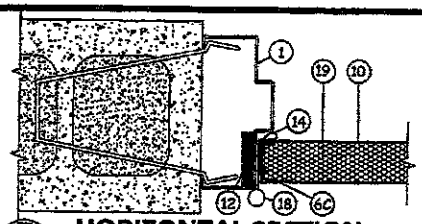
NO.	DESCRIPTION	BY	DATE
A	COMMENTS PERMIAMI-DADE CO.	JLR	06.02.09
B	COMMENTS PER MIAMI-DADE CO.	JLR	10.12.09
C	2010 FBC UPDATES	MS	03.28.12

PRODUCT REVISED in complying with the Florida Building Code. Acceptance No. 12-0604.12 Expiration Date: 2/3/15

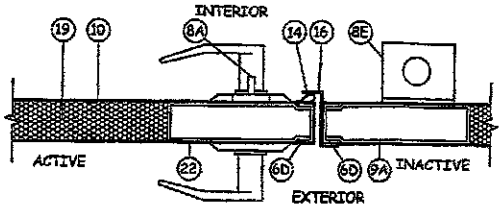
DATE: 11.19.08 | DWN BY: JLR | CHK BY: HN | SCALE: NTS

DWG #: RDF002

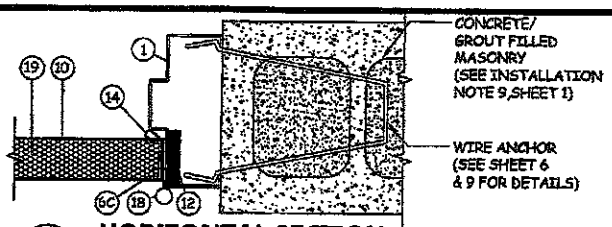
SHEET: 7 OF 10



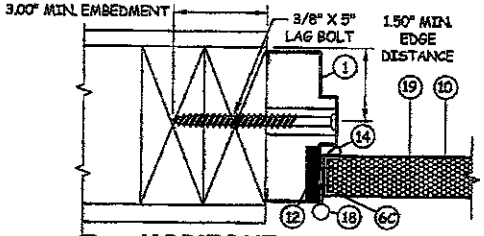
T 8 **HORIZONTAL SECTION**
JAMB - CONCRETE/MASONRY
WIRE ANCHOR



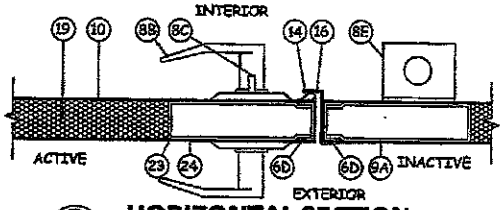
U 8 **HORIZONTAL SECTION**
MORTISE LOCK WITH DEADLOCK



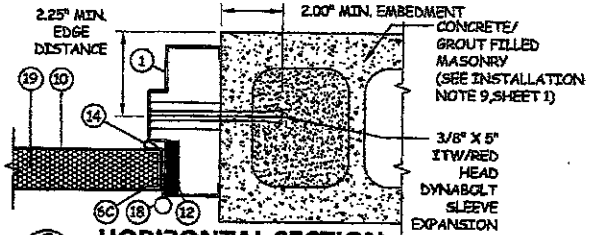
V 8 **HORIZONTAL SECTION**
JAMB - CONCRETE/MASONRY
WIRE ANCHOR



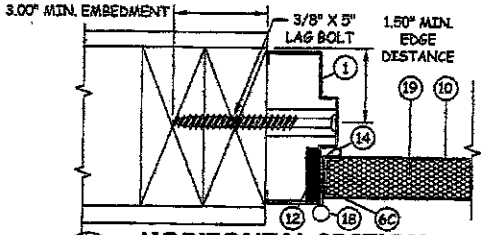
Q 8 **HORIZONTAL SECTION**
JAMB - 2X WOOD FRAME
3/8" X 6" LAG BOLT



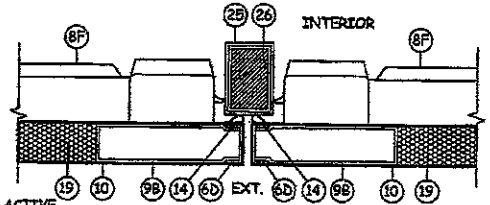
R 8 **HORIZONTAL SECTION**
CYLINDRICAL LOCK WITH DEADLOCK



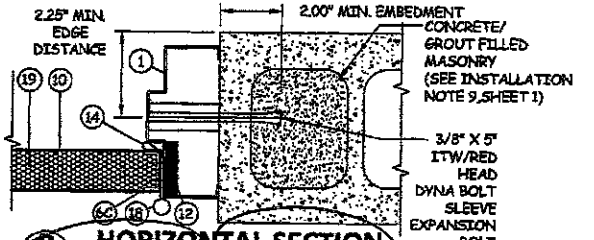
S 8 **HORIZONTAL SECTION**
JAMB - CONCRETE/MASONRY
EXPANSION BOLT WITH PIPE AND STRAP



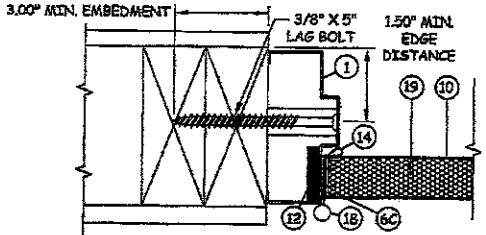
M 8 **HORIZONTAL SECTION**
JAMB - 2X WOOD FRAME
3/8" X 6" LAG BOLT



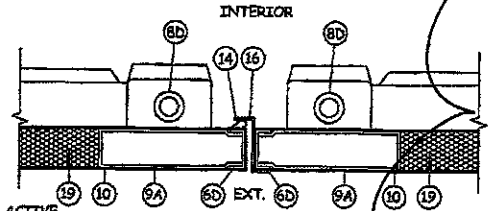
N 8 **HORIZONTAL SECTION**
RIM EXIT DEVICE



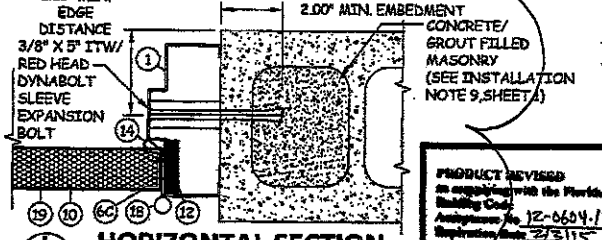
P 8 **HORIZONTAL SECTION**
JAMB - CONCRETE/MASONRY
EXPANSION BOLT W/ PIPE AND STRAP



J 8 **HORIZONTAL SECTION**
JAMB - 2X WOOD FRAME
3/8" X 6" LAG BOLT



K 8 **HORIZONTAL SECTION**
SURFACE VERTICAL ROD



L 8 **HORIZONTAL SECTION**
JAMB - CONCRETE/MASONRY
EXPANSION BOLT W/ PIPE AND STRAP

PRODUCT REVISED
in compliance with the Florida Building Code
Acceptance No. 12-0604.12
Expiration Date: 2/3/15

GD 12.17.13

Republic doors · frames
105 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 799-3667 FX: (731) 352-2986

TITLE: DJ-418 STEEL FLUSH DOOR HORIZONTAL SECTIONS

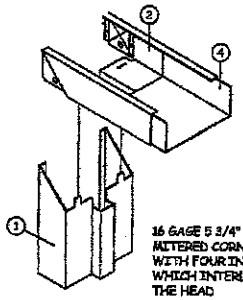
PREPARED BY:
BUILDING DROPS, INC.
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407)644-0997 FX: (407)644-2985

REVISIONS

NO.	DESCRIPTION	BY	DATE
C	COMMENTS PER MIAMI-DADE CO.	KSD	11.20.09
D	COMMENTS PER MIAMI-DADE CO.	HFN	01.06.10
E	2010 FBC UPDATES	MS	03.28.12

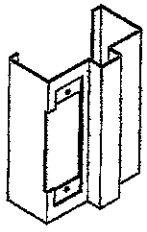
DATE: 11.19.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS

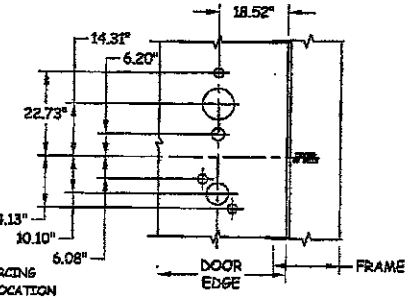
DWG # RDF002
SHEET: 8 OF 10



16 GAGE 5 3/4" DEPTH FRAME WITH MITERED CORNER CONSTRUCTION WITH FOUR INTEGRAL TABS WHICH INTERLOCK THE JAMBS TO THE HEAD

DETAIL Y

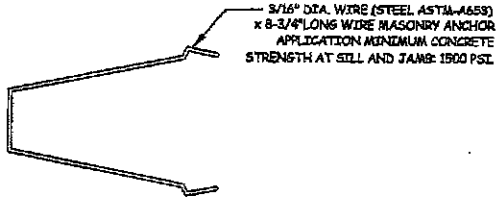




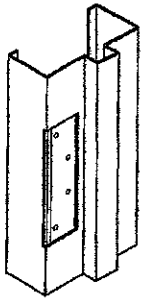
14 GAUGE STEEL REINFORCING PLATE AT LOCK STRIKE LOCATION

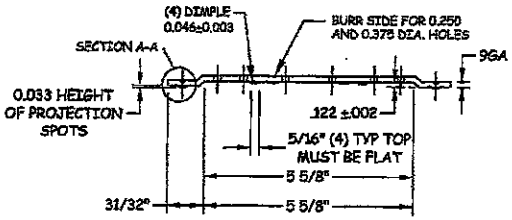
DETAIL X

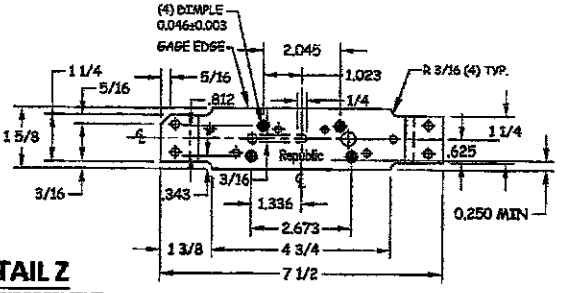
LOCK REINFORCEMENT



WIRE ANCHOR DETAIL

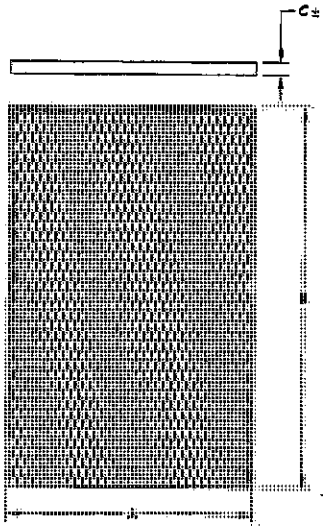






DETAIL Z

HINGE REINFORCEMENT



HONEYCOMB CORE			
Part Number	A	B	C
3993000	2'-0 TO 2'-6	CUT TO LENGTH	1.73
3993001	2'-6 TO 3'-4	CUT TO LENGTH	1.73
3993013	3'-6 TO 4'-1	CUT TO LENGTH	1.73

1. General

Type 99-0-3/4 Honecomb core is fabricated of Kraft paper and is bonded Together to form ¾" wide hexagonal cells when expanded. Core is to be Non-impregnated, not expanded with cut edges, 1.736" ± .010 thick.

2. Honeycomb Core Data

Base Material, lbs./3000 sq. ft. sheet stock	99
Resin Content	0
Moisture Content	6-8%
Cell Size	¾"
Density lbs./cubic ft. expanded	1.56
Crushing lbs./sq. in.	48

HONEYCOMB CORE

PRODUCT REVISED
in complying with the Florida Building Code
Acceptance No. 12-0604.12
Expiration Date: 2/5/15
By: [signature]
Official Seal Product Approval

Republic doors · frames

1155 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 799-3667 FX: (731) 352-2556

TITLE: DL418 STEEL FLUSH DOOR
CORNER ASSEMBLIES & COMPONENTS

PREPARED BY:
BUILDING DROPS, INC.
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 644-6567 FX: (407) 644-2346

REVISIONS

NO.	DESCRIPTION	BY	DATE
A	COMMENTS PER MIAMI-DADE CO.	JLR	06.02.09
B	COMMENTS PER MIAMI-DADE CO.	JLR	10.12.09
C	2010 FBC UPDATES	MS	03.28.12

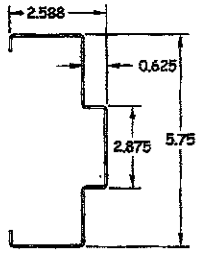
DATE: 11.19.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS

DWG #: RDF002
SHEET: 9 OF 10

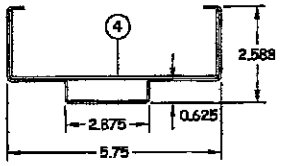
BILL OF MATERIALS

ITEM NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	96" X 5.75" DOUBLE SWING JAMB PAIR OR SINGLE JAMB	0.053" STEEL	REPUBLIC DOOR & FRAMES
2	96" X 5.75" FACE DOUBLE OPENING HEADER	0.053" STEEL	REPUBLIC DOOR & FRAMES
2A	52" X 5.75" SINGLE DOOR HEADER	0.053" STEEL	REPUBLIC DOOR & FRAMES
3	HINGE REINFORCING FRAME	0.132" STEEL	REPUBLIC DOOR & FRAMES
4	HEADER SLEEVE REINFORCEMENT 14 GA. (.067") X 5.6875" X FULL LENGTH HEADER	0.067" STEEL	REPUBLIC DOOR & FRAMES
5	BASE ANCHOR 1.875" X 1.875"	0.053" STEEL	REPUBLIC DOOR & FRAMES
6A	TOP CHANNELS 16 GA. X 1.677" X 0.62" CHANNEL FULL LENGTH DOOR PANEL WIDTH	0.053" STEEL	REPUBLIC DOOR & FRAMES
6B	BOTTOM CHANNELS 16 GA. X 1.677" X 0.62" CHANNEL FULL LENGTH OF DOOR PANEL WIDTH	0.053" STEEL	REPUBLIC DOOR & FRAMES
6C	HINGE CHANNELS 16 GA. X 1.677" X 0.62" CHANNEL FULL DOOR HEIGHT	0.053" STEEL	REPUBLIC DOOR & FRAMES
6D	LOCK CHANNELS 16 GA. X 1.677" X 0.62" CHANNEL FULL DOOR HEIGHT	0.053" STEEL	REPUBLIC DOOR & FRAMES
7C	AIR FILTRATION WEATHERSTRIP		
8A	DORMA ML9953D OR SCHLAGE L900 MORTISE LOCK W/ DEADBOLT	STEEL	DORMA
8B	DORMA CL753D OR SCHLAGE ND SERIES STANDARD LATCH	STEEL	DORMA
8C	DORMA DB660D DEADLOCK	STEEL	DORMA
8D	HCF SURFACE VERTICAL ROD W/ PANIC DEVICE 2200	STEEL	PRECISION
8E	IVES MODEL 360 SURFACE BOLTS	STEEL	IVES
8F	HCF RIM PANIC DEVICE 2100 (W/ HC822 MULLION DOUBLE DOOR)	STEEL	PRECISION
9A	CONTINUOUS HARDWARE REINF. 12 GA. (0.101") 1.677" X 6" X (DOOR HEIGHT - 11")	0.101" STEEL	REPUBLIC DOOR & FRAMES
9B	EXIT DEVICE REINFORCEMENT 14 GA. (0.067") 1.677" X 5.313" X 14"	0.067" STEEL	REPUBLIC DOOR & FRAMES
9D	CH LOCK REINFORCEMENT 16 GA. X 1.677" X 0.62" X 1.677" CHANNEL FULL DOOR HEIGHT	0.053" STEEL	REPUBLIC DOOR & FRAMES
9E	CLOSER REINFORCEMENT 12 GA. (0.101") X 1.677" X 6" X 18"	0.101" STEEL	REPUBLIC DOOR & FRAMES
10	DOOR SKINS FY=43.9 KSI MIN.	0.045"STEEL	REPUBLIC DOOR & FRAMES
11	PEMKO 2001 THRESHOLD	ALUMINUM	PEMKO
12	DOOR HINGE REINFORCEMENT 9 GA. (0.132") X 7.5" X 1.625"	0.132" STEEL	REPUBLIC DOOR & FRAMES
13	ANCHORS (SEE SHEET 5) 3/8" LAG BOLT, 3/8" DYNABOLT ITW/RED HEAD & 1/4" ITW	VARIES	ITW / RED HEAD
14	PEMKO S88 WEATHERSTRIP	VINYL BULB	PEMKO
15	ALL PURPOSE SILICONE CAULK	SILICONE	
16	INACTIVE LEAF ASTRAGAL 14 GA. (0.067") X 1.7" X FULL DOOR HEIGHT	0.067" STEEL	REPUBLIC DOOR & FRAMES
17	CUT OUT REINFORCEMENT	0.053" STEEL	REPUBLIC DOOR & FRAMES
18	4 1/2" X 4 1/2" X .134" THICK BALL BEARING TEMPLATE BUTT HINGES		S. PARKER
19	HONEYCOMB CORE TYPE 99-0-3/4	KRAFT PAPER	REPUBLIC DOOR & FRAMES
20	SURFACE BOLT ANGLE REINFORCEMENT 7 GAUGE X 0.175" X 1.5" X 1.5"	0.175" STEEL	
21	REESE 353A ALUMINUM DRIP CAP	ALLOY 6063-T5	
22	MORTISE LOCK REINFORCEMENT 14 GAUGE X 1.677" X 5.313" X 14"	0.067"STEEL	REPUBLIC DOOR & FRAMES
23	DEAD LOCK REINFORCEMENT 16 GAUGE X 3" X 3"	0.053" STEEL	REPUBLIC DOOR & FRAMES
24	CYLINDRICAL LOCK REINFORCEMENT 16 GAUGE X 3" X 2.5"	0.053" STEEL	REPUBLIC DOOR & FRAMES
25	MULLION 2" X 3" PRECISION HC822 (A-500 GRADE B)	STEEL	PRECISION
26	MULLION REINFORCEMENT 1.5" X 2.5" (FULL LENGTH)	STEEL	PRECISION

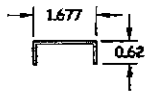
1 JAMB FRAME



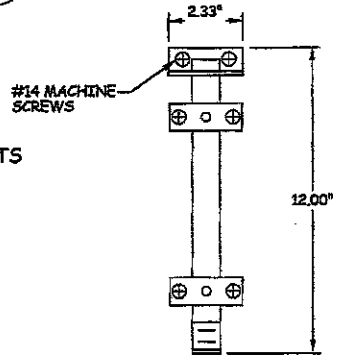
2 2A HEADER FRAME



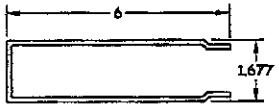
6A 6B 6C 6D CHANNELS



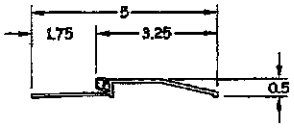
8E IVES 360 SURFACE BOLT



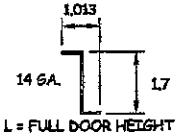
9A 22 23 24 REINFORCEMENTS



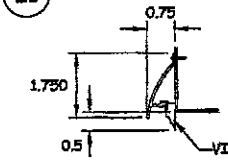
11 PEMKO 2100 THRESHOLD



16 INACTIVE LEAF ASTRAGAL

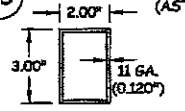


21 REESE 353A DRIP CAP



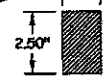
REESE 353A ALUMINUM DRIP CAP WITH VINYL FLAP AT HEADER (ALLOY 6063-T5)

25 HC822 STEEL MULLION (ASTM A-500)



NOTE: ALL DIMENSIONS SHOWN ARE IN INCHES.

26 MULLION REINF.



PRODUCT REVIEWED as complying with the Florida Building Code. Application No. 12-0614.12 Expiration Date: 12/23/2015 By: [signature] Miami-Dade County Product Control

Republic doors·frames
155 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 799-3667 FX: (731) 352-2556

TITLE: DL418 STEEL FLUSH DOOR BILL OF MATERIALS & COMPONENTS

PREPARED BY:
BUILDING DROPS, INC.
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 644-6907 FX: (407) 644-8366

REVISIONS

NO.	DESCRIPTION	BY	DATE
A	COMMENTS PER MIAMI-DADE CO.	JLR	06.02.09
B	COMMENTS PER MIAMI-DADE CO.	JLR	10.12.09
C	COMMENTS PER MIAMI-DADE CO.	KSD	11.20.09
D	2010 FBC UPDATES	MS	03.28.12

DATE: 11.19.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS
DWG #: RDF002
SHEET: 10 OF 10

6

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Sun-Tek Manufacturing, Inc.
10303 General Drive
Orlando, Florida 32824

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material falls to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material falls to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Sun-Tek Tubular Skylight

APPROVAL DOCUMENT: Drawing No. 22001, titled "21", 14" & 10" Tube Light/Tubular Skylights", sheets 1 through 7 of 7, prepared by Sun-Tek Manufacturing, Inc., dated 10/14/2011, signed and sealed by James D. Wells, Jr., P.E., on 10/14/2011, bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 09-0422.01 and consists of this page 1 and evidence submitted pages E-1 & E-2 as well as approval document mentioned above.
The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY APPROVED

Helmy A. Makar
05/16/2013

NOA No.11-0601.05
Expiration Date: 05/26/2018
Approval Date: 05/16, 2013
Page 1

APPROVED
MAY 12 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

REVIEWED + APPROVED
12.13.13

Sun-Tek Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0422.01

A. DRAWINGS

1. Drawing No. TL-22001, titled "21", 14" & 10" Tube Light/Tubular Skylights", sheets 1 through 7 of 7, prepared by Sun-Tek Industries, Inc., dated 02/12/09, signed and sealed by James D. Wells, Jr., P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of 21" Tube Aluminum Skylights, prepared by National Certified Testing Laboratories, Test Report No. 210-3520-01, dated 03/04/09, signed and sealed by Gerard J. Ferrara, P.E.

C. CALCULATIONS

1. Anchor calculations prepared by J & L Wells Consulting, LLC, dated 04/14/09, signed and sealed by James D. Wells, Jr., P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 08-0305.02, issued to SABIC Innovative Plastics, for their Lexan Sheet Products, approved on 04/24/08 and expiring on 07/17/13.
2. Notice of Acceptance No. 05-0907.03, issued to Palram Americas, Inc., for their Corrugated and Flat Polycarbonate Panels, approved on 08/31/06 and expiring on 01/22/2011.

F. STATEMENTS

1. Code compliance statement issued by J & L Wells Consulting, LLC, dated 04/14/09, signed and sealed by James D. Wells, Jr., P.E.

Hetmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No 11-0601.05
Expiration Date: 05/26/ 2018
Approval Date: 05/16, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 22001, titled "21", 14" & 10" Tube Light/Tubular Skylights", sheets 1 through 7 of 7, prepared by Sun-Tek Manufacturing, Inc., dated 10/14/2011, signed and sealed by James D. Wells, Jr., P.E., on 10/14/2011.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

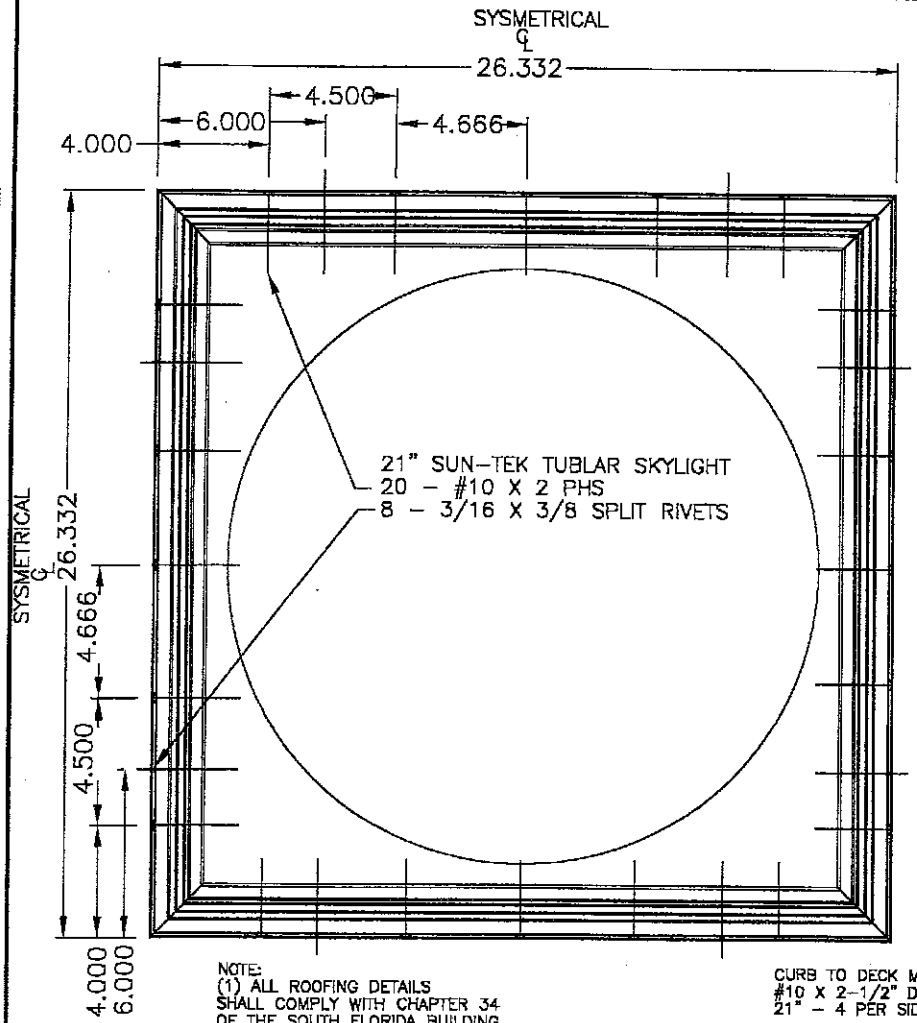
Hellny A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No 11-0501.05
Expiration Date: 05/26/2018
Approval Date: 05/16, 2013

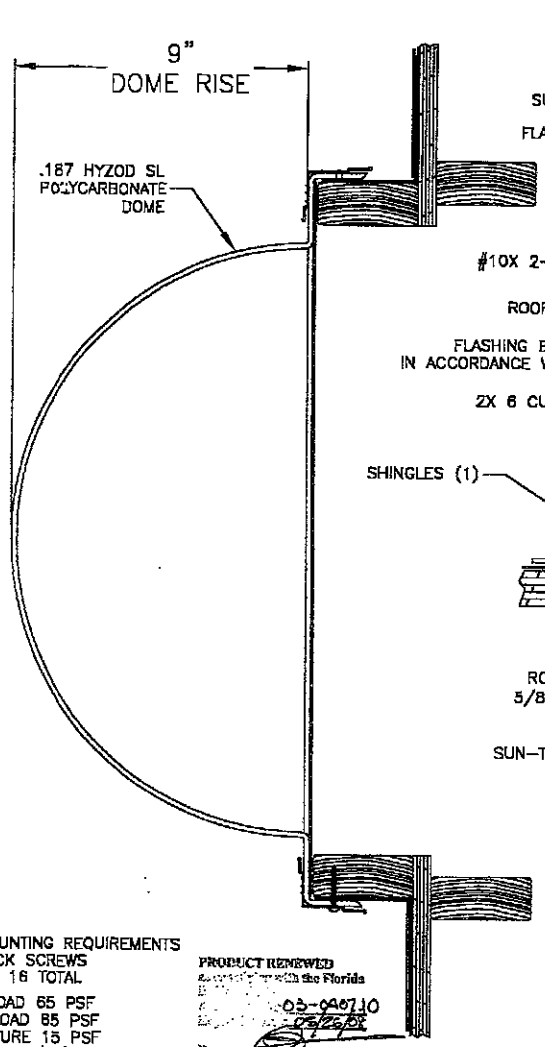
PART NAME: EXTERIOR DOME / METRO DADE / PLAN VIEW

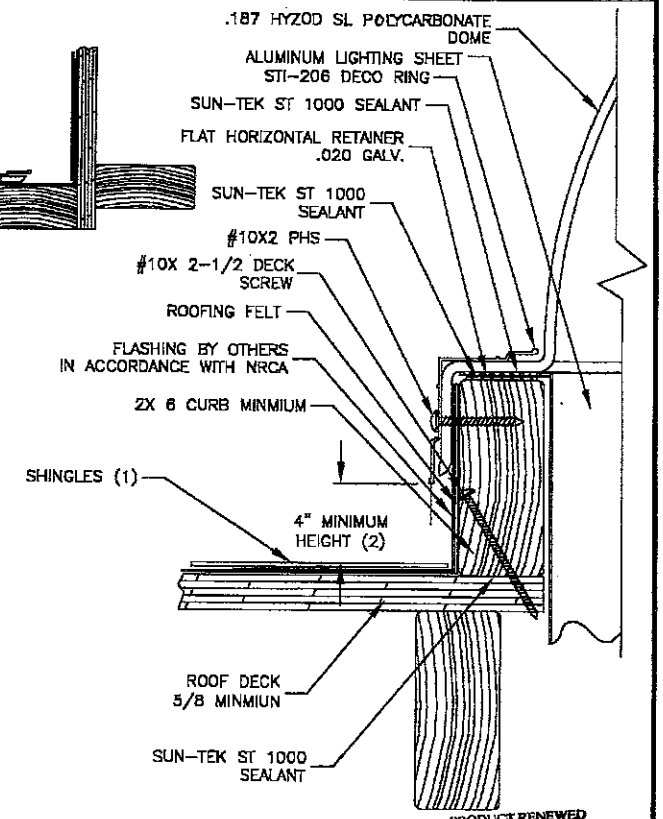
SHEET 1 OF 7

DRAWN BY: L. B. REED

DWG.#:22001







NOTE:
(1) ALL ROOFING DETAILS SHALL COMPLY WITH CHAPTER 34 OF THE SOUTH FLORIDA BUILDING CODE.
(2) 4" MINIMUM DISTANCE FROM ANGLE LIP TO ROOF SURFACE IS FOR SHINGLE OR BUILT - UP ROOF WITH OUT INSULATION. FOR INSULATION AND TILE ADD THE TILE HEIGHT AND THE INSULATION THICKNESS TO THE 4" MINIMUM HEIGHT.

CURB TO DECK MOUNTING REQUIREMENTS
#10 X 2-1/2" DECK SCREWS
21" - 4 PER SIDE 16 TOTAL

POSITIVE DESIGN LOAD 65 PSF
NEGATIVE DESIGN LOAD 85 PSF
WATER TEST PRESSURE 15 PSF
DOME MATERIAL HYZOD 'SL'
ACCEPTANCE No. 98-0515.03

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 03-0910.10
Expiration Date 05/26/08
By
Miami-Dade Product Control
Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE May 26 2000
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0823.03

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 03-0417.01
Expiration Date 05/26/2008
By
Miami-Dade Product Control
Division

6-12-00

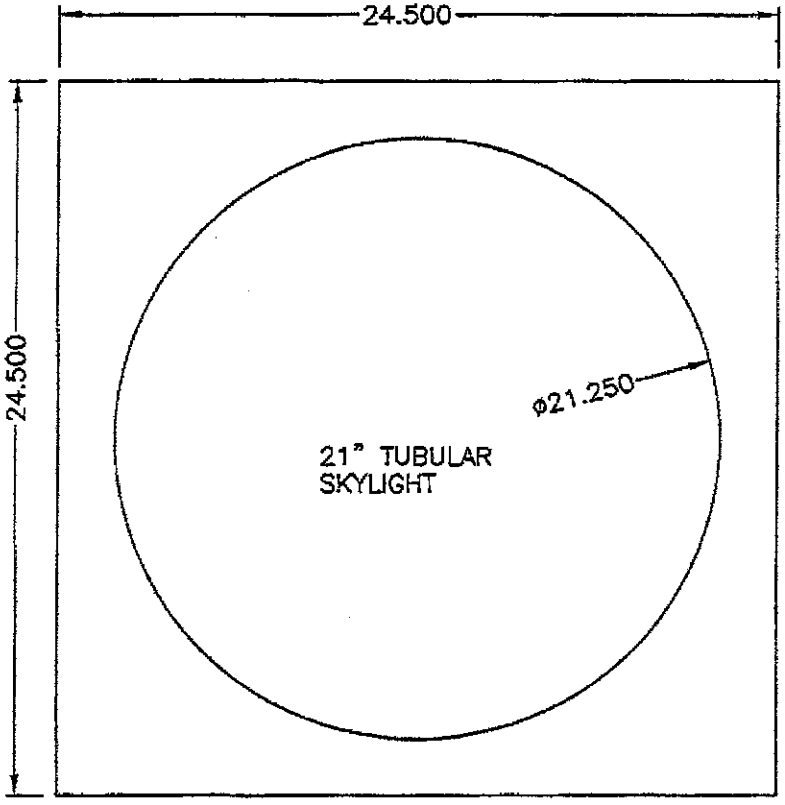
REVISION:		REVISION:		PRODUCT NAME: 21" TUBE LIGHT	
IND:	DATE:	IND:	DATE:	DATE: 09/21/98 SCALE:	DWG No. 22001

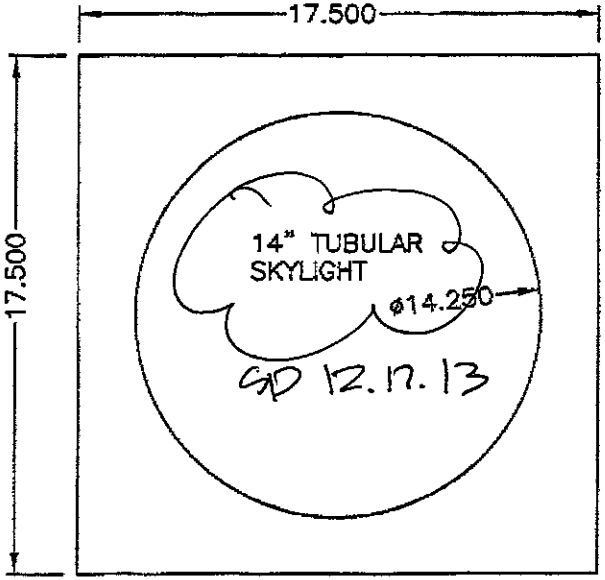
SUN-TEK INDUSTRIES, INC.
10303 GENERAL DRIVE
ORLANDO, FL 32824

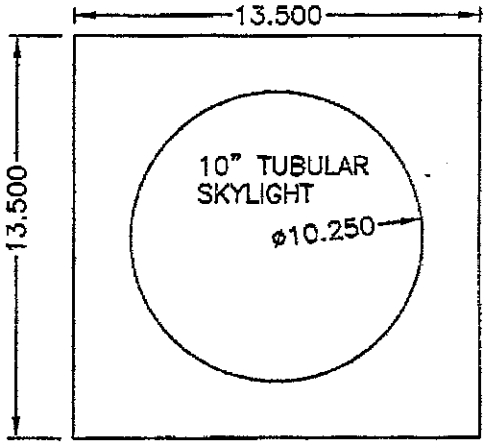
J&L WELLS CONSULTING LLC
1453 Arbitus Circle
Oviedo, FL 32765
(407) 496-5489
Certificate of Authorization No. 27162

Engineer of Record:
James D. Wells, Jr., P.E.
Professional Engineer No. 55616

PART NAME: TUBE RETAINERS | SHEET 7 OF 7 | DRAWN BY: L. B. REED | DWG.#:22001







PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-0601.05
Expiration Date 05/26/2018
By
Miami Dade Product Control

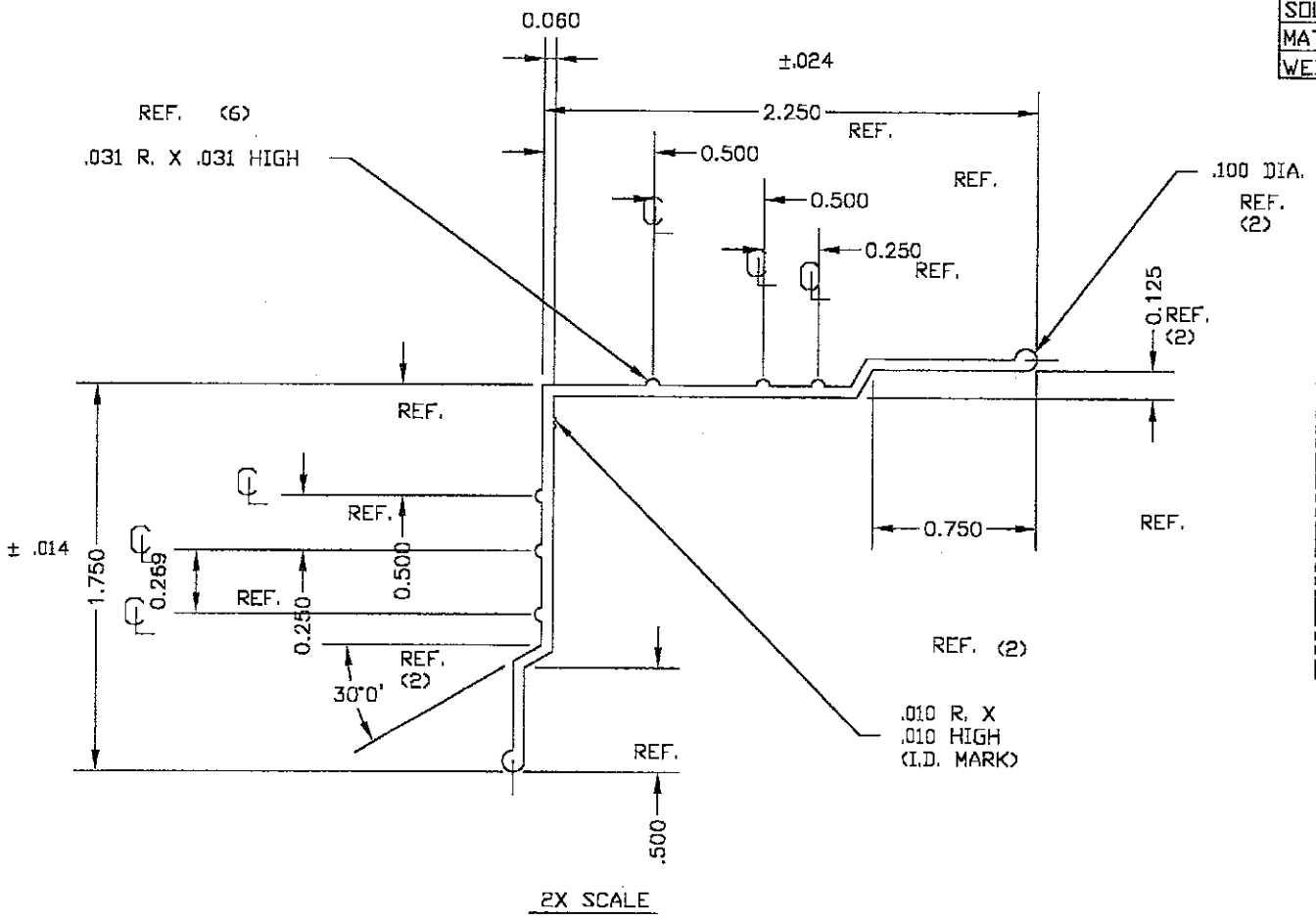
10/14/11

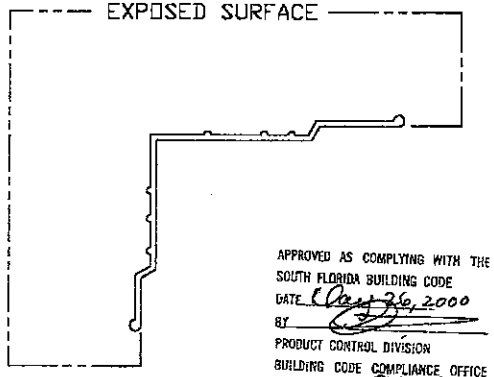
REVISION#	IN:	DATE:	REVISION	IN:	DATE:	PRODUCT NAME: TUBLAR SKYLIGHTS	SUN-TEK MANUFACTURING, INC.
						DATE: 10/14/2011 SCALE: DWG No. 22001	10303 GENERAL DRIVE ORLANDO, FL 32824

PART NAME: DECO RING

SHEET 6 OF 7
DRAWN BY: L. B. REED

AREA	WT/FT	FACTOR	DWG.#: 22001
.2205	.264		
PERIMETER 8.5731	EXT. PERIM		CIRCLE SIZE 3-4"
SOLID	SEMI-HOLLOW		HOLLOW
MATERIAL: 6063 T6			
WEBSTER: 7-11	SURFACE AREA:		





FULL SIZE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE Oct 26, 2000
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0823.03

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 03-0407.10
Expiration Date 05/26/08
By
Miami Dade Product Control
Division

STI-275

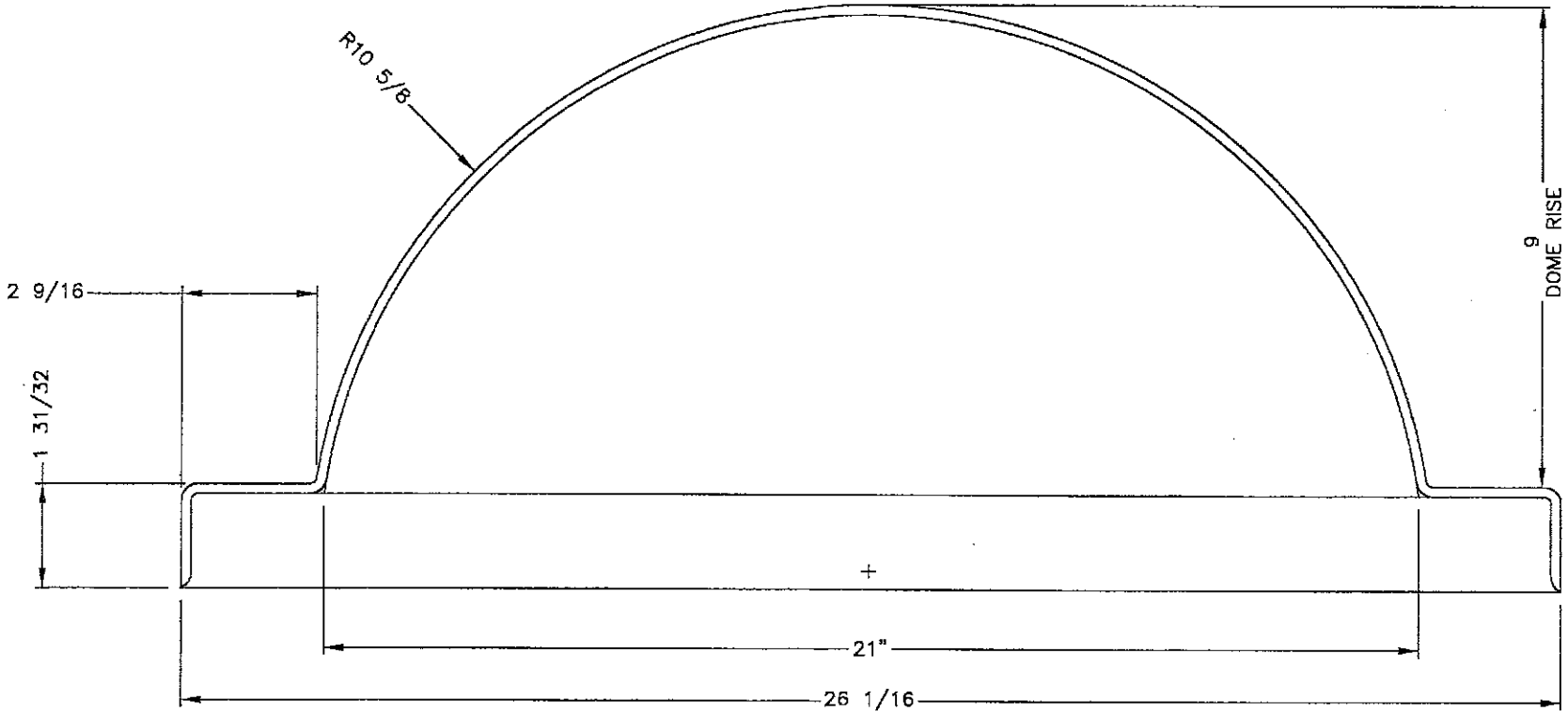
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0417.01
Expiration Date 05/26/2007
By
Miami Dade Product Control
Division

6-12-00

REVISION: DRAWN BY: MCK 9-20-90 CONVERTED TO AUTOCAD 10-01-96	REVISION:	PRODUCT NAME: CMTP	SUN-TEK INDUSTRIES, INC.
INI: LBR. DATE: 10-01-96	INI: DATE:	DATE: 9-20-90 SCALE: DWG No. 22001	10303 GENERAL DRIVE ORLANDO, FL 32824

PART NAME: 21" CM DOME	SHEET 5 OF 7 DRAWN BY: L. B. REED	DWG.#22001

MATERIAL : HYZOD SL POLYCARBONATE
.187 THICK



PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0417.01
Expiration Date 05/26/2009
Product Control Division

PRODUCT RENEWED
as complying with the Florida
Fla. 1.
03-0407.10
03/26/02
Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE May 26, 2000
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-082303

6-12-00

REVISION: IN:	DATE:	REVISION: IN:	DATE:	PRODUCT NAME: CURB MOUNTED TUBLAR SKYLIGHT	SUN-TEK INDUSTRIES, INC. 10303 GENERAL DRIVE ORLANDO, FL 32824
				DATE: 11/19/99 SCALE: DWG No. 22001	

PART NAME: INSTALLATION DESCRIPTION

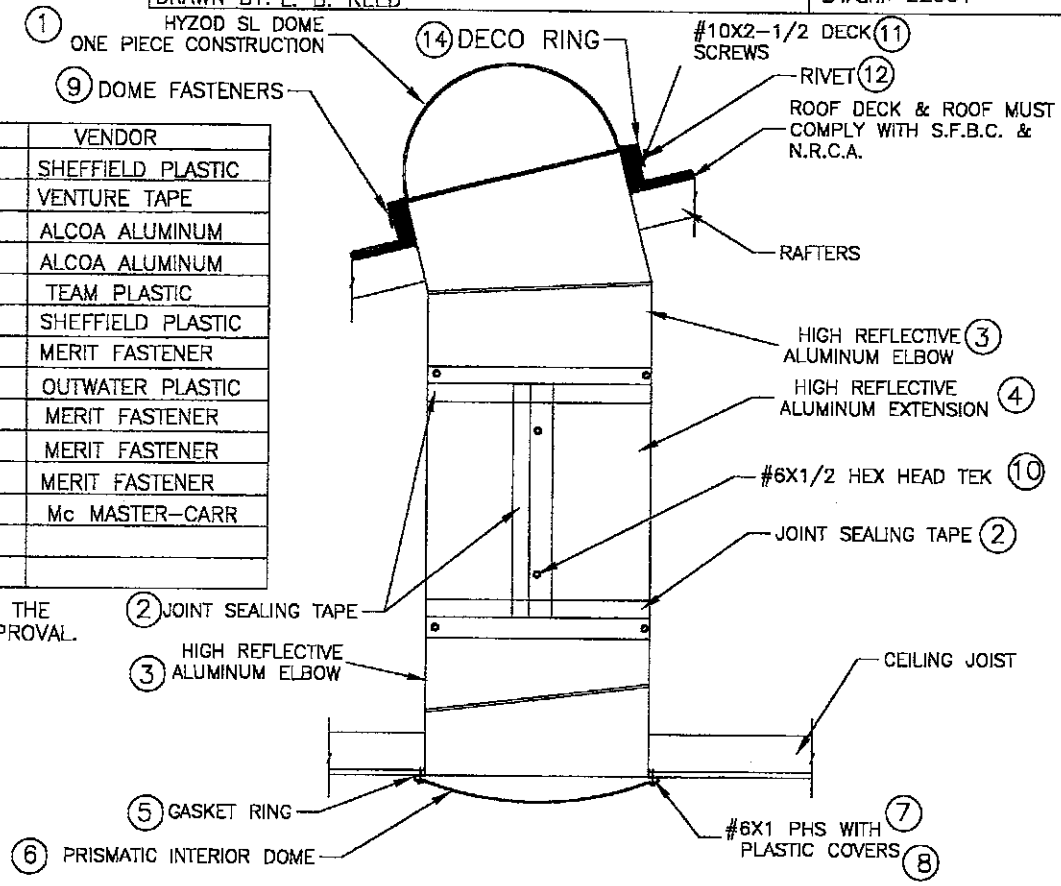
SHEET 4 OF 7

DRAWN BY: L. B. REED

DWG.#: 22001

ITEM	PART NAME	DISCRIPTION	VENDOR
1	EXTERIOR DOME	HYZOD "SL" DOME	SHEFFIELD PLASTIC
2	* SEALING TAPE	DUCT TAPE 2"	VENTURE TAPE
3	* ELBOWS	EVERBRIGHT 95	ALCOA ALUMINUM
4	* CONNECTOR	EVERBRIGHT 95	ALCOA ALUMINUM
5	* GASKET	INTERIOR DOME	TEAM PLASTIC
6	* INTERIOR DOME	.125 PRISMATIC POLYCARBONATE	SHEFFIELD PLASTIC
7	* #6 X 1" PHS.	ANCHORS INTERIOR DOME	MERIT FASTENER
8	* SCREW COVERS	PLASTIC WHITE	OUTWATER PLASTIC
9	#10 PHS X 2"	FASTENERS EXTERIOR DOME	MERIT FASTENER
10	* #6 X1/2"HEX TEK	TUBE FASTENERS	MERIT FASTENER
11	#10 X2-1/2" DECK SCREWS	CURB ANCHORS	MERIT FASTENER
12	3/16 X3/8"RIVETS	DECO RING FASTENER	Mc MASTER-CARR
13	* .020 GALV.	TUBE RETAINER	
14	DECO RING	EXTRUSION	

* THIS APPROVAL IS LIMITED TO THE DOME AND THE ATTACHMENT TO THE STRUCTURE AND THE ROOF. ALL OTHERS ARE NOT PART OF THIS APPROVAL.



DOME SPECIFICATIONS

21" DOME HEIGHT 9"

14" DOME HEIGHT 7-1/8"

10" DOME HEIGHT 5-1/8"

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 03-0407.10 Expiration Date 05/26/08 By Miami Dade Product Control Division

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 03-0407.10 Expiration Date 05/26/08 By Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE May 26, 2000 BY PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 99-0823.03

6-12-00

REVISION:		REVISION:		PRODUCT NAME: TUBULAR SKYLIGHT	
INI:	DATE:	INI:	DATE:	DATE: 04/19/99 SCALE:	DWG No. 22001

SUN-TEK INDUSTRIES, INC.

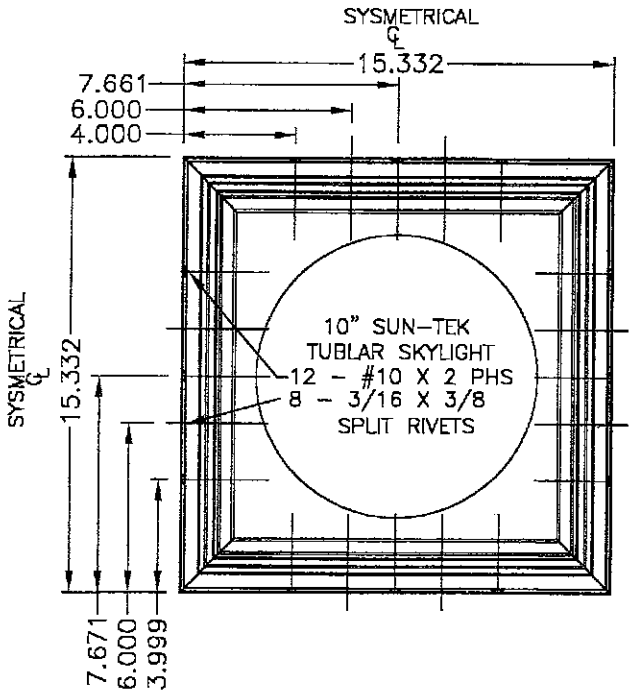
10303 GENERAL DRIVE ORLANDO, FL 32824

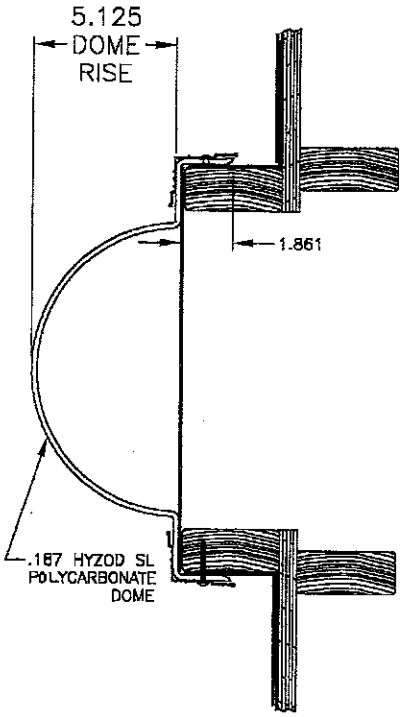
PART NAME: EXTERIOR DOME / METRO DADE / PLAN VIEW

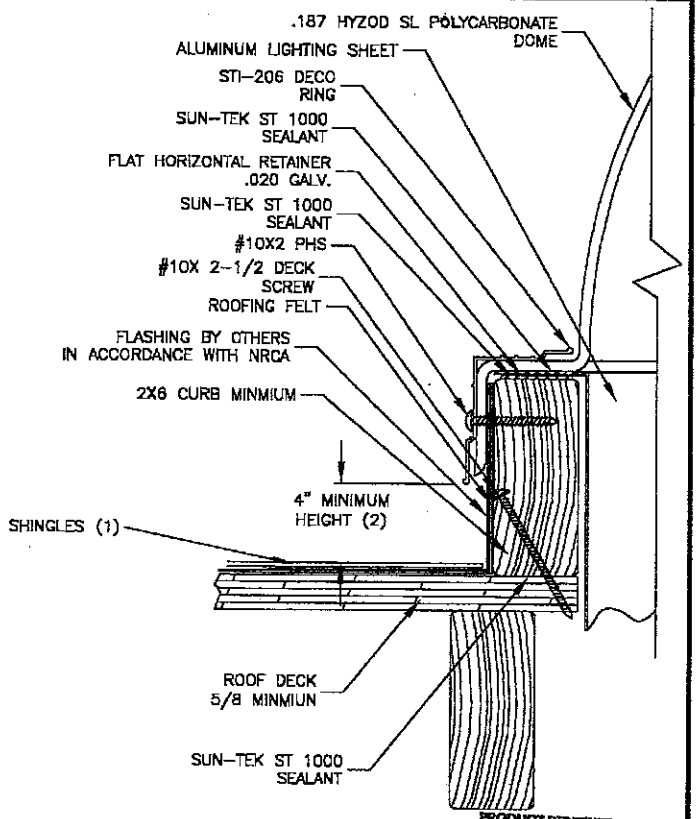
SHEET 3 OF 7

DRAWN BY: L. B. REED

DWG.#:22001







NOTE:
(1) ALL ROOFING DETAILS SHALL COMPLY WITH GHAPTER 34 OF THE SOUTH FLORIDA BUILDING CODE.
(2) 4" MINIMUM DISTANCE FROM ANGLE UP TO ROOF SURFACE IS FOR SHINGLE OR BUILT - UP ROOF WITHOUT INSULATION. FOR INSULATION AND TILE ADD THE TILE HEIGHT AND INSULATION THICKNESS TO THE 4" MINIMUM HEIGHT.
CURB TO DECK MOUNTING REQUIREMENTS
#10 X 2-1/2" DECK SCREWS
10" - 2 PER SIDE 8 TOTAL

POSITIVE DESIGN LOAD 65 PSF
NEGATIVE DESIGN LOAD 65 PSF
WATER TEST PRESSURE 15 PSF
DOME MATERIAL HYZOD 'SL'
ACCEPTANCE No. 98-0515.03

PRODUCT RENEWED
as complying with the Florida
05-0407.10
05/26/08
By
Miami-Dade Product Control
Division

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE May 26, 2000
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0823.03

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 08-0417.01
Expiration Date 05/26/2009
By
Miami-Dade Product Control
Division

6-12-08

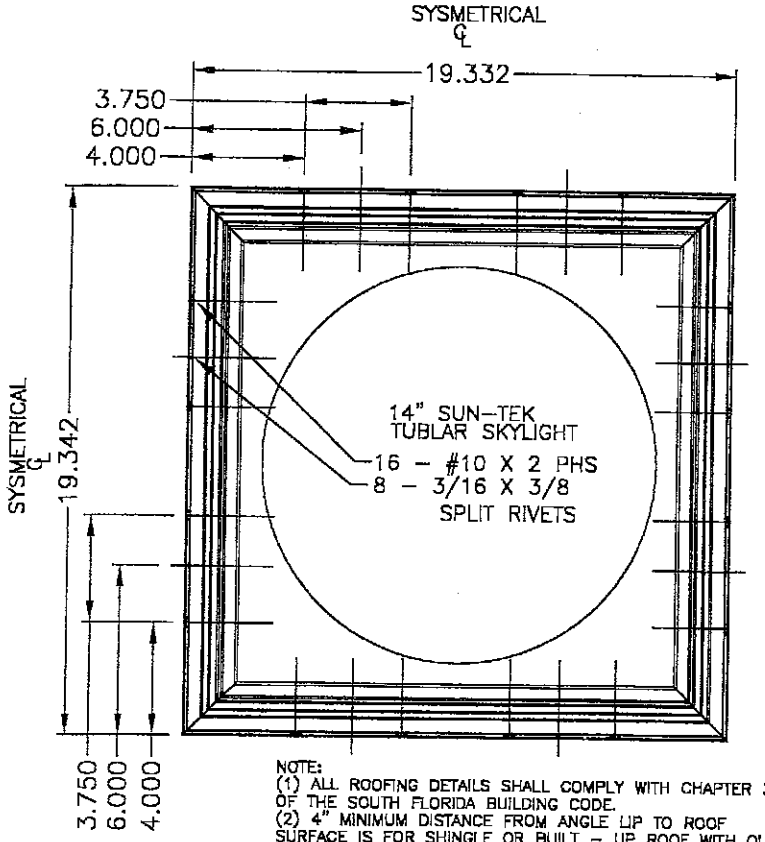
REVISION:		REVISION:		PRODUCT NAME: 10" TUBE LIGHT		SUN-TEK INDUSTRIES, INC.	10303 GENERAL DRIVE ORLANDO, FL 32824
IN:	DATE:	IN:	DATE:	DATE: 09/21/98	SCALE: DWG No. 22001		

PART NAME: EXTERIOR DOME / METRO DADE / PLAN VIEW

SHEET 2 OF 7

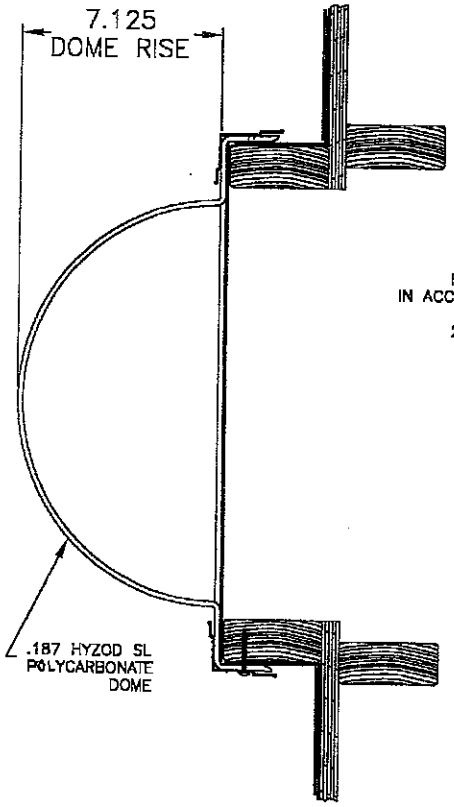
DRAWN BY: L. B. REED

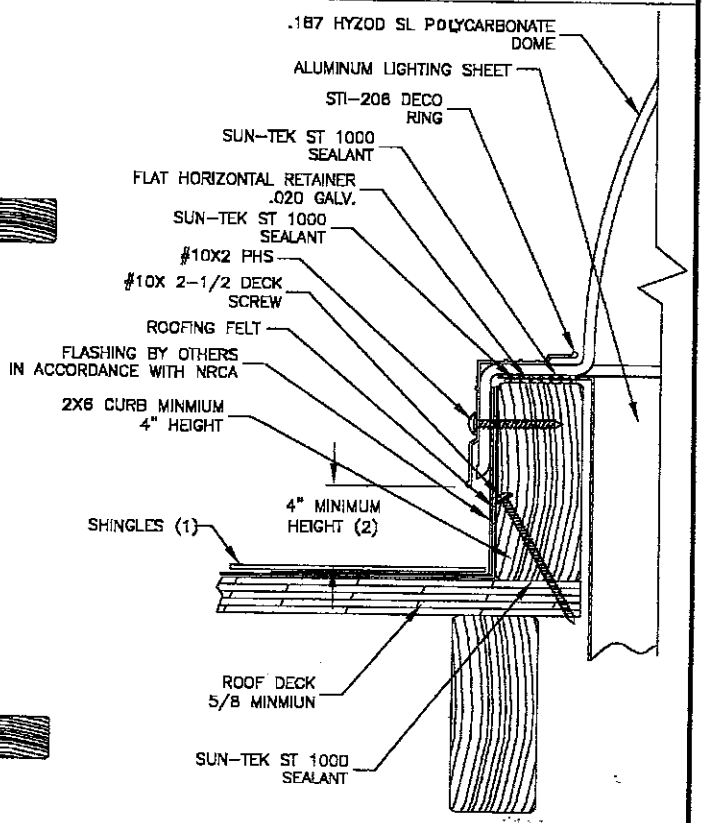
DWG.#:22001



NOTE:
(1) ALL ROOFING DETAILS SHALL COMPLY WITH CHAPTER 34 OF THE SOUTH FLORIDA BUILDING CODE.
(2) 4" MINIMUM DISTANCE FROM ANGLE UP TO ROOF SURFACE IS FOR SHINGLE OR BUILT - UP ROOF WITH OUT INSULATION. FOR INSULATION AND TILE ADD THE TILE HEIGHT AND THE INSULATION THICKNESS TO 4" MINIMUM HEIGHT.
CURB TO DECK MOUNTING REQUIREMENTS:
#10 X 2-1/2" DECK SCREWS
14" - 3 PER SIDE 12 TOTAL

POSITIVE DESIGN LOAD 65 PSF
NEGATIVE DESIGN LOAD 65 PSF
WATER TEST PRESSURE 15 PSF
DOME MATERIAL HYZOD 'SL'
ACCEPTANCE No. 98-0515.03





PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0417.01
Expiration Date: 05/31/2009
By
Miami Dade Product Control
Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE May 26, 2000
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0823.03

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 03-0407.10
Expiration Date: 05/31/2008
By
Miami Dade Product Control
Division

6-12-00

REVISION:		REVISION:		PRODUCT NAME: 14" TUBE LIGHT		
INI:	DATE:	INI:	DATE:	DATE: 09/21/98 SCALE:	DWG No. 22001	SUN-TEK INDUSTRIES, INC. 10303 GENERAL DRIVE ORLANDO, FL 32824

CeBB Engineering & Testing Co.
7450 Griffin Road, Suite 140
Fort Lauderdale, FL. 33314
(954) 581-7115 Phone
(954) 581-2415 Fax

Title : CANTOR Job # 13-0837 (73)
Dsgnr: Eduard C Badiu, P.E. Date: 9:45AM, 13 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Circular Concrete Column

Description 14" Diam Cast-In-Place Auger Pilings Worst Case Scenario

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Diameter	14.000 in	f'c	3,000.0 psi	Total Height	24.000 ft
Number of Bars	5	Fy	60,000.0 psi	Unbraced Length	0.000 ft
Bar Size	5	Seismic Zone	0	Eff. Length Factor	1.000
Total Rebar Area	1.550 in2	LL & ST Loads Act Separate		Column is BRACED	
Rebar Percent	1.007 %	Spiral Ties Used			
Bar Cover	2.500 in				

Loads

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design. Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

	Dead Load	Live Load	Short Term	Eccentricity
Axial Loads	22.810 k	8.780 k	3.240 k	in

Summary

Column is OK

Column Diameter= 14.00in, with 5 #5 Bars

	ACI C-1	ACI C-2	ACI C-3
Applied Pu : Max Factored	**46.86** k	**28.08** k	**24.74** k
Allowable Pn * Phi @ Design Ecc.	**273.01** k	**273.01** k	**273.01** k
M-critical	3.98 k-ft	2.39 k-ft	2.10 k-ft
Combined Eccentricity	1.0200 in	1.0200 in	1.0200 in
Magnification Factor	1.00	1.00	1.00
Design Eccentricity	1.0200 in	1.0200 in	1.0200 in
Magnified Design Moment	3.98 k-ft	2.39 k-ft	2.10 k-ft
Po * 0.85	409.35 k	409.35 k	409.35 k
P : Balanced	120.60 k	120.60 k	120.60 k
Ecc : Balanced	6.1890 in	6.1890 in	6.1890 in

Slenderness *per ACI 318-02 Section 10.12 & 10.13*

Actual k Lu / r 0.000 Elastic Modulus 3,122.0 ksi Beta 0.850

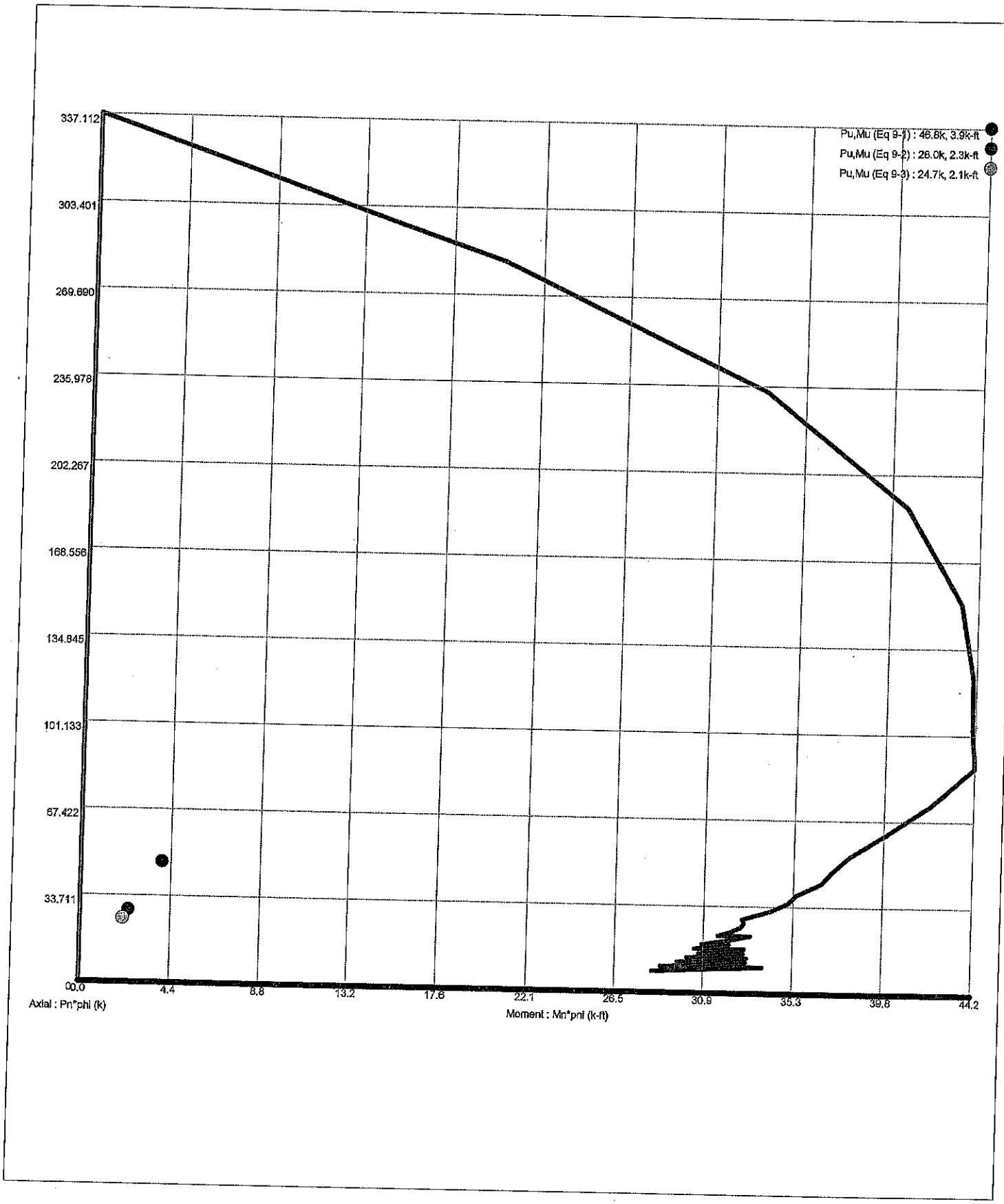
	ACI Eq. C-1	ACI Eq. C-2	ACI Eq. C-3
Neutral Axis Distance	13.0870 in	13.0870 in	13.0870 in
Phi	0.7000	0.7000	0.7000
Max Limit kl/r	34.0000	34.0000	34.0000
Beta = M:sustained/M:max	0.6815	0.8529	0.8298
Cm	1.0000	1.0000	1.0000
EI / 1000	0.00	0.00	0.00
Pc : pi^2 E I / (k Lu)^2	0.00	0.00	0.00
alpha: MaxPu / (.75 Pc)	0.0000	0.0000	0.0000
Delta	1.0000	1.0000	1.0000
Ecc: Ecc Loads + Moments	1.0200	1.0200	1.0200 in
Design Ecc = Ecc * Delta	**0.0000**	**0.0000**	**0.0000** in

ACI Factors (per ACI 318-02, applied internally to entered loads)

ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add'l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add'l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				

Spiral Tie Requirements *per 97 UBC 1910.9.3*

Spiral Tie Bar Size #	3	Min. Spiral Reinforcement Ratio	**0.032**
Gross Area of Column	**153.94** in2		
Core Area Within Spirals	**63.62** in2	Max Spiral Tie Spacing	**1.530** in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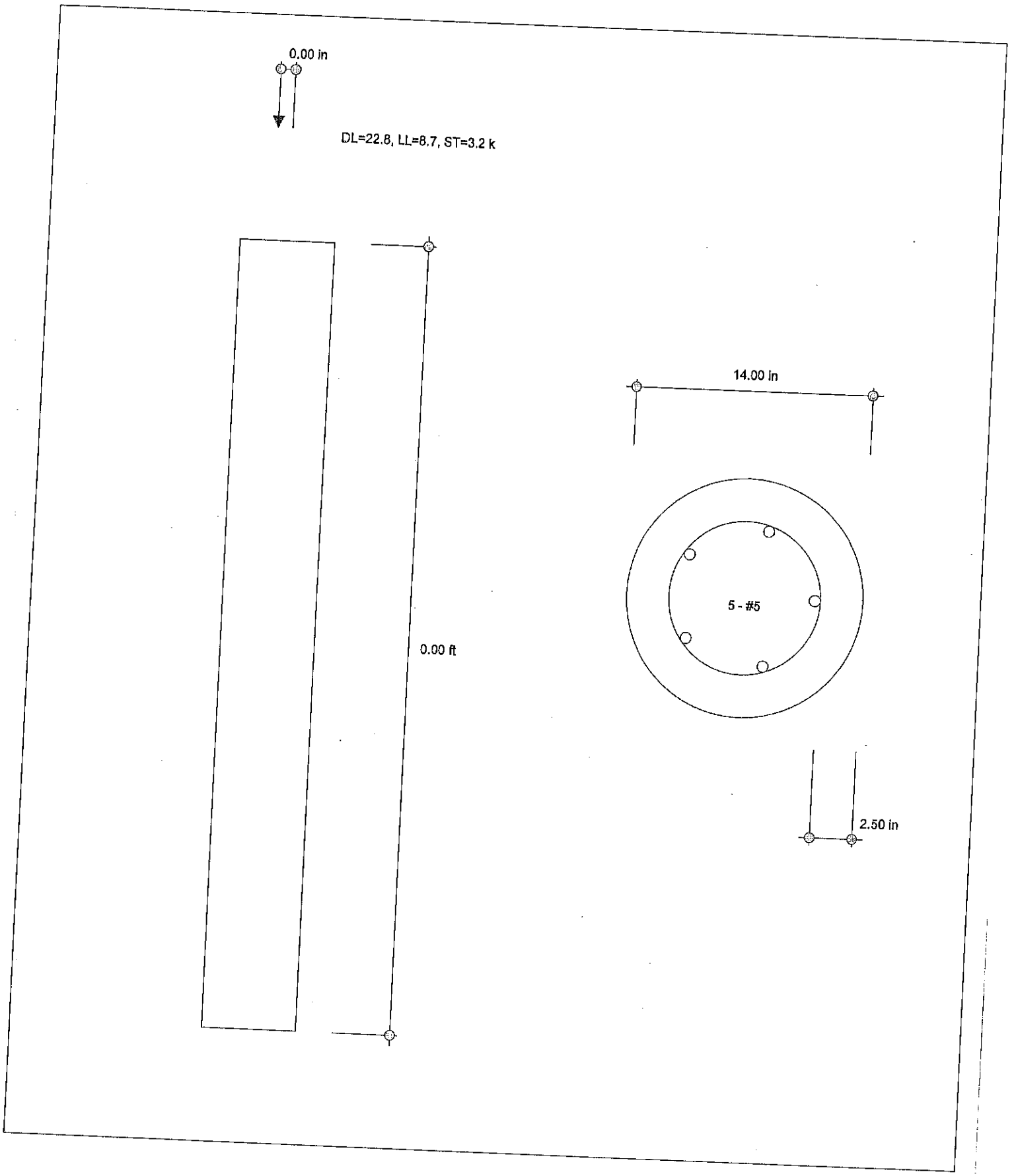
269.690
235.978
202.267
168.556
134.845
101.133
67.422
33.711
0.0
4.4
8.8
13.2
17.6
22.1
26.5
30.9
35.3
39.8
44.2
Axial : Pn*phi (k)
Moment : Mn*phi (k-ft)
Pu,Mu (Eq 9-1) : 46.8k, 3.9k-ft
Pu,Mu (Eq 9-2) : 26.0k, 2.3k-ft
Pu,Mu (Eq 9-3) : 24.7k, 2.1k-ft


0.00 in
DL=22.8, LL=8.7, ST=3.2 k
0.00 ft
14.00 in
5 - #5
2.50 in

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Title : CANTOR
Dsgnr: Eduard C Badiu, P.E.
Description : 1201 N South Lake Drive HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Job # 13-0837
Date: 9:52AM, 13 DEC 13

Rev: 560002
User: KW-0607554, Ver 5.8.0, 1-Dec-2003
(c)1983-2003 ENERCALC Engineering Software

Masonry Wall Design

Description MASONRY WALL ZONE 5

General Information

Code Ref: ACI 530-02

Wall Height	8.00 ft	Seismic Factor	0.3300	f'm	1,500.0 psi
Parapet Height	0.00 ft	Calc of Em = f'm *	900.00	Fs	24,000.0 psi
		Duration Factor	1.330	Special Inspection	
Thickness	8.0 in	Wall Wt Mult.	1.000	Solid Grouted	
Rebar Size	5			Medium Weight Block	
Rebar Spacing	48 in			Equivalent	
Depth to Rebar	3.810 in @ Center			Solid Thickness	7.600 in

Loads

Uniform Load		Concentric Axial Load			
Dead Load	330.000 #/ft	Dead Load	0.000 #/ft	Wind Load	46.100 psf
Live Load	396.000 #/ft	Live Load	0.000 #/ft		
Load Eccentricity	0.000 in	Roof Load			
Roof Load					

Design Values

E	1,350,000 psi	Rebar Area	0.078 in2	np	0.03641	j	0.92137
n : Es / Em	21.481	Radius of Gyration	2.205 in	k	0.23590	2 / kj	9.20187
Wall Weight	78.000 psf	Moment of Inertia	443.320 in4				

Max Allow Axial Stress = 0.25 f'm (1-(h/140r)^2) * SpInsp 338.73 psi
Allow Masonry Bending Stress = 0.33 f'm * SpInsp = 495.00 psi
Allow Steel Bending Stress = 24,000.00 psi

Load Combination & Stress Details Summary

	Moment in-#	Axial Load lbs	Bending Stresses Steel psi	Masonry psi	Axial Compression psi
Top of Wall					
DL + LL	0.0	726.0	0.0	0.0	7.96
DL + LL + Wind	0.0	330.0	0.0	0.0	3.62
DL + LL + Seismic	0.0	330.0	0.0	0.0	3.62
Between Base & Top of Wall					
DL + LL	0.0	1,038.0	0.0	0.0	11.38
DL + LL + Wind	4,425.6	642.0	16,267.2	233.8	7.04
DL + LL + Seismic	2,471.0	642.0	9,082.8	130.5	7.04

Summary

8.00ft high wall with 0.00ft parapet, Med Wt Block w/ 8.00in wall w/ #5 bars at 48.00ino.c. at center

Max. Bending Compressive Stress	240.82	OK
Allowable	658.35	**OK**
Max. Axial Only Compressive Stress	11.38	psi
Allowable	338.73	**OK**
Max Steel Bending Stress	16,267.18	psi
Allowable	31,920.00	**OK**

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Title : CANTOR Job # 13-0837
Dsgnr: Eduard C Badiu, P.E. Date: 9:52AM, 13 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Description MASONRY WALL ZONE 5

Final Loads & Moments

Wall Weight moment @ Mid Ht	312.00 lbs	Wind Moment @ Mid Ht	4,425.60 in-#
		Seismic Moment @ Mid Ht	2,471.04 in-#
Dead Load Moment @ Top of Wall	0.00 in-#		
Dead Load Moment @ Mid Ht	0.00 in-#	Total Dead Load	330.00 lbs
		Total Live Load	396.00 lbs
Live Load Moment @ Top of Wall	0.00 in-#		
LiveLoad Moment @ Mid Ht	0.00 in-#		
Maximum Allow Moment for Applied Axial Load =	6,529.37 in-#		
Maximum Allow Axial Load for Applied Moment =	30,891.81 lbs		

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Description : 1201 N South Lake Drive
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Scope : Additions and Renovations

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Rev: 580002
User: KW-0607554, Ver 5.8.0, 1-Dec-2003
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Masonry Wall Design

Description MASONRY WALL ZONE 4

General Information

Code Ref: ACI 530-02

Wall Height	8.00 ft	Seismic Factor	0.3300	f'm	1,500.0 psi
Parapet Height	0.00 ft	Calc of Em = f'm *	900.00	Fs	24,000.0 psi
		Duration Factor	1.330	Special Inspection	
Thickness	8.0 in	Wall Wt Mult.	1.000	Solid Grouted	
Rebar Size	5			Medium Weight Block	
Rebar Spacing	48 in			Equivalent Solid Thickness	7.600 in
Depth to Rebar	3.810 in @ Center				

Loads

Uniform Load		Concentric Axial Load		Wind Load	37.500 psf
Dead Load	330.000 #/ft	Dead Load	0.000 #/ft		
Live Load	396.000 #/ft	Live Load	0.000 #/ft		
Load Eccentricity	0.000 in	Roof Load			
Roof Load					

Design Values

E	1,350,000 psi	Rebar Area	0.078 in2	np	0.03641	j	0.92137
n : Es / Em	21.481	Radius of Gyration	2.205 in	k	0.23590	2 / kj	9.20187
Wall Weight	78.000 psf	Moment of Inertia	443.320 in4				

Max Allow Axial Stress = 0.25 f'm (1-(h/140r)^2) * SpInsp = 338.73 psi
Allow Masonry Bending Stress = 0.33 f'm * SpInsp = 495.00 psi
Allow Steel Bending Stress = 24,000.00 psi

Load Combination & Stress Details Summary

	Moment in-#	Axial Load lbs	Bending Stresses Steel psi	Bending Stresses Masonry psi	Axial Compression psi
Top of Wall					
DL + LL	0.0	726.0	0.0	0.0	7.96
DL + LL + Wind	0.0	330.0	0.0	0.0	3.62
DL + LL + Seismic	0.0	330.0	0.0	0.0	3.62
Between Base & Top of Wall					
DL + LL	0.0	1,038.0	0.0	0.0	11.38
DL + LL + Wind	3,600.0	642.0	13,232.5	190.2	7.04
DL + LL + Seismic	2,471.0	642.0	9,082.8	130.5	7.04

Summary

8.00ft high wall with 0.00ft parapet, Med Wt Block w/ 8.00in wall w/ #5 bars at 48.00ino.c. at center

Max. Bending Compressive Stress	197.21	OK
Allowable	658.35	**OK**
Max. Axial Only Compressive Stress	11.38	psi
Allowable	338.73	**OK**
Max Steel Bending Stress	13,232.52	psi
Allowable	31,920.00	**OK**

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Title : CANTOR
Dsgnr: Eduard C Badiu, P.E.
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Job # 13-0837
Date: 9:53AM, 13 DEC 13

Description MASONRY WALL ZONE 4

Final Loads & Moments

Wall Weight moment @ Mid Ht	312.00 lbs	Wind Moment @ Mid Ht	3,600.00 in-#
		Seismic Moment @ Mid Ht	2,471.04 in-#
Dead Load Moment @ Top of Wall	0.00 in-#		
Dead Load Moment @ Mid Ht	0.00 in-#	Total Dead Load	330.00 lbs
		Total Live Load	396.00 lbs
Live Load Moment @ Top of Wall	0.00 in-#		
LiveLoad Moment @ Mid Ht	0.00 in-#		
Maximum Allow Moment for Applied Axial Load =		6,529.37 in-#	
Maximum Allow Axial Load for Applied Moment =		30,891.81 lbs	

MecaWind Std v2.2.4.1 per ASCE 7-10

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Date	: 12/16/2013		
Company Name	: CeBB Engineering & Testing Co.	Project No.	: 13-0837
Address	: 7450 Griffin Road, Suite 140	Designed By	: Eduard C Badiu, P.E.
Residenc		Description	: Garage Door @ CANTOR
City	: Fort Lauderdale		
State	: FL. 33314	Customer Name	: Di STEFANO ARCHITECT
Proj Location	: Di STEFANO ARCHITECT\CANTOR, HOLLYWOOD\2013 1216 CANTOR WIND ASCE 7-10 GARAGE DOOR		

Input Parameters: Envelope Procedure per ASCE 7-10 Chapter 28 Part 1

Basic Wind Speed(V)	= 170.00 mph		
Structural Category	= II		
Natural Frequency	= N/A	Exposure Category	= C
Importance Factor	= 1.00	Flexible Structure	= No
Alpha	= 9.50	Kd Directional Factor	= 0.85
At	= 0.11	Zg	= 900.00 ft
Am	= 0.15	Bt	= 1.00
Cc	= 0.20	Bm	= 0.65
Epsilon	= 0.20	l	= 500.00 ft
Slope of Roof	= 0 : 12	Zmin	= 15.00 ft
Ht: Mean Roof Ht	= 10.00 ft	Slope of Roof(Theta)	= .00 Deg
RHt: Ridge Ht	= 10.00 ft	Type of Roof	= FLAT
OH: Roof Overhang at Eave	= 2.33 ft	Eht: Eave Height	= 10.00 ft
Bldg Length Along Ridge	= 62.50 ft	Overhead Type	= Overhang
		Bldg Width Across Ridge	= 50.00 ft

Gust Factor Calculations

Gust Factor Category I Rigid Structures - Simplified Method

Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use 0.85 = 0.85

Gust Factor Category II Rigid Structures - Complete Analysis

Zm:	0.6*Ht	= 15.00 ft
lzm:	Cc*(33/Zm)^0.167	= 0.23
Lzm:	l*(Zm/33)^Epsilon	= 427.06 ft
Q:	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	= 0.92
Gust2:	0.925*((1+1.7*Izm*3.4*Q)/(1+1.7*3.4*Izm))	= 0.88

Gust Factor Summary

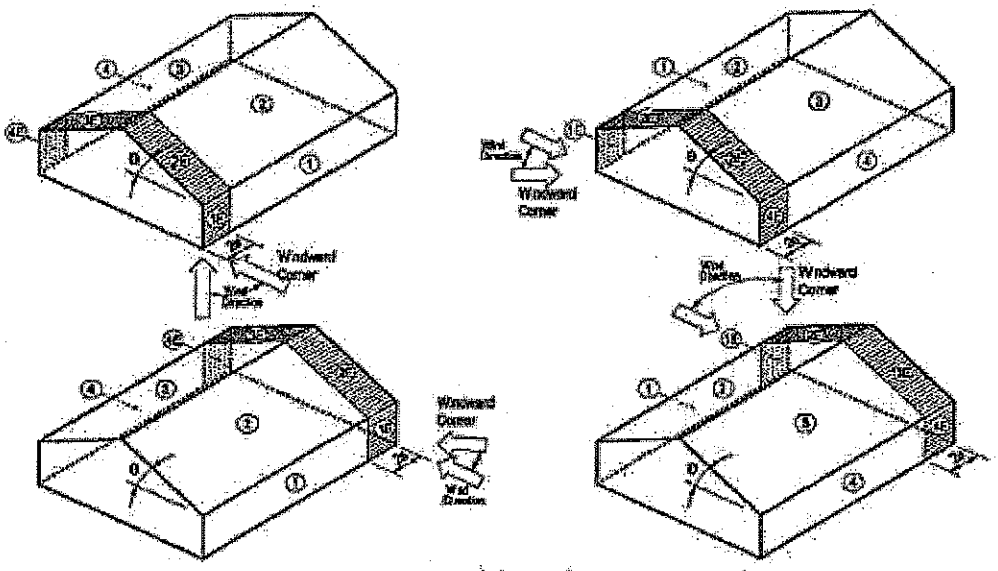
Not a Flexible Structure use the Lessor of Gust1 or Gust2 = 0.85

Table 26.11-1 Internal Pressure Coefficients for Buildings, GCpi

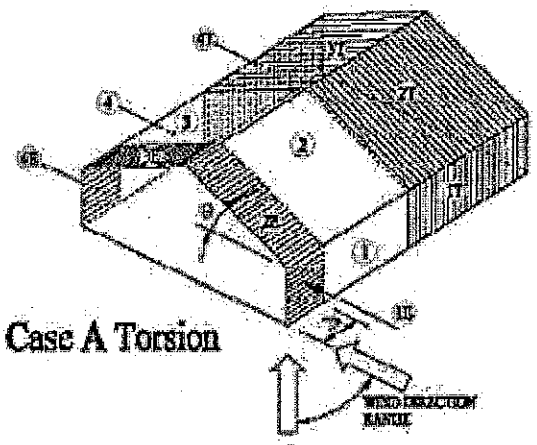
GCPi : Internal Pressure Coefficient = +/-0.18

Low Rise Bldg Provisions per Fig. 28.4-1: MWFRS Load Case A

All pressures shown are based upon ASD Design, with a Load Factor of .6



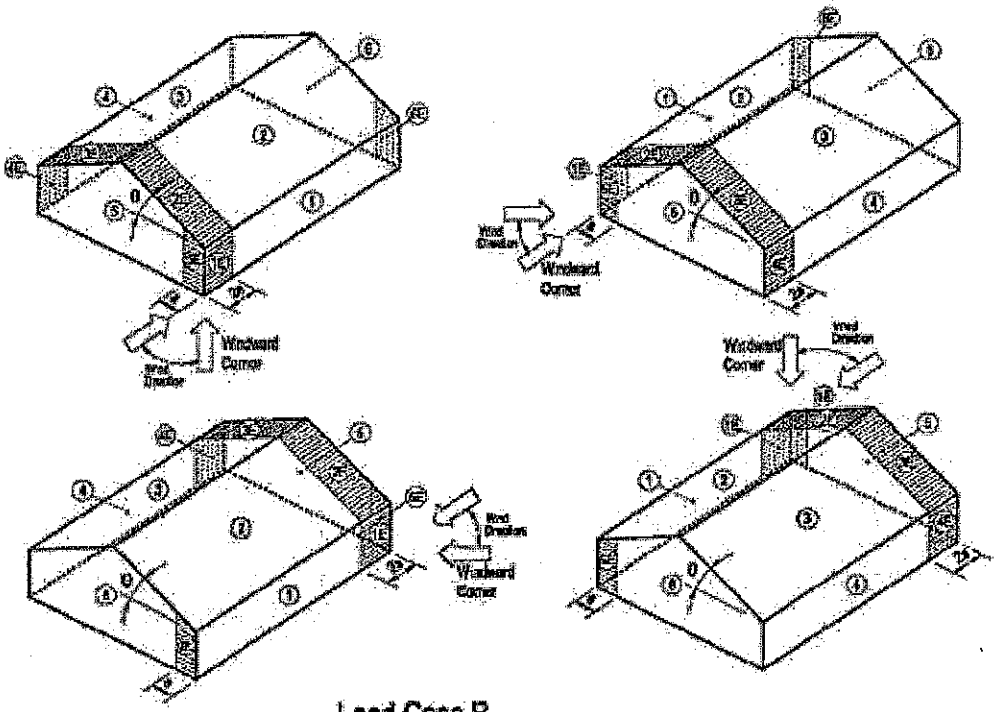
Load Case A



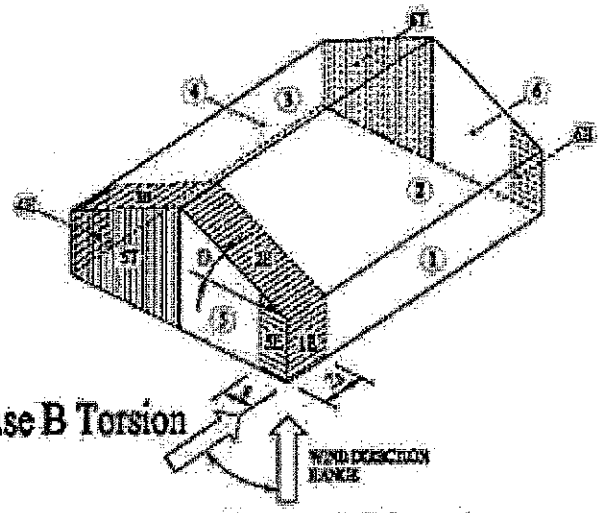
Transverse Direction

BUILDING Surface	GCpf	+GCpi	-GCpi	qh psf	Pressure psf
1	0.40	0.18	-0.18	32.03	18.58
2	-0.69	0.18	-0.18	32.03	-27.87
3	-0.37	0.18	-0.18	32.03	-17.62
4	-0.29	0.18	-0.18	32.03	-16.00
1E	0.61	0.18	-0.18	32.03	25.30
2E	-1.07	0.18	-0.18	32.03	-40.04
3E	-0.53	0.18	-0.18	32.03	-22.74
4E	-0.43	0.18	-0.18	32.03	-19.54
1T	*	*	*	*	.00
2T	*	*	*	*	.00
3T	*	*	*	*	.00
4T	*	*	*	*	.00

Low Rise Bldg Provisions per Fig. 28.4-1: MWFRS Load Case B
All pressures shown are based upon ASD Design, with a Load Factor of .6



Load Case B



Case B Torsion

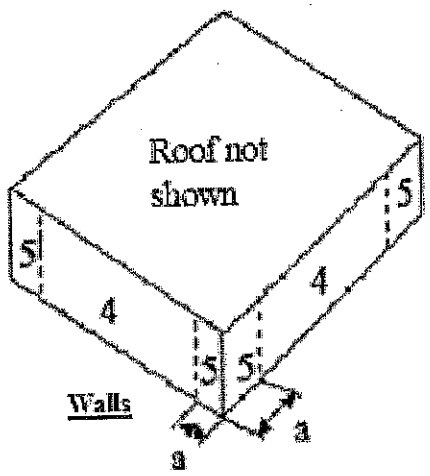
Longitudinal Direction

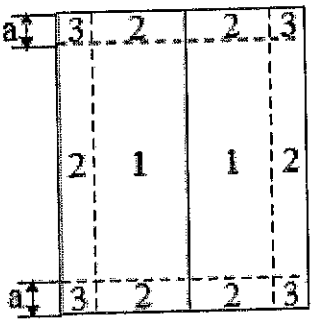
BUILDING Surface	GCpf	+GCpi	-GCpi	qh psf	Pressure psf
1	-0.45	0.18	-0.18	32.03	-20.18
2	-0.69	0.18	-0.18	32.03	-27.87
3	-0.37	0.18	-0.18	32.03	-17.62
4	-0.45	0.18	-0.18	32.03	-20.18
5	0.40	0.18	-0.18	32.03	18.58
6	-0.29	0.18	-0.18	32.03	-15.05
1E	-0.48	0.18	-0.18	32.03	-21.14
2E	-1.07	0.18	-0.18	32.03	-40.04
3E	-0.53	0.18	-0.18	32.03	-22.74
4E	-0.48	0.18	-0.18	32.03	-21.14
5E	0.61	0.18	-0.18	32.03	25.30

6E	-0.43	0.18	-0.18	32.03	-19.54
1T	*	*	*	*	.00
2T	*	*	*	*	.00
3T	*	*	*	*	.00
4T	*	*	*	*	.00
5T	*	*	*	*	.00
6T	*	*	*	*	.00

Figure 28.4-1 - Low-Rise Wal And Roof Figure Notes:
Notes: 1) Pressure = qh * (GCPf - (+/- GCpi)), only max value shown
2) For Torsional Load Cases, the zones are designated with a "T". The pressures(Min P & Max P) are 25% of the full design wind pressures(Ld Case 1T=25%*1(ld case 1),2T=25%*2,3T=25%*3,4T=25%*4). Exceptions to Torsional Load Cases: One story buildings with mean roof height<=30 ft(9.1m), buildings with two stories or less framed with light frame construction, and buildings two stories or less designed with flexible diaphragms need not be designed for the Torsional Load Cases. (Note 5 of Figure 6-10)

Wind Pressure on Components and Cladding (Ch 30 Part 1)





Gable Roof θ <= 7

All pressures shown are based upon ASD Design, with a Load Factor of .6

Width of Pressure Coefficient Zone "a" = = 4.00 ft

Description	Width ft	Span ft	Area ft^2	Zone	Max GCp	Min GCp	Max P psf	Min P psf
GARAGE DOOR	17.00	8.00	136.0	5	0.72	-0.90	28.82	-34.58

Khcc:Comp. & Clad. Table 6-3 Case 1 = 0.85
Qhcc:.00256*V^2*Khcc*Kht*Kd = 32.03 psf

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Title : CANTOR **Job #** 13-0837
Dsgnr: Eduard C Badiu, P.E. **Date:** 11:09AM, 17 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Steel Beam Design

Description SB ADJOINING BEDROOM 3

General Information

Code Ref: AISC 9th ASD, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Steel Section : TS8X3X3/16

Pinned-Pinned
Bm Wt. Added to Loads
LL & ST Act Together

Center Span	11.00 ft	Fy	36.00 ksi
Left Cant.	0.00 ft	Load Duration Factor	1.00
Right Cant	0.00 ft	Elastic Modulus	29,000.0 ksi
Lu : Unbraced Length	11.00 ft		

Distributed Loads

Note! Short Term Loads Are WIND Loads.

	# 1	# 2	# 3	# 4	# 5	# 6	# 7	
DL	0.265							k/ft
LL	0.330							k/ft
ST	0.170							k/ft
Start Location								ft
End Location	11.000							ft

Summary

Beam OK
Short Term Load Case Governs Stress

Using: TS8X3X3/16 section, Span = 11.00ft, Fy = 36.0ksi
End Fixity = Pinned-Pinned, Lu = 11.00ft, LDF = 1.000

	Actual	Allowable
Moment	11.770 k-ft	13.320 k-ft
fb : Bending Stress	19.087 ksi	21.600 ksi
fb / Fb	**0.884 : 1**	
Shear	4.280 k	43.200 k
fv : Shear Stress	1.427 ksi	14.400 ksi
fv / Fv	**0.099 : 1**	

Max. Deflection	-0.299 in
Length/DL Defl	1,236.4 : 1
Length/(DL+LL Defl)	442.0 : 1

Force & Stress Summary

<<-- These columns are Dead + Live Load placed as noted -->>

	Maximum	DL Only	LL @ Center	LL+ST @ Center	LL @ Cants	LL+ST @ Cants	
Max. M +	11.77 k-ft	4.21	9.20	11.77			k-ft
Max. M -							k-ft
Max. M @ Left							k-ft
Max. M @ Right							k-ft
Shear @ Left	4.28 k	1.53	3.35	4.28			k
Shear @ Right	4.28 k	1.53	3.35	4.28			k
Center Defl.	-0.299 in	-0.107	-0.233	-0.299	0.000	0.000	in
Left Cant Defl	0.000 in	0.000	0.000	0.000	0.000	0.000	in
Right Cant Defl	0.000 in	0.000	0.000	0.000	0.000	0.000	in
...Query Defl @	0.000 ft	0.000	0.000	0.000	0.000	0.000	in
Reaction @ Left	4.28	1.53	3.35	4.28			k
Reaction @ Rt	4.28	1.53	3.35	4.28			k

Fa calc'd per Eq. E2-2, K*L/r > Cc

Section Properties TS8X3X3/16

Depth	8.000 in	Weight	13.21 #/ft
Thickness	0.188 in	Ixx	29.600 in4
Width	3.000 in	Iyy	6.310 in4
		Sxx	7.400 in3
Area	3.89 in2	Syy	4.210 in3
Rt	1.500 in	R-xx	2.760 in
Values for LRFD Design....		R-yy	1.270 in
J	17.300 in4	Zx	9.490 in3
		Zy	4.730 in3

CeBB Engineering & Testing Co.
7450 Griffin Road, Suite 140
Fort Lauderdale, FL. 33314
(954) 581-7115 Phone
(954) 581-2415 Fax

Title : CANTOR **Job #** 13-0837
Dsgnr: Eduard C Badiu, P.E. **Date:** 11:10AM, 17 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Concrete Rectangular & Tee Beam Design

Description CANTILEVERED BEAM

General Information

Code Ref: ACI 318-02, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Span	4.00 ft	f'c	3,000 psi
Depth	16.250 in	Fy	60,000 psi
Width	8.000 in	Concrete Wt.	145.0 pcf
		Seismic Zone	0
		End Fixity	Fixed-Free
Beam Weight Added Internally		Live Load acts with Short Term	

Reinforcing

	Rebar @ Center of Beam...			Rebar @ Left End of Beam...			Rebar @ Right End of Beam...			
	Count	Size	'd' from Top	Count	Size	'd' from Top		Count	Size	'd' from Top
#1	2	5	2.00 in	2	5	2.00 in	#1	2	5	2.00 in
#2	2	5	8.00 in	2	5	8.00 in	#2	2	5	8.00 in
#3	2	5	14.00in	2	5	14.00 in	#3	2	5	14.00 in

Load Factoring

Note: Load factoring supports 2003 IBC and 2003 NFPA 5000 by virtue of their references to ACI 318-02 for concrete design. Factoring of entered loads to ultimate loads within this program is according to ACI 318-02 C.2

Concentrated Loads

	Dead Load	Live Load	Short Term	Location
#1	1.530 k	1.820 k	0.400 k	4.000 ft

Summary

Beam Design OK

Span = 4.00ft, Width= 8.00in Depth = 16.25in

Maximum Moment : Mu	-22.41 k-ft	Maximum Deflection	-0.0270 in
Allowable Moment : Mn*phi	53.80 k-ft		
Maximum Shear : Vu	5.75 k	Max Reaction @ Left	4.27 k
Allowable Shear : Vn*phi	52.89 k	Max Reaction @ Right	0.00 k

Shear Stirrups...

Stirrup Area @ Section	0.440 in2						
Region	0.000	0.667	1.333	2.000	2.667	3.333	4.000 ft
Max. Spacing	7.000	7.000	7.000	7.000	7.000	7.000	7.000 in
Max Vu	5.752	5.752	5.726	5.482	5.482	9.039	9.039 k

Bending & Shear Force Summary

Bending...	Mn*Phi	Mu, Eq. C-1	Mu, Eq. C-2	Mu, Eq. C-3
@ Left End	53.80 k-ft	-22.41 k-ft	-18.85 k-ft	-8.53 k-ft
@ Right End	53.80 k-ft	0.00 k-ft	0.00 k-ft	0.00 k-ft
Shear...	**Vn*Phi**	**Vu, Eq. C-1**	**Vu, Eq. C-2**	**Vu, Eq. C-3**
@ Left End	52.89 k	5.75 k	4.82 k	2.23 k
@ Right End	52.89 k	0.00 k	0.00 k	0.00 k

Deflection

Deflections...	Upward			Downward		
DL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0071 in	at	4.0000 ft
DL + LL + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0206 in	at	4.0000 ft
DL + LL + ST + [Bm Wt]	0.0000 in	at	0.0000 ft	-0.0270 in	at	4.0000 ft

Reactions...	@ Left	@ Right
DL + [Bm Wt]]	2.054 k	0.000 k
DL + LL + [Bm Wt]	3.874 k	0.000 k
DL + LL + ST + [Bm Wt]	4.274 k	0.000 k

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Title : CANTOR **Job #** 13-0837
Dsgnr: Eduard C Badiu, P.E. **Date:** 11:10AM, 17 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Description CANTILEVERED BEAM

Section Analysis

Evaluate Moment Capacity...	Center	Left End	Right End
X : Neutral Axis	3.210 in	3.355 in	3.355 in
a = beta * Xneutral	2.728 in	2.852 in	2.852 in
Compression in Concrete	55.661 k	58.176 k	58.176 k
Sum [Steel comp. forces]	18.752 k	16.185 k	16.185 k
Tension in Reinforcing	-74.400 k	-74.400 k	-74.400 k
Find Max As for Ductile Failure...			
X-Balanced	8.286 in	8.434 in	8.4337 in
Xmax = Xbal * 0.75	6.214 in	6.325 in	6.325 in
a-max = beta * Xbal	7.043 in	7.169 in	7.169 in
Compression in Concrete	107.756 k	109.680 k	109.680 k
Sum [Steel Comp Forces]	34.999 k	33.172 k	33.172 k
Total Compressive Force	142.755 k	142.852 k	142.852 k
AS Max = Tot Force / Fy	2.379 in2	2.381 in2	2.381 in2
Actual Tension As	1.240 **OK**	1.240 **OK**	0.000 **OK**

Additional Deflection Calcs

Neutral Axis	4.105 in	Mcr	12.05 k-ft
Igross	2,860.68 in4	Ms:Max DL + LL	16.05 k-ft
Icracked	895.61 in4	R1 = (Ms:DL+LL)/Mcr	0.751
Elastic Modulus	3,122.0 ksi	Ms:Max DL+LL+ST	16.05 k-ft
Fr = 7.5 * f'c^.5	410.792 psi	R2 = (Ms:DL+LL+ST)/Mcr	0.751
Z:Cracking	107.793 k/in	I:eff... Ms(DL+LL)	1,728.208 in4
		I:eff... Ms(DL+LL+ST)	1,728.208 in4
Eff. Flange Width	8.00 in		

ACI Factors (per ACI 318-02, applied internally to entered loads)

ACI C-1 & C-2 DL	1.400	ACI C-2 Group Factor	0.750	Add"l "1.4" Factor for Seismic	1.400
ACI C-1 & C-2 LL	1.700	ACI C-3 Dead Load Factor	0.900	Add"l "0.9" Factor for Seismic	0.900
ACI C-1 & C-2 ST	1.700	ACI C-3 Short Term Factor	1.300		
....seismic = ST * :	1.100				

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Title : CANTOR **Job #** 13-0837
Dsgnr: Eduard C Badiu, P.E. **Date:** 11:10AM, 17 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Steel Beam Design

Description STEEL BEAM AT VESTIBULE

General Information

Code Ref: AISC 9th ASD, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Steel Section : TS8X2X3/8

		Pinned-Pinned		Fy	36.00 ksi
Center Span	11.50 ft	Bm Wt. Added to Loads		Load Duration Factor	1.00
Left Cant.	2.00 ft	LL & ST Don't Act Together		Elastic Modulus	29,000.0 ksi
Right Cant	0.00 ft				
Lu : Unbraced Length	0.00 ft				

Distributed Loads

Note! Short Term Loads Are WIND Loads.

	# 1	# 2	# 3	# 4	# 5	# 6	# 7	
DL	0.325							k/ft
LL	0.390							k/ft
ST	0.200							k/ft
Start Location								ft
End Location								ft

Summary

Beam OK
Static Load Case Governs Stress

Using: TS8X2X3/8 section, Span = 11.50ft, Fy = 36.0ksi, Left Cant. = 2.00ft, Right Cant. = 0.00ft
End Fixity = Pinned-Pinned, Lu = 0.00ft, LDF = 1.000

	Actual	Allowable		
Moment	11.844 k-ft	19.800 k-ft	Max. Deflection	-0.241 in
fb : Bending Stress	14.213 ksi	23.760 ksi	Length/DL Defl	845.4 : 1
fb / Fb	**0.598 : 1**		Length/(DL+LL Defl)	369.6 : 1
Shear	4.300 k	86.400 k		
fv : Shear Stress	0.717 ksi	14.400 ksi		
fv / Fv	**0.050 : 1**			

Force & Stress Summary

	Maximum	DL Only	<<-- These columns are Dead + Live Load placed as noted -->> LL @ Center	LL+ST @ Center	LL @ Cants	LL+ST @ Cants	
Max. M +	11.84 k-ft	5.40	11.84	8.70	5.03	5.21	k-ft
Max. M -		-0.69	-0.69	-0.69	-1.47	-1.09	k-ft
Max. M @ Left		-0.69	-0.69	-0.69	-1.47	-1.09	k-ft
Max. M @ Right							k-ft
Shear @ Left	4.30 k	2.06	4.30	3.21	2.13	2.09	k
Shear @ Right	4.18 k	1.94	4.18	3.09	1.87	1.90	k
Center Defl.	-0.241 in	-0.109	-0.241	-0.177	-0.100	-0.104	in
Left Cant Defl	0.130 in	0.057	0.130	0.094	0.046	0.051	in
Right Cant Defl	0.000 in	0.000	0.000	0.000	0.000	0.000	in
...Query Defl @	0.000 ft	0.000	0.000	0.000	0.000	0.000	in
Reaction @ Left	5.84	2.75	4.99	3.90	3.60	3.19	k
Reaction @ Rt	4.18	1.94	4.18	3.09	1.87	1.90	k

Fa calc'd per Eq. E2-1, K*L/r < Cc

Section Properties TS8X2X3/8

Depth	8.000 in	Weight	22.35 #/ft
Thickness	0.375 in	Ixx	40.100 in4
Width	2.000 in	Iyy	3.850 in4
		Sxx	10.000 in3
Area	6.58 in2	Syy	3.850 in3
Rt	1.000 in	R-xx	2.470 in
Values for LRFD Design....		R-yy	0.765 in
J	12.600 in4	Zx	14.200 in3
		Zy	4.830 in3

CeBB Engineering & Testing Co.
7450 Griffin Road, Suite 140
Fort Lauderdale, FL. 33314
(954) 581-7115 Phone
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Title : CANTOR **Job #** 13-0837
Dsgnr: Eduard C Badiu, P.E. **Date:** 11:11AM, 17 DEC 13
Description : 1201 N South Lake Drive
HOLLYWOOD, FL. 33019
Scope : Additions and Renovations

Steel Beam Design

Description FLITCH PLATE AT KITCHEN-FLORIDA ROOM

General Information

Code Ref: AISC 9th ASD, 1997 UBC, 2003 IBC, 2003 NFPA 5000

Steel Section : LL5X3X3/8

		Pinned-Pinned		Fy	36.00 ksi
Center Span	12.00 ft	Bm Wt. Added to Loads		Load Duration Factor	1.00
Left Cant.	0.00 ft	LL & ST Don't Act Together		Elastic Modulus	29,000.0 ksi
Right Cant	0.00 ft				
Lu : Unbraced Length	12.00 ft				

Distributed Loads

Note! Short Term Loads Are WIND Loads.

	# 1	# 2	# 3	# 4	# 5	# 6	# 7	
DL	0.163							k/ft
LL	0.195							k/ft
ST	0.100							k/ft
Start Location								ft
End Location	12.000							ft

Summary

Beam OK
Static Load Case Governs Stress

Using: LL5X3X3/8 section, Span = 12.00ft, Fy = 36.0ksi
End Fixity = Pinned-Pinned, Lu = 12.00ft, LDF = 1.000

	Actual	Allowable
Moment	6.794 k-ft	7.911 k-ft
fb : Bending Stress	18.238 ksi	21.237 ksi
fb / Fb	**0.859 : 1**	
Shear	2.265 k	27.000 k
fv : Shear Stress	1.208 ksi	14.400 ksi
fv / Fv	**0.084 : 1**	

Max. Deflection	-0.413 in
Length/DL Defl	721.3 : 1
Length/(DL+LL Defl)	348.6 : 1

Force & Stress Summary

	Maximum	DL Only	LL @ Center	LL+ST @ Center	LL @ Cants	LL+ST @ Cants	
		<<-- These columns are Dead + Live Load placed as noted -->>					
Max. M +	6.79 k-ft	3.28	6.79	5.08			k-ft
Max. M -							k-ft
Max. M @ Left							k-ft
Max. M @ Right							k-ft
Shear @ Left	2.26 k	1.09	2.26	1.69			k
Shear @ Right	2.26 k	1.09	2.26	1.69			k
Center Defl.	-0.413 in	-0.200	-0.413	-0.309	0.000	0.000	in
Left Cant Defl	0.000 in	0.000	0.000	0.000	0.000	0.000	in
Right Cant Defl	0.000 in	0.000	0.000	0.000	0.000	0.000	in
...Query Defl @	0.000 ft	0.000	0.000	0.000	0.000	0.000	in
Reaction @ Left	2.26	1.09	2.26	1.69			k
Reaction @ Rt	2.26	1.09	2.26	1.69			k

Section Properties LL5X3X3/8

Depth	5.000 in	Weight	19.43 #/ft
Thickness	0.375 in	Ixx	14.700 in4
Width	3.000 in	Iyy	6.921 in4
		Sxx	4.470 in3
Area	5.72 in2	Syy	2.307 in3
Angle Spacing	0.000 in	R-xx	1.610 in
Values for LRFD Design....		R-yy	1.100 in

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

PGT Industries
1070 Technology Drive
North Venice, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "CA–740" Outswing Aluminum Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-CA740-LM**, titled "Casement Window Details – LM & SM", sheets 1 through 10 of 10, dated 08/08/12, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami–Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami–Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

APPROVED
MAY 12 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

MIAMI-DADE COUNTY APPROVED

4/4/13

REVIEWED & APP'D

12.17.13

NOA No. 12-1218.09
Expiration Date: April 11, 2018
Approval Date: April 11, 2013

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **MD-CA740-LM**, titled "Casement Window Details – LM & SM", sheets 1 through 10 of 10, dated 08/08/12, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

   along with marked-up drawings and installation diagram of a series CA740 outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-7065**, dated 10/05/12, signed and sealed by Marlin D. Brinson, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 12/07/12, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.01** issued to **E.I. DuPont DeNemours & Co., Inc.** for their **"DuPont Butacite® PVB Interlayer"** dated 09/08/11, expiring on 12/11/16.
2. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co.**, Inc. for their **"DuPont SentryGlas® Interlayer"** dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-2010**, dated December 10, 2012, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated December 10, 2012, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Proposal No. **12-1499** issued by Product Control, dated July 31, 2012, signed by Manuel Perez, P.E.

G. OTHER

1. None.

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-1218.09
Expiration Date: April 11, 2018
Approval Date: April 11, 2013

GENERAL NOTES: SERIES 740 IMPACT-RESISTANT CASEMENT WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED.

3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE, SEE TABLE 3, SHEET 4.

4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT EMBEDMENT AS SPECIFIED ON TABLE 3, SHEET 4. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

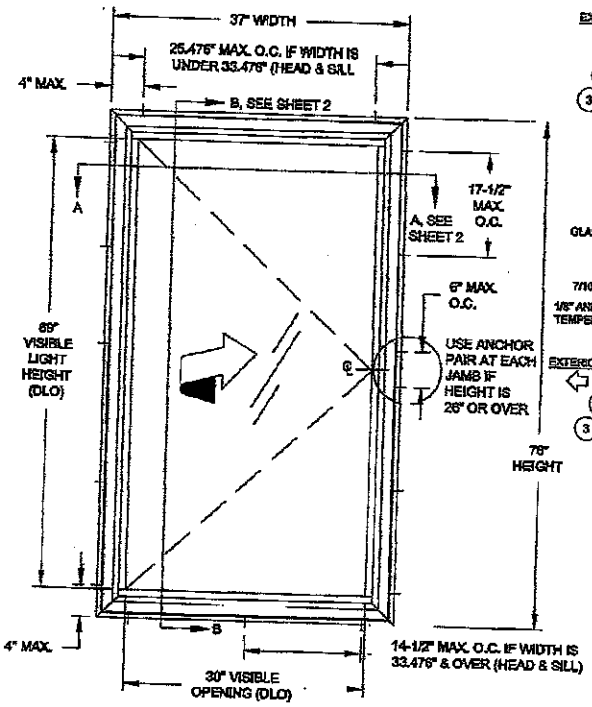
6) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS, WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

7) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL/CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.

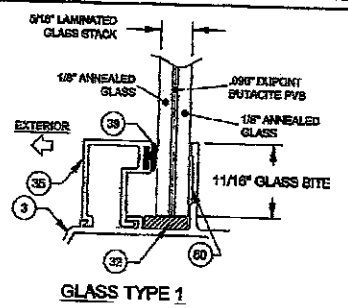
8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

9) REFERENCES: TEST REPORTS FTL-7065, 3579, 3580, 3724; ELCO ULTRACON NOA; ELCO CRETEFLEX NOA; ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM ALUMINUM DESIGN MANUAL.

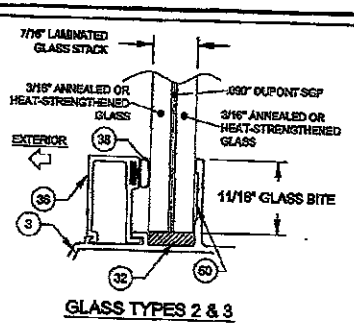
DESIGN PRESSURE RATING	IMPACT RATING
VARIES, SEE SHEETS 5-9	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE



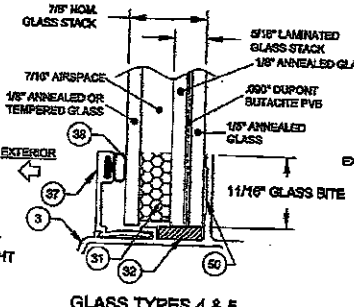
TYP. ELEVATION OF CASEMENT WINDOW



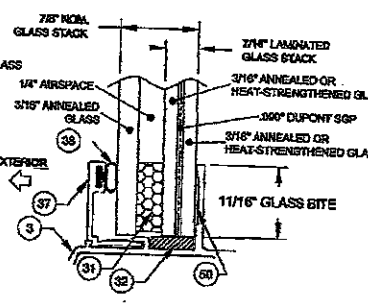
GLASS TYPE 1



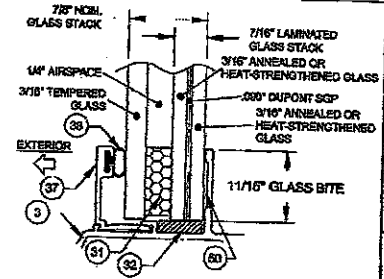
GLASS TYPES 2 & 3



GLASS TYPES 4 & 5



GLASS TYPES 6 & 7



GLASS TYPES 8 & 9

TABLE 1:

	Glass Types	Sheet #
1	5/16" Lami (1/8 An - .090" PVB - 1/8 An)	5
2	7/16" Lami (3/16 An - .090" SGP - 3/16 An)	6
3	7/16" Lami (3/16 HS - .090" SGP - 3/16 HS)	7
4	7/8" Lami. IG (1/8" An - 7/16" Air - 1/8" An - .090" PVB - 1/8" An)	5
5	7/8" Lami. IG (1/8" T - 7/16" Air - 1/8" An - .090" PVB - 1/8" An)	8
6	7/8" Lami. IG (3/16" An - 1/4" Air - 3/16" An - .090" SGP - 3/16" An)	9
7	7/8" Lami. IG (3/16" An - 1/4" Air - 3/16" HS - .090" SGP - 3/16" HS)	7
8	7/8" Lami. IG (3/16" T - 1/4" Air - 3/16" An - .090" SGP - 3/16" An)	9
9	7/8" Lami. IG (3/16" T - 1/4" Air - 3/16" HS - .090" SGP - 3/16" HS)	7

SP 12.17.13

GENERAL NOTES..... 1
ELEVATION..... 1
GLAZING DETAILS..... 1
INSTALLATION..... 2
ASSEMBLY TUBE DETAILS..... 3
ANCHOR SPECIFICATIONS..... 4
ANCHOR QUANTITIES..... 4
DESIGN PRESSURES..... 5-9
ASSEMBLY DETAILS/BOM..... 10

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/18/13
A. LYNN MILLER, P.E. P.E.# 58705

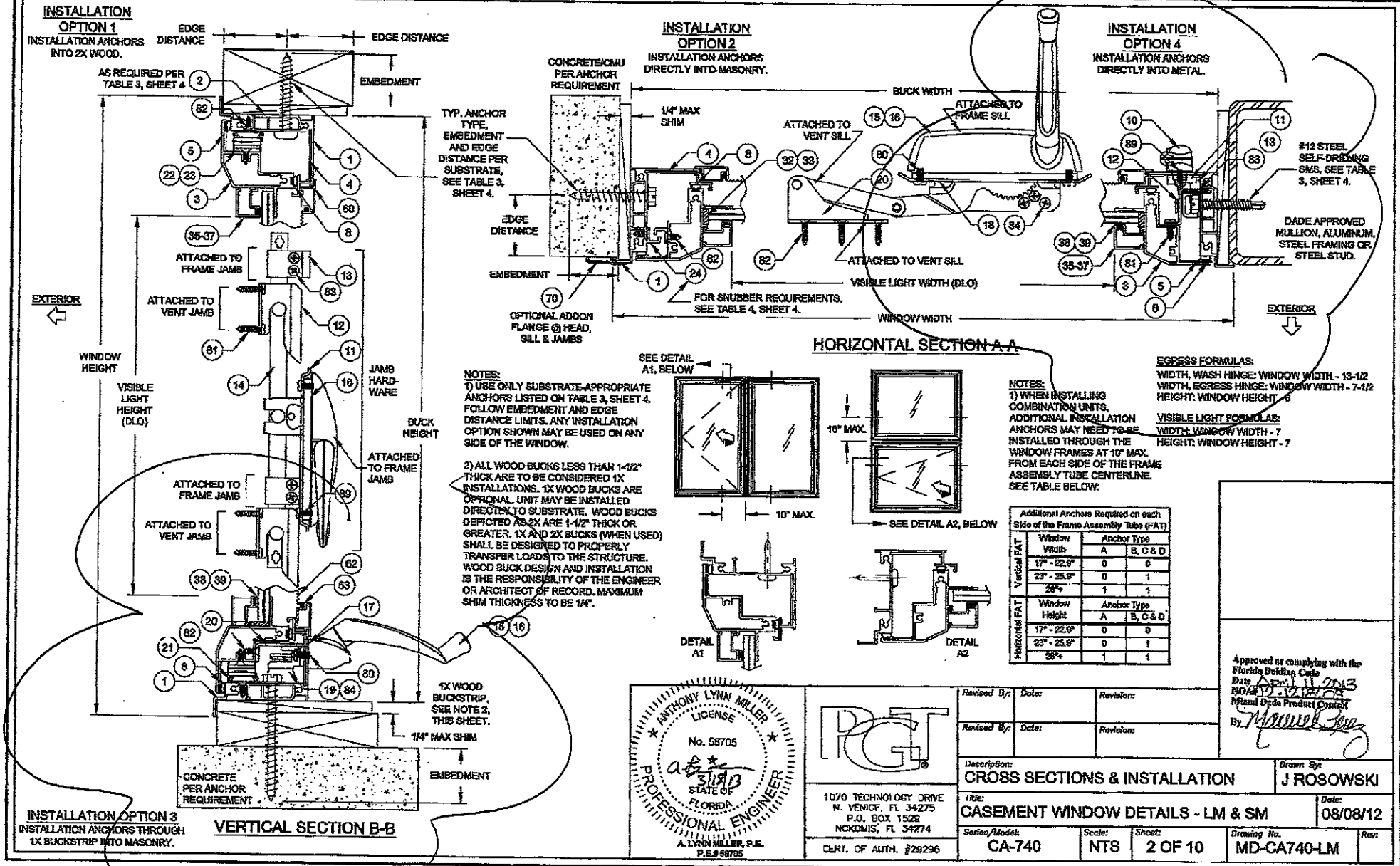
PGT
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

Approved as complying with the Florida Building Code
Date: Apr. 11 2013
NOA# 12-12.12
Miami Dade Product Control
By

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:

Description: GLAZING DETAILS
Drawn By: J ROSOWSKI
Title: CASEMENT WINDOW DETAILS - LM & SM
Date: 08/08/12
Series/Model: CA-740
Scale: NTS
Sheet: 1 OF 10
Drawing No.: MD-CA740-LM
Rev.

SD 12.17.13



NOTES:

1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 3, SHEET 4. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD. MAXIMUM SHIM THICKNESS TO BE 1/4".

NOTES:

1) WHEN INSTALLING COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS MAY NEED TO BE INSTALLED THROUGH THE WINDOW FRAMES AT 10" MAX. FROM EACH SIDE OF THE FRAME ASSEMBLY TUBE CENTERLINE. SEE TABLE BELOW:

Additional Anchors Required on each Side of the Frame Assembly Tube (FAT)			
Vertical FAT	Window Width	Anchor Type A	Anchor Type B, C & D
	17" - 22.9"	0	0
	23" - 25.9"	0	1
	26"+	1	1
Horizontal FAT	Window Height	Anchor Type A	Anchor Type B, C & D
	17" - 22.9"	0	0
	23" - 25.9"	0	1
	26"+	1	1

EGRESS FORMULAS:

WIDTH, WASH HINGE: WINDOW WIDTH - 13-1/2
WIDTH, EGRESS HINGE: WINDOW WIDTH - 7-1/2
HEIGHT: WINDOW HEIGHT - 6

VISIBLE LIGHT FORMULAS:

WIDTH: WINDOW WIDTH - 7
HEIGHT: WINDOW HEIGHT - 7

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/18/13
A. LYNN MILLER, P.E.
P.E.# 58705

PGT®
1070 TECHNOLOGY DRIVE
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NOKOMIS, FL 34274
CERT. OF AUTH. #29296

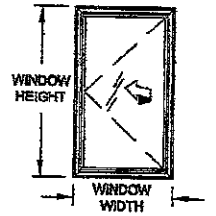
Approved as complying with the Florida Building Code
Date: Apr 11 2013
Miami Dade Product Control
By: Marcel Lenz

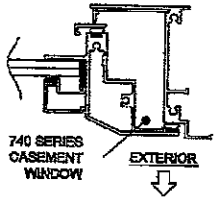
Revised By:	Date:	Revision:
Revised By:	Date:	Revision:

Description: CROSS SECTIONS & INSTALLATION
Drawn By: J ROSOWSKI
Title: CASEMENT WINDOW DETAILS - LM & SM
Date: 08/08/12
Series/Model: CA-740
Scale: NTS
Sheet: 2 OF 10
Drawing No.: MD-CA740-LM
Rev:

SD 12.17.13

CASEMENT (X)





FOR SINGLE UNITS:

1) DETERMINE YOUR WINDOW SIZE AND GLASS.

2) KNOWING YOUR ANCHOR TYPE AND SUBSTRATE, DETERMINE YOUR ANCHOR GROUP FROM TABLE 3, SHEET 4.

3) FROM SHEETS 5-9, FIND THE SHEET FOR YOUR GLASS TYPE. FIND THE PRODUCT'S DESIGN PRESSURE FROM THE TABLE LABELED *"DESIGN PRESSURE (PSF) FOR SINGLE WINDOWS, ALL ANCHOR GROUPS"*.

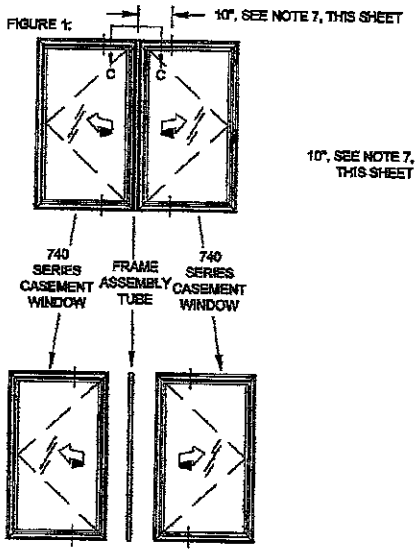
4) DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.

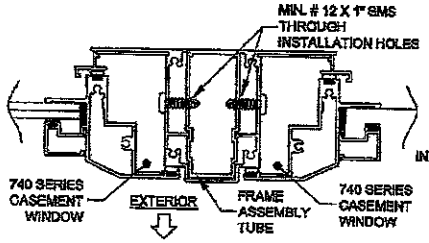
5) USING THE TABLE LABELED *"WINDOW ANCHORS REQUIRED"* (TABLE 2, SHEET 4), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.

6) INSTALL AS PER THE INSTRUCTIONS ON SHEET 2.

CASEMENT / CASEMENT (XX)

FIGURE 1:

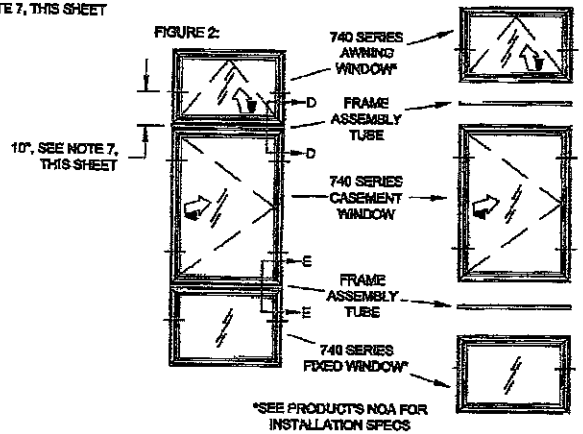


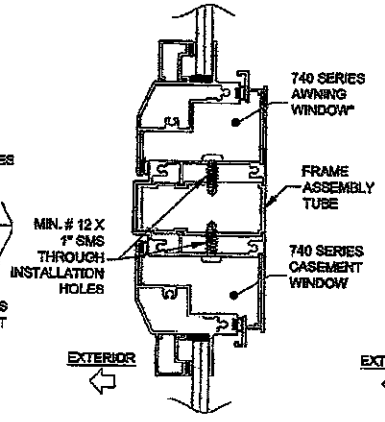


HORIZONTAL SECTION C-C

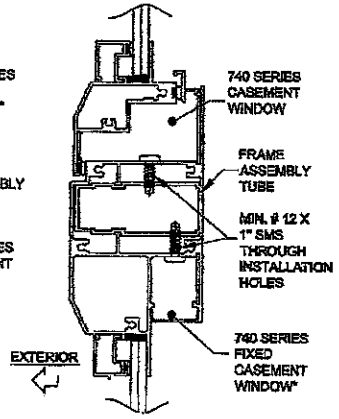
AWNING / CASEMENT / FIXED CASEMENT (XXO)

FIGURE 2:





VERTICAL SECTION D-D



VERTICAL SECTION E-E

FOR EACH WINDOW IN A VERTICALLY OR HORIZONTALLY COMBINED ASSEMBLY:

1) DETERMINE EACH INDIVIDUAL WINDOW TYPE, SIZE AND GLASS MAKEUP, SEE FIGURES 1 & 2, THIS SHEET. DETERMINE YOUR ANCHOR GROUP FROM TABLE 3, SHEET 4.

2) FROM SHEETS 5-9, FIND THE SHEET FOR YOUR GLASS TYPE.

3) FIND THE DESIGN PRESSURE FROM THE TABLES LABELED *"DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A VERTICAL FRAME ASSEMBLY TUBE"* OR *"DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A HORIZONTAL FRAME ASSEMBLY TUBE"*, DEPENDING ON WHICH WAY THE FRAME ASSEMBLY TUBE IS ORIENTATED. THIS MUST BE DONE FOR EACH WINDOW IN THE ASSEMBLY, AND THE LOWEST DESIGN PRESSURE APPLIES TO THE ENTIRE ASSEMBLY. DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.

4) USING THE TABLE LABELED *"WINDOW ANCHORS REQUIRED"* (TABLE 2, SHEET 4), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.

5) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2-3. NOTE THAT ADDITIONAL ANCHORS THROUGH THE WINDOW FRAME INTO THE SUBSTRATE MAY BE REQUIRED (SEE SHEET 2), AND THAT MIN. #12 X 1" ANCHORS ARE TO BE USED THROUGH THE FRAME INTO THE FRAME ASSEMBLY TUBE (SEE DETAILS ON THIS SHEET).

FRAME ASSEMBLY TUBE NOTES:

1) DIMENSIONS SHOWN ARE TIP-TO-TIP DIMENSIONS FOR EACH INDIVIDUAL WINDOW. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.

2) ANY 740-SERIES PRODUCT (CASEMENT, AWNING OR FIXED CASEMENT) MAY BE ATTACHED TO THE FRAME ASSEMBLY TUBE. FOR ALL WINDOWS, USE THE WINDOWS NOA FOR ANCHORAGE, SIZE AND DESIGN PRESSURE LIMITATIONS.

3) ALL WINDOWS IN THE COMBINATION UNIT MUST BE ABLE TO INDIVIDUALLY COMPLY WITH THE REQUIREMENTS OF THEIR RESPECTIVE NOA.

4) FRAME ASSEMBLY TUBE TO BE FASTENED TO WINDOW, AS SHOW IN DETAILS, WITH MIN. #12 X 1" SHEET METAL SCREWS. USE THE SAME SPACING AND QUANTITY AS THE OPPOSITE FRAME MEMBER.

5) THE FRAME ASSEMBLY TUBE MAY NOT EXCEED 62" IN LENGTH (AS USED IN A 63" FLANGED WINDOW) OR BE USED IN TEE OR CROSS CONFIGURATIONS.

6) THE FRAME ASSEMBLY TUBE IS NOT REQUIRED TO BE CLIPPED TO THE SUBSTRATE. ALL EXTERIOR JOINTS TO BE SEALED BY INSTALLER.

7) FOR ALL COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS MAY NEED TO BE INSTALLED THROUGH THE WINDOW FRAMES AT 10" MAX. FROM EACH SIDE OF THE FRAME ASSEMBLY TUBE CENTERLINE. SEE TABLE BELOW:

Additional Anchors Required on each Side of the Frame Assembly Tube (FAT)			
Vertical FAT	Window Width	Anchor Type	
		A	B, C & D
	17" - 22.5"	0	0
	23" - 25.9"	0	1
	26"+	1	1
Horizontal FAT	Window Height	Anchor Type	
		A	B, C & D
	17" - 22.5"	0	0
	23" - 25.5"	0	1
	26"+	1	1

Approved as complying with the Florida Building Code
Date: Dec 11, 2013
NOA# 12-1218.03
Miami-Dade Product Control
By: Manuel Perez

Revisions	Date	Rev.

Drawn By: J ROSOWSKI
Date: 08/08/12
Description: FRAME ASSEMBLY TUBE DETAILS
Title: CASEMENT WINDOW DETAILS - LM & SM
Series/Model: CA-740
Scale: NTS
Sheet: 3 OF 10
Drawing No.: MD-CA740-LM

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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NOKOMIS, FL 34274
CERT. OF AUT-L #29296

ANTHONY LYNN MILLER
LICENSE
No. 58705
3/19/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Anthony Miller P.E.
P.E.# 58705

TABLE 2:

Window Anchors Required

Window Height (in)		Window Width (in)																					
		under 23"			23-15/16"			27-3/4"			30"			33-1/2"			35"			37"		
		Anchor Group			Anchor Group			Anchor Group			Anchor Group			Anchor Group			Anchor Group			Anchor Group		
		A	B	C & D	A	B	C & D	A	B	C & D	A	B	C & D	A	B	C & D	A	B	C & D	A	B	C & D
under 23"	Jamb	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Head/Sill	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	3	3	3	3	3	3
23-15/16"	Jamb	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Head/Sill	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	3	3	3	3	3	3
38-3/8"	Jamb	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Head/Sill	2	2	2	2	2	2	2	2	2	2	3	2	3	3	2	3	3	3	3	4	3
48"	Jamb	4	4	4	4	6	4	4	6	4	4	6	4	4	6	4	4	6	4	6	6	4
	Head/Sill	2	2	2	2	2	2	2	2	2	2	3	2	3	3	2	3	3	3	3	4	3
60-3/8"	Jamb	4	6	4	4	6	4	4	6	4	4	6	4	6	6	4	6	6	4	6	6	4
	Head/Sill	2	2	2	2	2	2	2	2	2	2	3	2	3	3	2	3	3	3	3	4	3
60"	Jamb	6	6	4	6	6	4	6	6	4	6	6	4	6	6	4	6	6	4	6	6	4
	Head/Sill	2	2	2	2	2	2	2	2	2	2	3	2	3	3	2	3	3	3	3	4	3
63"	Jamb	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Head/Sill	2	2	2	2	2	2	2	2	2	2	3	2	3	3	2	3	3	3	3	4	3
72"	Jamb	6	8	6	6	8	6	8	8	6	8	10	6	8	10	6	8	10	6	8	10	6
	Head/Sill	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	3	3	3	3	4	3
76"	Jamb	6	8	8	8	8	8	8	10	8	8	10	8	8	10	8	8	10	8	8	10	8
	Head/Sill	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	3	3	3	3	4	3
84"	Jamb	8	8	6	8	10	6	8	10	6	8	10	6	8	10	6						
	Head/Sill	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2						

TABLE 4:

Jamb Snubber Locations

Window Height	Glass Type: PVB (Types 1, 4 & 5)	Glass Type: SGP (Types 2, 3 & 6-9)
63" and less	None Required	12" max. from each end & 30" max O.C.
over 63"	12" max. from each end & 30" max O.C.	12" max. from each end & 30" max O.C.

1) USE THIS TABLE FOR ALL WINDOWS PER THE ELEVATIONS ON SHEET 1. DIMENSIONS SHOWN ARE WINDOW TIP-TO-TIP.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

SAMPLE CONFIGURATIONS:

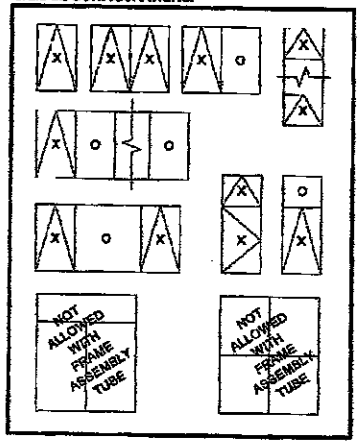


TABLE 3:

Group	Anchor	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment	Anchor Plate Required?
A	1/4" steel Ultracon	Hollow Block	1"	8"	1-1/4"	No
	#14, steel SMS (G5) or #14, 410 SS SMS	S. Pine	5/8"	1"	1-3/8"	No
		6063-T5 Alum.	3/8"	5/8"	0.050	No
		A36 Steel	3/8"	5/8"	0.050	No
		A653 Stud, Gr. 33	3/8"	5/8"	.035", 20 Ga.	No
B	#12, steel SMS (G5) or #12, 410 SS SMS	S. Pine	5/8"	1"	1-3/8"	No
		6063-T5 Alum.	3/8"	5/8"	.050"	No
		A36 Steel	3/8"	5/8"	.050"	No
		A653 Stud, Gr. 33	3/8"	5/8"	.035", 20 Ga.	No
C	1/4" steel Ultracon	2.65k Concrete	2-1/2"	4"	1-3/8"	No
		2.65k Concrete	1"	4"	1-3/4"	No
		Hollow Block	2-1/2"	5"	1-1/4"	No
	#12, steel SMS (G5) or #12, 410 SS SMS	S. Pine	5/8"	1"	1-3/8"	Yes
		6063-T5 Alum.	3/8"	5/8"	1/16"	Yes
		A36 Steel	3/8"	5/8"	.050"	Yes
		A653 Stud, Gr. 33	3/8"	5/8"	.045", 18 Ga.	Yes
D	#14, steel SMS (G5) or #14, 410 SS SMS	S. Pine	5/8"	1"	1-3/8"	Yes
		6063-T5 Alum.	3/8"	5/8"	1/16"	Yes
		A36 Steel	3/8"	5/8"	.050"	Yes
		A653 Stud, Gr. 33	3/8"	5/8"	.045", 18 Ga.	Yes
	1/4" steel Ultracon	2.65k Concrete	1"	4"	1-3/4"	Yes
		2.65k Concrete	2-1/2"	4"	1-3/8"	Yes
		Hollow Block	2-1/2"	5"	1-1/4"	Yes
		Filled Block	2-1/2"	4"	1-3/4"	Yes
	1/4" 410 SS CreteFlex	3.35k Concrete	1"	5"	1-3/4"	No
		Hollow Block	2-1/2"	5"	1-1/4"	No
	5/16" steel Ultracon	3.5k Concrete	1-1/4"	5"	1-3/4"	No
		Hollow Block	3-1/8"	5"	1-1/4"	No
		Filled Block	2-1/2"	5"	1-3/4"	No

NOTES:
1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
2) ANCHORS MAY BE HEXHEAD, PANHEAD OR FLATHEAD.

EXAMPLE 1: FOR WINDOW COMBINATION SHOWN BELOW; 7/16" ANNEALED SGP LAMI. GLASS, 1/4" MASONRY ANCHORS INTO CONCRETE. +70/- 80 PSF DP REQUIRED, NO ANCHOR PLATE

CASEMENT ANCHORS:
A) FROM TABLE 8, ANCHORS C & D ALLOW A DP OF +70/-90.

B) FOR THE JAMB, FROM TABLE 3, ANCHOR TYPE C HAS THE ANCHOR AND SUBSTRATE DESIRED AND DOES NOT REQUIRE THE ANCHOR PLATE.

C) FROM TABLE 2, 6 ANCHORS ARE REQUIRED IN EACH JAMB.

D) SIMILARLY, 2 ANCHORS ARE REQUIRED IN THE HEAD & SILL.

E) DISTRIBUTE ANCHORS FOLLOWING GUIDELINES FROM ELEVATION ON SHEET 1.

F) PER RULES ON SHEETS 2 & 3, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE AWNING (HEAD & SILL).

SD 12.17.13

FIXED CASEMENT ANCHORS (SEE SEPERATE NOA):
A) FROM TABLE 9, ANCHORS C & D ALLOW A DP OF +70/-83.1.

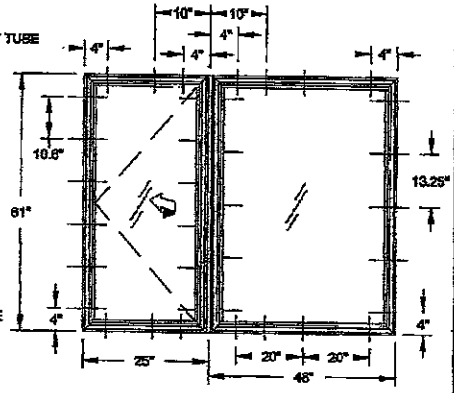
B) FOR THE JAMB, FROM TABLE 3, ANCHOR TYPE C HAS THE ANCHOR AND SUBSTRATE DESIRED AND DOES NOT REQUIRE THE ANCHOR PLATE.

C) FROM TABLE 2B, 5 ANCHORS ARE REQUIRED IN EACH JAMB.

D) SIMILARLY, 3 ANCHORS ARE REQUIRED IN THE HEAD & SILL.

E) DISTRIBUTE ANCHORS FOLLOWING GUIDELINES FROM ELEVATION ON SHEET 1.

F) PER RULES ON SHEET 2, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE FIXED CASEMENT (HEAD & SILL).



Approved as complying with the Florida Building Code
Date APR 11 2013
NOA# 12-1215.04
Miami-Dade Product Control
By: Manuel Perez

Revised By:
Revisions:
Drawn By: J ROSOWSKI
Dates: 08/08/12
Description: ANCHOR TYPE AND QUANTITY
Title: CASEMENT WINDOW DETAILS - LM & SM
Series/Model: CA-740
Scale: NTS
Sheet: 4 OF 10
Drawing No.: MD-CA740-LM
Rev.:

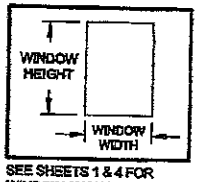
PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29295

ANTHONY LYNN MILLER
LICENSE
No. 58705
3/18/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 5:

Design Pressure (psf) for Single Windows, All Anchor Groups

Window Height \ Window Width	under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
39-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-91
60"	+70/-90	+70/-90	+70/-90	+70/-88.5	+70/-90.6	+70/-77.7	+70/-89.2
63"	+70/-90	+70/-90	+70/-90	+70/-84.3	+70/-76.5	+70/-73.7	+70/-74.3
72"	+70/-90	+70/-87.2	+70/-77.7	+60/-71.5	+60/-62.4	+60/-60.9	+/- 59.3
76"	+70/-90	+70/-84.6	+70/-75.7	+/-67.3	+/- 58.9	+/- 57.2	+/- 55.6
84"	+70/-90	+70/-80.4	+70/-71.3	+60/-62.1	+/- 54.2		



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:

1) 5/16" LAMI (1/8 AN - .090" PVB - 1/8 AN)
4) 7/8" LAMI. IG: (1/8" AN - 7/16" AIR - 1/8" AN - .090" PVB - 1/8" AN)

Approved as complying with the Florida Building Code
Date: Apr. 11 2013
NOA#: 12-1215.09
Miami-Dade Product Control
By:

TABLE 6:

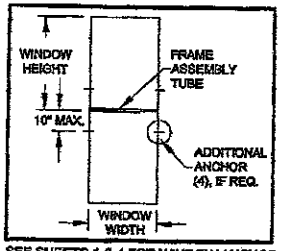
Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube

Window Height \ Window Width	under 23" Anchor Group A	under 23" Anchor Group B	under 23" Anchor Group C	under 23" Anchor Group D	25-15/16" Anchor Group A	25-15/16" Anchor Group B	25-15/16" Anchor Group C&D	27-3/4" Anchor Group B	27-3/4" Anchor Group A, C&D	30" Anchor Group B	30" Anchor Group A, C&D	33-1/2" Anchor Group A	33-1/2" Anchor Group B	33-1/2" Anchor Group C&D	35" Anchor Group B	35" Anchor Group A, C&D	37" Anchor Group B	37" Anchor Group A, C&D
under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
39-3/8"	+70/-90	+70/-71.6	+70/-90	+70/-90	+70/-81	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
48"	+70/-73.1	+/-57.3	+70/-90	+70/-90	+/-54.8	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
50-5/8"	+/-59.3	+/-54.3	+70/-90	+70/-90	+/-51.4	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.9	+70/-90
60"	+/-56.5	+/-45.8	+70/-84.7	+70/-90	+/-51.8	+70/-81.2	+70/-90	+70/-75.9	+70/-90	+70/-70.2	+70/-88.5	+70/-90	+70/-74.6	+70/-90	+70/-89.2	+70/-90	+70/-84.3	+70/-89.2
63"	+/-55.7	+/-43.6	+70/-80.7	+70/-89.5	+/-49.3	+70/-77.3	+70/-90	+70/-72.3	+70/-90	+/-66.9	+70/-84.3	+70/-76.5	+/-59.9	+70/-76.5	+70/-71.6	+70/-73.7	+/-67.8	+70/-70.1

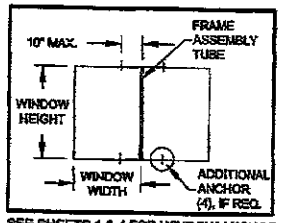
TABLE 7:

Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube

Window Height \ Window Width	under 23" Anchor Group All	25-15/16" Anchor Group All	27-3/4" Anchor Group All	30" Anchor Group All	33-1/2" Anchor Group B	33-1/2" Anchor Group A, C&D	35" Anchor Group A	35" Anchor Group B	35" Anchor Group C&D	37" Anchor Group A	37" Anchor Group B	37" Anchor Group C&D
under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-82.1	+70/-90	+70/-90	+70/-73.5	+70/-90	+70/-90	+70/-74.3	+70/-90
25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.5	+70/-90	+70/-90	+70/-84	+70/-90	+70/-90
39-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
60"	+70/-90	+70/-90	+70/-90	+70/-88.5	+70/-90.6	+70/-90.6	+70/-77.7	+70/-77.7	+70/-77.7	+70/-74.3	+70/-74.3	+70/-74.3
63"	+70/-90	+70/-90	+70/-90	+70/-84.3	+70/-76.5	+70/-76.5	+70/-73.7	+70/-73.7	+70/-73.7	+70/-70.1	+70/-70.1	+70/-70.1
72"	+70/-90	+70/-87.2	+70/-77.7	+70/-71.5	+60/-62.4	+60/-62.4	+60/-60.9	+60/-60.9	+60/-60.9	+/-59.3	+/-59.3	+/-59.3
76"	+70/-90	+70/-84.6	+70/-75.7	+/-67.3	+/-58.9	+/-58.9	+/-57.2	+/-57.2	+/-57.2	+/-55.6	+/-55.6	+/-55.6
84"	+70/-90	+70/-80.4	+70/-71.3	+60/-62.1	+/-54.2	+/-54.2						



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

NOTES:
1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

Revised By:
Drawn By: J ROSOWSKI
Date: 08/08/12
Revisions:
Description: DESIGN PRESSURES PER GLAZING TYPE
Title: CASEMENT WINDOW DETAILS - LM & SM
Series/Model: CA-740
Scale: NTS
Sheet: 5 OF 10
Drawing No. MD-CA740-LM
Rev.

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1629
NOKOMIS, FL 34274
CERT. OF AUTH. #29298

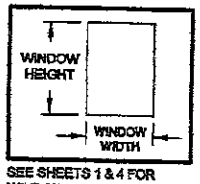
ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/18/13

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 8:

Design Pressure (psf) for Single Windows, All Anchor Groups

Window Height \ Window Width	under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
under 23"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
25-15/16"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
38-3/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
48"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
59-5/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
60"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
63"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-129.6
72"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-129.1	+90/-122.5	+90/-113.6
76"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-124.1	+90/-116.7	+90/-107.8
84"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-116.4		



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:

2) 7/16" LAMI (3/16 AN - .090" SGP - 3/16 AN)

Approved as complying with the Florida Building Code
Date APR 11 2013
NOA# 12-1212.09
Miami Dade Product Control
By: Manuel Perez

TABLE 9:

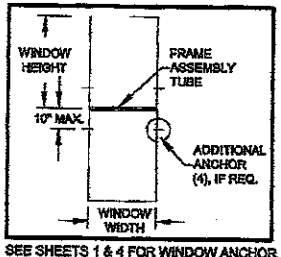
Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube

Window Height \ Window Width	under 23"				25-15/16"			27-3/4"		30"			33-1/2"			35"		37"		
	Anchor Group				Anchor Group			Anchor Group		Anchor Group			Anchor Group			Anchor Group		Anchor Group		
	A	B	C	D	A	B	C&D	B	A, C & D	A	B	C&D	A	B	C&D	B	A, C & D	A	B	C&D
under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
38-3/8"	+70/-90	+70/-71.6	+70/-90	+70/-90	+70/-81	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
48"	+70/-73.1	+/-57.3	+70/-90	+70/-90	+/-54.8	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
59-5/8"	+/-59.3	+/-54.3	+70/-90	+70/-90	+/-51.4	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.8	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.9	+70/-90
60"	+/-58.5	+/-45.8	+70/-84.7	+70/-90	+/-51.8	+70/-81.2	+70/-90	+70/-75.9	+70/-90	+70/-89.6	+70/-70.2	+70/-90	+70/-90	+70/-78.6	+70/-90	+70/-90	+70/-90	+70/-90	+70/-84.3	+70/-90
63"	+/-55.7	+/-43.6	+70/-80.7	+70/-89.5	+/-49.3	+70/-77.3	+70/-90	+70/-72.3	+70/-90	+70/-85.3	+/-66.9	+70/-90	+70/-76.5	+70/-34.9	+70/-90	+70/-71.6	+70/-90	+70/-86.5	+/-67.8	+70/-90

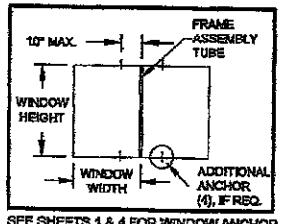
TABLE 10:

Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube

Window Height \ Window Width	under 23"	25-15/16"	27-3/4"	30"	33-1/2"		35"			37"		
	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group			Anchor Group		
	All	All	All	All	B	A, C & D	A	B	C&D	A	B	C&D
under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-82.1	+70/-90	+70/-90	+70/-76.5	+70/-90	+70/-90	+70/-74.3	+70/-90
25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.8	+70/-90	+70/-90	+70/-84	+70/-90	+70/-90
38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
59-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
76"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
84"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90						



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

NOTES:
1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

Revised By:
Revisions
Date:
Drawn By: J ROSOWSKI
Date: 08/08/12
Description: DESIGN PRESSURES PER GLAZING TYPE
Title: CASEMENT WINDOW DETAILS - LM & SM
Series/Model: CA-740
Scale: NTS
Sheet: 6 OF 10
Drawing No.: MD-CA740-LM
Rev.:

1070 TECHNOLOGY DRIVE
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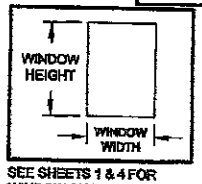
CERT. OF AUTH. #29286

ANTHONY LYNN MILLER
LICENSE
No. 58705
3/18/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 11:

		Design Pressure (psf) for Single Windows, All Anchor Groups						
		Window Width						
		under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
Window Height	under 23"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	25-15/16"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	38-3/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	48"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	50-5/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	60"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	63"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	72"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	76"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	84"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130		



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:

3) 7/16" LAMI (3/16 HS - .090" SGP - 3/16 HS)
7) 7/8" LAMI. IG: (3/16" AN - 1/4" AIR - 3/16" HS - .090" SGP - 3/16" HS)
9) 7/8" LAMI. IG: (3/16" T - 1/4" AIR - 3/16" HS - .090" SGP - 3/16" HS)

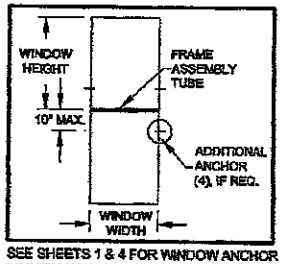
Approved as complying with the Florida Building Code
Date: APR 11 2013
NOA#: 12-0718.02
Miami Dade Product Control
By: Manuel Perez

TABLE 12:

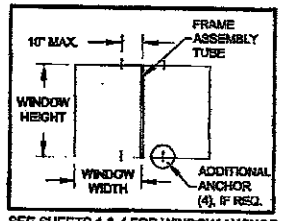
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube																	
		Window Width																	
		under 23"				25-15/16"			27-3/4"		30"			33-1/2"			35"		37"		
		Anchor Group				Anchor Group			Anchor Group		Anchor Group			Anchor Group			Anchor Group		Anchor Group		
		A	B	C	D	A	B	C&D	B	A, C&D	A	B	C&D	A	B	C&D	B	A, C&D	A	B	C&D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	38-3/8"	+70/-90	+70/-71.6	+70/-90	+70/-90	+70/-81	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	48"	+70/-73.1	+/-57.3	+70/-90	+70/-90	+/-64.8	+76/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	50-5/8"	+/-69.3	+/-54.3	+70/-90	+70/-90	+/-61.4	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.9	+70/-90
	60"	+/-58.5	+/-45.8	+70/-84.7	+70/-90	+/-51.8	+70/-81.2	+70/-90	+70/-75.9	+70/-90	+70/-89.6	+70/-70.2	+70/-90	+70/-80.3	+70/-78.6	+70/-90	+70/-75.2	+70/-90	+70/-90	+70/-84.3	+70/-90
	63"	+/-55.7	+/-43.6	+70/-80.7	+70/-89.5	+/-49.3	+70/-77.3	+70/-90	+70/-72.3	+70/-90	+70/-85.3	+/-66.9	+70/-90	+70/-76.5	+70/-74.9	+70/-90	+70/-71.6	+70/-90	+70/-86.5	+/-67.8	+70/-90

TABLE 13:

		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube											
		Window Width											
		under 23"	25-15/16"	27-3/4"	30"	33-1/2"		35"			37"		
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group			Anchor Group		
		All	All	All	All	B	A, C & D	A	B	C&D	A	B	C&D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-82.1	+70/-90	+70/-90	+70/-78.5	+70/-90	+70/-90	+70/-74.3	+70/-90
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.8	+70/-90	+70/-90	+76/-94	+70/-90	+70/-90
	38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	76"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	84"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90						



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

NOTES:
1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

Revised By:
Revisions:
Date: 08/08/12
Drawn By: J ROSOWSKI
Description: DESIGN PRESSURES PER GLAZING TYPE
Series/Model: CA-740
Title: CASEMENT WINDOW DETAILS - LM & SM
Scale: NTS
Sheet: 7 OF 10
Drawing No.: MD-CA740-LM
Rev.:

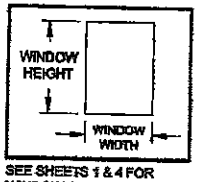
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1629
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

ANTHONY LYNN MILLER
LICENSE
No. 58705
3/18/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

ATTACHMENT B
Permit History

TABLE 14:

Window Height	Design Pressure (psf) for Single Windows, All Anchor Groups — Window Width: under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.6	+70/-94.6
72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.2	+70/-84	+70/-79.9
76"	+70/-90	+70/-90	+70/-88.5	+70/-81.5	+60/-70	+60/-69.4	+60/-67.6
84"	+70/-90	+70/-90	+70/-86.3	+70/-76.7	+60/-67.2	+60/-65.2	+60/-63.3
	+70/-90	+70/-90	+70/-81.3	+60/-70	+60/-61.8		



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:

5) 7/8" LAMI. IG: (1/8" T - 7/16" AIR - 1/8" AN - .090" PVB - 1/8" AN)

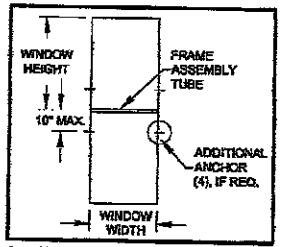
Approved as complying with the Florida Building Code
Date: APR 11 2013
NOA# 12-1218.04
Miami-Dade Product Control
By: Manuel Perez

TABLE 15:

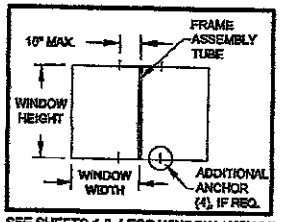
Window Height	Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube — Window Width: under 23" Anchor Group A	under 23" Anchor Group B	under 23" Anchor Group C	under 23" Anchor Group D	25-15/16" Anchor Group A	25-15/16" Anchor Group B	25-15/16" Anchor Group C&D	27-3/4" Anchor Group B	27-3/4" Anchor Group A,C&D	30" Anchor Group A	30" Anchor Group B	30" Anchor Group C&D	33-1/2" Anchor Group A	33-1/2" Anchor Group B	33-1/2" Anchor Group C&D	35" Anchor Group B	35" Anchor Group A,C&D	37" Anchor Group B	37" Anchor Group A,C&D
under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
38-3/8"	+70/-90	+70/-71.6	+70/-90	+70/-90	+70/-81	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
48"	+70/-73.1	+/-67.3	+70/-90	+70/-90	+/-64.6	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
50-5/8"	+/-69.3	+/-64.3	+70/-90	+70/-90	+/-61.4	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.8	+70/-90	+70/-90	+70/-78.6	+70/-90	+70/-90	+70/-90	+70/-88.9	+70/-90
60"	+/-58.5	+/-45.8	+70/-84.7	+70/-90	+/-51.8	+70/-81.2	+70/-90	+70/-75.9	+70/-90	+70/-88.6	+70/-70.2	+70/-90	+70/-90	+70/-74.6	+70/-90	+70/-89.2	+70/-90	+70/-84.3	+70/-90
63"	+/-55.7	+/-43.6	+70/-80.7	+70/-89.5	+/-49.3	+70/-77.3	+70/-90	+70/-72.3	+70/-90	+70/-85.3	+/-65.9	+70/-90	+70/-80.3	+/-62.9	+70/-90	+70/-75.2	+70/-88.6	+70/-71.2	+70/-84.6
													+70/-76.5	+/-59.9	+70/-87.2	+70/-71.6	+70/-84	+/-67.8	+70/-79.8

TABLE 16:

Window Height	Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube — Window Width: under 23" Anchor Group All	25-15/16" Anchor Group All	27-3/4" Anchor Group All	30" Anchor Group All	33-1/2" Anchor Group B	33-1/2" Anchor Group A, C & D	35" Anchor Group A	35" Anchor Group B	35" Anchor Group C&D	37" Anchor Group A	37" Anchor Group B	37" Anchor Group C&D
under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-82.1	+70/-90	+70/-90	+70/-76.5	+70/-90	+70/-90	+70/-74.3	+70/-90
25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.8	+70/-90	+70/-90	+70/-84	+70/-90	+70/-90
38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.6	+70/-88.6	+70/-88.6	+70/-94.6	+70/-94.6	+70/-94.6
63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.2	+70/-87.2	+70/-84	+70/-84	+70/-84	+70/-79.9	+70/-79.9	+70/-79.9
72"	+70/-90	+70/-90	+70/-88.5	+70/-81.5	+60/-70	+60/-70	+60/-69.4	+60/-69.4	+60/-69.4	+60/-67.6	+60/-67.6	+60/-67.6
76"	+70/-90	+70/-90	+70/-86.3	+70/-76.7	+60/-67.2	+60/-67.2	+60/-65.2	+60/-65.2	+60/-65.2	+60/-63.3	+60/-63.3	+60/-63.3
84"	+70/-90	+70/-90	+70/-81.3	+60/-70	+60/-61.8	+60/-61.8						



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

NOTES:
1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

Revisions:

Revised By:

Drawn By: J ROSOWSKI

Date: 08/08/12

Description: DESIGN PRESSURES PER GLAZING TYPE

Title: CASEMENT WINDOW DETAILS - LM & SM

Series/Model: CA-740

Scale: NTS

Sheet: 8 OF 10

Drawing No. MD-CA740-LM

Rev:

PGT®

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

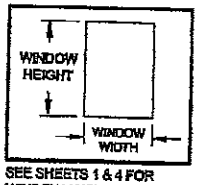
ANTHONY LYNN MILLER
LICENSE
No. 58705
3/18/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 17:

Design Pressure (psf) for Single Windows, All Anchor Groups

Window Height \ Window Width	under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
under 23"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
25-15/16"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
38-3/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
48"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
50-5/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
60"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
63"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
72"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
76"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-124.6	+90/-115.7
84"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-129.2	+90/-118.7	+90/-109.6



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:

6) 7/8" LAMI. IG: (3/16" AN - 1/4" AIR - 3/16" AN - .090" SGP - 3/16" AN)
8) 7/8" LAMI. IG: (3/16" T - 1/4" AIR - 3/16" AN - .090" SGP - 3/16" AN)

Approved as complying with the Florida Building Code
Date 12-12-13
NOA# 12-1212.03
Miami Dade Product Control
By

TABLE 18:

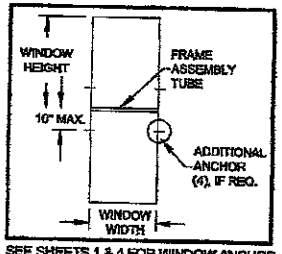
Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube

Window Height \ Window Width	under 23"				25-15/16"			27-3/4"		30"			33-1/2"			35"		37"		
	Anchor Group				Anchor Group			Anchor Group		Anchor Group			Anchor Group			Anchor Group		Anchor Group		
	A	B	C	D	A	B	C&D	B	A, C&D	A	B	C&D	A	B	C&D	B	A, C&D	A	B	C&D
under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
38-3/8"	+70/-90	+70/-71.6	+70/-90	+70/-90	+70/-81	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
48"	+70/-73.1	+/-57.3	+70/-90	+70/-90	+/-54.8	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
50-5/8"	+/-59.3	+/-54.3	+70/-90	+70/-90	+/-51.4	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.9	+70/-90
60"	+/-58.5	+/-45.8	+70/-84.7	+70/-90	+/-51.8	+70/-81.2	+70/-90	+70/-75.9	+70/-90	+70/-89.6	+70/-70.2	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.2	+70/-90	+70/-90	+70/-84.3	+70/-90
63"	+/-55.7	+/-43.6	+70/-80.7	+70/-89.5	+/-49.3	+70/-77.3	+70/-90	+70/-72.3	+70/-90	+70/-85.3	+/-66.9	+70/-90	+70/-80.3	+70/-76.6	+70/-90	+70/-75.2	+70/-90	+70/-90	+70/-71.2	+70/-90
72"	+/-51.9	+/-40.6	+70/-71.8	+70/-79.3	+/-43.7	+70/-68.6	+70/-90	+70/-64.1	+70/-90	+70/-75.6	+/-59.2	+70/-90	+70/-71.1	+70/-67.9	+70/-90	+70/-66.1	+70/-90	+70/-90	+70/-74.8	+70/-90
76"	+/-49.1	+/-38.4	+70/-67.8	+70/-75.0	+/-41.3	+70/-64.8	+70/-90	+70/-60.6	+70/-90	+70/-71.5	+/-56.0	+70/-90	+70/-67.2	+70/-64.2	+70/-90	+70/-62.5	+70/-90	+70/-90	+70/-70.7	+70/-90
84"	+/-44.1	+/-34.5	+70/-60.9	+70/-67.3	+/-37.1	+70/-58.2	+70/-90	+70/-54.4	+70/-90	+70/-64.2	+/-50.3	+70/-90	+70/-60.3	+70/-57.6	+70/-90	+70/-56.1	+70/-90	+70/-90	+70/-63.4	+70/-90

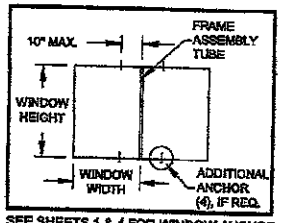
TABLE 19:

Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube

Window Height \ Window Width	under 23"	25-15/16"	27-3/4"	30"	33-1/2"		35"			37"		
	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group			Anchor Group		
	All	All	All	All	B	A, C&D	A	B	C&D	A	B	C&D
under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-82.1	+70/-90	+70/-90	+70/-78.5	+70/-90	+70/-90	+70/-74.3	+70/-90
25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.8	+70/-90	+70/-90	+70/-84	+70/-90	+70/-90
38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
76"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
84"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90						



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 2 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

NOTES:
1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

Revised by:
Date:
Revisions:
Date: 08/08/12
Drawn By: J ROSOWSKI
Description: DESIGN PRESSURES PER GLAZING TYPE
Title: CASEMENT WINDOW DETAILS - LM & SM
Series/Model: CA-740
Scale: NTS
Sheet: 9 OF 10
Drawing No.: MD-CA740-LM
Rev.:

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29286

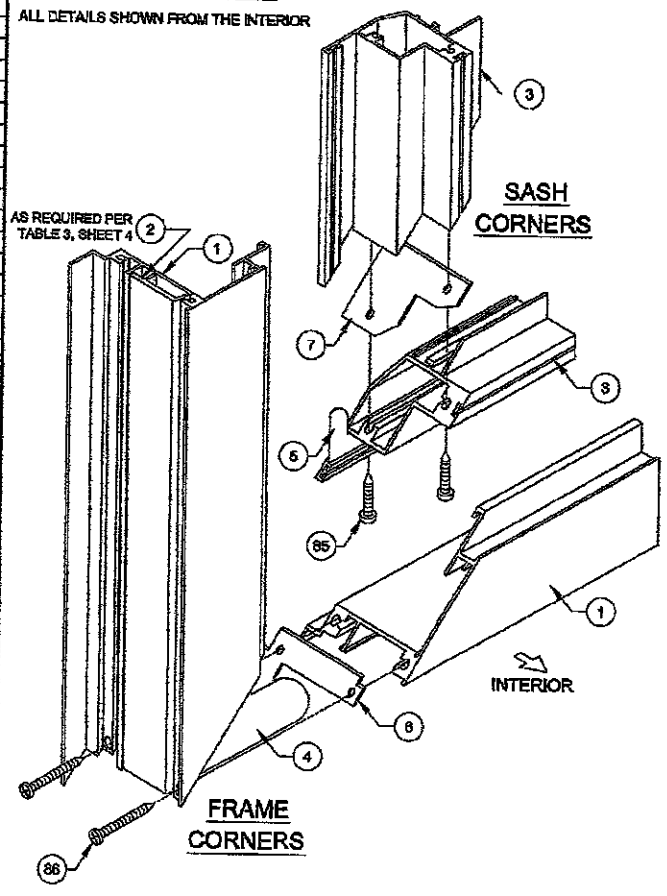
ANTHONY LYNN MILLER
LICENSE
No. 58705
3/18/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

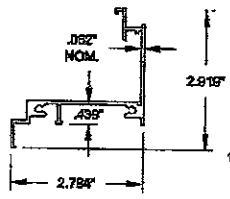
TABLE 20:

Item	Dwg. #	Description	Material
1	7002	Main Frame Head, Sill & Jamb	6063-T6 Alum.
2	7071	Anchor Plate	6063-T6 Alum.
3	7003	Sash Top, Bottom & Side Rail	6063-T6 Alum.
4	7008	Frame Corner Key	Steel
5	7009	Sash Corner Key	Steel
6	7078	Frame Gasket	Vinyl Foam
7	7072	Sash Corner Gasket	Vinyl Foam
8	7070	Bulb Weatherstrip .187" x .275"	Flex PVC 70
10	7024	Maxim Multi-Point Lock	Steel
11	7026	Lock Support Plate	Steel
12	7014	Multi-Lock Keeper	Steel
13	7013	Tie Bar Guide	Nylon
14	7015	Tie Bar Assembly	Steel or SS
15	7028	Maxim Dyad Operator, WW<=24"	Steel
16	7027	Maxim Dual Arm Operator, WW>24"	Steel
17	7030	Operator Gasket	Vinyl Foam
18	7031	Operator Backing Plate	Steel
19	7051	Operator Spacer Block	Nylon
20	7032	Stud Bracket	Steel
21	7033	Operator Track & Slider (Dual Arm)	Steel
22	7023	Egress Hinge (Heavy Duty), Manuf. by Truth	Steel
23	7050	Egress Hinge/Washable (HD), Manuf. by Truth	Steel
24		Snubber, Anti-blowout Clip	Steel
31		Dura Seal Spacer	Steel
32	1713	Setting Block 5/32" x 3/16" x 1-1/4"	EPDM
33	1714	Setting Block 5/32" x 7/16" x 1-1/4"	EPDM
35	7036	Lami Bead B	6063-T6 Alum.
36	7042	Lami Bead C	6063-T6 Alum.
37	7059	Lami Bead D	6063-T6 Alum.
38	1224	Vinyl Bulb Wstp (Thick)	Flex PVC 70
39	1225	Vinyl Bulb Wstp (Thin)	Flex PVC 70
50		Dow 899 Silicon Backbedding	
60	7006	Screen Frame	3105-H14 Alum.
61	7040	Screen Corner Key	Polypropolene
62		Screen Cloth	Fiberglass
63	1635	Screen Spline	EM. PVC
64	320	Screen Spring	Stainless Steel
70	134	Add-on Flange	6063-T6 Alum.
71	7004	Frame Assy Tube	6063-T6 Alum.
80		#8-32 x 1/2" Ph. Pn. Mach. Scr TYPE B	Stainless Steel
81	1157	#8 x 1/2" Ph. Pn. SMS	Stainless Steel
82		#8 x 5/8" Fl. Ph. SMS	Stainless Steel
83		#8 x 7/8" Fl. Ph. SMS	Stainless Steel
84		#8 x 1" Fl. Ph. TEK	Stainless Steel
85		#8 x 1" Quad Pn SMS	Stainless Steel
86		#8 X 1-1/2" Quad Pn SMS	Stainless Steel
87		#10 x 1/2" Ph. Pn./ TEK	Stainless Steel
89		#10-24 x 9/16" Ph. Pn. TYPE F	Stainless Steel
90		#12 x 1" Ph. Pn. TEK	Stainless Steel

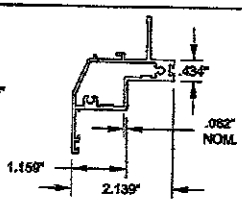
ASSEMBLY DETAILS

ALL DETAILS SHOWN FROM THE INTERIOR

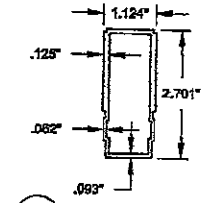




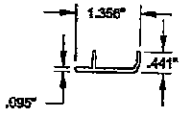
1 FRAME HEAD, SILL & JAMB
#7002, 6063-T6



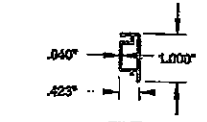
3 SASH TOP, BOTTOM & SIDE
#7003, 6063-T6



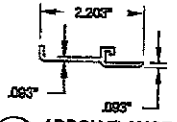
71 FRAME ASSEMBLY TUBE
#7004, 6063-T6



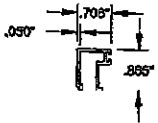
2 ANCHOR PLATE
#7071, 6063-T6



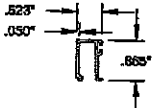
60 FIXED SCREEN FRAME
#7006, 6063-T6



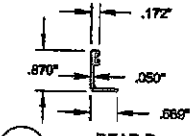
70 ADDON FLANGE
#134, 6063-T6



35 BEAD B
#7036, 6063-T6



36 BEAD C
#7042, 6063-T6



37 BEAD D
#7059, 6063-T6

Approved as complying with the Florida Building Code
Date: April 11, 2013
NOA# 10-1018.09
Miami Dade Product Control
By:

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/18/13
A. LYNN MILLER, P.E.
P.E.# 58705

PGT®

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:

Description: BOM AND CORNER VIEWS
Drawn By: J ROSOWSKI
Title: CASEMENT WINDOW DETAILS - LM & SM
Date: 08/08/12
Series/Model: CA-740
Scale: NTS
Sheet: 10 OF 10
Drawing No.: MD-CA740-LM
Rev:

MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/development/

PGT Industries
1070 Technology Drive
North Venice, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "FD-101" Outswing Aluminum French Door w/ wo Sidelites – L.M.I.

APPROVAL DOCUMENT: Drawing No. **11005-1**, titled Series "Alum. French Door & Sidelites, Impact", sheets 1 through 10 of 10, dated 02/22/07 with revision "D" dated 08/14/12, prepared by manufacture, signed and sealed by Lynn Miller, P. E., bearing the Miami-Dade County Product Control Section renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the jobsite at the request of the Building Official.

This NOA **revises and renews NOA No. 11-1013.22** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

APPROVED
MAY 12 2014
CITY OF HOLLYWOOD, FLA.
STRUCTURAL

J. Gascon 3/19/13

REVIEWED & APPD

12.17.13

NOA No. 12-0516.02
Expiration Date: October 18, 2017
Approval Date: August 30, 2012

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **11005**–1, titled Series "Alum. French Door & Sidelites, Impact", sheets 1 through 10 of 10, dated 02/22/07 with revision "**D**" dated 08/14/12, prepared by manufacture, signed and sealed by Lynn Miller, P. E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   2) Large Missile Impact Test per FBC, TAS 201–94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203–94

   along with marked–up drawings and installation diagram of an Aluminum outswing French Door with Sidelites, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–6864**, dated 04/02/12, signed and sealed by Marlin D. Brinson, P. E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202–94

   along with marked–up drawings and installation diagram of an Aluminum outswing French Door with Sidelites, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–5212**, dated 05/05/07, signed and sealed by Carlos S. Rionda, P. E.
   (Submitted under previous NOA No. 07–0629.10)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC–2007 and **FBC–2010**, prepared by manufacture, dated 10/11/11, signed and sealed by Lynn Miller, P. E.
   (Submitted under previous NOA No. 07–0629.10)
2. **Glazing complies with ASTM E1300–02/ 04**

D. QUALITY ASSURANCE

1. Miami–Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11–0624.01** issued to **E.I. DuPont DeNemours & Co., Inc.** for their **"DuPont Butacite® PVB Interlayer"** dated 09/08/11, expiring on 12/11/16.
2. Notice of Acceptance No. **11–0325.05** issued to **Solutia, Inc.** for their **"Saflex and Vanceva clear and color interlayers"** dated 05/05/11, expiring on 05/21/16.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 12–0516.02
Expiration Date: October 18, 2017
Approval Date: August 30, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance and complying with **FBC–2010**, issued by manufacture, dated 05/14/12, signed and sealed by Lynn Miller, P. E.
2. Statement letter of no financial interest, issued by manufacture, dated 05/14/12, signed and sealed by Lynn Miller, P. E.
3. Laboratory compliance letter for Test Report No. **FTL–6864**, issued by Fenestration Testing Laboratory, Inc. dated 04/02/12, signed and sealed by Marlin D. Brinson, P. E.
4. Proposal issued by Product Control, dated 02/15/12, signed by Jaime D. Gascon, P. E.
5. Laboratory compliance letter for Test Report No. **FTL–5212**, issued by Fenestration Testing Laboratory, Inc. dated 05/05/07, signed and sealed by Carlos S. Rionda, P. E. ***(Submitted under previous NOA No. 07–0629.10)***

G. OTHERS

1. Notice of Acceptance No. **11–1013.22**, issued to PGT Industries, for their Series "**FD–101 Outswing Aluminum French Door w/ wo Sidelites – L.M.I.**", approved on 11/23/11 and expiring on 10/18/12.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 12–0516.02
Expiration Date: October 18, 2017
Approval Date: August 30, 2012

NOTES: OUTSWING IMPACT FRENCH DOOR(S) AND SIDE LITE(S)

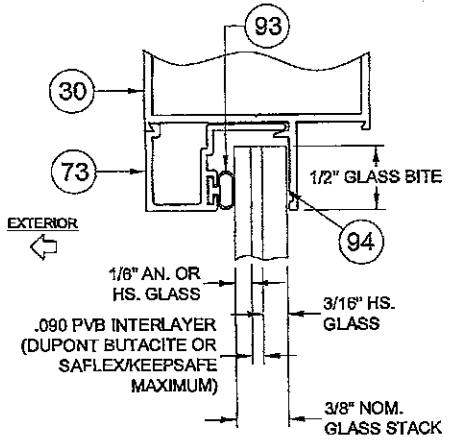
1. GLAZING OPTIONS:
   - A. 3/8" LAMI NOM. (.402") CONSISTING OF (1) LITE OF 1/8" ANNEALED GLASS PLUS AN .090 PVB INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PLUS (1) LITE OF 3/16" HEAT STRENGTHENED GLASS.
   - B. 3/8" LAMI NOM. (.402") CONSISTING OF (1) LITE OF 1/8" HEAT STRENGTHENED GLASS PLUS AN .090 PVB INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PLUS (1) LITE OF 3/16" HEAT STRENGTHENED GLASS.
   - C. 7/16" LAMI NOM. (.465") CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS PLUS AN .090 PVB INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PLUS (1) LITE OF 3/16" HEAT STRENGTHENED GLASS.
   - D. 7/16" LAMI NOM. (.465") CONSISTING OF (1) LITE OF 3/16" HEAT STRENGTHENED GLASS PLUS AN .090 PVB INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PLUS (1) LITE OF 3/16" HEAT STRENGTHENED GLASS.
   - E. 13/16" LAMI IG NOM. (.840") CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS, 1/4" AIRSPACE, (1) LITE OF 1/8" HEAT STRENGTHENED GLASS PLUS AN .090 PVB INTERLAYER OF DUPONT BUTACITE PLUS (1) LITE OF 3/16" HEAT STRENGTHENED GLASS.
2. DESIGN PRESSURES: SEE TABLES 1 AND 2 ON SHEET 2.
   - A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-04.
   - B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-04.
3. CONFIGURATIONS: X, O, XX, XO, OX, XXO, OXX, OXO, AND OXXO.
4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS, SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE. FOR ANCHORAGE REQUIREMENTS SEE SHEETS 8 THROUGH 10.
5. SHUTTERS ARE NOT REQUIRED.
6. SEALANT: INSTALLATION SCREWS, FRAME AND PANEL CORNERS SEALED WITH CLEAR COLORED SEALANT.
7. REFERENCES:
   - TEST REPORTS FTL-4964, 5212 & 6864; ELCO ULTRACON NOA: 11.0406.01, 12-0126.09; ANSI/AF&PA NDS-2005 FOR WOOD CONSTRUCTION AND ADM-2005 ALUMINUM DESIGN MANUAL.
8. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
9. CONFIGURATIONS WHICH CONTAIN A SIDE LITE TO DOOR CONNECTION:
   - A. THE LOWER DESIGN PRESSURE FROM TABLE 1. OR 2. PREVAILS.
   - B. FULL LENGTH REINFORCEMENT (ITEM 22 SHOWN IN SECTION E-E, SHEET 5), IS REQUIRED ONLY AT ALL DOOR TO SIDE LITE CONNECTIONS FROM TABLE 1., SHT. 2. REFER TO TABLE 2, SHT. 2 FOR DOOR TO SIDE LITE CONNECTIONS WHICH DO NOT REQUIRE ITEM 22 REINFORCEMENT.

GP 12.2.13

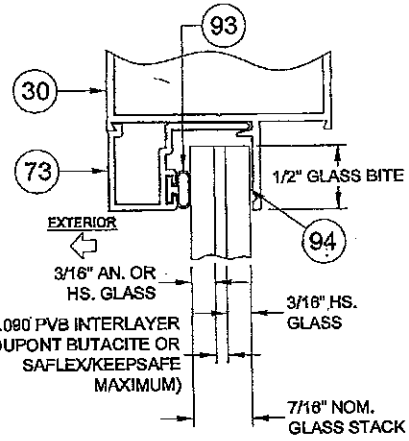
NOA DRAWING MAP

TOPIC	SHEET
GENERAL NOTES	1
CONFIGURATIONS	1
GLAZING DETAILS	1
DESIGN PRESSURES	2
ELEVATIONS	3
VERT. SECTIONS	4
HORIZ. SECTIONS	5
PARTS LIST	6
EXTRUSIONS	6, 7
ANCHORAGE	8-10

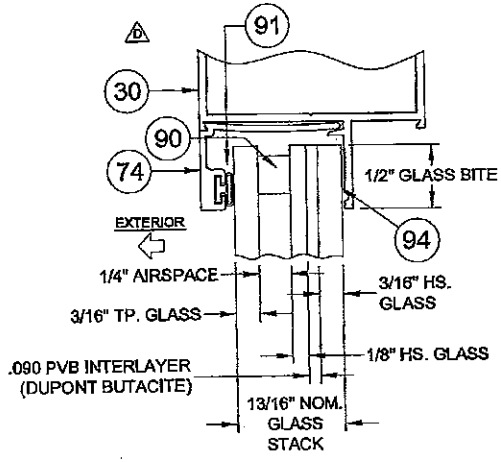
GLASS ABBREVIATIONS
AN. = ANNEALED
HS. = HEAT-STRENGTHENED
TP. = TEMPERED



3/8" LAMI NOM.
GLAZING OPTION A OR B, NOTE 1



7/16" LAMI NOM.
GLAZING OPTION C OR D, NOTE 1



13/16" LAMI IG NOM.
GLAZING OPTION E, NOTE 1

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 12-0516.02
Expiration Date 10/19/2017
By Miami Dade Product Control

Drawn By:	J ROSOWSKI
Drawn Date:	04/04/12
Revision:	ADDED GLASS TYPE E, NEW TEST REPORT.
Rev. Date:	D APR. 2012
Description:	NOTES AND GLAZING DETAILS
Title:	ALUM. FRENCH DOOR & SIDE LITES, IMPACT
Series/Model:	FD-101
Scale:	NTS
Sheet:	1 OF 10
Drawing No.	11005-1
Rev:	D

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29286

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.#58705

TABLE 1. DESIGN PRESSURES FOR ALL CONFIGURATIONS

APPROVED CONFIGURATIONS: X, XX, O, OX, XO, OXO, XXO, OXX & OXXO

(FOR DOORS W/ SIDE LITES THE LOWER DP FOR THE DOOR OR SIDE LITE PREVAILS)

REINFORCEMENT IS REQUIRED AT DOOR & SIDE LITE CONNECTIONS

		DOORS WITH GLASS TYPES A, B, C, D OR E									
		HEIGHT									
X WIDTH	XX WIDTH	6^8 - 79 3/4"		7^0 - 83 3/4"		87 3/4"		91 3/4"		8^0 - 95 3/4"	
3^0 37 1/2"	6^0 71 3/4"	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0
	O WIDTH	SINGLE SIDE LITES WITH GLASS TYPE A									
	27 3/4"	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0
	36 1/8"	+75.0	-75.0	+75.0	-75.0	+71.4	-71.4	+67.6	-67.6	+64.2	-64.2
	36 3/4"	+75.0	-75.0	+74.9	-74.9	+70.4	-70.4	+66.6	-66.6	+63.1	-63.1
	O WIDTH	SINGLE SIDE LITES WITH GLASS TYPES B, C, D OR E									
	36 3/4"	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0

SP 12.17.13

TABLE 2. DESIGN PRESSURES FOR COMBINED DOOR / SIDE LITES ONLY

APPROVED CONFIGURATIONS: OX, XO, OXO, XXO, OXX & OXXO

(THE LOWER DP FOR THE DOOR OR SIDE LITE PREVAILS.)

REINFORCEMENT IS NOT REQUIRED AT DOOR & SIDE LITE CONNECTION

		GLASS TYPES A, B, C, D OR E									
		HEIGHT									
X WIDTH	XX WIDTH	6^8 - 79 3/4"		7^0 - 83 3/4"		87 3/4"		91 3/4"		8^0 - 95 3/4"	
2^0 25 1/2"	4^0 47 3/4"	+58.6	-58.6	+55.4	-55.4	+52.4	-52.4	+49.8	-49.8	+47.4	-47.4
27 1/2"	51 3/4"	+54.9	-54.9	+51.8	-51.8	+49.0	-49.0	+46.5	-46.5	+44.3	-44.3
29 1/2"	55 3/4"	+51.7	-51.7	+48.8	-48.8	+46.1	-46.1	+43.8	-43.8	+41.6	-41.6
2^6 31 1/2"	5^0 59 3/4"	+49.0	-49.0	+46.2	-46.2	+43.6	-43.6	+41.4	-41.4	+39.3	-39.3
2^8 33 1/2"	5^4 63 3/4"	+43.1	-43.1	+43.1	-43.1	+41.5	-41.5	+39.3	-39.3	+37.3	-37.3
35 1/2"	67 3/4"	+38.1	-38.1	+38.1	-38.1	+38.1	-38.1	+37.5	-37.5	+35.6	-35.6
3^0 37 1/2"	6^0 71 3/4"	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0
	O WIDTH	GLASS TYPES A, B, C, D OR E									
	10 3/4"	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0
	12 3/4"	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0
SINGLE SIDE LITE	19"	+72.4	-72.4	+68.5	-68.5	+65.0	-65.0	+61.9	-61.9	+59.0	-59.0
	21 3/4"	+64.5	-64.5	+61.0	-61.0	+57.8	-57.8	+55.0	-55.0	+52.4	-52.4
	27 3/4"	+52.9	-52.9	+49.9	-49.9	+47.2	-47.2	+44.7	-44.7	+42.6	-42.6
	36 1/8"	+35.2	-35.2	+35.2	-35.2	+35.2	-35.2	+35.2	-35.2	+34.4	-34.4
	36 3/4"	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0	+34.0	-34.0

NOTES:

1. GLASS TYPES:
   A. 3/8" LAMI (1/8" A, .090 PVB, 3/16" HS)
   B. 3/8" LAMI (1/8" HS, .090 PVB, 3/16" HS)
   C. 7/16" LAMI (3/16" A, .090 PVB, 3/16" HS)
   D. 7/16" LAMI (3/16" HS, .090 PVB, 3/16" HS)
   △A E. 13/16" LAMI IG (3/16" TP, 1/4" AIRSPACE, 1/8" HS, .090 PVB, 3/16" HS)

2. COMBINED DOOR & SIDE LITE WIDTHS FOR TABLE 1 OR 2.
   MAX. OX/XO WIDTH = 73 1/2"
   MAX. OXO WIDTH = 109 1/2"
   MAX. XXO/OXX WIDTH = 107 3/4"
   MAX. OXXO WIDTH = 143 3/4"

3. SINGLE DOORS 33 5/8" WIDE OR OVER AND THE OPERABLE PANEL OF DOUBLE DOORS 64 1/8" WIDE OR OVER FROM EITHER TABLE COMPLY WITH THE EGRESS REQUIREMENTS OF THE FBC. NARROWER DOORS MAY BE USED WHERE EGRESS IS NOT REQUIRED BY CODE.

4. DESIGN PRESSURES UNDER 40 P.S.F. ARE NOT APPLICABLE IN MIAMI-DADE COUNTY.

5. EXAMPLES OF COMBINED DOOR AND SIDE LITE DESIGN PRESSURES:

   EX. A FROM TABLE 1.
   OXO WITH GLASS TYPE A
   30" WIDE x 90" HIGH SINGLE DOOR WITH 29" SIDE LITES
   DESIGN PRESSURE = +67.6 / -67.6 PSF

   EX. B FROM TABLE 1.
   OXXO WITH GLASS TYPE A
   68" WIDE x 85" HIGH DOUBLE DOOR WITH 36 1/2" SIDE LITES
   DESIGN PRESSURE = +70.4 / -70.4 PSF

   EX. C FROM TABLE 2.
   OXO WITH GLASS TYPE C
   30" WIDE x 87 3/4" HIGH SINGLE DOOR WITH 26" SIDE LITES
   DESIGN PRESSURE = +43.6 / -43.6 PSF

   EX. D FROM TABLE 2.
   OXXO WITH GLASS TYPE C
   63 3/4" WIDE x 80" HIGH DOUBLE DOOR WITH 26" SIDE LITES
   DESIGN PRESSURE = +43.1 / -43.1 PSF

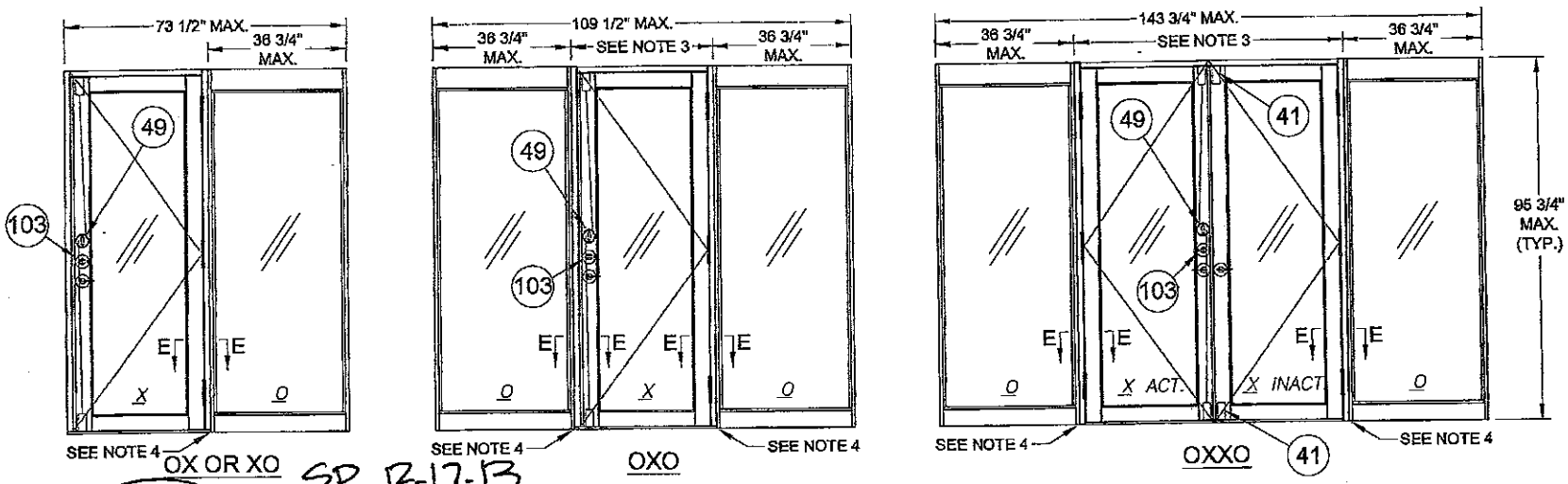
6. FOR COMBINED DOOR AND SIDE LITES FROM TABLE 1, WHICH REQUIRED REINFORCEMENT AT DOOR TO SIDE LITE CONNECTION SEE SECTION E-E, SHEET 5 FOR REINFORCEMENT DETAIL.

PRODUCT REVIEWED as complying with the Florida Building Code
Acceptance No. 12-0516.02
Expiration Date 10/11/2017
By: Miami Dade Product Control

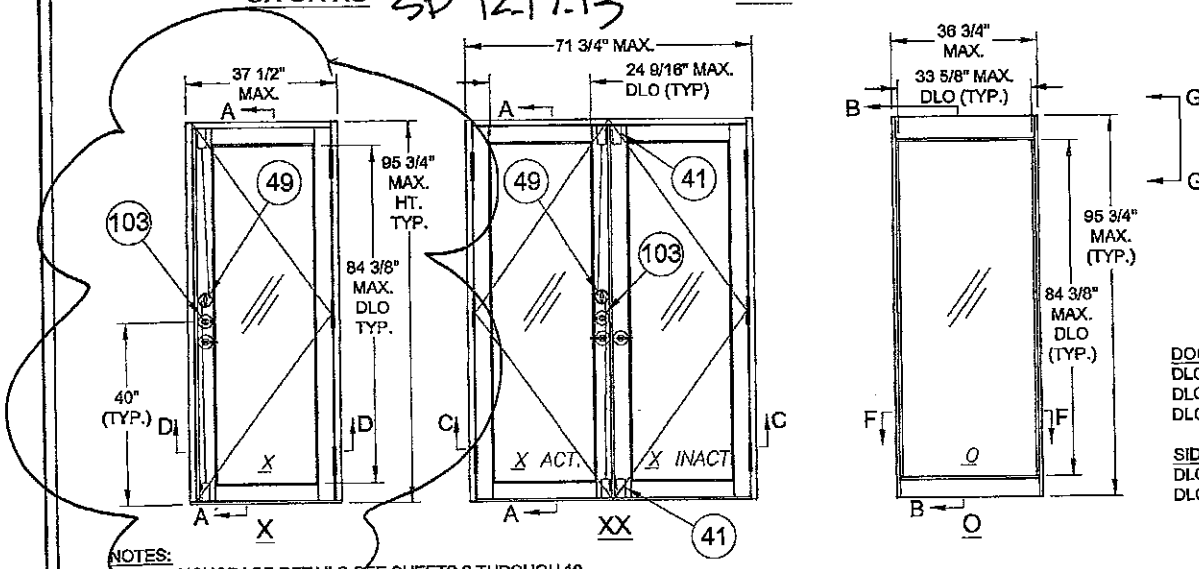
Drawn By: J ROSOWSKI
Drawn Date: 04/04/12
Rev: D
Revision: ADDED GLASS TYPE E
Rev. Date: D APR. 2012
Description: DESIGN PRESSURES
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT
Scale: NTS
Sheet: 2 OF 10
Drawing No.: 11005-1
Series/Model: FD-101

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E. P.E.# 58705



SP 12.17.13



DOOR
DLO HEIGHT = HEIGHT -11 3/8"
DLO WIDTH 'X' = DOOR WIDTH -12 15/16"
DLO WIDTH 'XX' = DOOR WIDTH/2 -11 5/16"

SIDE LITE
DLO HEIGHT = HEIGHT -11 3/8"
DLO WIDTH = WIDTH -3 1/8"

NOTES:
1. FOR ANCHORAGE DETAILS SEE SHEETS 8 THROUGH 10.
2. FOR HORIZONTAL AND VERTICAL SECTIONS SEE SHEETS 4 AND 5.
3. SIDE LITES OVERLAP 'X' AND 'XX' DOORS BY 3/4" WHEN ASSEMBLED TO MAKE 'XO', 'OX', 'OXO' 'XXO', 'OXX' AND 'OXXO' CONFIGURATIONS.
4. REINFORCEMENT LOCATION FOR SIDE LITE TO DOOR CONNECTIONS (SEE APPLICABILITY SHEET 2).
5. CLEAR OPENING FOR 'X' AND 'XX' DOORS AS FOLLOWS: ('X' DOORS = WIDTH - 5.646) ('XX' DOOR = DOOR WIDTH/2 -4.079)

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 12-0516.02
Expiration Date 10/1/2017
By
Miami Dade Product Control

Drawn By: J ROSOWSKI
Drawn Date: 04/04/12
Drawing No. 11005-1
Rev: D
Sheet: 3 OF 10
Scale: NTS
Series/Models: FD-101
Description: ELEVATIONS
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT
Rev. D
Date: APR. 2012
Revision: NO CHANGES THIS SHEET

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N. VENICE, FL 34275
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NOKOMIS, FL. 34274
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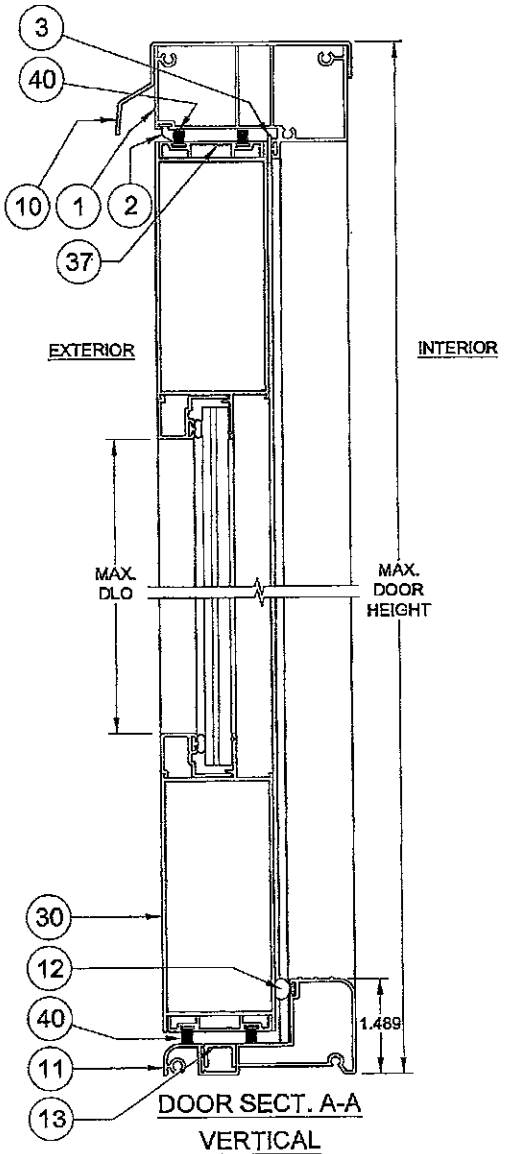
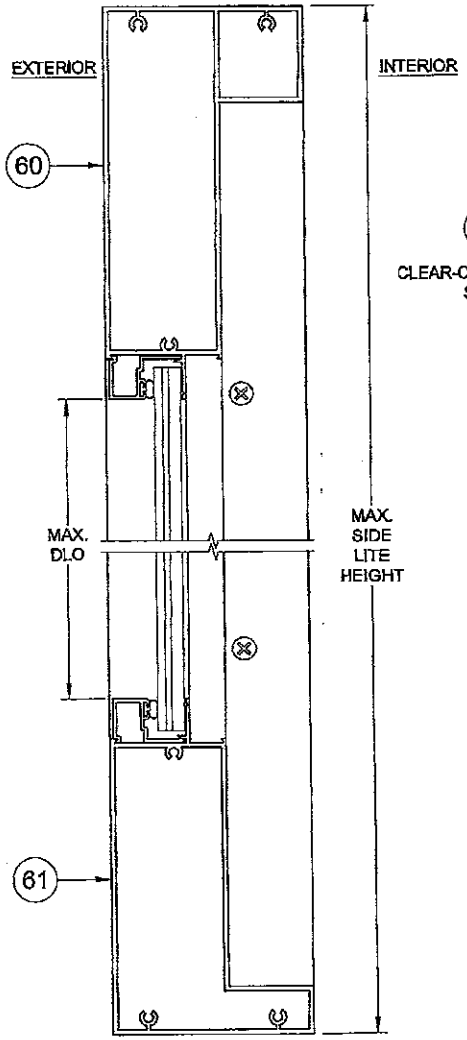
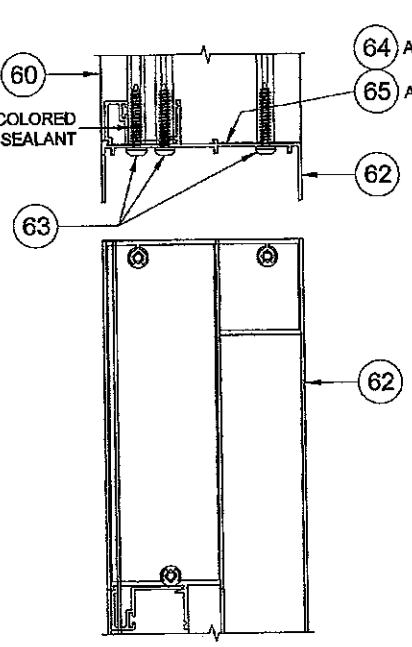
ANTHONY LYNN MILLER
LICENSE No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



DOOR SECT. A-A
VERTICAL



SL SECT. B-B
VERTICAL



SL VIEW G-G
CORNER ASSEMBLY

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 12-0516.02
Expiration Date 5/1/2017
By
Miami Dade Product Control

Rev.	Date:	Revisions:	Drawn By:		
D	APR. 2012	ADDED HEAD / SILL GASKET DESCRIPTION	J ROSOWSKI	04/04/12	
Description:	VERTICAL SECTIONS				
Title:	ALUM. FRENCH DOOR & SIDE LITES, IMPACT				
Series/Model:	FD-101	Scale:	NTS	Sheet:	4 OF 10
Drawing No.	11005-1	Rev:	D		

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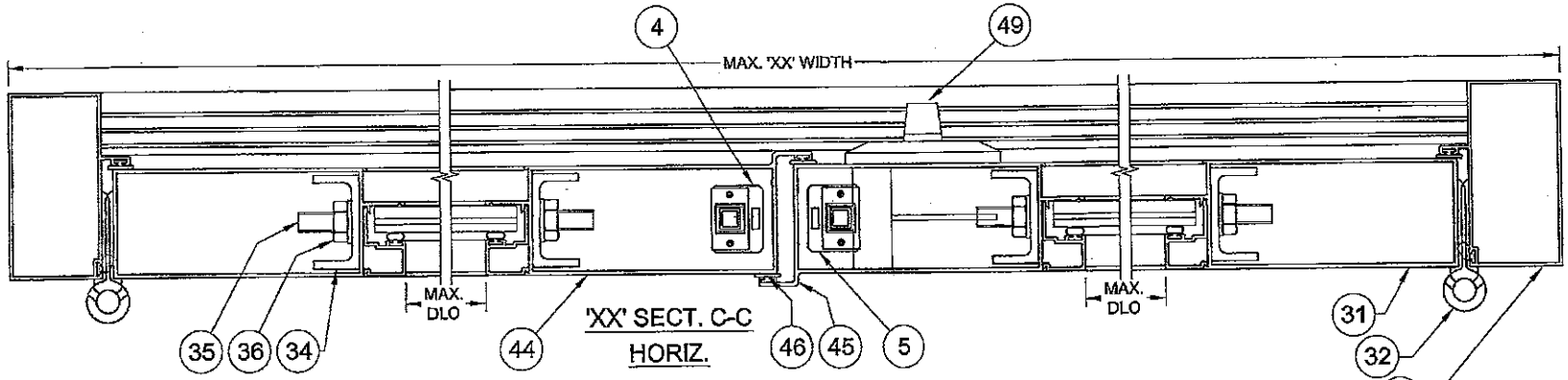
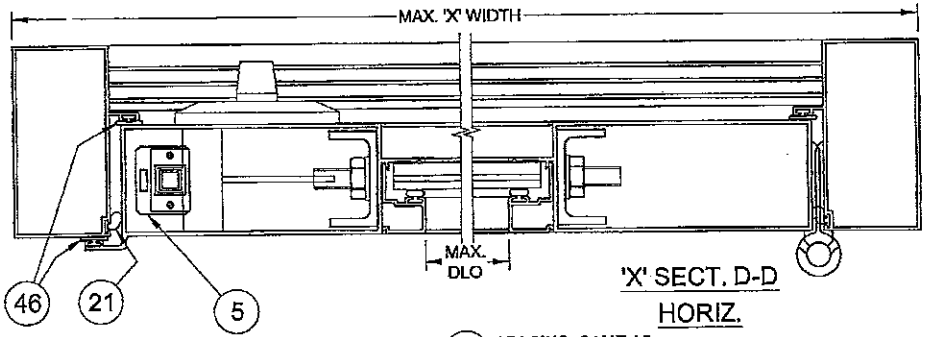
CERT. OF AUTH. #29296

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
5/1/12
A. LYNN MILLER, P.E.
P.E.# 58705



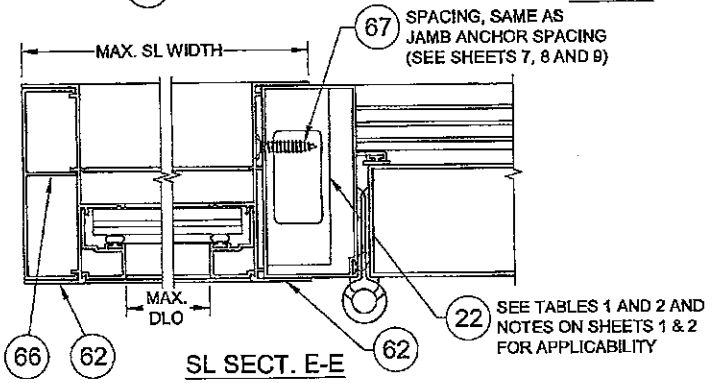
'XX' SECT. C-C
HORIZ.



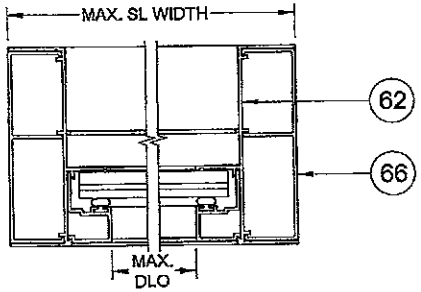
'X' SECT. D-D
HORIZ.

INTERIOR

EXTERIOR



SL SECT. E-E
HORIZ. (DOOR W/ SIDE LITE)



SL SECT. F-F
HORIZ. (SINGLE SIDE LITE)

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 12-0516.02
Expiration Date 10/1/2017
By
Miami Dade Product Control

Drawn By: J ROSOWSKI
Drawn Date: 04/04/12
Revisions:
Rev. Date: D APR. 2012
NO CHANGES THIS SHEET
Description: HORIZONTAL SECTIONS
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT
Series/Model: FD-101
Scale: NTS
Sheet: 5 OF 10
Drawing No. 11005-1
Rev: D

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1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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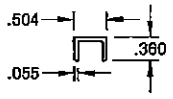
CERT. OF AUTH. #29296

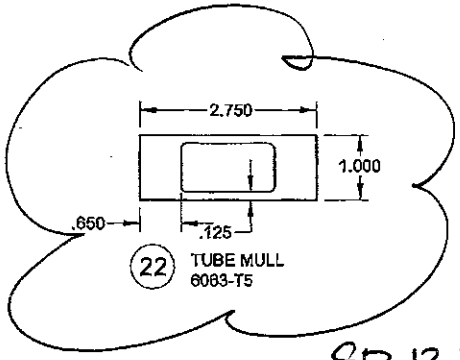
ANTHONY LYNN MILLER
LICENSE No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

ITEM	DWG #	PGT#	DESCRIPTION
1	943B	60411	FRAME HEAD
2	1010	6Q300	WSTP.,Q-LON .190 X .375 HIGH
3	7070	67070K	BULB WEATHERSTRIP .187 X .300 HIGH
4	955	7955X	FLUSHBOLT STRIKEPLATE
5	938	7938X	2 PT. LOCK STRIKEPLATE
6	956	7956A	FRAME HEAD STRIKEPLATE BACKING PLATE
7		7832X12FPXP	#8-32 X .500 PH. FL. MS - S.S. W/SILICONE PATCH
8	995	70995	GASKET (BETWEEN THRESHOLD & FRAME JAMB)
9	996	70996	GASKET (BETWEEN HEAD & FRAME JAMB)
10	952A	6533016	FILLER HEAD ADAPTER
11	11000	611000M	OUTSWING THRESHOLD
12	1670	671670	WSTP, .350 RD FOAM FILL T-SLOT (AMSBURY#32011)
13	11004A	611004M	OUTSWING THRESHOLD CHANNEL COVER
14	11001A	411001A	ACETAL SPACER .065 (INHOUSE INJECTION MOLDED)
15	11002A	411002A	ACETAL SPACER .095 (INHOUSE INJECTION MOLDED)
16	11003A	411003A	ACETAL SPACER .140 (INHOUSE INJECTION MOLDED)
20	915D	60380	FRAME JAMB (OUTSWING)
21	1010	6Q300	WSTP.,Q-LON .190 X .375 HIGH
22	6608	66608M	REINFORCEMENT, 1.000 X 2.750 X 0.650, 6061-T5
23	1140	76X112PSATS	#8 X 1.500 PH SQ A T/S
24	1048	71048	JAMB SCREW COVER CAP
25	930	41721N	STRIKE PLATE INSERT
26	1118	710X34PFA	#10 X .750 PH. FL. SMS
27	7070	67070K	BULB WEATHERSTRIP .187 X .300 HIGH
30	910D	6910	DOOR PANEL, TOP & BOTTOM RAIL
31	911E	6911	DOOR PANEL, SIDE RAIL
32	917	7FRMO	HINGE EXTRUSION
33	1178	71058FP W,B	#10 X .625 PH. FL. SMS
34	913A	60378M	TRUSS CLAMP
35	1130	6TRODA	5/16-18 THREADED ROD
36	990	7990NUTA	5/16-18 FLANGED HEX NUT
37	914A	60379M	WEATHERSTRIP CHANNEL
38		7834FPT	#8 X .75 PH. FL. TEK
39	997	70997	GASKET (BETWEEN PANEL HEAD/SILL & PANEL STILES)
40	1023	67924G	WSTP., .187 X .250 HIGH, FINSEAL
41	928	41720	SLIDE BOLT ASSY. (INACTIVE PANEL ONLY)
42	1145	76X12FPAW	#6 X .500 PH FL SMS TYPE BDS
43	1212	7P30GG	SILL DUST PLUG (INACTIVE PNL)
44	983B	6983	DOOR PANEL ASTRAGAL 1 (OUTSWING)
45	984B	6984	DOOR PANEL ASTRAGAL 2 (OUTSWING)
46	1213	6Q200K	WSTP.,Q-LON .190 X .200 HIGH
47	929	74UBLOK	LOCK SUPPORT ASSY. (41707 & 41708)
48	1139	7634F	#6 X .750 PH. FL. SMS
49	982	FD2PTAY	2 PT. LOCK ASSY.
50		6R180FS	RUBBER SLEEVE
51	930	41721	STRIKE PL. INSERT (INACTIVE PANEL)
52	931	7FRSPX	DEADBOLT STRIKE PLATE
53	1118	710X34PFA	#10 X .750 PH FL. SMS
54	957	70957X	HANDLE STRIKE PLATE
55	1118	710X34PFA	#10 X .750 PH FL. SMS

ITEM	DWG #	PGT#	DESCRIPTION
60	920D	6920D	SIDELITE HEADER
61	921D	6921	SIDELITE SILL
62	916B	60381	SIDELITE JAMB
63	1155	781PQA	#8 X 1.000 QUAD PN. SMS
64	998	7998	HEAD GASKETS (STOCKING #70998)
65	999	7999	SILL GASKETS (STOCKING #70999)
66	934A	61641M	SIDELITE JAMB ADAPTER
67			#12 X 1.000 SHEET METAL SCREW
D	70	712653K	SETTING BLOCK, 3/32" X 1/4" X 1" W/PSA, 85 +/-5 DURO.
D	71	71267K	SETTING BLOCK, 1/16" X 1/2" X 1" W/PSA, 85 +/-5 DURO.
72	4222A	64222	BEAD, 7/16"
73	988	6988	BEAD, 3/8"
D	74	4067B	64067	BEAD, 13/16" IG
D	90		6DURAK14	1/4" DURASEAL IG SPACER
D	91		6TP248	BULB, THIN (USED IN EXTRUDED BEAD)
D	92	986	64986	BEAD, INTERIOR
D	93	1224	6TP247	BULB, THICK (USED IN EXTRUDED BEAD), 65 +/-1 DURO.
94	GLAZING SILICONE, DOW 899 OR 983		
95	GLASS, 3/8" LAMI - 1/8" A, .90 PVB, 3/16" HS		
96	GLASS, 3/8" LAMI - 1/8" HS, .90 PVB, 3/16" HS		
97	GLASS, 7/16" LAMI - 3/16" A, .90 PVB, 3/16" HS		
98	GLASS, 7/16" LAMI - 3/16" HS, .90 PVB, 3/16" HS		
D	99	GLASS, 13/16" LAMI IG - 3/16" TP, 1/4" AIRSPACE, 1/8" HS, .90 PVB, 3/16" HS	
103	OFF-THE SHELF	DEAD BOLT LOCK	



(13) OUTSWING THRESHOLD CHANNEL COVER 6063-T6



(22) TUBE MULL 6063-T5

SD 12.17.13

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 12-0516.02
Expiration Date 10/11/2017
By
Miami Dade Product Control

Drawn By: J ROSOWSKI
Drawn Date: 04/04/12
Drawing No.: 11005-1
Rev: D
Sheet: 6 OF 10
Scale: NTS
Series/Model: FD-101
Rev. Date: D APR. 2012
Revisions: ADDED NEW PARTS
Description: PARTS LIST
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT

PGT
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
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ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
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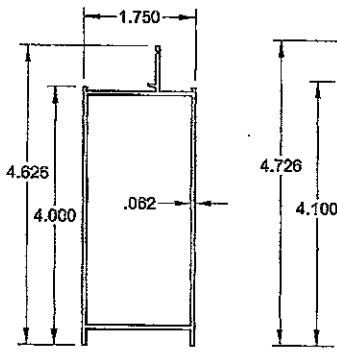
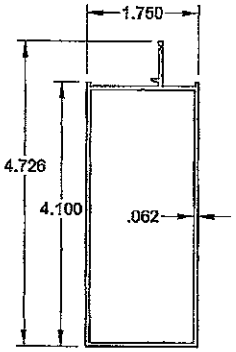
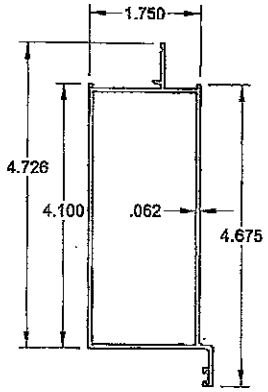


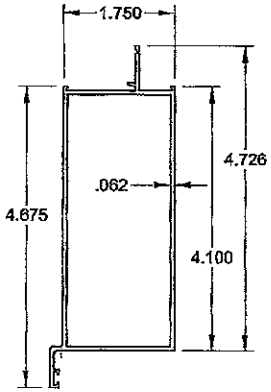
30 DOOR PANEL TOP & BOTTOM RAIL 6063-T5



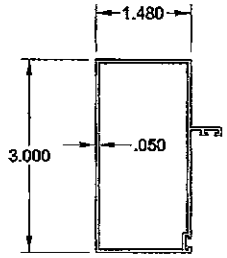
31 DOOR PANEL SIDE RAIL 6063-T5



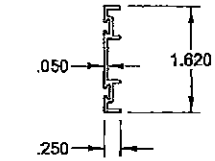
44 DOOR PANEL INTERIOR ASTRAGAL 6063-T5



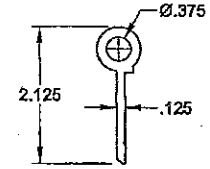
45 DOOR PANEL EXTERIOR ASTRAGAL 6063-T5



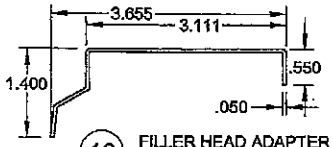
20 DOOR FRAME, JAMB 6063-T6



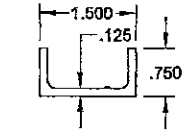
37 WEATHER STRIP CHANNEL 6063-T5



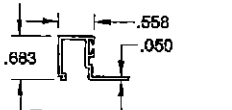
32 HINGE 6063-T5



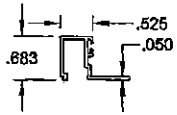
10 FILLER HEAD ADAPTER 6063-T6



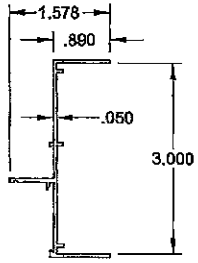
34 TRUSS CLAMP 6063-T5



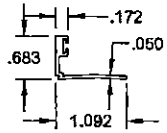
73 3/8" GLAZING BEAD 6063-T5



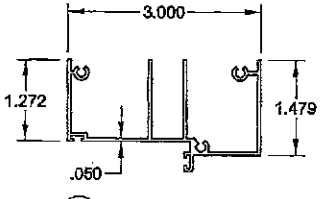
72 7/16" GLAZING BEAD 6063-T5



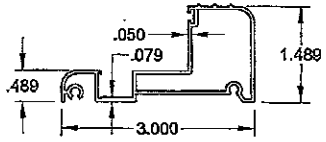
62 SL JAMB 6063-T6



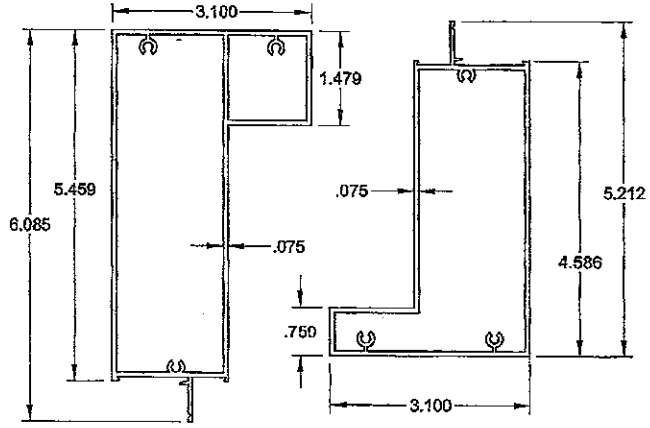
74 IG GLAZING BEAD 6063-T5



1 FRAME HEAD 6063-T6

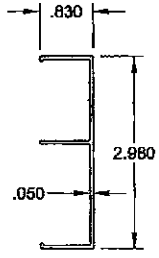


11 OUTSWING THRESHOLD 5063-T6



60 SL HEADER 6063-T6

61 SL SILL 6063-T6



66 SL JAMB ADAPTER 6063-T6

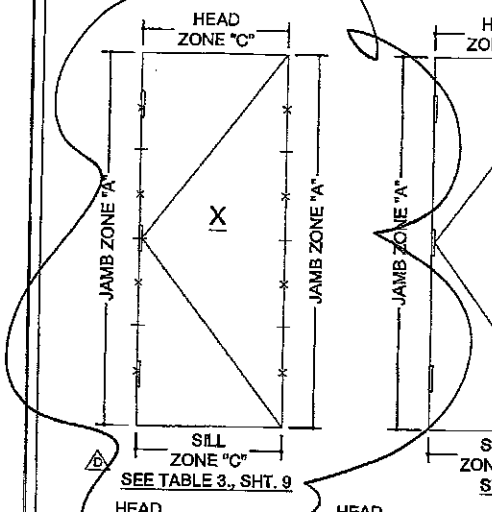
PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 12-0516.02
Expiration Date 10/12/2017
By
Miami Dade Product Control

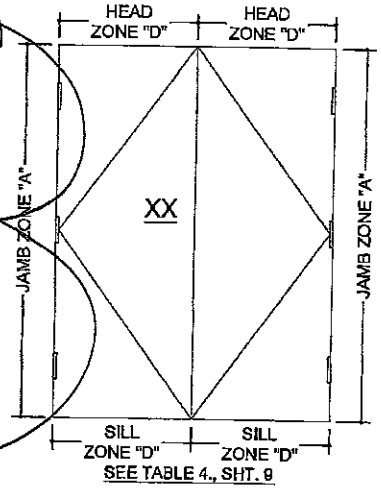
Drawn By: J ROSOWSKI
Drawn Date: 04/04/12
Drawing No. 11005-1
Rev: D
Sheet: 7 OF 10
Scale: NTS
Series/Model: FD-101
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT
Description: EXTRUSIONS
Rev. Dates: D APR. 2012
Revision: ADDED PART # 74

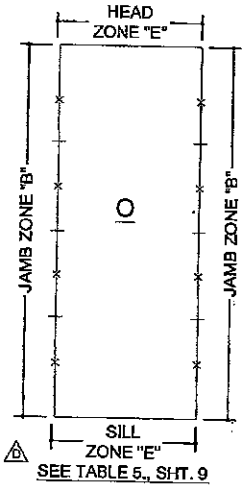
PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

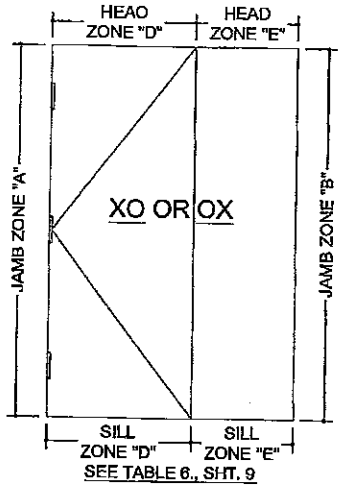
LYNN MILLER ANTHONY LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

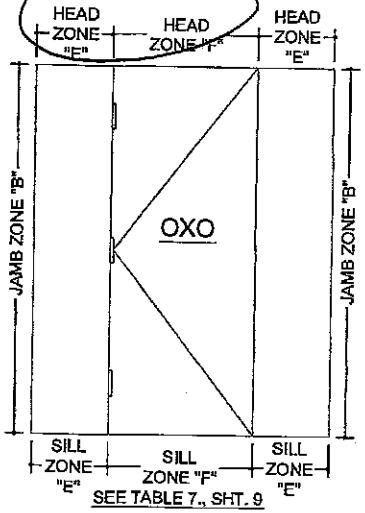
SD 12.17.13

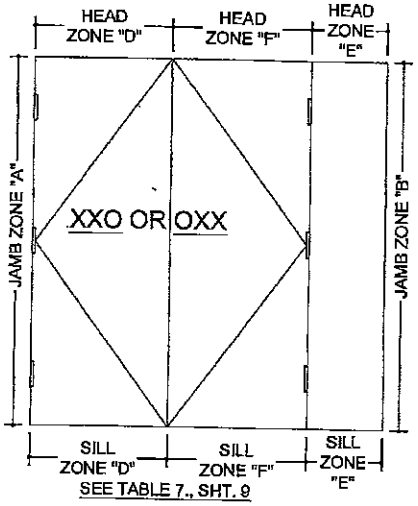


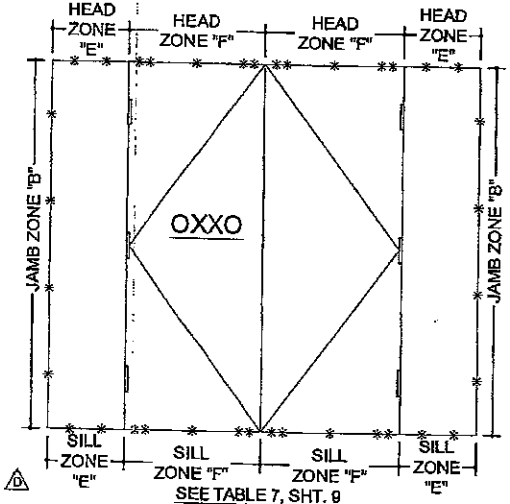












EXAMPLE OF ANCHORAGE FOR A 71 3/4" x 83 3/4" 'XX' DOOR, WITH 19" x 83 3/4" SIDE LITES (SEE SOLUTION AT RIGHT)

Δ = MINIMUM JAMB ANCHOR LOCATION.

– = ADDITIONAL JAMB ANCHOR LOCATION, EQUALLY SPACED AS REQUIRED PER TABLES 3-7 ON SHEET 9.

EXAMPLE ANCHORAGE SOLUTION FOR A CONCRETE OXXO INSTALLATION

A. 19" x 83 3/4" SIDE LITES "B" AND "E" ZONE ANCHORS FROM TABLE 7, SHEET 9.

PLUS;

B. 71 3/4" x 83 3/4" XX DOOR ZONE "F" ANCHORS FROM TABLE 4, SHEET 9, EACH "F" ZONE.

SEE ENCIRCLED VALUES, SHEET 9

SOLUTION:
TOTALS (4) TYPE 1 OR 2 ANCHORS EACH JAMB AND 2+5+5+2 = (14) TYPE 1 OR 2 ANCHORS AT HEAD AND AT SILL.

* = ANCHOR LOCATION FOR EXAMPLE ABOVE

Δ

NOTES:

1. APPROVED ANCHOR TYPES ARE: 1. 1/4" ELCO TAPCONS 2. 1/4" ELCO SS4 CRETE-FLEX MASONRY ANCHORS 3. #12 SCREWS
2. ANCHOR QUANTITIES ARE BASED ON SPACING AS FOLLOWS (3" MIN. O.C. FOR CONCRETE): SEE EXAMPLE OXXO ANCHOR LAYOUT ABOVE.
   JAMBS (ALL): 13 1/4" MAX. FROM CORNERS AND 23 1/8" MAX. O.C.
   HEAD & SILL OF DOORS: 6" MAX. FROM CORNERS, 9" MAX. FROM ASTRAGAL CENTERS AND 20 7/8" MAX. O.C.
   HEAD & SILL OF SIDE LITES: 6" MAX. FROM CORNERS AND 24 3/4" MAX. O.C.
3. TO DETERMINE ANCHOR QUANTITIES FIND THE CONFIGURATION ABOVE THEN REFER TO THE APPROPRIATE TABLES ON SHEET 9.

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 12-0516.02 Expiration Date 10.1.2017
By: Miami Dade Product Control

Rev.	Dates:	Revisions:	Scale:	Sheet:	Drawing No.	Rev:
D	APR. 2012	CLARIFIED ANCHOR LOCATIONS	NTS	8 OF 10	11005-1	D

Drawn By: J ROSOWSKI
Drawn Dates: 04/04/12
Description: ANCHORAGE, ELEVATIONS
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT
Series/Model: FD-101

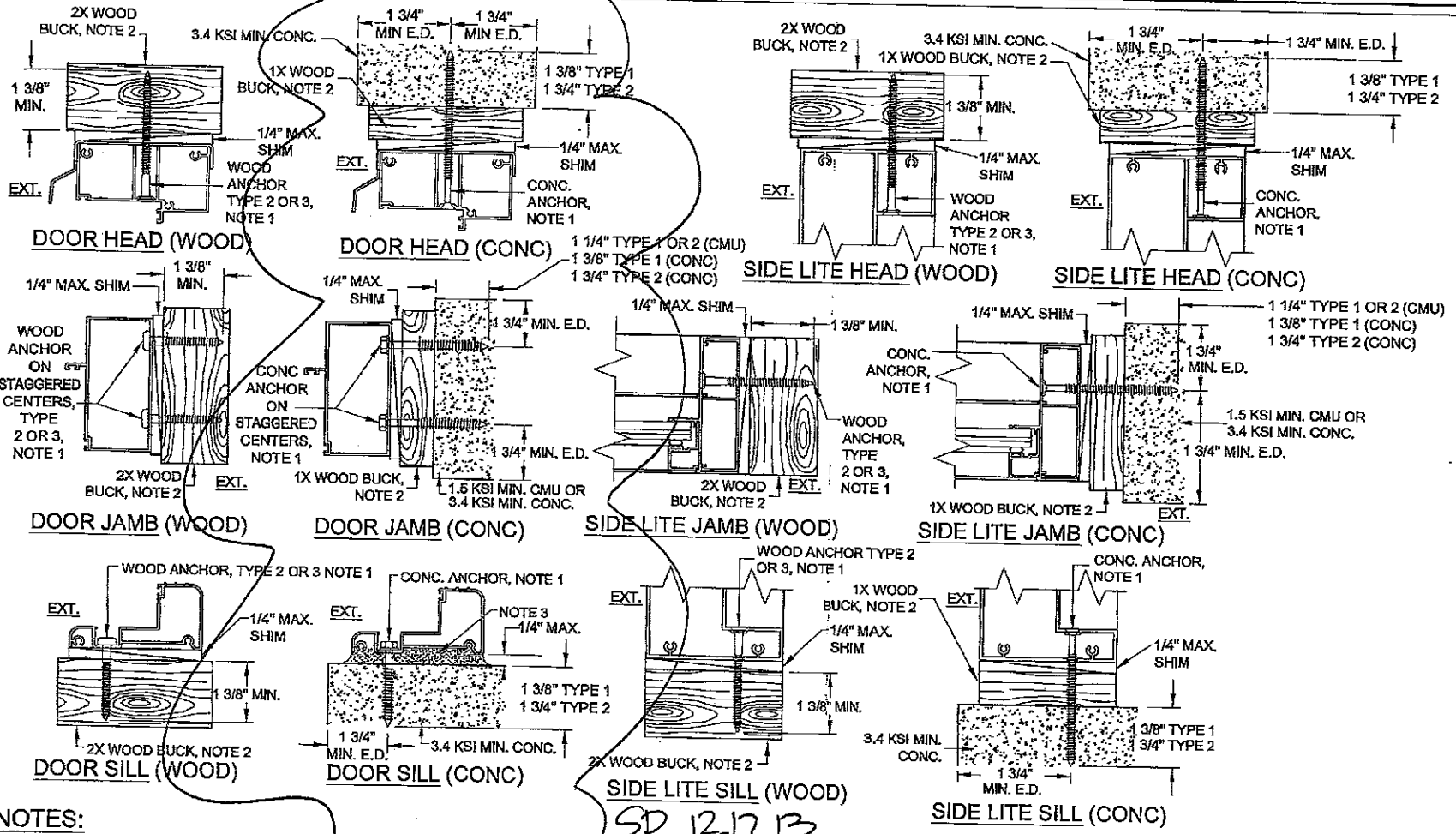
PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL. 34274
CERT. OF AUTH. #29296

ANTHONY LYNN MILLER LICENSE No. 68705 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/17/13
A. LYNN MILLER, P.E.
P.E.# 68705

TABLE 3. X DOORS (6)

GLASS TYPES	A, B, C, D, E	
ANCHOR TYPE & SUBSTRATE	2,3, WOOD	1,2, CONC
DOOR WIDTHS	LOAD ZONES	
"X" - 25.50 TO 37.50	X - JAMB "A"	X - HEAD/SILL "C"
	X - JAMB "A"	X - HEAD/SILL "F" (USE W / TABLE 7.)
	X - JAMB "C"	X - HEAD/SILL "F" (USE W / TABLE 7.)
WIDTH x HT.		
25.50 x 79.75	5	2
83.75	5	2
87.75	5	2
91.75	5	2
95.75	6	2
27.50 x 79.75	5	2
83.75	5	2
87.75	5	2
91.75	6	2
95.75	6	2
29.50 x 79.75	5	2
83.75	5	2
87.75	6	2
91.75	6	2
95.75	6	2
31.50 x 79.75	5	2
83.75	6	2
87.75	6	2
91.75	6	2
95.75	7	2
33.50 x 79.75	6	3
83.75	6	3
87.75	6	3
91.75	7	3
95.75	7	3
35.50 x 79.75	6	3
83.75	6	3
87.75	6	3
91.75	7	3
95.75	7	3
37.50 x 79.75	6	3
83.75	6	3
87.75	7	3
91.75	7	3
95.75	7	3

X - JAMB "A"	X - HEAD/SILL "C"	X - HEAD/SILL "F" (USE W / TABLE 7.)	X - JAMB "A"	X - HEAD/SILL "C"	X - HEAD/SILL "F" (USE W / TABLE 7.)
8	4	8	4	2	3
8	4	8	4	2	3
8	4	8	4	2	3



NOTES:

1. FOR CONCRETE INSTALLATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO 1/4" TAPCONS EMBEDDED 1 3/8" MIN. (TYPE 1) OR 1/4" SS4 CRETE-FLEX EMBEDDED 1 3/4" MIN. (TYPE 2). THE MINIMUM DISTANCE FROM CENTER OF ANCHOR TO CONCRETE EDGE IS 1 3/4". FOR WOOD INSTALLATIONS USE #12 SCREWS, G5 (TYPE 3) OR ELCO 1/4" SS4 CRETE-FLEX ANCHORS EMBEDDED 1 3/8" MIN. (TYPE 2).
2. WOOD BUCKS DEPICTED AS 1x ARE LESS THAN 1 1/2" THICK. 1x WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
3. IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT (3400 PSI MIN.), (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

SD 12.17.13

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 12-0516.02 Expiration Date 10/1/2017 By Miami Dade Product Control

Drawn By: J ROSOWSKI
Drawn Date: 04/04/12
Drawing No. 11005-1
Rev: D
Sheet: 10 OF 10
Scale: NTS
Series/Model: FD-101
Description: ANCHORAGE DETAILS
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT
Rev. D
Date: APR. 2012
Revision: NO CHANGES THIS SHEET

PGT
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LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER ANTHONY LYNN MILLER
A. LYNN MILLER, P.E.
P.E.# 58705