PLANNING DIVISION



File No. (internal use only):_____

2600 Hollywood Boulevard Room 315 Hollywood, FL 33022

GENERAL APPLICATION



Tel: (954) 921-3471 Fax: (954) 921-3347

This application must be completed in full and submitted with all documents to be placed on a Board or Committee's agenda.

The applicant is responsible for obtaining the appropriate checklist for each type of application.

Applicant(s) or their authorized legal agent must be present at all Board or Committee meetings.

At least one set of the submitted plans for each application must be signed and sealed (i.e. Architect or Engineer).

Documents and forms can be accessed on the City's website at

http://www.hollywoodfl.org/DocumentCenter/Home/View/21



APPLICATION TYPE (CHECK ONE)	:
☐ Technical Advisory Committee	☐ Historic Preservation Board
☐ City Commission	☐ Planning and Development Board
Date of Application:	
Location Address:	
	Subdivision:
Folio Number(s):	
	Land Use Classification:
	Sq Ft/Number of Units:
	() Yes () No If yes, attach a copy of violation.
Has this property been presented to the City Number(s) and Resolution(s):	before? If yes, check al that apply and provide File
☐ Economic Roundtable ☐ Technical Ad	visory Committee
☐ City Commission ☐ Planning and	Development
Explanation of Request:	
Number of units/rooms:	Sq Ft:
Value of Improvement:	Estimated Date of Completion:
Will Project be Phased?()Yes ()No	If Phased, Estimated Completion of Each Phase
Name of Current Property Owner:	
Address of Property Owner:	
Telephone: Fax:	Email Address:
Name of Consultant/Representative/Tenant (circle one):
Address:	Telephone:
Fax: Email Address: _	
Date of Purchase: Is there a	an option to purchase the Property? Yes () No ()
If Yes, Attach Copy of the Contract.	
List Anyone Else Who Should Receive Notice	e of the Hearing:
A	ddress:
	Email Address:

PLANNING DIVISION



2600 Hollywood Boulevard Room 315 Hollywood, FL 33022 File No. (internal use only):

GENERAL APPLICATION

CERTIFICATION OF COMPLIANCE WITH APPLICABLE REGULATIONS

The applicant/owner(s) signature certifies that he/she has been made aware of the criteria, regulations and guidelines applicable to the request. This information can be obtained in Room 315 of City Hall or on our website at www.hollywoodfl.org. The owner(s) further certifies that when required by applicable law, including but not limited to the City's Zoning and Land Development Regulations, they will post the site with a sign provided by the Office of Planning and Development Services. The owner(s) will photograph the sign the day of posting and submit photographs to the Office of Planning and Development Services as required by applicable law. Failure to post the sign will result in violation of State and Municipal Notification Requirements and Laws.

(I)(We) certify that (I) (we) understand and will comply with the provisions and regulations of the City's Zoning and Land Development Regulations, Design Guidelines, Design Guidelines for Historic Properties and City's Comprehensive Plan as they apply to this project. (I)(We) further certify that the above statements and drawings made on any paper or plans submitted herewith are true to the best of (my)(our) knowledge. (I)(We) understand that the application and attachments become part of the official public records of the City and are not returnable.

Signature of Current Owner:	Date:09/14/18
PRINT NAME: Admor IIc manager of Hollywood 31	
Signature of Consultant/Representative:	Date:
PRINT NAME: Graham Penn, Esq.	Date:
Signature of Tenant:	Date:
PRINT NAME:	Date:
Current Owner Power of Attorney	
l am the current owner of the described real property and that I am aware of the Described real property, which is hereby no many property, which is hereby no many legal representative before the Committee) relative to all matters concerning this application.	of the nature and effect the request for nade by me or I am hereby authorizing (Board and/or
Sworn to and subscribed before me this day of	Signature of Current Owner Admor IIc
Notary Public	Print Name
State of Florida	
My Commission Expires 1/2/19 (Check One) Personally known to me; OR	Produced Identification



DIRECT LINE: (305) 377-6229 E-MAIL: gpenn@brzoninglaw.com www.brzoninglaw.com

VIA HAND DELIVERY

November 16, 2018

Leslie A. Del Monte Planning Manager City of Hollywood 2600 Hollywood Boulevard, Room 325 Hollywood, FL 33021

Re: Final -TAC Application Letter of Intent for the Property Located at 3100 South Ocean Drive, Hollywood, Florida (Application No. 18-DJPV-60)

Dear Ms. Del Monte:

Our firm represents Transamerican Development Corporation (the "Applicant"), the contract purchaser of the property located at 3100 South Ocean Drive, (the "Property") within the City of Hollywood Florida (the "City"). The Applicant is proposing to develop the Property with a Publix grocery store that will serve the Hollywood Beach residents. Please consider this letter the Applicant's letter of intent for final Technical Advisory Committee ("TAC") review. We are attaching our written responses to the TAC comments. As noted in the response document, we believe that the Applicant has addressed the reviewing departments' comments within the revised plans. We believe that the revised design provides the City with the necessary information for final TAC. More important, the revisions propose a design that is improved in both design and functionality.

Existing Property and Zoning. The Property is approximately a 1.15 acre vacant lot and consists of Tax Folio number 5142-24-01-0620. See Exhibit A, Property Appraisers Summary Report. The Property is designated Commercial Flex and zoned Planned Development ("PD") as part of the Ocean Palms Planned Development. In 2015, the City approved an amendment to the previously approved Master Development Plan with regards to this Property. See Exhibit B, Ordinance No. O-2015-23. The approval included design and site plan approval of a six (6) story 6,232 commercial structure, as well as a variance to waive the required twenty-five

Leslie A. Del Monte, Planning Manger November 16, 2018 Page **2** of **2**

(25) foot peripheral landscaped setback from all external streets.

<u>Proposed Use.</u> The Applicant proposes to develop the Property with a grocery store on Hollywood Beach operated by Publix Super Markets (the "Project"). Development of the Property would contribute to the enhancement of the surrounding neighborhood and provide a much needed commercial use that will primarily serve beach residents, as well as visitors. We believe that the location of a well-known and high quality supermarket on the Beach will be a direct benefit to City residents, who will no longer need to travel off of the barrier island to serve their daily needs.

The proposed design is simple and unique for the Hollywood Beach location. The first and second floor will contain sufficient parking for the use, and the entire third floor will consist of the retail space. All loading will be internal to the building. The proposed design took into consideration the dual-frontages of the Intracoastal Waterway and Ocean Drive/A1A and is within the envelope of development approved in the current Master Plan. The Project will also feature an outdoor patio area. The building has been designed in a manner that is resilient to storms and sea level rise. In order to permit the appropriate development of the Property, the Applicant will require several changes to the Planned Development, as applied to the Property, most notably a revision to the approved Master Plan.

<u>Conclusion.</u> We look forward to your review and recommendation for approval of the Project. If you have any questions or concerns regarding this letter, please do not hesitate to phone my direct line at (305) 377-6229 or send me an email at gpenn@brzoninglaw.com.

Sincerely

Graham Penn

cc: Emily K. Balter

3100 S OCEAN DRIVE Page 1 of 1



Site Address	3100 S OCEAN DRIVE, HOLLYWOOD FL 33019-2846	ID#	5142 24 01 0620
Property Owner	HOLLYWOOD 3100 LLC	Millage	0513
Mailing Address	2875 NE 191 ST STE 801 AVENTURA FL 33180	Use	28
Abbr Legal Description	BEVERLY BEACH 22-13 B LOT 26,27 BLK 15		

The just values displayed below were set in compliance with Sec. 193.011, Fla. Stat., and include a reduction for costs of sale and other adjustments required by Sec. 193.011(8).

		Prope	rty Assessment Values	<u> </u>	. ,			
Year	Land	Building / Improvement	Just / Market Value	Assessed / SOH Value	Tax			
2018	\$2,007,310	\$47,200	\$2,054,510	\$2,054,510				
2017	\$2,007,310	\$47,200	\$2,054,510	\$2,054,510	\$42,913.36			
2016	\$2,007,310	\$47,200	\$2,054,510	\$2,054,510	\$43,810.37			
	2	018 Exemptions and	d Taxable Values by Ta	xing Authority				
	Independent							
Just Val	ue	\$2,054,510	\$2,054,510	\$2,054,510	\$2,054,510			
Portabil	ity	0	0	0	0			
Assesse	ed/SOH	\$2,054,510	\$2,054,510	\$2,054,510	\$2,054,510			
Homest	ead	0	0	0	0			
Add. Ho	mestead	0	0	0				
Wid/Vet/	/Dis	0	0	0				
Senior		0	0	0	0			
Exempt	Туре	0	0 0 0		0			
Taxable		\$2,054,510	\$2,054,510	\$2,054,510	\$2,054,510			

Sales History									
Date	Type	Price	Book/Page or CIN						
5/25/2012	WD-Q	\$2,300,000	48802 / 1103						
6/9/2006	WD	\$750,000	42405 / 301						
3/20/2006	WD	\$250,000	41878 / 889						
3/18/2003	WD	\$250,000	34775 / 120						
12/1/1970	WD	\$74,880	1409 / 825						

Land Calculations					
Price	Factor	Type			
\$40.07	50,095	SF			
Adj. Bldg. S.F.					

	Special Assessments									
Fire	Garb	Light	Drain	Impr	Safe	Storm	Clean	Misc		
05										
L										
1										

ORDINANCE NO. <u>0-2015-23</u>

(13-DJPV-44)

AN ORDINANCE OF THE CITY OF HOLLYWOOD, FLORIDA, APPROVING AN AMENDMENT TO THE CURRENT OCEAN PALMS CONDOMINIUM PLANNED DEVELOPMENT MASTER PLAN AS IT RELATES TO PHASE II (ORIGINALLY APPROVED BY ORDINANCE O-2002-37); AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, on October 16, 2002, the City Commission passed and adopted Ordinance O-2002-37 which approved the rezoning of the properties located at 3100 and 3101 South Ocean Drive to PD (Planned Development), approved the Planned Development Master Plan known as Ocean Palms Condominium Planned Development Master Plan (the "Plan"); and

WHEREAS, the current project consists of two phases as follows: (1) Phase I (Oceanside condominium) has been completed; and (2) Phase II (Intracoastal side) which is currently vacant and is approved to be developed for a 19,400 sq. ft., six story, retail, restaurant, and parking garage facility; and

WHEREAS, an application was filed with the Department of Planning by Hollywood 3100, LLC requesting an amendment to the current Plan for Phase II of the project to develop the property as a five story commercial building to include office, retail and restaurant uses consisting of approximately 36,000 sq. ft., located at 3100 South Ocean Drive, as more particularly described in Exhibit "A" attached hereto and incorporated herein by reference; and

WHEREAS, pursuant to Section 4.15 G.3. of the Zoning and Land Development Regulations, the proposed amendment to the current Ocean Palms Plan (as approved by Ordinance O-2002-37), constitutes a substantial alteration to the character of the development and requires review and approval by the City Commission; and

WHEREAS, the Planning Manager and Associate Planner, following analysis of the proposed amendment to the Plan and its associated documents, have determined that the proposed amendment to the Plan is consistent with the Zoning and Land Development Regulations, is consistent with the City of Hollywood's Comprehensive Plan, and have therefore recommended approval; and

WHEREAS, the City Commission finds that the proposed amendment to the Plan is consistent with the City of Hollywood's Comprehensive Plan and the Zoning and Land Development Regulations, and is in the best interest of the citizens of the City of Hollywood;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF HOLLYWOOD, FLORIDA:

That Ordinance No. O-2002-37, which approved the Ocean Palms Section 1: Condominium Planned Development Master Plan, shall be further amended, as more specifically described in Exhibit "B" attached hereto and incorporated herein by reference.

Section 2: That all sections or parts of sections of the Zoning and Land Development Regulations, Code of Ordinances, and all ordinances or parts thereof and all resolutions or parts thereof in conflict herewith are hereby repealed to the extent of such conflict.

Section 3: That if any word, phrase, clause, subsection or section of this ordinance is for any reason held unconstitutional or invalid, the invalidity thereof shall not affect the validity of any remaining portions of this ordinance.

Advertised $Sept 25$, 2015.
PASSED on first reading this <u>26</u> day of <u>August</u> , 2015.
PASSED AND ADOPTED on second reading this
RENDERED this 13 day of Nov , 2015.
BAR

PETER BOBER, MAYOR

APPROVED AS TO FORM & LEGALITY

PATRICIA A. CERNY, MMC, CITY CLERK

for the use and reliance of the City of Hollywood, Florida, only.

or

EXHIBIT A

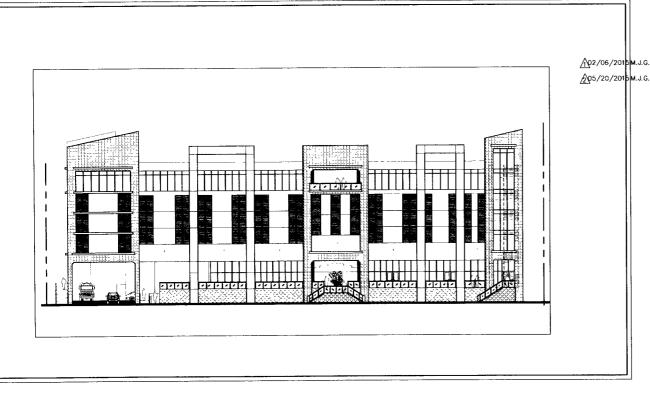
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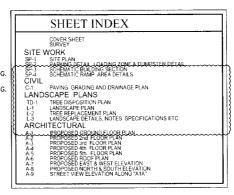
LOTS 26 AND 27, BLOCK 15 OF "BEVERLY BEACH", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 22, PAGE 13 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

PROPOSED NEW DEVELOPMENT FOR:

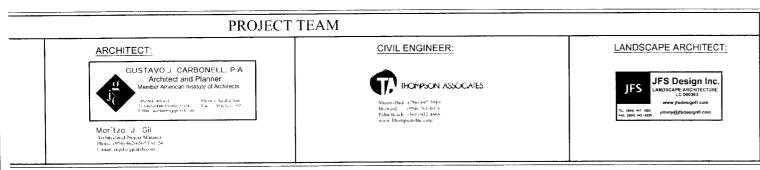
"OCEAN DRIVE RETAIL BUILDING."

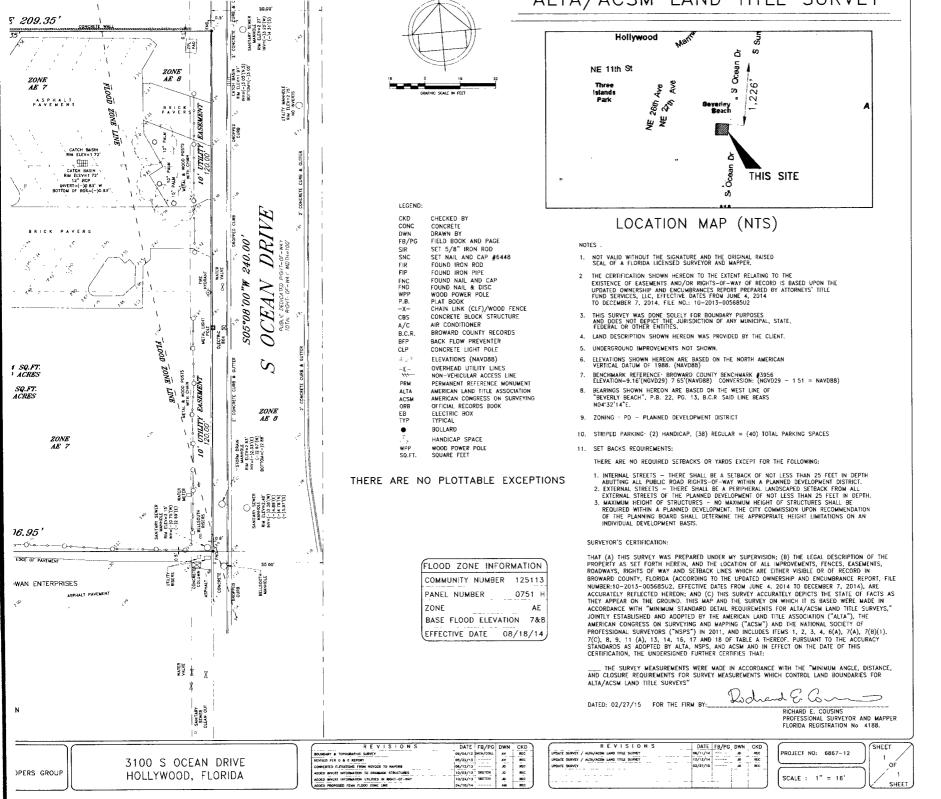
3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA

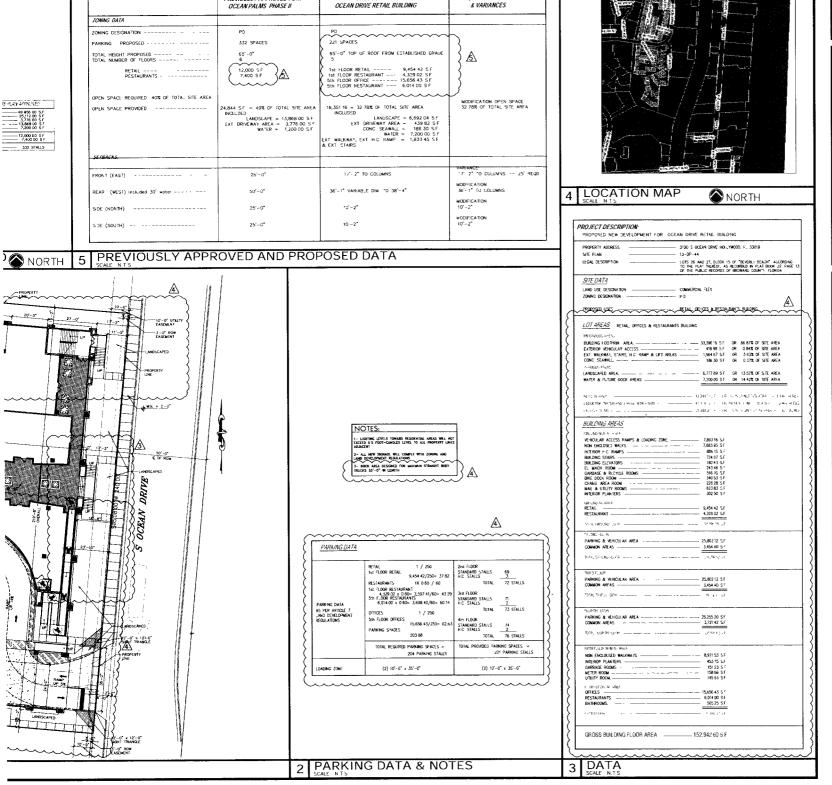












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Д02/06/2015 м.J.G. <u></u>605/152015 M.J.G

> ď Ф. CARBONELL, and Planner GUSTAVO J. C Architect (954)

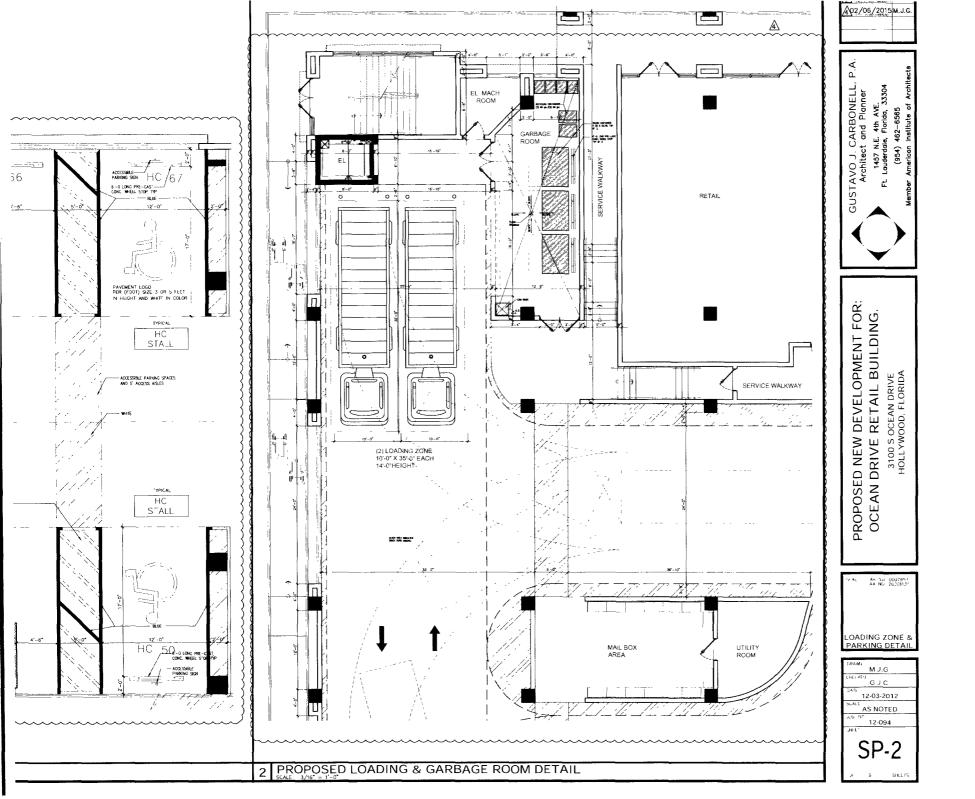


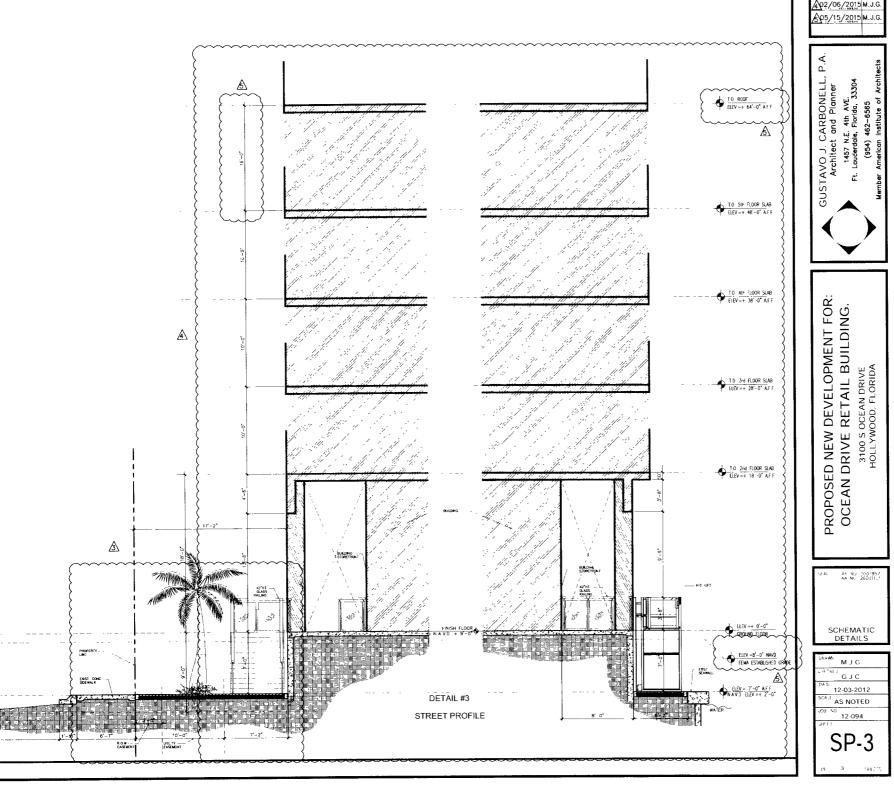
FOR: DEVELOPMENT FOR RETAIL BUILDING 3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA PROPOSED NEW I OCEAN DRIVE F NEW

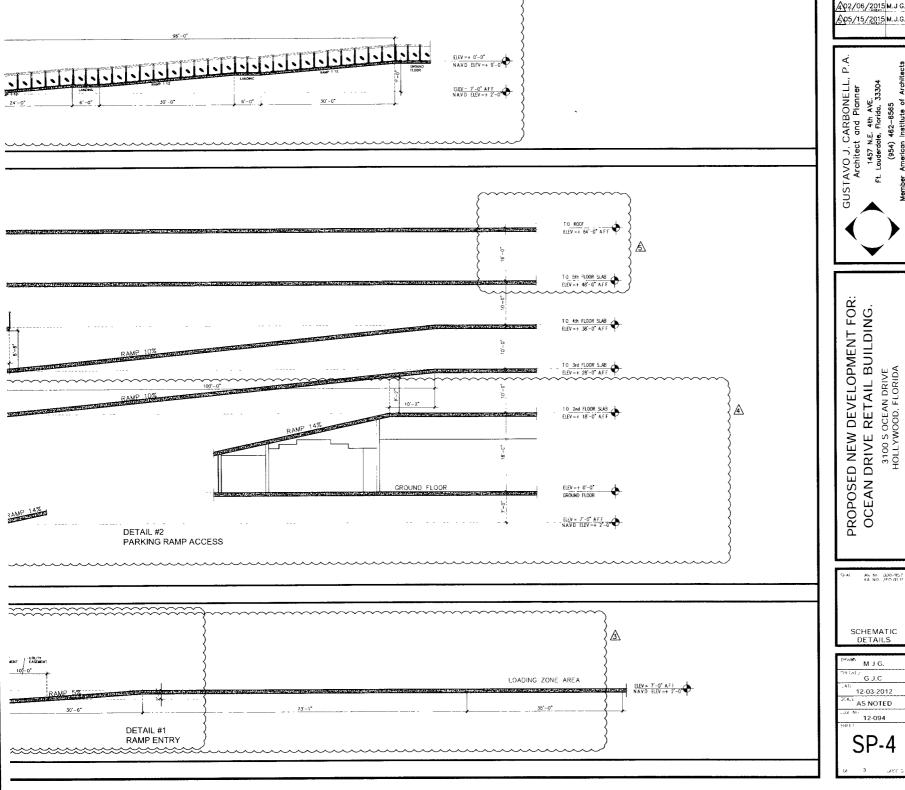
A NJ J007951 AA NO J6001131 SITE PLAN

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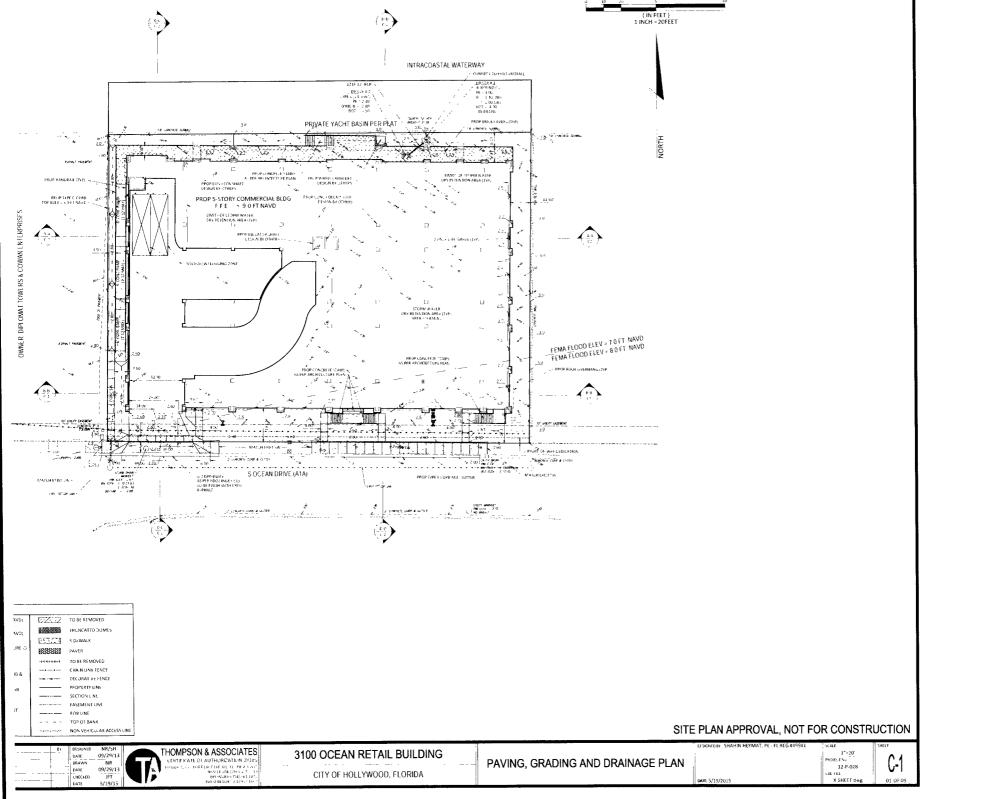


Д02/06/2015 M.J.G. Д05/15/2015 M.J.G.

GUSTAVO J. CARBONELL, P Architect and Planner 1457 N.E. 4th AVE. Ft. Lauderdale, Florida, 33304

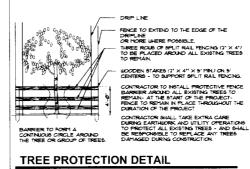
PROPOSED NEW DEVELOPMENT FOR: OCEAN DRIVE RETAIL BUILDING.

3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA





jimmy@ifsdesignft.com							
REVISION BY							
5. New Background from Proj. Arch	89/4/1b						





SCALE: 1" = 20"

UM	SYM	COMMON NAME	3100 SOUTH OCEANE BOTANICAL HAME	HEIGHT	SPREAD	DBH	CONDITION	STATUS	CANOPY	DBH LOSS	REMARKS
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	RE	ROOM PAN	Province wilds	35	70	18	FAIP	TOPEMOUS	114	15	
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_	CN	COCONUT PAGE	Cquas ructera	7.75	- 70	9	GOLES	TO REMOVE	2.4	9	
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٠	BA	SCHEFFIERA	Brisis take on tempologists	16	**	er Life	:	TO REMENT	171		PROHESTED 3PH 1 ES
- †									1,537	70 -	* * *******
_											
1			·								

SOUTH OCEAN

NOTES:

- SEE SHEET L-1 FOR PROPOSED TREE LOCATIONS.
- THE CONTRACTOR SHALL REPOVE ALL TREES AND HEDGES AS PER PLANS AND AS APPROVED BY THE LOCAL CONTRACTOR OF THE CONTRACTOR OF TH
- NOTE: LOCATIONS SHOUN FOR THE EXISTING TREES ARE APPROXIMATE, EXACT LOCATIONS ARE TO BE FIELD VERHFED BY A REGISTERED LAND BURNETOR (RLS) PRIOR TO ANY PAVING AND ANY OTHER SUCH JORK JUNCO JULL BE IMPACTED BY ANY TREES TO REPLAIN.
- ALL INVASIVE EXOTIC VEGETATION AND OTHER PLANTS LIGHTED AS CATEGORY I, ON THE EXOTIC PEST FLANT CONCE, IS LIST OF ROMEAS HOT INVASIVE SPECIES SHALL BE REPOVED FROM THE SITE AND HANTENANCE SHALL BURKENING CONTROL OF RE-INVASION.

REMOVAL OF ANY AND ALL TREES AND PALMS WILL REQUIRE A WRITTEN TREE REMOVAL PERMIT FROM THE CITY OF HOLLYWOOD

SEE LANDSCAPE PLANS FOR PROPOSED PLANTINGS, PLANTLIST, LANDSCAPE DETAILS, SPECIFICATIONS, NOTES, ETC.

BEE L-2 FOR TREE REPLACEMENT PLAY

SEE IRR-1 FOR IRRIGATION PLAN, NOTES, DETAILS, SPECIFICATIONS, ETC

TREE DISPOSITION PLAN

1. Fer City TAC 9/12/
Comments
2. New Background
3. New Background
7. New Background
7. New Background
8. 16-36-14 City
4. 16-36-14 City

GUSTAVO J. CARBONELL, P.A.

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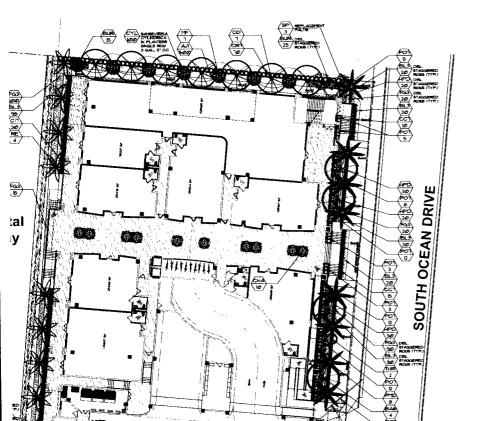


PROPOSED NEW DEVELOPMENT FOR: OCEAN DRIVE RETAIL BUILDING. 3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA

JAMES F 80CASH RLA * \$000(132

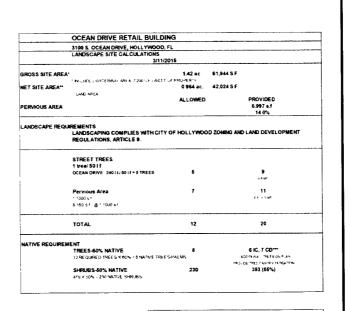
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DATE 12-03-2012
SCALE 1-2-2JOB NO 12-094
SHEET

TD-1



		PLANTLIST						
	SPECIFICATION	SYM NA	TIVE .	NAME	BOTANICAL NAME	SPECIFICATION		
		ACCE	NTS AND G	ROUNDCOVERS				
	16'-18', x 10 spr., 4' cal.	CHA	10	EUROPEAN FAN PALM	Chémerope huntile	15 gal., 4' o.a., full		
-	FL. FANCY, TREEWORLD	BL3	525	BLUEBERRY FLAX LILY	Dienella tesmanica	3 gal, 12" x 18", 18" oc., full		
lia	2' x 6'spr., 2 1/2' cal	FG3	430	GREEN ISLAND' FICUS	Ficus Green Island	3 gal., 18" x 18", 18" o.c., full		
-	12' x 5'epr., 2' cal	BUR	50	PHILODENDRON 'ROJO CO	NGO' Philodendron app.	3 gal, 18' x 18' 18' o.c., full		
	12 x 6 , max 5 tks * o.s ht.	CYL	200	SANSEVIERIA 'CYLINDRICA'	Sansaviaria cylindrica	3 gal. 18' x 12', 18' oc full		
		1 	800	ASIATIC JASMINE	Trachelospennum asiaticum	1 gal, 12' oc.		
	FG, B' oa, full head	SOD						
1edjoo!	12' c.t., full head, Specimen	FLO	2 <i>000</i> 5F	"FLORATAM" ST. AUGUSTINE	Stenotaphrum secundatum	SOLID SOD, price per s.f		
	10' GIU., 30' o.e. full head	TOPSOL	L	TOPSOIL SAND MIX	50-50 TOPSOIL SAND MIX, SPREAD IN PLACE			
	BTD, 16'-20' o.a., 9' dbh.	50 C.Y		TREES, PALMS, SHRUBS AND GROUNDCOVERS				
		MULCH	NG:					
			40 CY.4-	'DECO BARK' MULCH	3' DEPTH, SPREAD IN PLACE			
hora	7 gal, 30° x 24°, 24° oc. full	1				ROVAL PRIOR TO INSTALLAT		
	1 GAL., 30' x 24' full, 24' o.c.				ITCH OTTÄVILLIER SHOMN VEGE			
	1 GAL, 36' ht., 30' O.C., FTB.	1		TO PROVIDE A UNIT F	RICE PER UNIT AND WILL BE F	PAID ON THAT UNIT PRICE BA		
	3 gal. 18' x 18', 18' oc.	[UPON FINAL INSPECTI	ON AND APPROVAL.			

10 gai, 36" ht., 24" oc.





0' 10'

A WRITTEN TREE REMOVAL PERMIT IS REQUIRED FROM THE CITY OF HOLLYWOOD PRIOR TO REMOVAL OF ANY TREES OR PALMS.

PLANT MATERIAL SHALL NOT BE PLANTED INTO ROOT BALLS OF TREES AND PALMS PER THE CITY OF HOLLYWOOD (TYPICAL)

THE CITY LANDSCAPE ARCHITECT WILL BE NOTIFIED PRIOR TO ANY CHANGES IN APPROVED LANDSCAPE MATERIALS OR SIZES.

SEE SHEET L-2 FOR TREE REPLACEMENT PLAN.

SEE SHEET L-3 FOR LANDSCAPE DETAILS, SPECIFICATIONS, NOTES, ETC.

LANDSCAPE PLAN

Per City TAC 18/22/19

JFS Design Inc.

ANDSCAPE ARCHITECTURI

REVISION

JFS

GUSTAVO J. CARBONELL, P.A.

A.C. PROPERTY OF ALT

F. LONGORDER, FORTH AND

TOPAL, ALLONGORDER, AND

Norther American regulations

Norther American regulations

Norther American regulations

Norther American regulations



PROPOSED NEW DEVELOPMENT FOR:
OCEAN DRIVE RETAIL BUILDING.
3100 S OCEAN DRIVE
HOLLYWOOD, FLORIDA

JAMES F. 80CASH 50.A * 0000132

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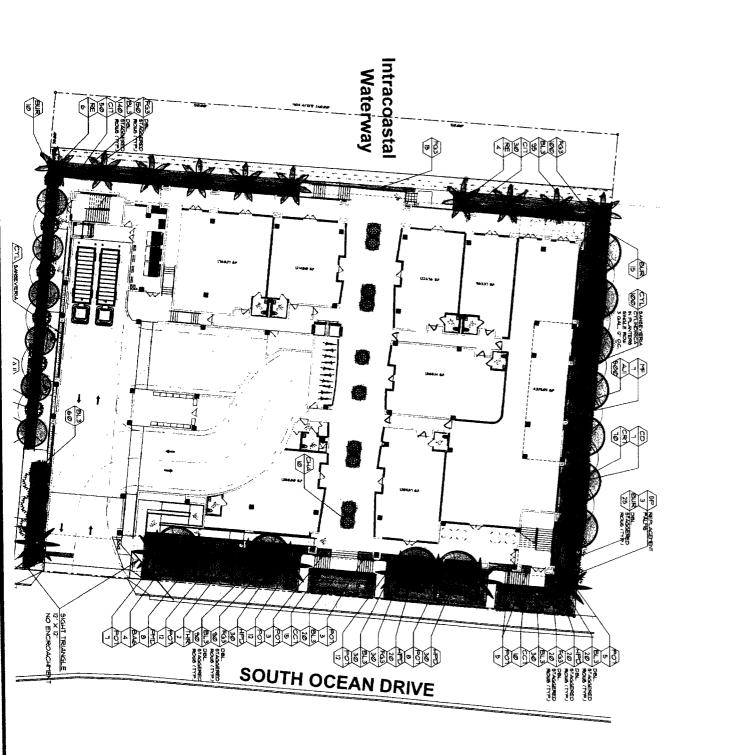
G.J.C. DATE 12-03-201

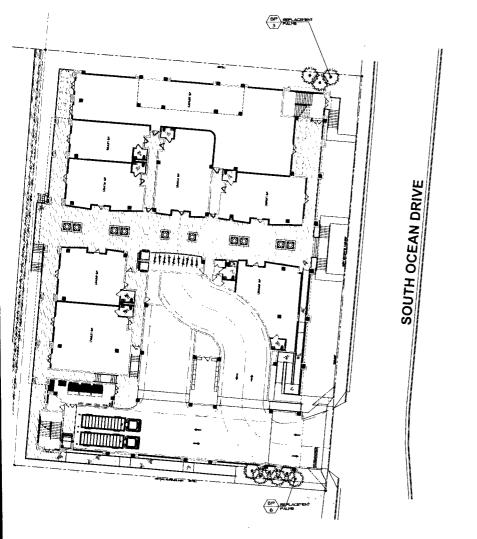
12-03-2012 CALE 1'+2Ø'

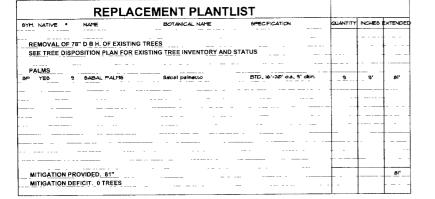
12-094 SHEET

L-1

SHEETS









SCALE: 1' = 20'

A WRITTEN TREE REMOVAL PERMIT IS REQUIRED FROM THE CITY OF HOLLYWOOD PRIOR TO REMOVAL OF ANY TREES OR PALMS.

PLANT MATERIAL SHALL NOT BE PLANTED INTO ROOT BALLS OF TREES AND PALMS PER THE CITY OF HOLLYWOOD (TYPICAL).

THE CITY LANDSCAPE ARCHITECT WILL BE NOTIFIED PRIOR TO ANY CHANGES IN APPROVED LANDSCAPE MATERIALS OR SIZES.

SEE SHEET L-3 FOR LANDSCAPE DETAILS, SPECIFICATIONS, NOTES, ETC.

TREE REPLACEMENT **PLAN**

JFS Design Inc. LANDSCAPE ARCHITECTURE LC 000393

REVISION

JFS

P.A. CARBONELL,



PROPOSED NEW DEVELOPMENT FOR: RETAIL BUILDING 3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA DRIVE OCEAN

JAMES F. SOCASH FILA * 000132

G.J.C. 12-03-2012 12-094

REVISION

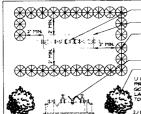
FERTILIZATION:

ELTITUTE APPLICATION OF GAMAL ARE
RETURNED AND APPROVAL BY THE LANDSCAPE
ARCHITECT AND APPROVAL BY THE LANDSCAPE
ARCHITECT AN ADDITIONAL RETURNING APPLICATION
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PROGRAM BHALL BERTHILIZED BHALL BEFT
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AND APPLICATION BHALL



THE MATERIAL AROUND ALL
DEQUIPMENT - TYPICAL FOR ALL HPL
OMES OR PAOS, TELEPHONE AND CABLE
T LIFT STATIONS, IRRIGATION PUMPS OR ANY

R ANY AND ALL UNDERSROUND UTILITIES INATED WITH THE LOCAL GOVERNING THE INDIVIDUAL UTILITIES AND/OR (800) 432-4110

TO BE COCOPLIM OR OTHERWISE E PLANS- 3 GAL, 24" X 24", 2" O.C. OR E LOCAL REQUIREMENTS, QUANTITY TO BE THE UTILITY PROVIDE UNIT PRICE AND TY NOTALLED

IG FOR ACCESS ON ONE SIDE CUIRED BY THE UTILITY.

) ADJUST ANY AND ALL TREES IN SOVIDE FOR MIN, IS' CLEARANCE ONS NOT PER PLAN.

NCE FOR ALL SMALL TREES AND IT. PER FPL GUIDELINES SEE FPL'S IT TREE IN THE RIGHT PLACE' FOR SIZES AND LIST.

DUNDCOVERS TO BE STAGGERED AS SHOUN PACING BETILEEN ROUS TO BE AT A 60 GREE ANGLE OF THE O.C. DISTANCE AS OUN

"CH - SEE SPECS. FOR DEPTH, TYPE, ETC.

LCH SHALL BE LEVEL WITH ALL EDGES OF VEHENT TYPICAL ANTING BOIL MIX - SEE NOTES FOR TYPE PTH, ETC.

ANT MATERIAL SHALL NOT BE PRIMED SOR TO INSTALLATION, AFTER PLANTS HAVE BY INSTALLED EACH PLANT SHALL BE LINED FOR INFORMITY OR AT THE RECTION OF THE PROJECT LANDSCAPE CHITECT

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YIN SAUCER COLLAR FOR WATER RETENTION

ANTING BOIL MIX - SEE LANDSCAPE NOTES, R MIX, DEPTH, ETC

NTS

NG DETAIL

NCE

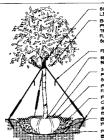
LEEN FOR **JIPMENT**

- BACKFLOW PREVENTER

PROPOSED HEDGE COCOPLUM ADD SHRUBS AS NEEDED IF NOT SHOUN ON PLAN. 3 GAL., 24" X 24", 2" O.C.

2) LANDSCAPING 18 REQUIRED AS PER CHAPTER 32, SECTION 32-151(d) OF THE MIAMI-DADE COUNTY CODE

TYPICAL PLANTING SCREEN FOR **ABOVE-GROUND UTILITIES**



SINGLE LEADER NO CO-DOMINANT LEADERS, NO INCLUDED BARK BIODEGRADALE SISAL ROPE (3 GUTS) PER TREES 64-ALL BE LISED TO SECURE TREES, LISE 44-PLE LEMENTS TO ALLOW FOR FUTURE ADJUSTMENTS TES SHALL BE SET SO AS NOT TO INJURE BRANCOMS HABIT

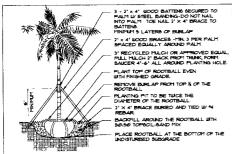
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3' RECYCLED MULCH OR APPROVED EQUAL, PULL MULCH 2' BACK FROM TRUNK, FORM BALICER 4'-6' ALL AROUND PLANTING HOLE

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PLANTING PIT TO BE TUICE THE DIAMETER
OF THE ROOTBALL
IRON REBAR (%) OR LICODEN STAKES (TYP)
BURIED BELOW GROUND LEVEL
BACKFILL AROUND THE ROOTBALL WITH IS
PLANTING HIX AND IS NATIVE SOIL PLACE ROOTBALL AT THE BOTTOM OF THE UNDISTURBED

TREE PLANTING DETAIL

PALM PLANTING DETAIL



LANDSCAPE NOTES

- ALL PLANT MATERIAL SHALL BE FLORIDA NO I GRADE OR BETTER.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATION OF AND AVOID AND PROTECT UTILITY LINES, BURIED CABLES, AND OTHER UTILITIES
- 3 TREE, PALM, ACCENT AND BED LINES ARE TO BE LOCATED IN THE FIELD AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 4 ALL PLANTING BOIL SHALL BE 50 50 TOPSOIL SAND MIX, FREE OF CLAY, STONES, ROCKS, OR OTHER ROMEKIN MATTER. THIS SPECIFICATION INCLIDES ALL BACKFILL FOR DEBTIS AND OTHER LANDSCAPE AREAS.

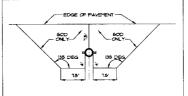
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5 THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO BRING ALL GRADES TO WITHIN 2" OF FINAL GRADES, THIS SHALL INCLUDE A 2" APPLICATION OF 50°.50 TOPSOIL-80AUD THIX POR ALL LANDSCAPE AND ARREAS TO BE SODDED

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DETERMINED UNICH PARTY WILL FROM USE HID 2 TO SOME SHOULD AND BUBBLOGHT PAYTHEM.
OTHER PLANTING BOIL MIXES TO BE ADDED, IE. FOR TREES, PALINS, SPECHEN
PLANTS, SHEADS AND GROUNDCOVERS SHALL BE THE RESPONSIBILITY OF THE
LANDSCAPE CONTRACTOR AND BE INCLUSIVE WITH THE LANDSCAPE BID.

- 1. CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR AND LEAVE PROVISIONS FOR ALL, INCLUDING WINDERGROUND UTILITY LINE LOCATIONS DIAL, BIT NO CUTS' AS REQUIRED BY LAW.
- 8 ALL PLANTING BEDS SHALL BE MILCHED TO A DEPTH OF 3" WITH AN APPROVED RECYCLED MILCH BY THE PRESIDING SOVERNIS AGENCY. NO HEAVY METALS, LE ARBENCE, LEAD, ETC. ARE TO BE CONTRACTOR SHALL PROVIDE CERTIFICION OR PROOF THAT ALL MILCH IS PRES OF BEAVY THATS OR SHILLAR ENVIRONMENTAL CONTARMANTO.
- 9. SOD SHALL BE ARGENTINE "BAHIA" OR ST AUGUSTNE "FLORATA"! AS SHOUN ON THE PLANS, STRONGLY ROOTED, PRISE PRICH URED, RINGELS AND DIREASE. CONTRACTOR SHALL BOD ALL ARGES AS INDICATED ON THE FLAN OR AS DIRECTED PATIENT SHALL BE DETERMINED BY THE TOTAL "REASINED SODDED AREAS YITE WITH PRICE SUBMITTED AND PIELD VERFIELD.
- 10. SOD SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AS DEFINED BY FDOT SOD SHALL CARRY A 5-MONTH WARRANTY.
- 2. ALL TINGES AND PALINS SHALL BE STAKED FER ACCEPTED STANDARDS BY THE FLORIDA NIBERTHEN I GROUPERS LANDSCAFE ASSOCIATION (RINGLA). THERE SHALL BE ONE FINAL INSPECTION FOR APPROVAL BY THE PRESENDE GOVERNING AGENCY. CONTRACTOR SHALL INSPECTIVE THE PLANS, DETAILS, SPECIFICATION AND INCIDENT AND EBBH AND PRESENT AND TO ALL THE SALL LANDSCAFE AND INCIDENT OF INSPECTION OF THE FINAL INSPECTION.
- B. THE PLANT LIST IS INTENDED ONLY AS AN AID TO BIDDING. ANY DISCREPANCIES FOUND BETWEEN THE QUANTITIES ON THE PLAN AND PLANT LIST, THE QUANTITIES ON THE PLAN FLANT LIST, THE QUANTITIES ON THE PLAN SHALL BE HELD VALID.
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- IS CONTRACTOR SHALL PROVIDE A WATER TRUCK DURING PLANTING TO INSURE PROPER WATERING-IN DURING INSTALLATION AND WILL BE RESPONSIBLE FOR CONTINUAL WATERING WITH FINAL ACCEPTANCE BY THE CUINER.
- IT ALL EXISTING TREES, PALINS AND PLANT MATERIAL TO RETAIN SHALL BE PROTECTIED DURING CONSTRUCTION. CONTRACTOR SHALL INSTALL PROTECTIVE BEARRIESS BLAIL INSTALL PROTECTIVE PROTECTIVE PROVISE OR AS SHALL BLAIL AS TO BE INSTALLED AT THE BEGINNING OF THE PROUDED BANGERS SHALL BE LOCATED TO NOLLDE THE DIRECT HEY PRESENT PALINS AND PLANT MATERIAL MATER PROSESSE. HE CONTRACTOR SHALL TAKE EXTRACTION SHALL TAKE EXTRACTIONS AND ASSESSED FOR THE CONTRACTOR SHALL TAKE EXTRACTIONS AND ASSESSED FOR THE CONTRACTOR SHALL TAKE EXTRACTION OF THE PARTY OF THE PROVINCE OF THE PARTY SHALL TAKE EXTRACTION OF THE PARTY SHALL THE PARTY SH
- IS EXISTING TREES AND PALMS TO REMAIN SHALL BE TRIMMED FER ANSI-3000 STANDARDS SUPERVISION OF THE TRIMMING SHALL BE PERFORMED BY AN
- 19. ALL EXISTING TREES AND PALMS SHALL BE "LIFTED AND THINNED" TO PROVIDE FOR AN 8" MINIMIM CLEARANCE FOR SIDEUALIAS AND PEDESTRIAN ULXULIATS AND A 14" INIMIMIM CLEARANCE FOR ROADULY'S, DRIVEULY'S, AND ALL VEHICULAR USE AREAS.
- 20 REMOVAL OF ANY TREES OR PALMS WILL REQUIRE A URITTEN "TREE REMOVAL PERMIT" FROM THE LOCAL GOVERNING AGENCY PRIOR TO REMOVAL
- 21 CITY LANDSCAPE REVIEWER WILL BE NOTIFIED PRIOR TO ANY CHANGES IN APPROVED LANDSCAPE MATERIALS
- 22. NO PLANT MATERIAL WILL BE PLANTED INTO ROOT BALLS OF TREES AND PAINS.

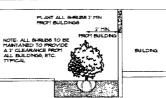


BY THE AUTHORITY OF THE FLORIDA BUILDING

THE CLEAR ZONE SHALL BE FREE OF LANDSCAPE (EXCEPT SOD), MAILBOXES, PARKING, LAMP-POSTS AND ALL OTHER OBJECTS.

EXCEPTIONS OTHER FIRE FIGHTING EQUIPMENT OR TRAFFIC POSTS TO PREVENT FIRE FIGHTING EQUIPMENT.

FIRE HYDRANT **CLEAR ZONE DETAIL**



SHRUB PLANTING ADJACENT TO BUILDINGS DETAIL

A WRITTEN TREE REMOVAL PERMIT IS REQUIRED PROM THE CITY OF HOLLYWOOD PRIOR TO REMOVAL OF ANY TREES OR PALMS.

PLANT MATERIAL SHALL NOT BE PLANTED INTO ROOT BALLS OF TREES AND PALMS PER THE CITY OF HOLLYWOOD (TYPICAL).

THE CITY LANDSCAPE ARCHITECT WILL BE NOTIFIED PRIOR TO ANY CHANGES IN APPROVED

SEE SHEET L-2 FOR TREE REPLACEMENT PLAN

SEE SHEET L-3 FOR LANDSCAPE DETAILS. SPECIFICATIONS, NOTES, ETC.

DETAILS, NOTES, SPECIFICATIONS, ETC.

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Per City TAC COmments

2. New Background

A TAC comments. STASTA

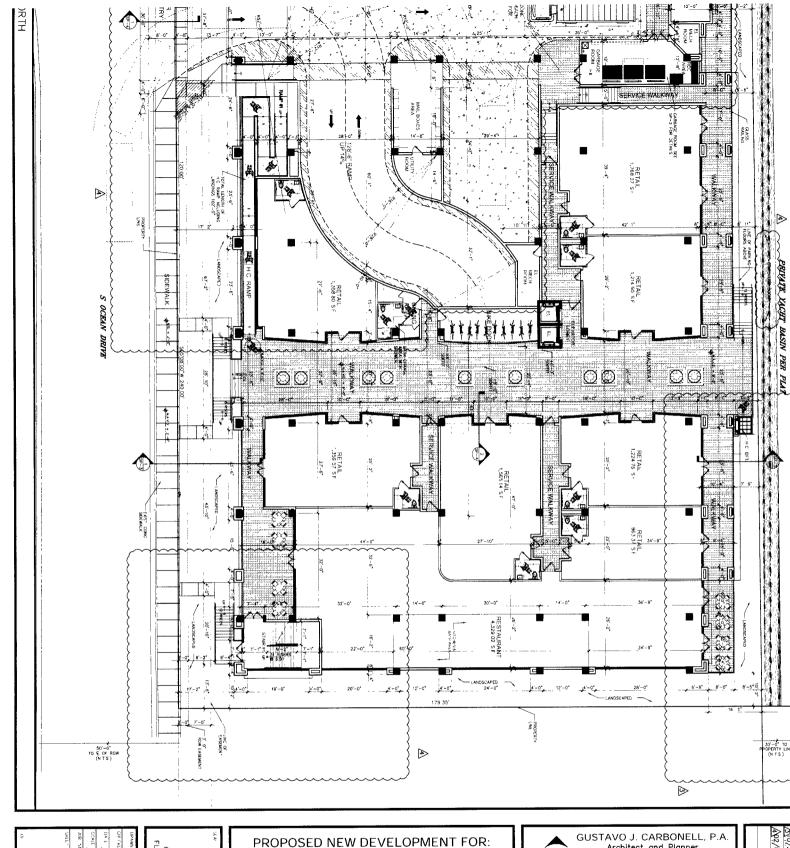
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JAMES F. SOCASH Fola • populi32

12-03-2012 12-094





GROUND FLOOR PLAN 44 No 5007947 44 NO . EBJ1131

PROPOSED NEW DEVELOPMENT FOR: OCEAN DRIVE RETAIL BUILDING.

> 3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA

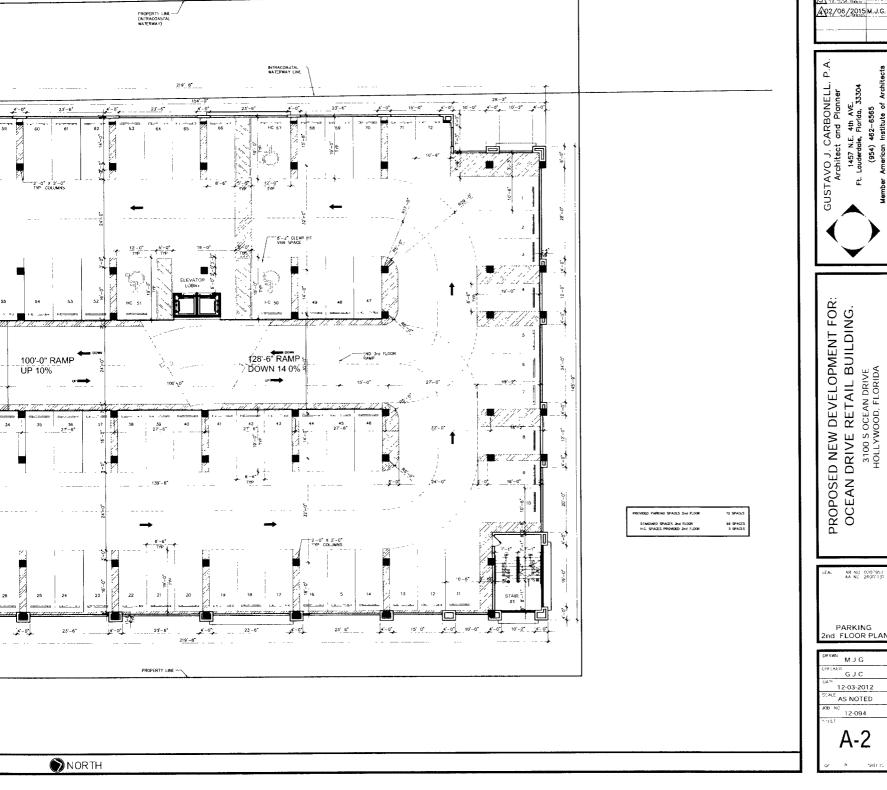


Architect and Planner

1457 N.E. 4th AVE. Ft. Lauderdale, Florida, 33304

(954) 462-6565 Member American Institute of Architects





402/06/2015 M.J.G.

GUSTAVO J. CARBONELL, P.A. Architect and Planner 1457 N.E. 4th AVE. Ft. Lauderdale, Florida, 33304

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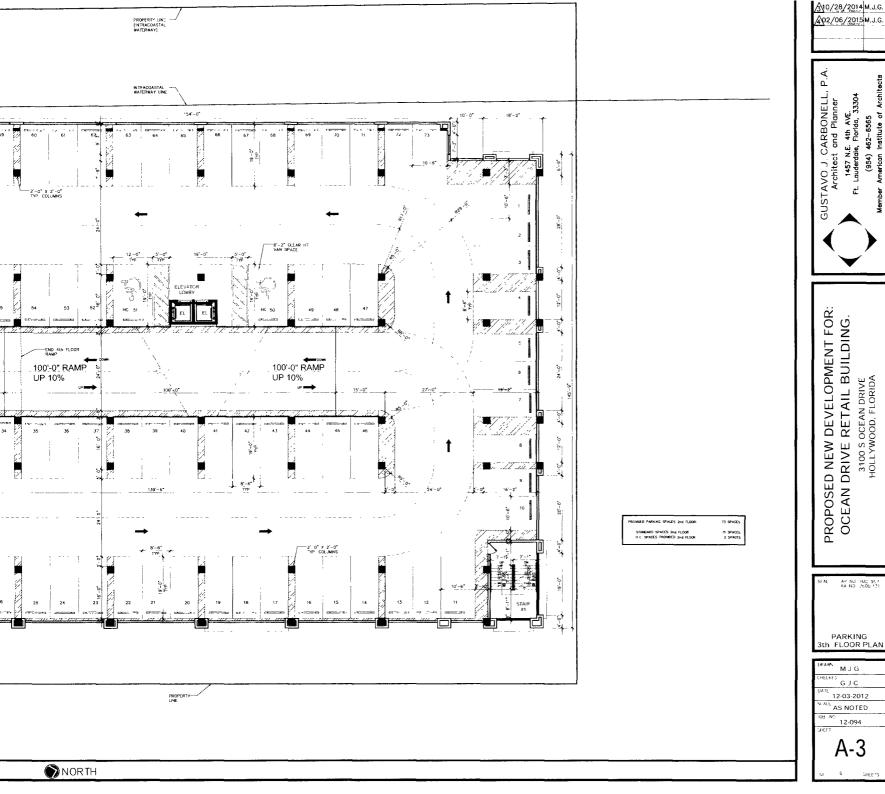
PROPOSED NEW DEVELOPMENT FOR: OCEAN DRIVE RETAIL BUILDING. 3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA

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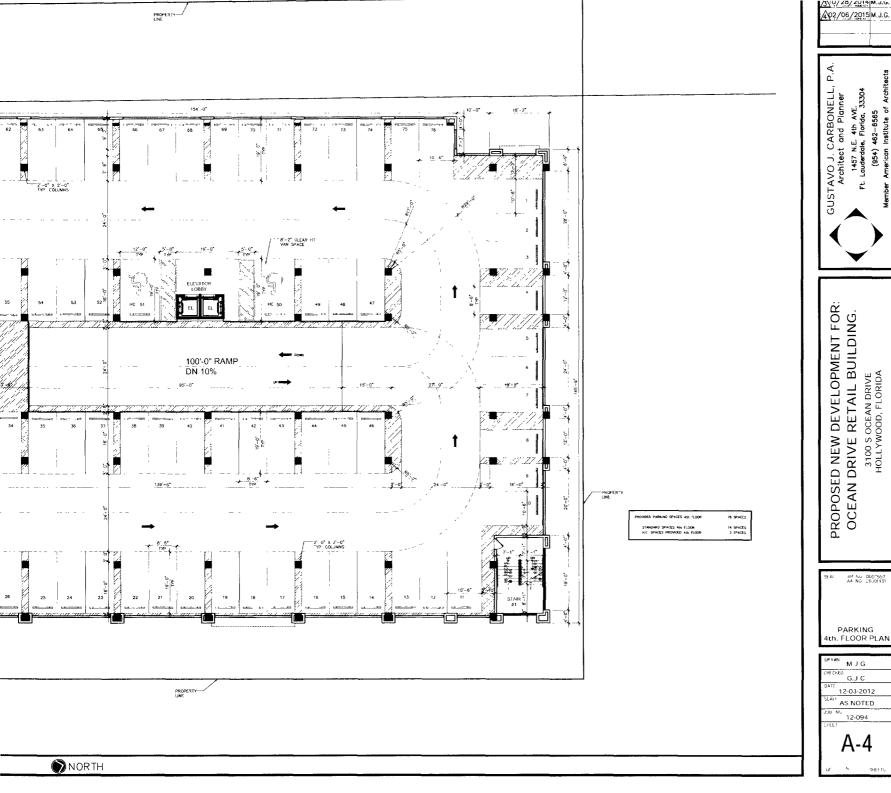


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120 300 DR 54 151 0035 CR AA PARKING 3th FLOOR PLAN

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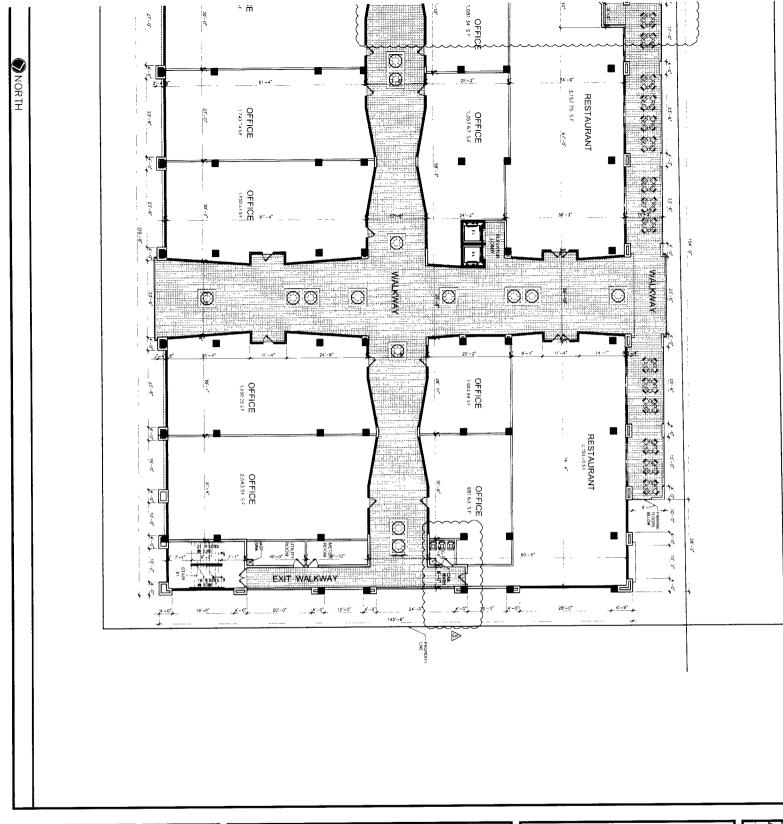


PROPOSED NEW DEVELOPMENT FOR: OCEAN DRIVE RETAIL BUILDING. 3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA

GUSTAVO J. CARBONELL, P.A. Architect and Planner
1457 N.E. 4th AVE.
Ft. Lauderdale, Florida, 33304



AR NO 0007957 AA NO 16001131





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5th FLOOR PLAN

PROPOSED NEW DEVELOPMENT FOR: OCEAN DRIVE RETAIL BUILDING.

3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA

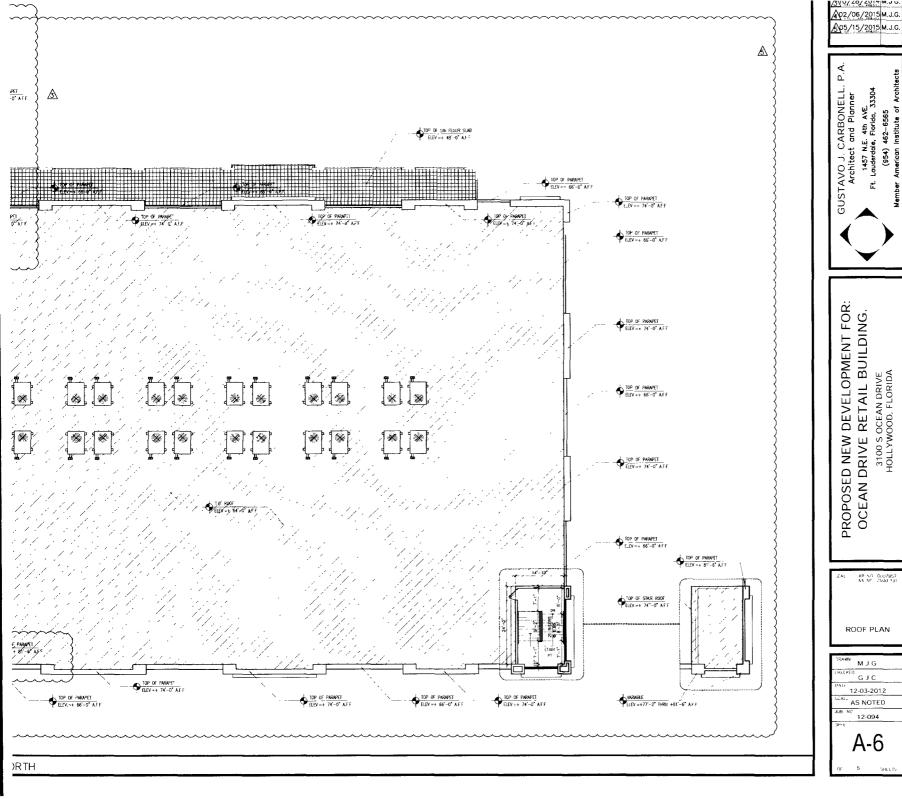


GUSTAVO J. CARBONELL, P.A. Architect and Planner

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Member American Institute of Architects

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PROPOSED NEW DEVELOPMENT FOR: OCEAN DRIVE RETAIL BUILDING. 3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA

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ROOF PLAN

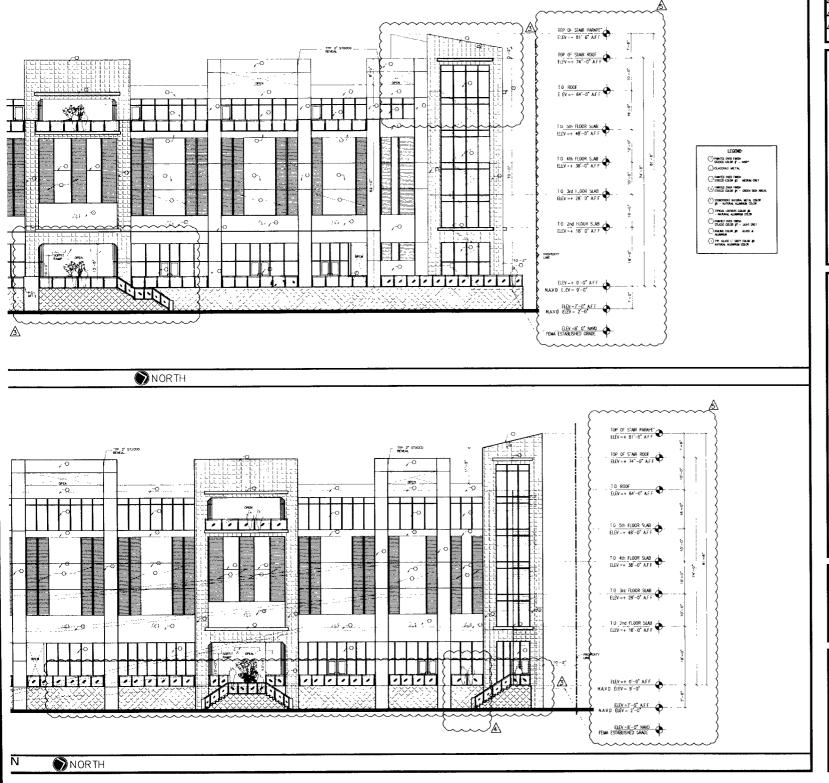
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ď 1457 N.E. 4th AVE. Ft. Lauderdale, Florida, 33304 (954) 462–6565 GUSTAVO J. CARBONELL, Architect and Planner



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(954) 462–6565
Member American institute of Architect

PROPOSED NEW DEVELOPMENT FOR: OCEAN DRIVE RETAIL BUILDING. 3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA

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PROPOSED NEW DEVELOPMENT FOR: OCEAN DRIVE RETAIL BUILDING.

3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA

AH NO 0007957 AA NU 2500131

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12-03-2012 AS NOTED 12-094

A-8



DIRECT LINE: (305) 377-6229 E-MAIL: gpenn@brzoninglaw.com www.brzoninglaw.com

VIA ELECTRONIC MAIL AND HAND DELIVERY

November 16, 2018

Leslie A. Del Monte Planning Manager City of Hollywood 2600 Hollywood Boulevard, Room 325 Hollywood, FL 33021

Re: Supplementary Letter on Design Criteria for Final TAC -- 3100 South Ocean Drive, Hollywood, Florida (Application No. 18-DJPV-60).

Dear Ms. Del Monte:

Our firm represents Transamerican Development Corporation (the "Applicant"), the contract purchaser of the property located at 3100 South Ocean Drive, (the "Property") within the City of Hollywood Florida (the "City"). Please consider this letter the Applicant's supplementary letter regarding the compliance of the above project with the design criteria adopted in Section 5.3(I)(4) of the City's Zoning and Land Development Regulations.

<u>Design Criteria.</u> The City's regulations establish four (4) design criteria that are applicable to all development projects. The criteria are listed below, followed by the Applicant's response as to the proposed development's consistency with each criterion.

(1) <u>Architectural and Design components.</u> Architecture refers to the architectural elements of exterior building surfaces. Architectural details should be commensurate with the building mass. The use of traditional materials for new architectural details is recommended. Design of the building(s) shall consider aesthetics and functionality, including the relationship of the pedestrian with the built environment.

The plans propose a mix of surface elements, including glass, natural stone,

aluminum, and stucco that together create varied façades that reduce the apparent bulk of the building and avoid the appearance of a "blank wall" on any of the facades. The building has been designed to present a welcoming appearance for pedestrians, with direct pedestrian access to the building from a wide sidewalk.

(2) <u>Compatibility</u>. The relationship between existing architectural styles and proposed construction, including how each building along the street relates to the whole and the pattern created with adjacent structures and the surrounding neighborhood. Buildings should contain architectural details that are characteristic of the surrounding neighborhood.

The surrounding area is developed with large residential buildings, parking garages, and the Diplomat Resort complex. The neighboring developments are largely automobile based, with residential buildings on the east side of the street pushed off of Ocean Drive, with surface parking areas lining the street. The proposed development is approximately the height of the surrounding parking pedestals of the residential buildings. The proposed building will have a more direct relationship with the street, offering direct pedestrian access to the building from the sidewalk.

(3) <u>Scale/Massing.</u> Buildings shall be proportionate in scale, with a height which is consistent with the surrounding structures. Building mass shall reflect a simple composition of basic architectural details in relation to its length, width, height lot coverage, and setting of the structure in context with adjacent buildings. Architectural details include, but are not limited to, banding, molding, and fenestration.

Most of the surrounding development is considerably larger and taller than the proposed project. The proposed building has been designed to integrate with these larger buildings. Architectural details have been incorporated on all facades to ensure that no adjacent properties face a "blank wall."

(4) <u>Landscaping</u>. Landscaped areas should contain a variety of native and other compatible plant types and forms, and be carefully integrated with existing buildings and paved areas. Existing mature trees and other significant plants on the site should be preserved

The landscape palette for the development has been designed to include as many native and salt tolerant species as possible, keeping in mind the location of the site. The vast majority of the existing trees on the Property are prohibited species and therefore are proposed to be removed.

Leslie A. Del Monte, Planning Manger November 16, 2018 Page **3** of **3**

<u>Conclusion.</u> We look forward to your review and recommendation. If you have any questions or concerns regarding this letter, please do not hesitate to phone my direct line at (305) 377-6229 or send me an email at gpenn@brzoninglaw.com.

Sincerely,

Graham Penn

cc: Emily K. Balter



PRELIMINARY TECHNICAL ADVISORY COMMITTEE REPORT

October 8, 2018 Responses on November 16, 2018

Hollywood 3100 LLC 2875 NE 191 Street, Suite 801 Aventura, FL 33180

FILE NUMBER: 18-DJPV-60

SUBJECT: Site Plan Review for an approximate 62,000 sq. ft. grocery store (Publix on the Beach).

SITE DATA

Owner/Applicant: Hollywood 3100 LLC Address/Location: 3100 S Ocean Drive

Net Area of Property: TBD

Land Use: Commercial Flex (COMFLEX)
Zoning: Planned Development (PD)

Existing Use of Land: Vacant

ADJACENT LAND USE

North: Medium High Residential (MHRES)
South: Medium High Residential (MHRES)

East: High Residential (HRES) West: Intercostal Waterway

ADJACENT ZONING

North: High Multiple Family District (RM-25)
South: High Multiple Family District (RM-25)

East: Planned Development (PD)
West: Intercostal Waterway

APPLICANTS MUST ADDRESS ALL COMMENTS AND FINDINGS AS IDENTIFIED BY MEMBERS OF THE TECHNICAL ADVISORY COMMITTEE BOTH IN WRITING (IDENTIFY PAGE NUMBER OF THE CORRECTION) AND ON THE SITE PLAN (ALL CHANGES MUST BE IDENTIFIED, I.E. BUBBLED).

A. APPLICATION SUBMITTAL

Deandrea Moise, Planning Administrator (dmoise@hollywoodfl.org) 954-921-3471

1. Ensure that all checklist items are submitted with the next submittal with appropriate information.

Response – All checklist items are included in this submittal.

2. Provide clarification into sale of property as Application states that no sale is intended.

Response – Property is under contract with a scheduled closing date of Jan. 2019

- 3. Ownership and Encumbrance report (O & E) shall be submitted with the following information:
 - a. Be dated within 30 days of submittal package.
 - b. Indicate it was searched from time of platting or 1953 (earliest of the two).
 - c. Include legal description of property
 - d. Names of all current owners
 - e. Names of all outstanding mortgage holders or a no lien affidavit
 - f. Listing and hard copy of all recorded and unrecorded encumbrances (with O.R. or plat book(s) and page number(s) provided) lying within/on the property boundaries (i.e. easements, rights-of-way, non-vehicular access lines, etc.)
 - g. Listing and hard copy of any type of encumbrance abutting the property boundary necessary for legal access to the property (if none, state so)

Response – Updated Survey with O&E with all required information is attached.

- 4. ALTA Survey shall:
 - a. Based on and dated after O & E with a note stating such. Be sure to update note should there be any changes to the O & E.
 - b. Illustrate easements and/or dedications with O.R. or plat book(s) and page number(s)
 - c. List net property size in square feet and acreage

Response – Survey has been revised to include the O&E, all easements and the property size.

5. Provide documentation that application was signed by authorized individuals.

Response – Applications have been signed by the authorized individuals.

6. Provide tabular data on Site Plan listing relevant regulations to the project with next submittal.

Response - Tabular Data has been added to Civil Sheet SP-1.

7. Next submittal shall include Master Development Plan Drawing establishing thresholds for the Master Development.

Response – Master Development Plan is now included, See Civil Sheet MP-1.

8. Staff encourages Applicant to meet with surrounding homeowner's associations prior to submitting for any Boards. Provide update with next submittal.

Response – The Applicant's counsel has reached out to all neighboring homeowner's associations, and will continue to schedule meetings to discuss the proposal with all interested groups.

9. Additional comments will be forthcoming.

Response - Noted

10. Provide written responses to all comments with next submittal.

Response - Written responses are included here.

B. ZONING

Deandrea Moise, Planning Administrator (dmoise@hollywoodfl.org) 954-921-3471

 Next submittal shall include Master Development Plan Drawing establishing thresholds for the Master Development.

Response – Master Development Plan is now included, See Civil Sheet MP-1.

2. Parking stalls shall have concrete car stops (6 feet long) or curbing. Revise accordingly.

Response – As discussed in the Pre-TAC meeting, Publix will not allow wheel stops due to previous litigations on numerous sites. Protective bollards have been installed in lieu of wheel stops.

3. How is transformer and generator screened from right of way?

Response – The transformer and generator are screened from the right-of-way, with an opaque screen (fence) with an exterior cladding of long Board "wood look" panels (Light cherry color) to match the material used on the building. The opaque screen (fence) will extent to the height of the transformer and generators therefore they will be screened from view from the right-of-way and adjacent properties.

4. Loading zone shall be fully dimensioned.

Response - Loading Zone dimensions have been added to Civil Sheets SP-1 and MP-1.

5. All building levels shall be fully dimensioned.

Response – Exterior dimensions have been added to all building plans.

6. Revise Site Plan to clearly indicate building lines (above ground) and setbacks.

Response – Setback dimensions have been added to Civil Sheets SP-1 and MP-1.

7. Indicate location, setback, and screening method for all mechanical equipment.

Response – A roof plan has been provided depicting the location and setbacks for all mechanical equipment.

8. Work with Public Works to ensure adequate trash pick-up.

Response - Publix has their own trach compactor and will not require City trash pick-up.

9. Additional comments may be forthcoming.

Response - Noted.

C. ARCHITECTURE AND URBAN DESIGN

Deandrea Moise, Planning Administrator (dmoise@hollywoodfl.org) 954-921-3471

1. Substantially compliant.

Response - Noted.

Steve Bido, Junior Architect (sbido@hollywoodfl.org) 954-921-3900

1. No comments received.

D. SIGNAGE

Deandrea Moise, Planning Administrator (dmoise@hollywoodfl.org) 954-921-3471

1. For review, full signage package shall be provided, including signage details, signs illustrated on Elevations, dimensions on Site Plan, etc.

Response – The signage package is provided.

2. All signs, which are electrically illuminated by neon or other means, shall require a separate electrical permit and inspection. Separate permits are required for each sign.

Response – Acknowledged. This information will be provided and permitted by Publix's vender Atlas signs.

3. Additional comments will be forthcoming.

Response - Noted.

E. LIGHTING

Deandrea Moise, Planning Administrator (dmoise@hollywoodfl.org) 954-921-3471

1. Provide note on Site Plan stating the maximum foot-candle level at all property lines shall not exceed 0.5 at all property lines (regardless proximity to residential).

Response – Lighting Note has been added to Civil Sheet SP-1.

F. GREEN BUILDING & ENVIRONMENTAL SUSTAINABILITY

Deandrea Moise, Planning Administrator (dmoise@hollywoodfl.org) 954-921-3471

 New construction of, and major renovation to, a stand-alone building (other than single family detached dwelling or duplex) with more than 20,000 sq. ft. of total floor area shall be certified under the latest applicable version of the LEED Green Building Rating System of the USGBC, certified by the FGBC, or other recognizable certification program approved by the City Manager or his/her designee and shall comply with the Florida Building Code.

Response – Acknowledged, Publix will work with the City staff to demonstrate those "greenfeatures" incorporated within the building.

2. New commercial or residential structure are required to construct the infrastructure necessary for future installation of an electric vehicle-charging station. Minimally, the following shall be installed: an empty three-quarter-inch raceway from the branch circuit panel board to a location in the garage or a designated parking area, with a two-gang junction box with a blank plate; or a fully functional electric vehicle-charging station. Indicate location on plans.

Response – Vehicle chargers are provided on A2.2.

G. ENGINEERING

Luis Lopez, City Engineer (<u>Ilopez@hollywoodfl.org</u>) 954-921-3251 Clarissa Ip, Engineering Support Services Manager (<u>cip@hollywoodfl.org</u>) 954-921-3915 Rick Mitinger, Transportation Engineer (<u>rmitinger@hollywoodfl.org</u>) 954-921-3990

No comments received. Comments received separately and included below.

1. Indicate on plans to provide for the 3' rights-of-way dedication as per Broward Trafficways Plan, from 100' to 106' rights-of-way along A1A.

Response – A 3' R/W dedication has been proposed. See Civil Sheets SP-1 and MP-1.

2. On Sheets A2.1 and A2.2, fully dimension all parking, drive aisles and ADA accessible routes.

Response – Dimensions have been added to Sheets A2.1 and A2.2.

3. Provide on Site Data Table with project information and description.

Response – Site Data Table has been added to SP-1.

4. Traffic study review comments is forthcoming.

Response -Noted. Traffic comments have not been received at the time of this resubmittal.

5. Extend sidewalk through driveway openings.

Response –The sidewalk does continue across the driveways. We are proposing to slope the sidewalks in a north /south direction so the entire driveway is less than 2.0%. We are still showing the 4' wide sidewalk across the driveway as well.

6. Provide bus shelter and amenities in lieu of bus bench. An easement will be required.

Response –Bus Shelter and Easement have been provided. See Civil Sheets SP-1, MP-1 and C-1.

7. Provide civil engineering plan details.

Response -Civil details have been provided.

8. Provide FDOT Pre-Application Letter.

Response –FDOT pre-application letter is attached.

9. All outside agency permits must be obtained prior to issuance of City building permit. Review and approval from FDOT is required.

Response –Noted. All outside agency permits will be secured prior to the issuance of the City Building Permit.

10. More comments may follow upon review of the requested information.

Response -Noted.

H. LANDSCAPING

Guillermo Salazar, Landscape Reviewer (<u>asalazar@hollywoodfl.org</u>) 954-921-3900

1. Provide information updated property survey with all existing trees/palms on site not older than 6 months survey to provide a separate table including: location, species, estimated ht./spread, and diameter of trunks.

Response – Survey has been updated to include this information. See revised Survey.

2. Provide a detailed tree disposition plan and landscape plan by a registered professional licensed Landscape Architect in the State of Florida that compliments the building architecture and uses, provides for shade, beautifies the site, accentuates site features, and serves as a buffer where appropriate. Provide tabular data chart on plan that identifies City of Hollywood landscape requirements and how they are being met for Perimeter landscape, Species diversity requirements, Interior landscape for at grade parking lots and vehicular use areas, open space, view triangle, planning and development board and historic preservation board and irrigation. Landscape plan should comply with all the requirements according to City of Hollywood Landscape manual, chapter 155.52, Article 9 LDR and section 6 landscape Plan details and specifications for technical review process. Landscape plan set to include and clarify what is been provided as per city code requirements for landscape for project type and what is provided for tree mitigation if any. As per submitted clarity is required in terms of amount of trees proposed to be removed.

Response – A tree disposition plan and landscape plan has been provided, sheets TD-1, L-1 & L-2. The landscape plan addresses requirements inclusive of perimeter landscape, species diversity, interior landscape, open space, and view triangle. Tree mitigation is shown on the provided.

3. Provide irrigation plans for an automatic underground irrigation system for the project. Irrigation plans shall be prepared, signed and sealed by a registered professional licensed to do such design under State of Florida Statute 481.303(6)(c) or as otherwise prescribed under Florida Statutes.

Response – Irrigation plans will be provided at time of permit.

4. No tree removals without a tree removal sub- permit. Supplemental arborist report might be required as needed to approve any tree removal permit. Applicant to submit a complete Broward County Uniform Building Application and separate application for tree removal and planting sub-permit. Submit approved and signed total final landscape installation estimate from Landscape contractor/installer for two separate sub-permits in separate to comply with existing pending city code tree planting and removal requirements.

Response - No trees will be removed until a tree permit is issued.

Additional comments may be forthcoming at Building permit submittal.

Response - Noted.

According to Chapter 155.52 of the Code of Ordinances and the City of Hollywood Landscape Manual. Shade trees to be installed at a minimum size of 2" DBH/ 12' height. Existing trees meeting this criteria may be used as credit toward total requirement. Palm trees count toward tree requirements on a 3:1 basis, meaning 3 palms equal 1 broadleaf tree. The following palm species are the exception and count 1:1 as trees: Royal Palm, Phoenix sylvestris/Medjool/reclinata/canariensis, Bismarkia, and Coconut. Minimum height requirements for all palms at planting is 8' of GW or CT.

Response – Proposed palm species, inclusive of Royal Palms and Coconut Palms, are being counted as 1:1 towards tree count requirements. They are being specified at a minimum of 8' GW to qualify for the 1:1 palm to tree count.

Courtesy comment: Coordinate meeting with Guillermo Salazar Landscape plan reviewer for any further questions or clarifications at ssalazar@hollywoodfl.org

Response – Witkin Hults Design Group will coordinate a meeting with Guillermo Salazar if further questions or clarifications are required.

I. UTILITIES

Wilford Zephyr, Engineer (<u>wzephyr@hollywoodfl.org</u>) 954-924-2985 Alicia Verea-Feria, Engineer (<u>averea-feria@hollywoodfl.org</u>) 954-921-3302

1. Provide water and sewer demand calculations on water and sewer plans.

Response - Water and Sewer demands have been added to Civil Sheet WS-1.

2. Provide typical cross sections across all property lines to ensure stormwater runoff is retained onsite.

Response – Cross Section have been added to Civil Sheet C-4.

3. There is an existing 42-inch stormwater outfall pipe within this property per the survey and City's atlas. Plans do not address what will happen to that pipe. Indicate if there's an existing easement over that pipe. If the intent is for the pipe to remain underneath the building, provide agreement/correspondence from FDOT indicating so.

Response – While the City of Hollywood's GIS map shows a 42" outfall pipe on this property, the as-builts provided to us by the FDOT, copy attached, show the outfall pipe to be located approximately 75' north of this property. We sent a diver in the water and swam the entire seawall of this property as well as the property to the north and were unable to locate the 42" outfall pipe. We plan on performing GPR and exploratory digging to try and determine if the 42" pipe is actually there or not. If it is found to be active, we will work with the FDOT on protection and/or relocation.

4. Indicate how roof drainage will be collected and retained onsite.

Response – Roof drainage is being split in half into 2 separate 10" Rain Water Leaders (RWL's) that are being discharged into two (2) separate drainage wells. See Civil Sheet C-2

5. Provide pre vs post development drainage calculations.

Response – Drainage Calculations are now provided.

6. Finished floor elevations (FFE) and equipment shall be at a minimum elevation of 9-feet NAVD88 minimum per FEMA FIRM Zone AE, with BFE at 7 and 8-feet NAVD88.

Response - Finish Floor Elevations are indicated on Building and Wall Sections and Building Elevations.

7. Landscape architect should coordinate with civil plans to accommodate for drainage swales and retention areas accordingly.

Response – Civil and Landscape plans have been coordinated.

J. BUILDING

Dean Decker, Interim Chief Building Official (ddecker@hollywoodfl.org) 954-921-3025

1. Application Substantially compliant

K. <u>FIRE</u>

This review is limited to fire dept. access and water supply. A full review will be completed at time of building permit application using the 6th edition FFPC and Broward Amendments although other items are noted at this time to assist planning.

1. Water supply must meet NFPA 1, 18.4.5.3. In order to determine the minimum fire flow for firefighting purposes, a hydrant flow test will need to be scheduled through our underground utilities dept., 954-921-3046. After the results are completed, the civil engineer shall show on civil drawings the calculations using table 18.4.5.1.2. showing that the project meets the minimum fire flow requirements for the building.

Response – See attached Base of Riser Calculations provided by the Fire Protection Engineer.

2. As a result of that test, show any existing and new fire hydrants on civil drawings. A copy of the completed hydrant flow test and engineer's calculations are required at the next submittal.

Response – See attached Fire Flow test results performed by the City of Hollywood Fire Department.

3. Provide a note on civil drawings that underground fire main work will be completed by a contractor holding a Class I, II, or V license per FS 633.102.

Response – Note has been added on Civil Sheet WS-1.

4. A bi-directional amplifier is required per NFPA 1, 11.10 and plans shall be submitted in the architectural set. See also Broward Building code 118 for requirements.

Response – Note is provided on A2.1, A2.2, A2.3.

5. Per NFPA 1, 12.3.2* a quality assurance program for the installation of devices and systems installed to protect penetration and joints shall be prepared and monitored by the registered design professional responsible for design. Inspections of fire stop systems and fire-resistive joint systems shall be in accordance with 12.3.2.1 and 12.3.2.1. Architectural plans will be required to show this information moving forward for buildings three stories or greater in height. Provide a note on the plan regarding NFPA 1, 12.3.2*.

Response – Acknowledged.

6. A knox box will be required for after hours in the event Fire needs to access the building.

Response – Acknowledged, Fire Dept. access is located at the front of the building within 50' of the right of way. See A2.1.

7. Fire Dept. access must be made within 50' to the main entrance per NFPA 1, 18.2.3.2. Is the intent for crews to stage on South Ocean Drive without entering the lot? Our turning radius is 28'.5" interior radius, 38' centerline of the turning radius, 45' exterior.

Response – The fire truck is intended to stage on South Ocean Drive and will be approximately 23' from the edge of the building and about 35' to the doors. The fire truck can also drive under the structure to park in front of the elevators if it is a medical call and not a fire. The minimum vertical clearance on the ground level is 14'-2". See Fire Truck Path plan using Auto-Turn on Civil Sheet TP-2.

L. PUBLIC WORKS

Charles Lassiter, Environmental Services Supervisor (classiter@hollywoodfl.org) 954-967-4207

1. Application Substantially compliant

M. PARKS, RECREATION AND CULTURAL ARTS

David Vazquez, Assistant Director (dvazquez@hollywoodfl.org) 954-921-3404

1. Application Substantially compliant

N. COMMUNITY DEVELOPMENT

Clay Milan, Community Development Manager (cmilan@hollywoodfl.org) 954-921-3271

1. Sheet A4.1/A4.2 – upper portion of north/south/west elevations need additional architectural treatment.

Response – Acknowledged, we have further articulated the elevations on A4.1 and A4.2.

2. Include bike racks.

Response – Acknowledged, bike racks have been added. See Civil Sheets SP-1, MP-1 and C-1. Also, see Architectural Sheets A2.1.

3. Consider including electrical vehicle charging stations(s).

Response – Acknowledged, electrical vehicle charging stations are provided on A2.2.

 Reach out to Alliance of Hollywood Beach Communities. Alan Stieb, President. Email: astieb@bellsouth.net

Response - Completed.

5. Reach out to Hollywood Beach Business Asso., Dan Serafini, President. Email: info@hbbafla.com

Response – Completed.

O. ECONOMIC DEVELOPMENT

Raelin Storey, Director (rstorey@hollywoodfl.org) 954-924-2922

1. Application Substantially compliant

P. POLICE DEPARTMENT

Christine Adamcik, Police (<u>cadamcik@hollywoodfl.org</u>) 954-967-4371 Steven Bolger, Police (<u>sbolger@hollywoodfl.org</u>) 954-967-4500 Doreen Avitabile, Police (<u>davitable@hollywoodfl.org</u>) 954-967-4371

1. Application substantially compliant. Contact Police for CPTED recommendations.

Q. DOWNTOWN AND BEACH CRA

Jorge Camejo, Executive Director (jcamejo@hollywoodfl.org) 954-924-2980 Susan Goldberg, Deputy Director (sgoldberg@hollywoodfl.org) 954-924-2980

1. Not applicable.

R. PARKING

Harold King, Parking Administrator (hking@hollywoodfl.org) 954-921-3549
Tamikia Bacon, Parking Operations Manager (tbacon@hollywoodfl.org) 954-921-3548

1. No parking information provided. Response - Additional information regarding parking is provided.

S. ADDITIONAL COMMENTS

Deandrea Moise, Planning Administrator (dmoise@hollywoodfl.org) 954-921-3471

1. Additional comments may be forthcoming. Response - Noted.

The Technical Advisory Committee finds this application substantially compliant with the requirements of Preliminary Review; therefore, the Applicant should submit for Final TAC review.

Please be advised, in the future any additional review by the TAC may result in the payment of additional review fees.

If these comments have not been addressed within 120 days of this dated report the application will expire. As a result, a new application and fee will be required for additional review by the TAC.

Note that any use proposed for the site shall be consistent with Zoning and Land Development Regulations.

Should you have any questions, please do not hesitate to contact your Project Planner at 954-921-3471.

Sincerely,

Alexandra Carcamo Principal Planner

C: Hollywood 3100 LLC via email gpenn@brzoinglaw.com; ebalter@brzoninglaw.com

Detail by Entity Name Page 1 of 2

Florida Department of State

DIVISION OF CORPORATIONS



Department of State / Division of Corporations / Search Records / Detail By Document Number /

Detail by Entity Name

Florida Limited Liability Company

ADMOR LLC

Filing Information

Document Number L12000053948

FEI/EIN Number 99-0375833

Date Filed 04/20/2012

State FL

Status ACTIVE

Last Event LC AMENDMENT

Event Date Filed 08/19/2015

Event Effective Date NONE

Principal Address

10275 collins av

#429

bal harbour, FL 33154

Changed: 04/25/2018

Mailing Address

10275 collins av

#429

bal harbour, FL 33154

Changed: 04/25/2018

Registered Agent Name & Address

TARRAB, CARLOS GABRIEL

Detail by Entity Name Page 2 of 2

10275 collins av

#429

bal harbour, FL 33154

Name Changed: 03/04/2016

Address Changed: 04/25/2018

Authorized Person(s) Detail

Name & Address

Title MGR

TARRAB, CARLOS GABRIEL 10275 collins av #429 bal harbour, FL 33154

Annual Reports

Report Year	Filed Date
2016	03/04/2016
2017	01/04/2017
2018	04/25/2018

Document Images

04/25/2018 ANNUAL REPORT	View image in PDF format
01/04/2017 ANNUAL REPORT	View image in PDF format
03/04/2016 ANNUAL REPORT	View image in PDF format
08/19/2015 LC Amendment	View image in PDF format
03/18/2015 ANNUAL REPORT	View image in PDF format
03/18/2015 ANNUAL REPORT 04/04/2014 ANNUAL REPORT	View image in PDF format View image in PDF format
	<u> </u>

Florida Department of State, Division of Corporations

Detail by Entity Name Page 1 of 2

Florida Department of State

DIVISION OF CORPORATIONS



Department of State / Division of Corporations / Search Records / Detail By Document Number /

Detail by Entity Name

Florida Limited Liability Company HOLLYWOOD 3100 LLC

Filing Information

 Document Number
 L12000053953

 FEI/EIN Number
 99-0377046

Date Filed 04/20/2012

State FL

Status ACTIVE

Last Event LC AMENDMENT

Event Date Filed 08/19/2015

Event Effective Date NONE

Principal Address

10275 COLLINS AV

APTO 429

BAL HARBOUR, FL 33154

Changed: 04/23/2018

Mailing Address

10275 COLLINS AV

APTO 429

BAL HARBOUR, FL 33154

Changed: 04/23/2018

Registered Agent Name & Address

ADMOR, LLC

Detail by Entity Name Page 2 of 2

10275 COLLINS AV **APTO 429** BAL HARBOUR, FL 33154

Name Changed: 04/23/2018

Address Changed: 04/23/2018

Authorized Person(s) Detail

Name & Address

Title MGR

ADMOR LLC 10275 COLLINS AV **APTO 429** BAL HARBOUR, FL 33154

Annual Reports

Report Year	Filed Date
2016	03/04/2016
2017	01/04/2017
2018	04/23/2018

Document Images

04/23/2018 ANNUAL REPORT	View image in PDF format
01/04/2017 ANNUAL REPORT	View image in PDF format
03/04/2016 ANNUAL REPORT	View image in PDF format
08/19/2015 LC Amendment	View image in PDF format
03/18/2015 ANNUAL REPORT	View image in PDF format
04/02/2014 ANNUAL REPORT	View image in PDF format
04/12/2013 ANNUAL REPORT	View image in PDF format
04/20/2012 Florida Limited Liability	View image in PDF format

Florida Department of State, Division of Corporations



Florida Department of Transportation

RICK SCOTT **GOVERNOR**

3400 West Commercial Boulevard Fort Lauderdale, FL 33309

MIKE DEW SECRETARY

May 24, 2018

THIS PRE-APPLICATION LETTER IS VALID UNTIL - May 24, 2019 THIS LETTER IS NOT A PERMIT APPROVAL

Nelson H. Ortiz Consulting Engineering & Science, a Graef 9400 South Dadeland Blvd., Suite 601 Miami, Florida 33156

Dear Nelson H. Ortiz:

May 24, 2018 - Pre-application Meeting for Category D Driveway
Broward County - City of Hollywood, Urban; SR A1A; Sec. # 86030; MP: 1.3
Access Class - 05; Posted Speed - 35 mph; SIS - N; Ref. Project: FM 439900.1

Request:

Driveway 1: Right-out driveway on SR A1A/S Ocean Drive, located approximately 500 feet north of Diplomat Landing Traffic Signal.

Driveway 2: Right-in driveway on on SR A1A/S Ocean Drive, located approximately 115 feet north of Driveway 1.

SITE SPECIFIC INFORMATION
Project Name & Address: Publix at Hollywood - 3100 South Ocean Drive Hollywood, Florida

Applicant/Property Owner: Brandon Structures, Inc. C/O Publix Supermarkets
Parcel Size: 1.14 Acres Development Size: 32,000 SF Supermarket

WE APPROVE YOUR REQUEST

This decision is based on your presentation of the facts, site plan and survey - please see the **conditions** and **comments** below. You may choose to review this concept further with the District Access Management Review Committee (AMRC).

Conditions:

- A minimum driveway length of 25 feet, as measured from the ultimate right-of-way line to the first conflict point shall be provided. If a gate is installed a minimum driveway length of 100 feet is required.
- Both driveways shall have radius return and shall be channelized.
- All other existing driveways along the frontage of the site shall be closed and curb restored.

Comments:

- Coordination with Broward County Transit is required.
- Drainage mitigation is required for any impacts within FDOT right-of-way (i.e. increased runoff or reduction of existing storage). A Storm Water Pollution Prevention Plan must be submitted with the application for more than one acre of "disturbed area" as defined by the Florida Department of Environmental Protection (FDEP).
- The applicant shall donate the right-of-way to the Department if right-of-way dedication is required to implement the improvements,
- All driveways not approved in this letter must be fully removed and the area restored.
 Dimensions between driveways are measured from the near edge of pavement to near edge of pavement and for median openings are measured from centerline to centerline unless otherwise indicated.

The purpose of this Pre-Application letter is to document the conceptual review of the approximate location of driveway(s) to the State Highway system and to note required improvements, if any. This letter shall be submitted with any further reviews and for permitting. The Department's personnel shall review permit plans for compliance with this letter as well as current Department standards and/or specifications. Final design must consider the existing roadway profile and any impacts to the existing drainage system. **Note, this letter does not guarantee permit approval.** The permit may be denied based on the review of the submitted engineering plans. Be aware that any approved median openings may be modified (or closed) in the future, at the sole discretion of the Department. For right-of-way dedication requirements go to: https://gis.dot.state.fl.us/OneStopPermitting; click on Statewide Permit News; Scroll down to District 4; Scroll down to Additional Information and Examples and choose Right-of-way Donations/Dedications.

Please contact Geysa Sosa, P.E. at the District Permits Office with any questions regarding permits – Tel. # 954-777-4377, or e-mail:

geysa.sosa@dot.state.fl.us.

«Permit Coordinator»

Assistant District Traffic Operations Engineer File: S:\Transportation Operations\Traffic Operations\Access Management\1. Pre-Apps and Variance\2018-05-24\3. 86030 MP 1.300 SR A1A_Publix at Hollywood\86030

Sincerely

Jonathan M. Overton, P.E.

MP 1.300 SR A1A_Publix at Hollywood.docx

www.dot.state.fl.us

Page 1 of 1

Publix

3100 South Ocean Drive (State Road A1A) Hollywood, Florida

TRAFFIC STUDY

prepared for: **Brandon Structures**, **Inc.**

KBP CONSULTING, INC.

May 2018

Publix

3100 South Ocean Drive (State Road A1A)

Hollywood, Florida

Traffic Study

May 2018

Prepared for: Brandon Structures, Inc.

Prepared by:
KBP Consulting, Inc.
8400 N. University Drive, Suite 309
Tamarac, Florida 33321
Phone: (954) 560-7103



Karl B. Peterson, P.E. Florida Registration Number 49897 KBP Consulting, Inc. 8400 N. University Drive, Suite 309 Tamarac, Florida 33321 CA # 29939

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INTRODUCTION

A Publix supermarket is proposed on the property located at 3100 South Ocean Drive (State Road A1A) in Hollywood, Broward County, Florida. The subject site is located on the west side South Ocean Drive approximately 2,600 feet to the north of East Hallandale Beach Boulevard (State Road 858). The location of this project site is illustrated graphically in Figure 1 on the following page.

KBP Consulting, Inc. has been retained by Brandon Structures, Inc. to prepare a traffic study in connection with this proposed development. This study addresses the trip generation characteristics associated with the proposed supermarket development and the projected peak period turning movement volumes at the project access driveways on South Ocean Drive.

This traffic study is divided into four (4) sections, as listed below:

- 1. Inventory
- 2. Trip Generation
- 3. Trip Distribution and Traffic Assignment
- 4. Summary & Conclusions



INVENTORY

Existing Land Use and Access

The subject site is approximately 1.15 acres, the Folio ID Number is 5142 24 01 0620, and the site is currently vacant. There is a surface parking lot and there are two (2) driveways along South Ocean Drive – one (1) right-turn in only and one (1) right-turn out only. A survey of the site is presented in Appendix A of this report.

Proposed Land Use and Access

A three-story Publix supermarket is proposed to be constructed on the subject site. The gross floor area will be approximately 30,445 square feet. The site will be served by two (2) right-turn in / right-turn out only driveways on South Ocean Drive. Appendix B contains the preliminary site plan for the project.

Roadway System

Within the limits of the project study area, South Ocean Drive (State Road A1A) is a six-lane divided state-maintained principal arterial roadway generally oriented in the north-south direction. The posted speed limit is 35 miles per hour (mph) and the FDOT Access Classification is 5 – Restrictive.

TRIP GENERATION

A trip generation analysis has been conducted for the proposed Publix supermarket. The analysis was performed using the trip generation rates and equations published in the Institute of Transportation Engineer's (ITE) *Trip Generation Manual (10th Edition)*. The trip generation analysis was undertaken for daily, AM peak hour, and PM peak hour conditions. According to the ITE report, the most appropriate "land use" category and corresponding trip generation rates / equations for the proposed development are as follows:

ITE Land Use #850 – Supermarket

□ Weekday: T = 70.89 (X) + 1212.64where T = number of trips and X = 1,000 square feet of gross floor area

 \Box AM Peak Hour: T = 3.82 (X) (60% in / 40% out)

 \square PM Peak Hour: Ln(T) = 0.75 Ln(X) + 3.21 (51% in / 49% out)

Utilizing the trip generation rates and equations from the referenced ITE document, a trip generation analysis was undertaken for the proposed Publix supermarket to be located on South Ocean Drive in Hollywood, Florida. The results of this effort are documented in Table 1 below.

Table 1 Trip Generation Summary Publix - Hollywood, Florida								
Land Use	Size	Daily Trips	AM P In	eak Hour Out	Trips Total	PM P In	eak Hour Out	Trips Total
Proposed Use Supermarket	30,445 SF	3,371	70	46	116	164	157	321

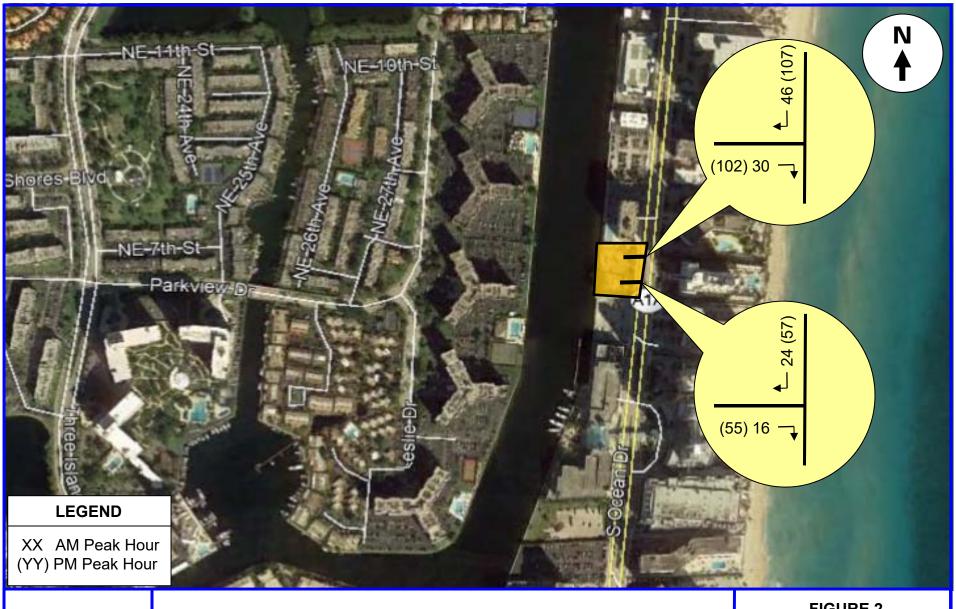
Compiled by: KBP Consulting, Inc. (May 2018).

Source: Institute of Transportation Engineers (ITE) Trip Generation Manual (10th Edition).

As indicated in Table 1, the Publix supermarket is anticipated to generate approximately 3,371 daily vehicle trips, approximately 116 AM peak hour vehicle trips (70 inbound and 46 outbound) and approximately 321 vehicle trips (164 inbound and 157 outbound) during the typical afternoon peak hour.

TRIP DISTRIBUTION AND TRAFFIC ASSIGNMENT

The trip distribution and traffic assignment for the proposed Publix supermarket project was developed based upon knowledge of the study area, examination of the surrounding roadway network characteristics, review of current traffic volumes, and existing land use patterns. The AM and PM peak hour traffic generated by the project was assigned to the project driveways and is summarized in Figure 2.



KBPCONSULTING, INC.

Driveway Assignment

FIGURE 2 Publix Hollywood, Florida

SUMMARY & CONCLUSIONS

A Publix supermarket is proposed on the property located at 3100 South Ocean Drive (State Road A1A) in Hollywood, Broward County, Florida. The subject site is located on the west side South Ocean Drive approximately 2,600 feet to the north of East Hallandale Beach Boulevard (State Road 858).

A three-story Publix supermarket will be constructed on the currently vacant site. The gross floor area will be approximately 30,445 square feet. The site will be served by two (2) right-turn in / right-turn out only driveways on South Ocean Drive.

The Publix supermarket is anticipated to generate approximately 3,371 daily vehicle trips, approximately 116 AM peak hour vehicle trips (70 inbound and 46 outbound) and approximately 321 vehicle trips (164 inbound and 157 outbound) during the typical afternoon peak hour.

APPENDIX A

Publix – Hollywood

Survey

LOT 25 BLOCK 15 S84°52'00"E 209.35" 30.00 PAVEMENT PAVENENT WATERWAY PERVO4°42'13"E 240.00 BASININTRACOASTAL YACHŢ OCEANPRIVATE 355 153 LOT 27 BLOCK 15 30.00' N84°52'00"W 206.95 LOT 28 BLOCK 15 LOTS 26 AND 27, BLOCK 15 OF "BEVERLY BEACH", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 22, PAGE 13 OF THE PUBLIC RECORDS OF BROWARD COUNTY,

SKETCH OF SURVEY



LOCATION MAP (NTS)

LEGEND:

CKD CHECKED BY CONC CONCRETE DRAWN BY DWN FR/PG FIELD BOOK AND PAGE SET IRON ROD & CAP SIR SNC SET NAIL AND CAP #6448 FIR FOUND IRON ROD FIP FOUND IRON PIPE FNC FOUND NAIL AND CAP FOUND NAIL & DISC FND P.B. PLAT BOOK

BROWARD COUNTY RECORDS B.C.R. 3.84 ELEVATIONS

FLOOD ZONE INFORMATION COMMUNITY NUMBER 125113 PANEL NUMBER 0317 G ZONE ΑE BASE FLOOD ELEVATION 8 EFFECTIVE DATE 10/02/97

NOTES :

- NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- 2. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR RIGHTS-OF-WAY, EASEMENTS, OWNERSHIP, OR OTHER INSTRUMENTS OF RECORD.
- THIS SURVEY WAS DONE SOLELY FOR BOUNDARY PURPOSES AND DOES NOT DEPICT THE JURISDICTION OF ANY MUNICIPAL, STATE, FEDERAL OR OTHER ENTITIES.
- 4. LAND DESCRIPTION SHOWN HEREON WAS PROVIDED BY THE CLIENT.
- 5. UNDERGROUND IMPROVEMENTS NOT SHOWN.
- ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
- 7. BENCHMARK REFERENCE: BROWARD COUNTY BENCHMARK #3956 ELEVATION=9.16'
- 8. BEARINGS SHOWN HEREON ARE BASED ON THE WEST LINE OF "BEVERLY BEACH", P.B. 22, PG. 13, B.C.R. SAID LINE BEARS N04'32'14"E.

I HEREBY CERTIFY THAT THE "SKETCH OF SURVEY" OF THE HEREON DESCRIBED PROPERTY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYED IN THE FIELD UNDER MY DIRECTION IN SEPTEMBER, 2012. I FURTHER CERTIFY THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS FOR SURVEYING IN THE STATE OF FLORIDA ACCORDING TO CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027. FLORIDA STATUTES. THERE ARE NO ABOVE GROUND ENCROACHMENTS OTHER THAN THOSE SHOWN HEREON, SUBJECT TO THE QUALIFICATIONS NOTED HEREON.

FOR THE FIRM, BY: -----

SURVEY DATE : 09/04/12

RICHARD E. COUSINS PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA REGISTRATION NO. 4188

COUSINS SURVEYORS & ASSOCIATES, INC.

ORVETORS & ASSOCIATES, INC 3921 SW 47TH AVENUE, SUITE 1011 DAVIE, FLORIDA 33314 CERTIFICATE OF AUTHORIZATION : LB # 6448 PHONE (954) 689-7766 FAX (954) 689-7799

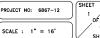
CLIENT :

CARLOS TARRAB

3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA

REVISIONS	DATE	FB/PG	DWN	CKD
BOUNDARY & TOPOGRAPHIC SURVEY	09/04/12	DATA/COLL	AV	REC

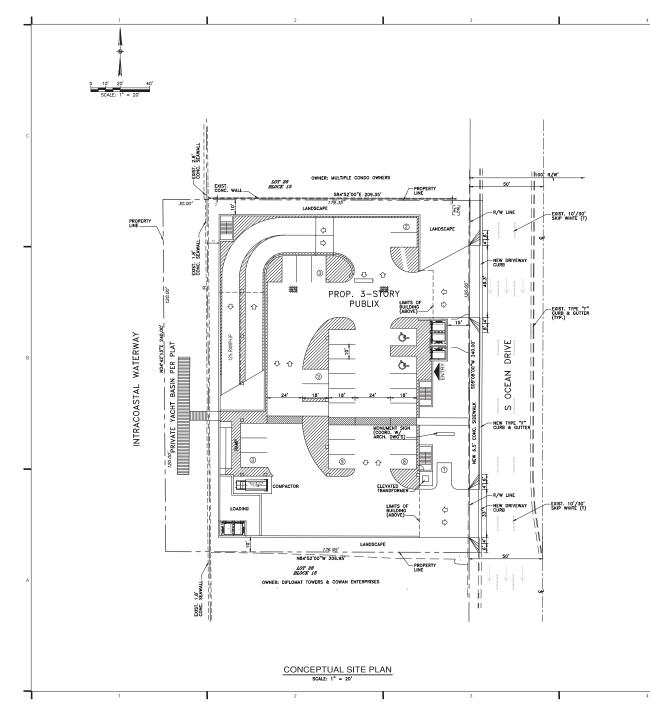
PROJECT NO: 6867-12



SKETCH OF SURVEY

APPENDIX B

Publix – HollywoodSite Plan





LEGAL DESCRIPTION

LOTS 26 AND 27, BLOCK 15 OF "BEVERLY BEACH", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 22, PAGE 13 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

GENERAL NOTES

- ELEVATIONS SHOWN HERE ON ARE REFERRED TO NATIONAL VERTICAL DATUM (N.G.Y.D. 1929) BROWARD COUNTY BENCHMARK NO. 3956; ELEVATION = 9.16'.
- 2. HORIZONTAL AND VERTICAL CONTROL SHALL BE PROVIDED BY THE CONTRACTOR'S SURVEYOR. LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. IT IS THE INTENT OF THESE DRAWINGS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 4. ENSTING UTILITIES SHOWN ARE BASED ON INFORMATION SUPPLIED BY OTHER. BIT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MEET WITH ALL APPLICABLE UTILITY COMPANIES TO VERIFY ALL UNDERGROUND PACLUTIES PRIOR TO THE START OF CONSTRUCTION. ALL TRENCH, EXCAVATION SAME DAMAGED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE ALL SUCH DAMAGE.
- S. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY BEFLETCH PROPERTIES. CONTINUONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIABRING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
- REFERENCE SHALL BE MADE TO THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATIONS, SIZE AND DETAILS OF ALL UTILITY SERVICES TO THE BUILDINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING ALL DISTURBED EXISTING MANHOLE COVERS, VALVE BOXES, BLOW-OFF RISERS, ETC. TO NEW ELEVATIONS, AS REQUIRED, WHETHER SPECIFICALLY SHOWN ON THESES DRAWINGS OR NOT.
- BOUNDARY AND TOPOGRAPHIC DATA BASED UPON SURVEY PREPARED BY COUSINS SURVEYORS & ASSOCIATES, INC., DAVIE, FLORIDA DATED SEPTEMBER 4, 2012.
- 9. THE PROPERTY SHOWN HEREON LIES WITHIN FLOOD ZONG AE, ELEVATION = 8' (NOVD 29), AS SHOWN IN FLOOD INSURANCE RATE MAP NUMBER 125113 0317 G, FLORIDA MAP REVISED DATE: OCTOBER 2, 1997.

STRIPING AND SIGNAGE NOTES

- ALL STRIPING IN RIGHT-OF-WAY AND ALL ON-SITE STOP BARS SHALL BE THERMOPLASTIC WITH A MIXTURE OF 50 PERCENT GLASS SPHERES AND 50 PERCENT SHARP SILICA SAND APPLIED AT A RATE OF 0.20 PSF IN ACCORDANCE WITH FOOT SECTION 711.
- ALL SIGNAGE SHALL BE IN ACCORDANCE WITH "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION, AND MATCH EXISTING.
- SIGN POSTS SHALL BE STEEL CHANNEL IN ACCORDANCE WITH CITY/COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SHALL BE BREAK-A-WAY.
- STOP SIGNS SHALL BE MOUNTED WITH 7' CLEAR FROM SIGN BOTTOM TO GRADE. WHERE INDICATED, ADDITIONAL SIGNAGE SHALL BE MOUNTED BELOW STOP SIGN.
- REFLECTIVE PAVEMENT MARKERS TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX AND SECTION 706 AND SECTION 970 OF THE FDOT STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. CONTRACTOR TO REPLACE ANY BROKEN OR MISSING RPM'S IN ALL WORK AREAS, WHETHER SPECIFICALLY SHOWN OR NOT.

ADA COMPLIANCE NOTES

- 1. THIS SET OF DOCUMENTS HAS BEEN DESIGNED TO COMPLY WITH 2012 & FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND PER APPLICABLE FOOT INDEXES 304, 310 & 515. ALL RELATED SECTIONS OF THE CODE ARE NOTED WITHIN THESE DOCUMENTS AND STRICT COMPLIANCE IS REQUIRED BY ALL CONSTRUCTION TRADES. CONSTRUCTION QUALITY AND COMPLIANCE OF THE FIRML PRODUCT ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- ALL ACCESSIBLE ROUTES MUST NOT EXCEED A SLOPE OF 1:20 (5.00%). CURB CUT RAMPS AND RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.33%). RAMPS THAT EXCEED B FEET IN LENGTH REQUIRE HANDRIALS. ALL GROSS SLOPES MUST NOT EXCEED A SLOPE OF 1:50 (2.00%).
- 3. PLANTERS, TREE GRATES AND OTHER ELEMENTS MUST BE FLUSH AND ADA COMPLIANT. PAYERS ON PEDESTRIAN PATH MUST BE FLUSH, FIRM, STABLE AND HAVE NO OPEN JOINTS.
- ALL DETECTABLE WARNINGS TO BE IN ACCORDANCE WITH MIAMI-DADE COUNTY ARTICLE 527 TESTED MATERIAL, TYPE & COLOR, LATEST EDITION (7/7/16).



9400 North Dadeland Boulevard Suite 601 Miami, FL 33156 305 / 378 5555 305 / 279 4553 fax

www.cesmiami.com www.graef-usa.com



NELSON H. ORTIZ PE-57556 (CIVIL) THIS SHEET HAS BEEN

USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS SHEET ARE
NOT CONSIDERED AS SEALED.

PRINTED COPIES SHALL HAVE AN

PROJECT TITLE:

PUBLIX @ HOLLYWOOD

3100 SOUTH OCEAN DRIVE HOLLYWOOD, FLORIDA ISSUE:
NO. DATE REVISIONS BY

PROJECT INFORMATION:

PROJECT NUMBER: 18017

DATE: 04-10-18

DRAWN BY: S.D.
CHECKED BY: N.H.O.
APPROVED BY: N.H.O.
SCALE: AS SHOWN

SHEET TITLE:

CONCEPTUAL SITE PLAN

SHEET NUMBER:

SP-1

Hydrant Flow Test Procedure

Procedure For One & Two Flow Hydrant Test:

- Establish hydrants closest to location and associated water main(s).
- Static/Residual hydrant (P) should be located close to location (preferably off same main as to provide future water source).
- Flow hydrant(s) (F) should be located off same main up and down stream from mid-point test (static/residual) hydrant.
- Note static system pressure off **P** hydrant before opening any other (note any unusual or remarkable anomalies such as high demand sources, construction, etc.)
- Flow **F1** hydrant and record GPM and residual off **P** hydrant.
- Flow **F2** hydrant and record GPM and residual off **P** hydrant.
- Flow F1 & F2 simultaneously and record GPM separately from F1 and F2 and

P Designation shall represent first and second flowed hydrants respectively

Designation shall represent test hydrant for static and residual distribution system pressures.

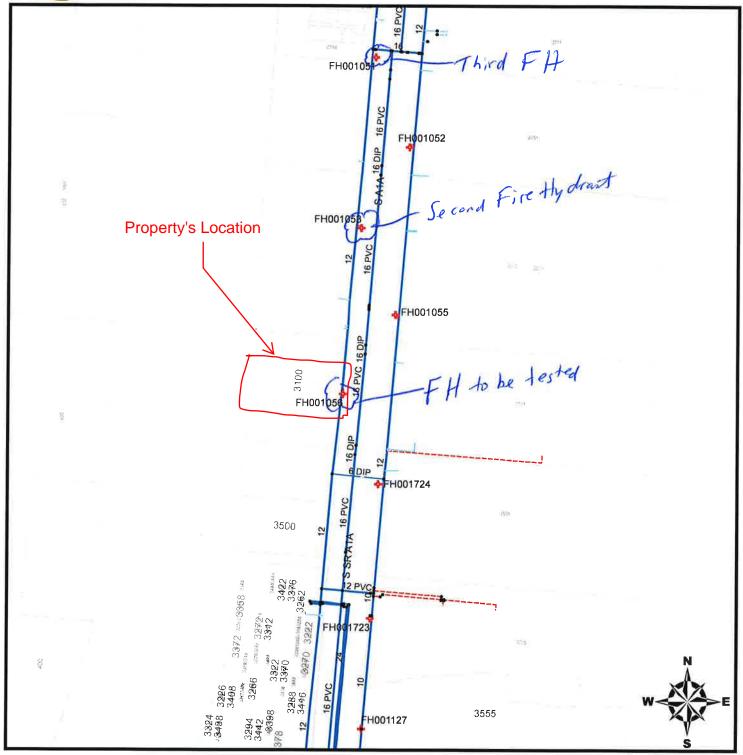
3100 S. Ocean Dr

3100 S. Ocean Dr.				
Date: Oct-25-2018	Time: 9:07 AM	Static Press	sure -	64
Residual/Static Hydrant	Address/Loca	tion	Residua	l Pressures
P - Hydrant			F-1 Only	F-2 Only
FH001053	3000 S. Oc	ean Dr.	62	62
			F-1& F-2 Both	55
Flow Hydrants	Address/Loca	tion	Flo	w Rate
F-1 Hydrant				GPM
(Individual) FH001051	2710 S. Oc	ean Dr.		1130
F-2 Hydrant				GPM
(Individual) FH001056	3100 S. Oc	ean Dr.	1	1030
F-1 Hydrant			(GPM
(Both Flowing)			1	1075
F-2 Hydrant				GPM
(Both Flowing)				1000



UTILITY ATLAS MAPLET





ACCESS TO INFORMATION CONTAINED WITHIN THIS DOCUMENT IS RESTRICTED UNDER FLORIDA STATUE 119.07 SECTION 1 PARAGRAPH (EE) SUBSECTION (3). ALL PERSONS BEING PERMITTED ACCESS TO THIS DOCUMENT SHALL RESTRICT ACCESS TO OTHERS IN ACCORDANCE WITH THE ABOVE REFERENCED STATUTE. IF ANY QUESTION AS TO THE DISSEMINATION OF THIS INFORMATION EXISTS, IT SHALL BE FORWARDED TO THE DIRECTOR OF PUBLIC UTILITIES, CITY OF HOLLYWOOD FLORIDA FOR FINAL DETERMINATION.

INFORMATION PROVIDED IN THIS DOCUMENT, REGARDING SITE CONDITIONS, EXISTING STRUCTURES, AND EXISTING UNDERGROUND UTILITIES IS OFFERED SOLELY AS SUPPLEMENTAL INFORMATION, IT IS THE OWNER'S RESPONSIBILITY TO ENSURE ALL DATA IS FIELD VERIFIED AS TO ELEVATION, SIZE, AND LOCATION



G & P Engineering LLC

PO Box 196725

Winter Springs, FL 32719 Phone: (407) 476-3031 E-mail: wayne@gp-fire.com



November 09, 2018

John J. Caramalis, P.E. Publix Super Markets, Inc. 3300 Airport Road Lakeland, Florida 33811 (863) 688-7404 ext. 52260

Re: Publix Super Markets, Inc. Hollywood 3100 South Ocean Drive

Hollywood, Florida

Subject: Base of Riser Calculation

Dear John:

The following is a summary of the water supply for the fire sprinkler systems on this project.

The flow test was taken on October 25, 2018. The results of the test are 64psi Static, 55psi Residual, Flowing 2,075gpm. The flow was based on a discharge coefficient of 0.90 from three 2 ½" fire hydrant butts. The flow hydrants are located at 2710 S. Ocean Drive and 3100 S. Ocean Drive. The static and residual hydrant is located at 3000 S. Ocean Drive. The water is supplied by Broward County Public Works. See attached for official test results. This existing water supply is adequate to support the fire sprinkler systems for the Publix on the 3rd level.

Hydraulic calculations were performed to determine the available water supply at the base of riser. 1,100gpm was used to determine the available residual pressure at base of riser. See the attached hydraulic calculations for pipe, fitting and device losses between the base of riser and the city water connection. The total friction loss through the fittings, pipe and devices between the base of riser and the city water connection is 5.173psi flowing 1,100gpm. The available water supply at the base of riser is 56.04psi flowing 1,100gpm.

Based on the information provided, the water supply is adequate to support the fire sprinkler systems in this Publix store.

If you should have any questions, please do not hesitate to contact us directly.

Sincerely,

Wayne D Paycer NICET SET #91028

Enclosures attached

Hydrant Flow Test Procedure

Procedure For One & Two Flow Hydrant Test:

- Establish hydrants closest to location and associated water main(s).
- Static/Residual hydrant (P) should be located close to location (preferably off same main as to provide future water source).
- Flow hydrant(s) (F) should be located off same main up and down stream from mid-point test (static/residual) hydrant.
- Note static system pressure off **P** hydrant before opening any other (note any unusual or remarkable anomalies such as high demand sources, construction, etc.)
- Flow **F1** hydrant and record GPM and residual off **P** hydrant.
- Flow **F2** hydrant and record GPM and residual off **P** hydrant.

Flow F1 & F2 simultaneously and record GPM senarately from F1 and F2 and Legend:

F1 & F2 Designation shall represent first and second flowed hydrants respectively

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Designation shall represent test hydrant for static and residual distribution system pressures.

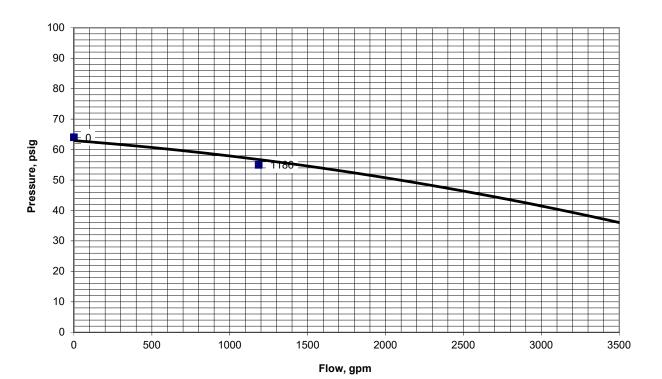
3100 S. Ocean Dr.

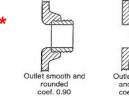
Date: Oct-25-2018	Time: 9:07 AM	Static Pres	ssure -		64
Residual/Static Hydrant	Address/Loc			dual Press	ures
P - Hydrant			F-1 Onl	y F-2	2 Only
FH001053	3000 S. O	cean Dr.	62	62	
			F-1& F-2 Both	55	
Flow Hydrants	Address/Loc	ation		Flow Rate	
F-1 Hydrant				GPM	
(Individual) FH001051	2710 S. O	cean Dr.		1130	
F-2 Hydrant				GPM	
(Individual) FH001056	3100 S. O	cean Dr.		1030	
F-1 Hydrant				GPM	
(Both Flowing)				1075	
F-2 Hydrant				GPM	
(Both Flowing)				1000	

G & P Engineering PO Box 196725, Winter Springs, FL 32719-6725

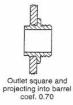
Hydrant Flow Worksheet

HYDRANT #	& LOCATION	Publix H	ollywood		_	DATE:	10/25/2018
TEST BY:	G & P Engineering	Day of Week:	Thursday	TIME OF DAY:	9:07am	MIN. OF FLOW	2
WATER SUF	PPLIED BY:	City		_			
PURPOSE (OF TEST:	Site Deve	elopment				
			DATA		_		
FLOW HY	DRANT(S) SIZE OPENING:	A1 2.5		A2	_	A3	
*	COEFFICIENT:	0.900	_		_		_
	PITOT READING:	50			_		
	GPM:	2075			_		
TOTAL FLO	W DURING TEST:	2075	GPM				
STATIC REA	ADING: 64	PSI		RESIDUAL:	55	PSI	
RESULTS:	AT 20 PSI RESIDUAL	4889	GPM		AT 0 PSI	5985	GPM
ESTIMATED	CONSUMPTION:	4150	GAL.				
REMARKS:	Flow test using 2 fire hydro of the driveway at 188 14t Street.	•			•		









11/3/2018 11:47:29 AM

Section 2

Raw Data for Publix Base of Riser

File = E:\Projects\2018\18-189-Publix @ Hollywood\Drawings\Fire Protection\CALCS\Base of Riser\Publix Hollywood Base of Riser.WXF

Data Fields

Strt Pnt.	Fnsh Dia Pnt.	Pipe Type	Length & Fittings		Chng Num Mark Hds		Den Area	Press	Elev
	DDCV 8 TEST 8	CL52CLDI CL52CLDI	5 2E 26 2E1G1T1Zaf	140 140		H1100	.001 .001	56.04	1 1 1

11/3/2018 11:47:36 AM Section 3 Raw Data for Publix Base of Riser File = (Untitled) Misc Information and Water Supplies

Common Elevation

Common Elevation = 1

Calculation Question Answers

Remote Point = BSR Source Point = TEST Auto Peak Move Length = 0

Locate Remote Head = Y Auto Alter Fittings Lengths = Y Auto Peak = No Alter Lengths After Auto Peak = No

City Water Supply Information

Connection Point = TEST Static Pressure = 64 Residual Pressure = 55 Residual Flow = 2075 Page 2

General Calculation Program

Job - Publix Base of Riser Date - 11/03/18

File - E:\Projects\2018\18-189-Publix @ Hollywood\Drawings\Fire Protection\CALCS\Base of Riser\Publix Hollywood Base of Riser.WXFTime - 11:46:59

AREA CALCULATED - HEAD FLOW SUMMARY

	Actual	Req.	Delta	Actual	Req.
Delta	_	_	_		
ID K-Factor	Flow	Flow	Flow.	Press.	Press.
Press BSR n/a 56.040 0.000		1100.00	0.00	56.040 Pt	
Total K Factors Total Fixed Flo Sum Actual Flow Sum Required Fl Sum Delta Flow Max Delta Flow Max Delta Press AREA CALCULATED	ws 1 1 ow 1 0 0 ure 0		available w supply at th of riser		
Start Finish Elev/Fixed Fl Point Point			Norma Pres.		
Pres. BSR <- DDCV		56.040		0.432	0.000
1099.99 6.57 DDCV <- TEST 1100.00 6.57	8.270	56.472		1.008	3.733

Pipe with highest velocity: DDCV - TEST (6.570)

Water Supply Summary @ Point TEST

Total Flow From Water Supply Curve				. 1100.00	0
Pressure From Water Supply Curve				. 61.21	8
System Pressure Demand At Supply Curve				. 61.21	3
Safety Margin at Supply Curve			C	0.005	



G & P Engineering LLC

P.O. Box 196725 Winter Springs, Fl. 32719-6725 (407)-476-3031

> PREPARED FOR: Fisher and Associates, Inc. 2315 Belleair Road Clearwater, Florida 33764 727.443.4436

Job Name : Publix Base of Riser

Drawing : Location : Remote Area : Contract :

Data File : Publix Hollywood Base of Riser.WXF

Date/Time : 11/03/2018 - 11:49 AM

C2 - Residual Flow : 2075

PREPARED FOR: Publix Base of Riser

Page 1 Date 11-03-18

Demand: D1 - Elevation City Water Supply: C1 - Static Pressure : 64 C2 - Residual Pressure: 55

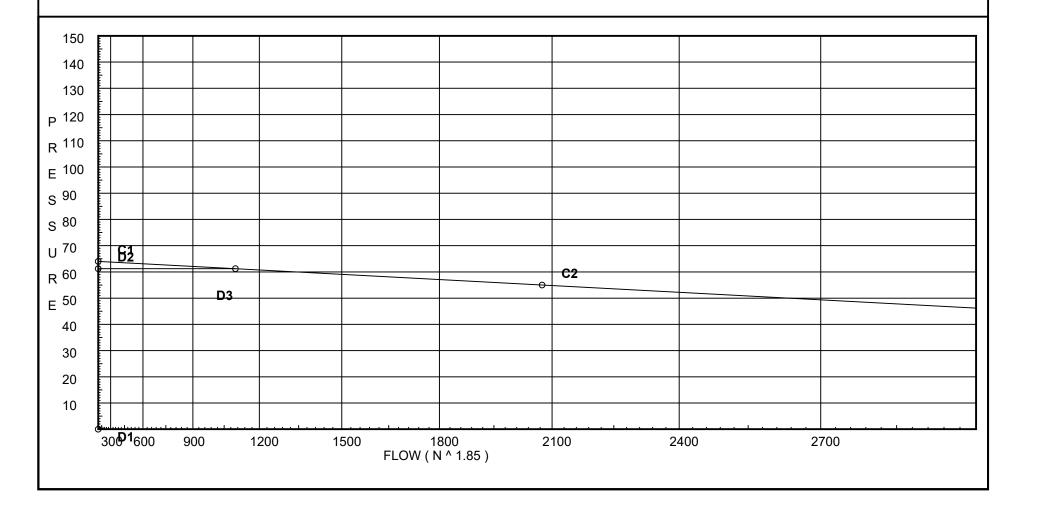
D2 - System Flow : 61.213

D2 - System Pressure : 61.213

Hose (Demand) : 1100

D3 - System Demand : 1100

Safety Margin : 0.005



Fittings Used Summary

	ARED FOR: Base of Riser																		age 2 ate 1	2 11-03-1	8
Fitting L Abbrev.		1/2	3/4	1	11⁄4	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
E	NFPA 13 90' Standard Elbow	1	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
G T	NFPA 13 Gate Valve NFPA 13 90' Flow thru Tee	0 3	0 4	0 5	0 6	0 8	1 10	1 12	1 15	1 17	2 20	2 25	3 30	4 35	5 50	6 60	7 71	8 81	10 91	11 101	13 121
Zaf	Ames 3000SS	Fitting generates a Fixed Loss Based on Flow																			

Units Summary

Diameter Units Inches Length Units Feet

Flow Units US Gallons per Minute Pressure Units Pounds per Square Inch

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

PREPARED FOR: Publix Base of Riser Page Date

3 11-03-18

SUPPL	YA	NAL	YSIS
-------	----	-----	------

Node at Source	Static Pressure	Residual Pressure	Flow	Available Pressure	Total Demand	Required Pressure
TEST	64.0	55	2075.0	61.218	1100.0	61.213

NODE ANALYSIS

Node Tag	Elevation	Node Type	Pressure at Node	Discharge at Node	Notes
BSR	1.0		56.04	1100.0	
DDCV	1.0		56.47		
TEST	1.0		61.21		

PREPARED FOR:
Publix Base of Riser

Page 4
Date 11-03-18

Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	*****	Notes ***	****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf		140100	
BSR	1	H1100	1099.99	8	2E	56.936	5.000	140	56.040			
to						0.0	56.936		7 0.0			
DDCV	1		1099.99	8.27		0.0	61.936	0.0070	0.432	Vel = 6.	57	
DDCV	1		0.01	8	2E	56.936	26.000	140	56.472			
to					G	6.326	118.616		3.733	* * Fixed	Loss = 3.733	
TEST	1		1100.0	8.27	Т	55.354	144.616	0.0070	1.008	Vel = 6.	57	
					Zaf	0.0						
		·	0.0						·			
TEST			1100.00						61.213	K Factor	= 140.60	

available pressure flowing 1100gpm at base of riser

Total pressure loss between the base of riser and connection to the city water main is 5.173psi

Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative

Series 3000SS

Double Check Detector Assemblies

Sizes: 21/2" - 12" (65 - 300mm)

Features

- Cam-Check Assembly valve provides low head loss
- Short lay length is ideally suited for retrofit installations
- Stainless Steel body is half the weight of competitive designs reducing installation and shipping cost
- Stainless steel construction provides long term corrosion protection and maximum strength
- Single top access cover with two-bolt grooved style coupling for ease of maintenance
- No special tools required for servicing
- Compact construction allows for smaller vaults and enclosures
- Furnished with ⁵/₈" x ³/₄" bronze meter (gpm or cfm)
- Detects underground leaks and unauthorized water use
- Maybe installed horizontal or vertical "flow up" position (ASSE Only)

Available Models

Suffix:

LG - less shutoff valves

OSY – UL/FM outside stem and yoke resilient seated gate valves

OSY FxG - flanged inlet gate connection and grooved outlet gate connection

OSY GxF - grooved inlet gate connection and flanged outlet gate connection

OSY GxG – grooved inlet gate connection and grooved outlet gate connection

CFM - cubic feet per minute

GPM - gallons per minute meter

Post indicator plate and operating nut available – consult factory

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



Series 3000SS Double Check Detector Assemblies are designed for use in accordance with water utility non-health hazard containment requirements. It is mandatory to prevent the reverse flow of fire protection system substances, i.e., glycerin wetting agents, stagnant water and water of non-potable quality from being pumped or siphoned into the potable water supply.

Specifications

A Double Check Detector Assembly shall be installed on fire protection systems when connected to a drinking water supply. Degree of hazard present is determined by the local authority having jurisdiction. The main valve body shall be manufactured from 300 Series stainless steel to provide corrosion resistance, 100% lead free* through the waterway. The double check detector assembly consists of two independently operating, spring loaded check valves, two UL, FM, OSY resilient seated gate valves, and bypass assembly. The bypass assembly consists of a meter (cubic ft. or gallons), a double check including shutoff valves and required test cocks. Each cam-check shall be internally loaded and provide a positive drip tight closure against reverse flow. Cam-check includes a stainless steel cam arm and spring, rubber faced disc and a replaceable seat. There shall be no brass or bronze parts used within the cam-check valve assembly. The check valve seats shall be of molded thermoplastic construction. The use of seat screws as a retention method is prohibited. All internal parts shall be accessible through a single cover on the valve assembly. The valve cover shall be held in place through the use of a single grooved style two-bolt coupling. The bypass line shall be hydraulically sized to accurately measure low flow. The bypass line shall consist of a meter, a small diameter double check assembly with test cocks and isolation valves. The bypass line double check valve shall have two independently operating modular poppet check valves, and top mounted test cocks. The assembly shall be an Ames Fire & Waterworks 3000SS.

Materials

All internal metal parts: 300 Series stainless steel, Main valve body: 300 Series stainless steel, Check assembly: Noryl® Flange dimension in accordance with AWWA Class D. Noryl® is a registered trademark of General Electric Company.

A WARNING

It is illegal to use this product in any plumbing system providing water for human consumption, such as drinking or dishwashing, in the United States. Before installing standard material product, consult your local water authority, building and plumbing codes.



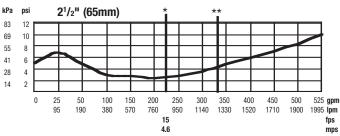
Ames Fire & Waterworks product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Fire & Waterworks Technical Service. Ames Fire & Waterworks reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Ames Fire & Waterworks products previously or subsequently sold.

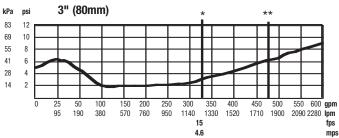
Pressure — Temperature

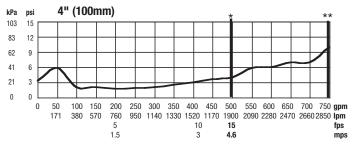
Temperature Range: 33°F – 110°F (0.5°C – 43°C) Maximum Working Pressure: 175psi (12 bar)

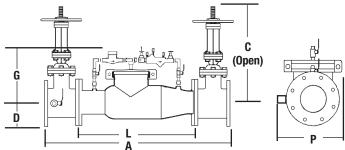
Capacity

Flow curves as tested by Underwriters Laboratory per UL 1469, 1996. * Rated flow **UL Tested









Standards

ASSE 1048, AWWA C510-92, CSA B64.5, UL 1469

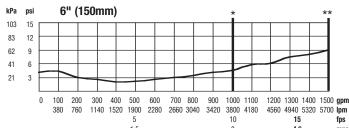
Approvals

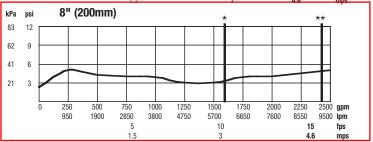
UL Classified (OSY only), FM (sizes 21/2" - 10", OSY only)

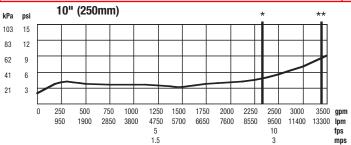


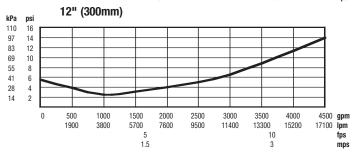












SIZE	(DN)						DIMEN	ISIONS						NET V	/EIGHT	NET V	VEIGHT
		, ,	4	C (C	SY)		D		G		L		P	w/G	ates	w/o	Gates
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb.	kg.	lb.	kg.
21/2	65	37	965	16%	416	31/2	89	10	250	22	559	121/2	318	155	70	68	31
3	80	38	965	187//8	479	3¾	95	10	250	22	559	13	330	230	104	70	32
4	100	40	1016	223/4	578	41/2	114	10	250	22	559	141/2	368	240	109	73	33
6	150	481/5	1232	301/8	765	51/2	140	15	381	271/2	699	151/2	394	390	177	120	54
- 8	200	52½	1334	37¾	959	63/4	171	15	381	29½	749	18½	464	572	259	180	82
10	250	55½	1410	45%	1162	8	200	15	381	291/2	749	191/2	495	774	351	190	86
12	300	571/2	1461	531/8	1349	91/2	241	15	381	291/2	749	21	533	1044	474	220	100



A WATTS Brand

USA: Backflow Tel: (978) 689-6066 • Fax: (978) 975-8350 • AmesFireWater.com

USA: Control Valves Tel: (713) 943-0688 • Fax: (713) 944-9445 • AmesFireWater.com

Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • AmesFireWater.ca

Latin America: Tel: (52) 81-1001-8600 • AmesFireWater.com



G & P Engineering LLC

P.O. Box 196725 Winter Springs, Fl. 32719-6725 (407)-476-3031

> PREPARED FOR: Fisher and Associates, Inc. 2315 Belleair Road Clearwater, Florida 33764 727.443.4436

Job Name : Publix Hollywood - Sales Floor

Drawing : FP1.1

Location : Hollywood, Florida

Remote Area : 1

Contract : 18-189

Data File : Publix Hollywood - Sales Floor Area 1.WXF

Date/Time : 11/09/2018 - 10:27 AM

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Date 11-09-18

HYDRAULIC CALCULATIONS for

Project name: Publix Hollywood - Sales Floor

Location: Hollywood, Florida

Drawing no: FP1.1 **Date:** 11-09-18

Design

Remote area number: 1

Remote area location: Sales Floor

Occupancy classification: Ordinary Hazard Group 2

Density: 0.18 - Gpm/SqFt **Area of application:** 2,500 - SqFt **Coverage per sprinkler:** 130 - SqFt

Type of sprinklers calculated: Viking VK200 Brass Upright 8.0

No. of sprinklers calculated: 21 In-rack demand: N/A - GPM Hose streams: 250 - GPM

Total water required (including hose streams): 735.05 - GPM @ 36.23 - Psi

Type of system: Wet Pipe Grid

Volume of dry or preaction system: N/A - Gal

Water supply information

Date: 10-25-18

Location: 3100 S. Ocean Drive in front of the site

Source:

Name of contractor: G & P Engineering

Address: PO Box 196725, Winter Springs, Fl. 32719-6725

Phone number: 407.476.3031 **Name of designer:** W. P.

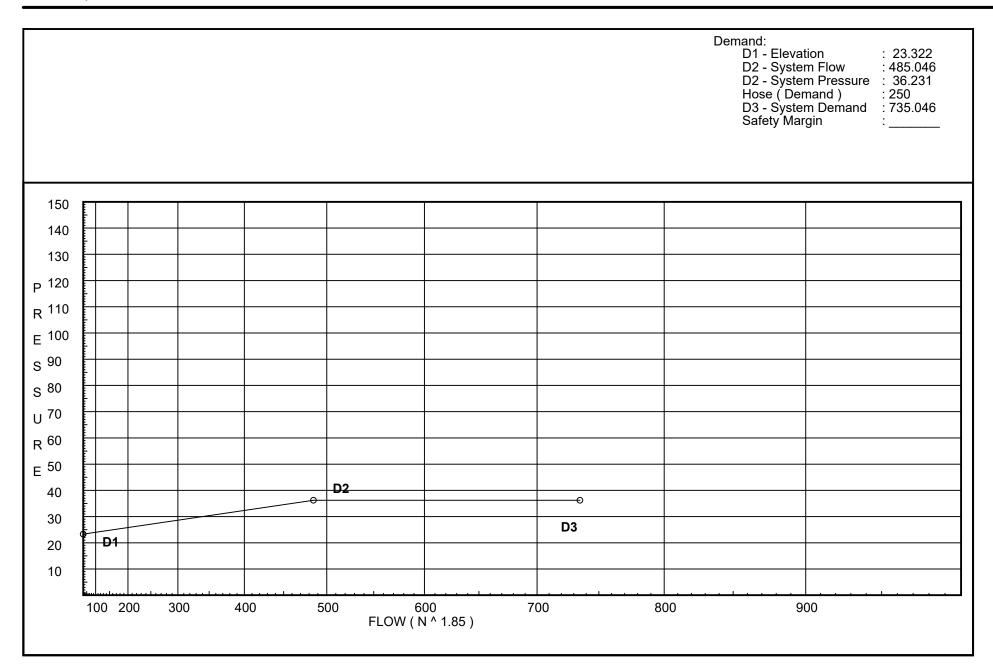
Authority having jurisdiction: Seminole County

Notes: (Include peaking information or gridded systems here.)

This calculation is based on a prototypical store.

The elevation of a 3 story building is added to this calculation.

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Fittings Used Summary

	ARED FOR: Hollywood - Sales Floor																		ige 3 ate 1	3 11-09-1	8
Fitting L Abbrev.		1/2	3/4	1	11⁄4	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
Avk E	Alarm Viking J1 NFPA 13 90' Standard Elbow	1	2	2	3	4	5	6	10 7	8	13 10	12	20 14	23 18	22	27	35	40	45	50	61
Fsp G T	Flow Switch Potter VSR NFPA 13 Gate Valve NFPA 13 90' Flow thru Tee	Fittin 0 3	ng gener 0 4	rates a l 0 5	Fixed Los 0 6	ss Based 0 8	d on Flood 1 10	w 1 12	1 15	1 17	2 20	2 25	3 30	4 35	5 50	6 60	7 71	8 81	10 91	11 101	13 121

Units Summary

Diameter Units Inches Length Units Feet

Flow Units US Gallons per Minute Pressure Units Pounds per Square Inch

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

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Publix Hollywood - Sales Floor

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SUPPLY ANALYSIS

Node at	Static	Residual		Available		
Source	Pressure	Pressure	Flow	Pressure	Total Demand	Required Pressure

NODE ANALYSIS

Node Tag	Elevation	Node Type	Pressure at Node	Discharge at Node	Notes
100	21.6	8	7.91	22.5	
101	21.79	8	7.85	22.41	
102	21.98	8	7.84	22.4	
103	22.17	8	7.92	22.52	
104	22.79		8.79		
105	19.21		10.83		
106 107	19.21 19.21		10.85 10.87		
107	19.21		10.87		
109	19.21		10.92		
110	19.21		10.95		
111	19.21		10.97		
112	19.21		10.99		
113	19.21		11.01		
114	19.21		11.02		
115	19.21		11.04		
116	19.21		11.04		
117	19.21		11.05		
118	19.21		11.05		
119	19.21		11.06		
120	19.21		11.06		
121	22.71		9.61		
122	20.21		11.3		
123	18.13		12.27		
124	18.13		12.27		
125	18.13		12.28		
126	15.0		14.08		
127	-32.25		36.23	250.0	
130	21.41	8	7.99	22.62	
131	21.23	8	8.09	22.76	
132	21.04	8	8.26	22.99	
133	20.87	8	8.49	23.31	
134	20.3		9.86		
135	18.13		11.29		
136	18.13		11.31		
137	18.13		11.34		
138	18.13		11.37		
139 140	18.13 18.43		11.39 11.41		
140	18.43		11.41 11.44		
141	18.13		11. 44 11.74		
142	18.13		11.74		
145	10.13		11.77		

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NODE ANALYSIS (cont.)

			NODE ANA	L TOTO (COTIL.)	
Node Tag	Elevation	Node Type	Pressure at Node	Discharge at Node	Notes
144	18.13		11.81		
145	18.13		11.86		
146	18.13		11.92		
147	18.13		11.98		
148	18.13		12.04		
149	18.13		11.28		
150	20.3		9.6		
151	20.84	8	8.67	23.55	
152	21.04	8	8.42	23.22	
153	21.23	8	8.27	23.0	
154	21.38	Ŭ	8.18	20.0	
155	21.41	8	8.17	22.86	
156	21.6	8	8.08	22.74	
157	21.79	8 8 8	8.01	22.65	
158	21.98	8	8.0	22.62	
159	22.17	8	8.06	22.72	
160	22.79	ŭ	8.85		
161	19.21		10.83		
162	20.3		10.1		
163	20.85	8	9.25	24.33	
164	21.04	8 8 8	9.09	24.12	
165	21.23	8	9.0	23.99	
166	21.41	8	8.92	23.89	
167	21.6	8	8.87	23.83	
168	22.79	-	9.11		
169	20.3		10.4		
170	22.79		9.32		
171	20.3		10.43		
172	22.79		9.35		
173	20.3		10.45		
174	22.79		9.37		
175	22.71		9.44		
176	20.52		10.49		
177	22.71		9.47		
178	20.57		10.47		
179	20.01		10.72		
180	20.52		10.53		
181	22.71		9.5		
182	22.71		9.52		
183	22.71		9.54		
184	22.71		9.55		
185	22.71		9.57		
186	22.71		9.57		
187	22.71		9.58		
188	20.21		11.1		
189	22.71		9.61		
190	20.21		11.3		
191	20.05		10.7		

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Node1 Elev1 Κ Qa Nom Fitting Pipe **CFact** Pt ***** ***** **Ftngs** Рe to or Notes Node2 Elev2 Fact Qt Act Eqiv Len Total Pf/Ft Pf 100 21.6 8.00 21.76 2.5 0.0 8.800 120 7.910 to 0.0 0.0 -0.08221.79 2.469 8.800 0.0024 101 21.76 0.0 0.021 Vel = 1.46101 0.0 8.790 7.849 21.79 8.00 22.41 2.5 120 0.0 0.0 -0.082 to 102 21.98 44.17 2.469 0.0 8.790 0.0086 0.076 Vel = 2.968.790 102 21.98 8.00 22.40 2.5 0.0 120 7.843 0.0 0.0 -0.082to 103 22.17 66.57 2.469 8.790 0.0185 Vel = 4.460.0 0.163 103 22.17 8.00 22.53 2.5 Ε 6.0 29.390 120 7.924 to 0.0 6.000 -0.269104 22.79 89.1 2.469 0.0 35.390 0.0320 1.131 Vel = 5.97104 22.79 2.5 Τ 12.0 8.786 0.0 3.580 120 0.0 12.000 1.550 to 105 19.21 89.1 2.469 0.0 15.580 0.0320 0.498 Vel = 5.97105 19.21 85.69 6 0.0 13.660 120 10.834 to 0.0 0.0 0.0 106 19.21 174.79 6.357 0.0 13.660 0.0011 0.015 Vel = 1.77106 13.670 10.849 19.21 52.90 6 0.0 120 0.0 to 0.0 0.0 107 19.21 227.69 6.357 0.0 13.670 0.0018 0.025 Vel = 2.300.0 13.670 10.874 107 19.21 2.24 6 120 0.0 0.0 to 0.0 108 19.21 229.93 6.357 0.0 13.670 0.0018 0.025 Vel = 2.3213.660 10.899 108 19.21 0.39 6 0.0 120 0.0 0.0 0.0 to 0.0019 109 19.21 230.32 6.357 0.0 13.660 0.026 Vel = 2.33109 19.21 -0.290.0 13.790 120 10.925 6 0.0 0.0 0.0 to 110 19.21 230.03 6.357 0.0 13.790 0.0018 0.025 Vel = 2.33110 19.21 -10.606 0.0 13.800 120 10.950 to 0.0 0.0 0.0 111 19.21 219.43 6.357 0.0 13.800 0.0017 0.023 Vel = 2.22111 19.21 6 0.0 13.330 120 10.973 -10.86 to 0.0 0.0 0.0 112 19.21 208.57 6.357 0.0 13.330 0.0016 0.021 Vel = 2.1112.880 0.0 10.994 112 19.21 -18.026 120 0.0 0.0 0.0 to 113 19.21 190.55 6.357 0.0 12.880 0.0013 0.017 Vel = 1.93113 19.21 -18.756 0.0 12.870 120 11.011 0.0 0.0 0.0 to 114 19.21 171.8 6.357 0.0 12.870 0.0011 0.014 Vel = 1.74 114 19.21 -19.706 0.0 13.040 120 11.025 to 0.0 0.0 0.0 115 19.21 152.1 6.357 0.0 13.040 0.0008 0.011 Vel = 1.54115 19.21 0.0 13.330 11.036 -20.896 120 to 0.0 0.0 0.0 116 19.21 131.21 6.357 0.0 13.330 0.0006 800.0 Vel = 1.33

Final Calculations: Hazen-Williams

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TUDIXTR	ony wood	Guide i i	001							Date 11-09-10	
Node1	Elev1	K	Qa	Nom	Fitting	Ī	Pipe	CFact	Pt		
to		••	~		or	•	Ftngs	0. 0.01	Pe	****** Notes ****	*
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf		
116	19.21		-22.27	6		0.0	13.330	120	11.044		
to	13.21		-22.21	U		0.0	0.0	120	0.0		
117	19.21		108.94	6.357		0.0	13.330	0.0005	0.007	Vel = 1.10	
117	19.21		-21.76	6		0.0	12.990	120	11.051		
to						0.0	0.0		0.0		
118	19.21		87.18	6.357		0.0	12.990	0.0003	0.004	Vel = 0.88	
118	19.21		-24.03	6		0.0	13.250	120	11.055		
to	40.04		00.45	0.057		0.0	0.0	0.0000	0.0	V-I - 0.04	
119	19.21		63.15	6.357		0.0	13.250	0.0002	0.002	Vel = 0.64	
119	19.21		-31.59	6		0.0 0.0	13.250 0.0	120	11.057 0.0		
to 120	19.21		31.56	6.357		0.0	13.250	0.0001	0.001	Vel = 0.32	
120	19.21		0.0	2.5	T	12.0	3.500	120	11.058	V 51 0.02	
to	10.21		0.0	2.0	•	0.0	12.000	120	-1.516		
121	22.71		31.56	2.469		0.0	15.500	0.0046	0.072	Vel = 2.11	
121	22.71		0.0	2.5	2E	12.0	117.050	120	9.614		
to						0.0	12.000		1.083		
122	20.21		31.56	2.469		0.0	129.050	0.0047	0.604	Vel = 2.11	
122	20.21		0.0	2.5	Т	12.0	2.080	120	11.301		
to	40.40		04.50	0.400		0.0	12.000	0.0047	0.901	V-1 - 0.44	
123	18.13		31.56	2.469		0.0	14.080	0.0047	0.066	Vel = 2.11	
123 to	18.13		0.0	6		0.0 0.0	13.250 0.0	120	12.268 0.0		
124	18.13		31.56	6.357		0.0	13.250	0.0001	0.001	Vel = 0.32	
124	18.13		31.59	6	Т	37.72	9.960	120	12.269	33. 3.32	
to	10.10		01.00	O	•	0.0	37.720	120	0.0		
125	18.13		63.15	6.357		0.0	47.680	0.0002	0.008	Vel = 0.64	
125	18.13		421.90	6	3E	52.808	8.430	120	12.277		
to						0.0	52.808		1.356		
126	15		485.05	6.357		0.0	61.238	0.0073	0.449	Vel = 4.90	
126	15		0.0	6	E	17.603	18.000	120	14.082		
to	22.250		40E 0E	6 257	2Fsp	0.0	75.441	0.0072	21.464 0.685	* * Fixed Loss = 1	
127	-32.250	1	485.05	6.357	2Avk 2G	50.294 7.544	93.441	0.0073	0.005	Vel = 4.90	
			250.00							Qa = 250.00	
127			735.05						36.231	K Factor = 122.12	
100	21.6	/	0.74	2.5		0.0	9.120	120	7.910		
to				•		0.0	0.0	. = •	0.082		
130	21.41		0.74	2.469		0.0	9.120	0	0.0	Vel = 0.05	
130	21.41	8.00	22.62	2.5		0.0	8.470	120	7.992		
to						0.0	0.0		0.078		
131	21.23		23.36	2.469		0.0	8.470	0.0027	0.023	Vel = 1.57	
131	21.23	8.00	22.76	2.5		0.0	8.790	120	8.093		
to 132	21.04		46.12	2.469		0.0	0.0 8.790	0.0094	0.082	\/al = 3.00	
132	21.04	0.00				0.0			0.083	Vel = 3.09	
132 to	21.04	8.00	22.99	2.5		0.0 0.0	8.000 0.0	120	8.258 0.074		
133	20.87		69.11	2.469		0.0	8.000	0.0200	0.074	Vel = 4.63	
	_3.0.		20.11			J. U	3.000	2.0200	2		

base of riser sprinkler demand

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Node1 Elev1 Κ Qa Nom Fitting Pipe **CFact** Pt ***** ***** **Ftngs** Pe to or Notes Node2 Elev2 Fact Qt Act Eqiv Len Total Pf/Ft Pf 133 20.87 8.00 23.31 2.5 Ε 6.0 26.910 120 8.492 to 0.0 6.000 0.247 2.469 32.910 0.0342 Vel = 6.19134 20.3 92.42 0.0 1.124 2.5 Τ 12.0 134 20.3 0.0 2.170 120 9.863 0.0 12.000 0.940 to 2.469 135 18.13 92.42 0.0 14.170 0.0342 0.485 Vel = 6.19135 18.13 97.67 6 0.0 13.660 120 11.288 0.0 0.0 0.0 to 136 190.09 6.357 0.0012 0.017 Vel = 1.9218.13 0.0 13.660 136 18.13 67.27 6 0.0 13.670 120 11.305 to 0.0 0.0 0.0 137 18.13 257.36 6.357 0.0 13.670 0.0023 0.031 Vel = 2.60137 11.336 18.13 -2.246 0.0 13.670 120 0.0 to 0.0 0.0 138 18.13 255.12 6.357 0.0 13.670 0.0023 0.031 Vel = 2.58138 18.13 -0.40 6 0.0 11.500 120 11.367 to 0.0 0.0 0.0 139 254.72 6.357 0.0 11.500 0.0022 18.13 0.025 Vel = 2.57139 35.205 11.392 18.13 0.29 6 2E 28.780 120 35.205 to 0.0 -0.130 6.357 140 18.43 255.01 0.0 63.985 0.0023 0.144 Vel = 2.580.0 140 18.43 10.61 6 15.290 120 11.406 0.0 to 0.0 0.0 15.290 141 18.43 265.62 6.357 0.0 0.0024 0.036 Vel = 2.69141 18.43 10.85 6 2E 35.205 27.660 120 11.442 0.0 35.205 0.130 to 142 276.47 6.357 0.0 62.865 0.0026 0.163 Vel = 2.7918.13 142 0.0 12.880 11.735 18.13 18.02 6 120 0.0 0.0 to 0.0 143 18.13 294.49 6.357 0.0 12.880 0.0030 0.038 Vel = 2.98143 18.13 18.75 6 0.0 12.880 120 11.773 to 0.0 0.0 0.0 144 18.13 313.24 6.357 0.0 12.880 0.0033 0.042 Vel = 3.17144 6 0.0 13.040 120 11.815 18.13 19.71 to 0.0 0.0 0.0 145 18.13 332.95 6.357 0.0 13.040 0.0037 0.048 Vel = 3.37145 18.13 20.88 6 0.0 13.330 120 11.863 0.0 0.0 0.0 to 146 353.83 6.357 0.0 13.330 0.0041 0.054 18.13 Vel = 3.58146 18.13 22.28 6 0.0 13.330 120 11.917 0.0 0.0 0.0 to 147 376.11 6.357 0.0 13.330 0.0046 0.061 Vel = 3.8018.13 147 18.13 21.76 6 0.0 12.990 120 11.978 to 0.0 0.0 0.0 6.357 148 18.13 397.87 0.0 12.990 0.0051 0.066 Vel = 4.02148 Τ 37.72 3.290 12.044 18.13 24.02 6 120 to 0.0 37.720 0.0 125 421.89 6.357 0.0 41.010 0.0057 0.233 Vel = 4.2618.13

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Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	****** Notes *****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf	
125			0.0 421.89						12.277	K Factor = 120.41
135	18.13		-97.67	6		0.0	13.660	120	11.288	
to 149	18.13		-97.67	6.357		0.0 0.0	0.0 13.660	-0.0004	0.0 -0.006	Vel = 0.99
149	18.13		0.0	2.5	E	8.237	2.170	120	11.282	
to 150	20.3		-97.67	2.635	Т	16.474 0.0	24.711 26.881	-0.0276	-0.940 -0.741	Vel = 5.75
150	20.3		0.0	2.5		0.0	25.400	120	9.601	VGI 0.70
to	00.04			0.005		0.0	0.0	0.0070	-0.234	\/-I = 5.75
151 151	20.84	8.00	-97.67 23.55	2.635 2.5		0.0	25.400 9.510	-0.0276 120	-0.700 8.667	Vel = 5.75
to		0.00				0.0	0.0		-0.087	
152	21.04		-74.12	2.635		0.0	9.510	-0.0165	-0.157	Vel = 4.36
152 to	21.04	8.00	23.22	2.5		0.0 0.0	8.790 0.0	120	8.423 -0.082	
153	21.23		-50.9	2.635		0.0	8.790	-0.0083	-0.002	Vel = 2.99
153	21.23	8.00	23.00	2.5		0.0	7.380	120	8.268	
to 154	21.38		-27.9	2.635		0.0 0.0	0.0 7.380	-0.0027	-0.065 -0.020	Vel = 1.64
154	21.38		0.0	2.5		0.0	1.090	120	8.183	VCI - 1.04
to						0.0	0.0		-0.013	
155	21.41		-27.9	2.469		0.0	1.090	-0.0037	-0.004	Vel = 1.87
155 to	21.41	8.00	22.86	2.5		0.0 0.0	9.120 0.0	120	8.166 -0.082	
156	21.6		-5.04	2.469		0.0	9.120	-0.0002	-0.002	Vel = 0.34
156	21.6	8.00	22.75	2.5		0.0	8.790	120	8.082	
to 157	21.79		17.71	2.469		0.0 0.0	0.0 8.790	0.0016	-0.082 0.014	Vel = 1.19
157	21.79	8.00	22.65	2.403		0.0	8.790	120	8.014	VCI - 1.19
to		0.00				0.0	0.0		-0.082	
158	21.98		40.36	2.469		0.0	8.790	0.0074	0.065	Vel = 2.70
158 to	21.98	8.00	22.62	2.5		0.0 0.0	8.790 0.0	120	7.997 -0.082	
159	22.17		62.98	2.469		0.0	8.790	0.0167	0.147	Vel = 4.22
159	22.17	8.00	22.71	2.5	Е	6.0	29.390	120	8.062	
to 160	22.79		85.69	2.469		0.0 0.0	6.000 35.390	0.0298	-0.269 1.053	Vel = 5.74
160	22.79		0.0	2.409	Т	16.474	3.580	120	8.846	VOI 0.17
to					-	0.0	16.474		1.550	
161	19.21		85.69	2.635		0.0	20.054	0.0216	0.434	Vel = 5.04
161 to	19.21		0.0	6		0.0 0.0	13.670 0.0	120	10.830 0.0	
105	19.21		85.69	6.357		0.0	13.670	0.0003	0.004	Vel = 0.87
			0.0	·						
105	40.40		85.69	2.5		40.0	0.470	400	10.834	K Factor = 26.03
136 to	18.13		-67.27	2.5	Т	12.0 0.0	2.170 12.000	120	11.305 -0.940	
162	20.3		-67.27	2.469		0.0	14.170	-0.0190	-0.269	Vel = 4.51

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Publix H	Jilywood	- Sales Fil	501							Date 11-09-16
Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	****** Notes *****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf	110.00
162 to	20.3		0.0	2.5	Е	6.0 0.0	26.120 6.000	120	10.096 -0.238	
163	20.85		-67.27	2.469		0.0	32.120	-0.0190	-0.610	Vel = 4.51
163 to	20.85	8.00	24.33	2.5		0.0 0.0	8.790 0.0	120	9.248 -0.082	
164	21.04		-42.94	2.469		0.0	8.790	-0.0083	-0.073	Vel = 2.88
164	21.04	8.00	24.12	2.5		0.0	8.790	120	9.093	
to 165	21.23		-18.82	2.469		0.0 0.0	0.0 8.790	-0.0018	-0.082 -0.016	Vel = 1.26
165	21.23	8.00	24.00	2.5		0.0	8.470	120	8.995	
to	04.44		F 40	0.400		0.0	0.0	0.0004	-0.078	Val - 0.25
166 166	21.41 21.41	8.00	5.18 23.89	2.469 2.5		0.0	8.470 9.120	0.0001 120	0.001 8.918	Vel = 0.35
to	21.41	0.00	23.09	2.5		0.0	0.0	120	-0.082	
167	21.6		29.07	2.469		0.0	9.120	0.0041	0.037	Vel = 1.95
167	21.6	8.00	23.83	2.5	E	6.0	55.760	120	8.873	
to 168	22.79		52.9	2.469		0.0 0.0	6.000 61.760	0.0122	-0.515 0.751	Vel = 3.54
168	22.79		0.0	2.5	Т	12.0	3.580	120	9.109	
to	40.04		50.0	0.400		0.0	12.000	0.0400	1.550	V-I - 0.54
106	19.21		52.9 0.0	2.469		0.0	15.580	0.0122	0.190	Vel = 3.54
106			52.90						10.849	K Factor = 16.06
137	18.13		2.24	2.5	Т	12.0	2.170	120	11.336	
to 169	20.3		2.24	2.469		0.0 0.0	12.000 14.170	0.0001	-0.940 0.001	Vel = 0.15
169	20.3		0.0	2.409	2E	12.0	117.040	120	10.397	Ver - 0.13
to	20.0		0.0		26	0.0	12.000	120	-1.078	
170	22.79		2.24	2.469		0.0	129.040	0	0.004	Vel = 0.15
170	22.79		0.0	2.5	T	12.0 0.0	3.580 12.000	120	9.323 1.550	
to 107	19.21		2.24	2.469		0.0	15.580	0.0001	0.001	Vel = 0.15
107			0.0 2.24						10.874	K Factor = 0.68
138	18.13		0.40	2.5	Т	12.0	2.170	120	11.367	
to	00.0		0.4	0.400		0.0	12.000	•	-0.940	V 1 000
171	20.3		0.4	2.469	25	0.0	14.170	0	0.0	Vel = 0.03
171 to	20.3		0.0	2.5	2E	12.0 0.0	117.050 12.000	120	10.427 -1.078	
172	22.79		0.4	2.469		0.0	129.050	0	0.0	Vel = 0.03
172	22.79		0.0	2.5	Т	12.0	3.580	120	9.349	
to 108	19.21		0.4	2.469		0.0 0.0	12.000 15.580	0	1.550 0.0	Vel = 0.03
108			0.0 0.40			-			10.899	K Factor = 0.12
139	18.13		-0.29	2.5	Т	12.0	2.170	120	11.392	11 40101 - 0.12
to					•	0.0	12.000		-0.940	
173	20.3		-0.29	2.469		0.0	14.170	0.0001	0.001	Vel = 0.02

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Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	****** Notes *****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf	
170	20.2		0.0	0 F	45	24.0	110 220	120	10 452	
173 to	20.3		0.0	2.5	4E	24.0 0.0	119.220 24.000	120	10.453 -1.078	
174	22.79		-0.29	2.469		0.0	143.220	0	-0.001	Vel = 0.02
174	22.79		0.0	2.5	Т	12.0 0.0	3.580 12.000	120	9.374	
o 109	19.21		-0.29	2.469		0.0	15.580	0.0001	1.550 0.001	Vel = 0.02
			0.0							
109			-0.29						10.925	K Factor = -0.09
110 o	19.21		10.61	2.5	T	12.0 0.0	3.500 12.000	120	10.950 -1.516	
175	22.71		10.61	2.469		0.0	15.500	0.0006	0.010	Vel = 0.71
175	22.71		0.0	2.5	8E	48.0	111.160	120	9.444	
o 176	20.52		10.61	2.469		0.0 0.0	48.000 159.160	0.0006	0.948 0.100	Vel = 0.71
176	20.52		0.0	2.5	Т	12.0	2.080	120	10.492	V G1 0.7 1
0						0.0	12.000		0.905	
140	18.43		10.61	2.469		0.0	14.080	0.0006	0.009	Vel = 0.71
140			0.0 10.61						11.406	K Factor = 3.14
111	19.21		10.85	2.5	Т	12.0	3.500	120	10.973	• • • • • • • • • • • • • • • • • • • •
0	00.74		40.05	0.400		0.0	12.000	0.0007	-1.516	\/
177 177	22.71 22.71		10.85 0.0	2.469 2.5	8E	0.0 48.0	15.500 62.430	0.0007 120	0.011 9.468	Vel = 0.73
177	22.71		0.0	2.3	ο⊑	0.0	48.000	120	9.466 0.927	
178	20.57		10.85	2.469		0.0	110.430	0.0006	0.071	Vel = 0.73
178	20.57		-6.97	2.5	3T E	36.0 6.0	35.340 42.000	120	10.466 0.243	
to 179	20.01		3.88	2.469	_	0.0	77.340	0.0001	0.243	Vel = 0.26
179	20.01		6.97	2.5	4E	24.0	26.140	120	10.716	
100	20.52		10.85	2.469		0.0 0.0	24.000 50.140	0.0007	-0.221 0.033	Vel = 0.73
180 180	20.52		0.0	2.409	T	12.0	2.080	120	10.528	Vei = 0.73
0	20.02		0.0	2.0	'	0.0	12.000	120	0.905	
141	18.43		10.85	2.469		0.0	14.080	0.0006	0.009	Vel = 0.73
141			0.0 10.85						11.442	K Factor = 3.21
112	19.21		18.02	2.5	Т	12.0	3.500	120	10.994	11 40101 0.21
to						0.0	12.000		-1.516	
181	22.71		18.02	2.469	25	0.0	15.500	0.0017	0.026	Vel = 1.21
181 to	22.71		0.0	2.5	3E T	18.0 12.0	119.230 30.000	120	9.504 1.984	
142	18.13		18.02	2.469	•	0.0	149.230	0.0017	0.247	Vel = 1.21
142			0.0 18.02						11.735	K Factor = 5.26
113	19.21		18.75	2.5	Т	12.0	3.500	120	11.011	-
to						0.0	12.000		-1.516	V-I - 4.00
182	22.71		18.75	2.469	2⊏	0.0	15.500	0.0018	0.028	Vel = 1.26
182 to	22.71		0.0	2.5	3E T	18.0 12.0	119.220 30.000	120	9.523 1.984	V-I - 4.00
143	18.13		18.75	2.469		0.0	149.220	0.0018	0.266	Vel = 1.26

Computer Programs by Hydratec Inc. Revision: 50.53.5

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Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	*****	Notes	****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf			
143			0.0 18.75						11.773	K Factor =	= 5.46	
114	19.21		19.71	2.5	Т	12.0	3.500	120	11.025		01.10	
o 183	22.71		19.71	2.469		0.0 0.0	12.000 15.500	0.0019	-1.516 0.030	Vel = 1.3	12	
183	22.71		0.0	2.409	3E	18.0	119.140	120	9.539	V GI - 1.0) <u>Z</u>	
0					Т	12.0	30.000		1.984			
144	18.13		19.71 0.0	2.469		0.0	149.140	0.0020	0.292	Vel = 1.3	32	
144			19.71						11.815	K Factor =	5.73	
115	19.21		20.88	2.5	Т	12.0	3.500	120	11.036			
o 184	22.71		20.88	2.469		0.0 0.0	12.000 15.500	0.0022	-1.516 0.034	Vel = 1.4	0	
184	22.71		0.0	2.5	3E	18.0	119.140	120	9.554			
o 145	18.13		20.88	2.469	T	12.0 0.0	30.000 149.140	0.0022	1.984 0.325	Vel = 1.4	0	
140	10.13		0.0	2.403		0.0	149.140	0.0022	0.323	V GI - 1.5	.0	
145			20.88						11.863	K Factor =	6.06	
116 :o	19.21		22.28	2.5	Т	12.0 0.0	3.500 12.000	120	11.044 -1.516			
185	22.71		22.28	2.469		0.0	15.500	0.0025	0.039	Vel = 1.4	.9	
185	22.71		0.0	2.5	3E	18.0	119.240	120	9.567			
o 146	18.13		22.28	2.469	T	12.0 0.0	30.000 149.240	0.0025	1.984 0.366	Vel = 1.4	.9	
			0.0									
146			22.28						11.917	K Factor =	6.45	
117 :o	19.21		21.76	2.5	T	12.0 0.0	3.500 12.000	120	11.051 -1.516			
186	22.71		21.76	2.469		0.0	15.500	0.0023	0.036	Vel = 1.4	-6	
186	22.71		0.0	2.5	7E	42.0	125.860	120	9.571			
o 147	18.13		21.76	2.469	Т	12.0 0.0	54.000 179.860	0.0024	1.984 0.423	Vel = 1.4	6	
			0.0									
147	40.04		21.76	0.5	_	40.0	2.500	400	11.978	K Factor =	= 6.29	
118 :o	19.21		24.02	2.5	Т	12.0 0.0	3.500 12.000	120	11.055 -1.516			
187	22.71		24.02	2.469		0.0	15.500	0.0028	0.044	Vel = 1.6	51	
187 :o	22.71		0.0	2.5	6E	36.0 0.0	119.070 36.000	120	9.583 1.083			
188	20.21		24.02	2.469		0.0	155.070	0.0028	0.438	Vel = 1.6	51	
188	20.21		0.0	2.5	Т	12.0	2.080	120	11.104			
o 148	18.13		24.02	2.469		0.0 0.0	12.000 14.080	0.0028	0.901 0.039	Vel = 1.6	61	
			0.0			<u> </u>	. 1.000	0.0020	0.000	1.0		
148			24.02						12.044	K Factor =	6.92	
119 :o	19.21		31.59	2.5	T	12.0 0.0	3.500 12.000	120	11.057 -1.516			
189	22.71		31.59	2.469		0.0	15.500	0.0047	0.073	Vel = 2.1	^	

Final Calculations: Hazen-Williams

PREPARED FOR: Publix Hollywood - Sales Floor Page 13 Date 11-09-18

	,										-
Node1	Elev1	K	Qa	Nom	Fitting	1	Pipe Ftngs	CFact	Pt Pe	****** Notes *	*****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf		
189	22.71		0.0	2.5	2E	12.0	117.050	120	9.614		
to						0.0	12.000		1.083		
190	20.21		31.59	2.469		0.0	129.050	0.0047	0.605	Vel = 2.12	
190	20.21		0.0	2.5	Т	12.0	2.080	120	11.302		
to						0.0	12.000		0.901		
124	18.13		31.59	2.469		0.0	14.080	0.0047	0.066	Vel = 2.12	
			0.0								
124			31.59						12.269	K Factor = 9.02	
178	20.57		6.97	2.5		0.0	24.370	120	10.466		
to						0.0	0.0		0.225		
191	20.05		6.97	2.469		0.0	24.370	0.0003	0.007	Vel = 0.47	
191	20.05		0.0	2.5		0.0	1.800	120	10.698		
to						0.0	0.0		0.017		
179	20.01		6.97	2.469		0.0	1.800	0.0006	0.001	Vel = 0.47	
			0.0								
_179			6.97						10.716	K Factor = 2.13	



G & P Engineering LLC

P.O. Box 196725 Winter Springs, Fl. 32719-6725 (407)-476-3031

> PREPARED FOR: Fisher and Associates, Inc. 2315 Belleair Road Clearwater, Florida 33764 727.443.4436

Job Name : Publix Hollywood - Storage

Drawing : FP1.1

Location : Hollywood, Florida

Remote Area : 2 Contract : 18-189

Data File : Publix Hollywood - Storage Area 2.WXF

Date/Time : 11/09/2018 - 10:22 AM

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Date 11-09-18

HYDRAULIC CALCULATIONS for

Project name: Publix Hollywood - Storage

Location: Hollywood, Florida

Drawing no: FP1.1 **Date:** 11-09-18

Design

Remote area number: 2 **Remote area location:** Storage

Occupancy classification: Ordinary Hazard Group 2

Density: 0.30 - Gpm/SqFt

Area of application: 2,000 - SqFt

Coverage per sprinkler: 100 - SqFt

Type of sprinklers calculated: Viking VK530 Brass Upright 11.2

No. of sprinklers calculated: 26 In-rack demand: N/A - GPM Hose streams: 0 - GPM

Total water required (including hose streams): 1089.54 - GPM @ 40.15 - Psi

Type of system: Wet Pipe Grid

Volume of dry or preaction system: N/A - Gal

Water supply information

Date: 10-25-18

Location: 3100 S. Ocean Drive in front of site

Source:

Name of contractor: G & P Engineering

Address: PO Box 196725, Winter Springs, Fl. 32719-6725

Phone number: 407.476.3031 **Name of designer:** W. P.

Authority having jurisdiction: Local Authority

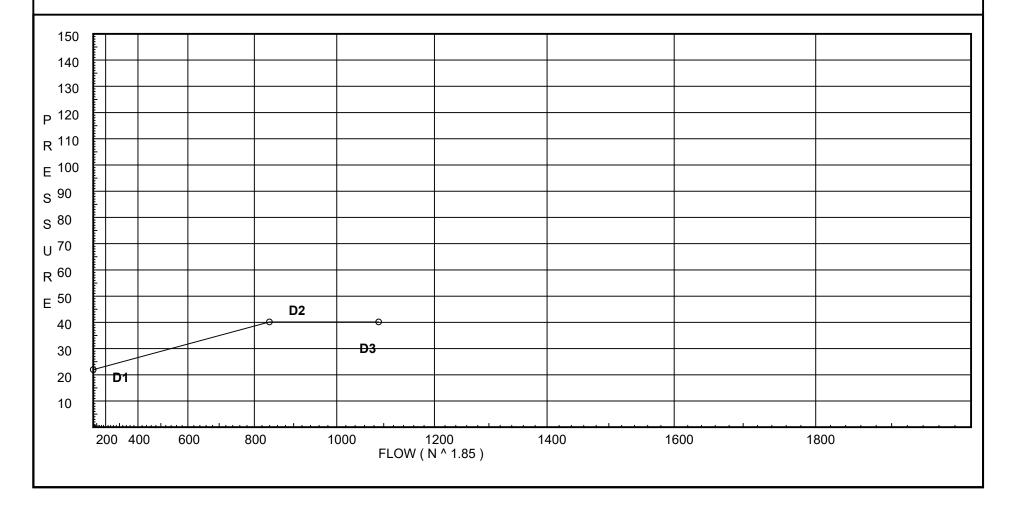
Notes: (Include peaking information or gridded systems here.)

This calculation is based on a prototypical store.

The elevation of a 3 story building is added to this calculation.

Demand:

D1 - Elevation : 21.967
D2 - System Flow : 839.54
D2 - System Pressure : 40.148
Hose (Demand) : 250
D3 - System Demand : 1089.54
Safety Margin : ______



Fittings Used Summary

	PREPARED FOR: Publix Hollywood - Storage													Page 3 Date 11-09-18							
Fitting L Abbrev.	•	1/2	3/4	1	11⁄4	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
Avk E	Alarm Viking J1 NFPA 13 90' Standard Elbow	1	2	2	3	4	5	6	10 7	8	13 10	12	20 14	23 18	22	27	35	40	45	50	61
Fsp G T	Flow Switch Potter VSR NFPA 13 Gate Valve NFPA 13 90' Flow thru Tee	Fittin 0 3	g gener 0 4	rates a f 0 5	Fixed Los 0 6	ss Base 0 8	d on Flo 1 10	w 1 12	1 15	1 17	2 20	2 25	3 30	4 35	5 50	6 60	7 71	8 81	10 91	11 101	13 121

Units Summary

Diameter Units Inches Length Units Feet

Flow Units US Gallons per Minute Pressure Units Pounds per Square Inch

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

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SUPPLY ANALYSIS

Node at Static Residual Available Source Pressure Pressure Flow Pressure **Total Demand** Required Pressure

NODE ANALYSIS

SP02	Node Tag	Elevation	Node Type	Pressure at Node	Discharge at Node	Notes
EQ02 18.3 9.98 SP07 20.81 11.2 7.0 29.63 EQ07 18.47 9.18 SP10 20.79 11.2 7.0 29.63 EQ10 18.46 9.18 SP09 20.63 11.2 7.0 29.63 EQ09 18.3 9.98 SP05 20.49 11.2 7.0 29.63 EQ05 18.16 9.98 SP12 20.63 11.2 7.0 29.63 EQ12 18.3 9.98 SP12 18.3 9.98 SP01 20.49 11.2 7.0 29.63 EQ12 18.3 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP03 20.8 11.2 7.0 29.63 EQ03 18.47 9.98 SP11 20.79 11.2 7.0 29.63 EQ04 18.48 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP08 20.49 11.2 7.0 29.63 EQ04 18.16 9.98 SP08 20.49 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 SP08 20.49 11.2 7.0 29.63 EQ09 18.47 9.78 10.05 31.0 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 9.78 10.05 31.0 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07	SP02	20.63	11.2	7.0	29.63	
SP07 20.81 11.2 7.0 29.63 EQ07 18.47 9.18 9.18 SP10 20.79 11.2 7.0 29.63 EQ10 18.46 9.18 SP09 20.63 11.2 7.0 29.63 EQ09 18.3 9.98 SP05 20.49 11.2 7.0 29.63 EQ05 18.16 9.98 SP12 20.63 11.2 7.0 29.63 EQ12 18.3 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP03 20.8 11.2 7.0 29.63 EQ01 18.46 9.98 SP11 20.79 11.2 7.0 29.63 EQ04 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.88 9.18 SP13 20.49 11.2 7.0 29.63 EQ06 18.3 9.98 <td< td=""><td></td><td></td><td>11.2</td><td></td><td>29.00</td><td></td></td<>			11.2		29.00	
EQ07 18.47 9.18 SP10 20.79 11.2 7.0 29.63 EQ10 18.46 9.18 SP09 20.63 11.2 7.0 29.63 EQ09 18.3 9.98 SP05 20.49 11.2 7.0 29.63 EQ05 18.16 9.98 SP12 20.63 11.2 7.0 29.63 EQ12 18.3 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP03 20.8 11.2 7.0 29.63 EQ03 18.47 9.98 SP11 20.79 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP08 20.49 11.2 7.0 29.63 EQ04 18.48 9.18 SP08 20.49 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 SP08 20.49 11.2 7.0 29.63 EQ09 18.47 9.78 9.18 29.63 EQ08 18.16 9.98 SP08 20.49 11.2 7.0 29.63 EQ09 18.47 9.78 9.18 29.63 EQ00 18.47 9.78 9.18 29.63 EQ00 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ06			11 2		29.63	
SP10 20.79 11.2 7.0 29.63 EQ10 18.46 9.18 9.18 SP09 20.63 11.2 7.0 29.63 EQ09 18.3 9.98 9.98 SP05 20.49 11.2 7.0 29.63 EQ05 18.16 9.98 SP12 20.63 11.2 7.0 29.63 EQ12 18.3 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP03 20.8 11.2 7.0 29.63 EQ03 18.47 9.98 SP11 20.79 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ13 18.16 9.98 SP13 20.49 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 <td></td> <td></td> <td>11.2</td> <td></td> <td>23.00</td> <td></td>			11.2		23.00	
EQ10			11.2		29.63	
SP09 20.63 11.2 7.0 29.63 EQ09 18.3 9.98 9.98 SP05 20.49 11.2 7.0 29.63 EQ05 18.16 9.98 SP12 20.63 11.2 7.0 29.63 EQ12 18.3 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP03 20.8 11.2 7.0 29.63 EQ03 18.47 9.98 SP11 20.79 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP13 20.49 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 201 18.47 9.78					20.00	
EQ09 18.3 9.98 SP05 20.49 11.2 7.0 29.63 EQ05 18.16 9.98 SP12 20.63 11.2 7.0 29.63 EQ12 18.3 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP03 20.8 11.2 7.0 29.63 EQ03 18.47 9.98 SP11 20.79 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP13 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP13 20.49 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 SP08 20.49 11.2 7.0 29.63 EQ00 18.47 9.78 9.18 29.63 EQ00 18.47 9.78 9.18 29.63 EQ01 18.47 9.78 10.05 31.0 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 144 18.13 12.94			11.2		29.63	
SP05 20.49 11.2 7.0 29.63 EQ05 18.16 9.98 SP12 20.63 11.2 7.0 29.63 EQ12 18.3 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP03 20.8 11.2 7.0 29.63 EQ03 18.47 9.98 SP11 20.79 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP13 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 201 18.47 9.78 10.05			—			
EQ05			11.2		29.63	
SP12 20.63 11.2 7.0 29.63 EQ12 18.3 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP03 20.8 11.2 7.0 29.63 EQ03 18.47 9.98 SP11 20.79 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP13 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 201 18.47 9.78 10.05 31.0 K=K @ EQ06 204 18.16 9.38 12.21 32.8 K=K @ EQ06						
EQ12 18.3 9.98 SP01 20.49 11.2 7.0 29.63 EQ01 18.16 9.98 SP03 20.8 11.2 7.0 29.63 EQ03 18.47 9.98 SP11 20.79 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP03 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 201 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.24 33.04 K=K @ EQ05 144 18.13			11.2		29.63	
EQ01 18.16 9.98 SP03 20.8 11.2 7.0 29.63 EQ03 18.47 9.98 SP11 20.79 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP13 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 EQ08 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94						
SP03 20.8 11.2 7.0 29.63 EQ03 18.47 9.98 9.98 SP11 20.79 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP13 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 201 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94	SP01	20.49	11.2	7.0	29.63	
EQ03 18.47 9.98 SP11 20.79 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP13 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 201 18.47 12.12 20.63 K=K @ EQ07 201 18.47 12.12 20.63 K=K @ EQ06 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94						
SP11 20.79 11.2 7.0 29.63 EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP13 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 201 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94		20.8	11.2		29.63	
EQ11 18.46 9.18 SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP13 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13						
SP04 20.81 11.2 7.0 29.63 EQ04 18.48 9.18 SP13 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94 12.94			11.2		29.63	
EQ04 18.48 9.18 SP13 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94						
SP13 20.49 11.2 7.0 29.63 EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94 12.94			11.2		29.63	
EQ13 18.16 9.98 SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94						
SP06 20.63 11.2 7.0 29.63 EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 X=K @ EQ06 X=K @ EQ06 204 18.16 9.38 12.41 33.04 X=K @ EQ05 144 18.13 12.94 X=K @ EQ05			11.2		29.63	
EQ06 18.3 9.98 SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94						
SP08 20.49 11.2 7.0 29.63 EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 K=K @ EQ06 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94			11.2		29.63	
EQ08 18.16 9.98 200 18.47 9.78 9.18 29.63 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94			44.0		00.00	
200 18.47 9.78 9.18 29.63 K=K @ EQ07 202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94			11.2		29.63	
202 18.47 9.78 10.05 31.0 K=K @ EQ07 201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94			0.70		20.02	V-V € F007
201 18.47 12.12 203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94						
203 18.3 9.38 12.23 32.8 K=K @ EQ06 204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94			9.70		31.0	K-K @ EQUI
204 18.16 9.38 12.41 33.04 K=K @ EQ05 144 18.13 12.94			0.38		32.8	K-K @ E006
144 18.13 12.94						
			9.50		33.04	N-N @ EQ03
146 18.13 13.15						
147 18.13 13.32						
148 18.13 13.52						
125 18.13 14.2						
126 15.0 16.79						
127 -32.25 40.15 250.0					250.0	
183 22.71 10.75						
114 19.21 12.33						
115 19.21 12.33	115	19.21		12.33		

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NODE	ANALYSIS ((cont.)
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	NODE ANALYSIS (COIR.)											
Node Tag	Elevation	Node Type	Pressure at Node	Discharge at Node	Notes							
116	19.21		12.34									
117	19.21		12.34									
118	19.21		12.35									
119	19.21		12.36									
120	19.21		12.36									
121	22.71		10.97									
122	20.21		13.16									
123	18.13		14.18									
124	18.13		14.18									
143	18.13		12.89									
142	18.13	0.00	12.85	22 55	V-V @ F042							
205	18.16	9.38	12.8	33.55	K=K @ EQ13							
206	18.3	9.38	12.73	33.47	K=K @ EQ12							
207	18.43		12.66									
141 208	18.43		12.66 12.66									
209	18.43 18.43		12.66									
140	18.43		12.66									
210	18.43		12.66									
139	18.13		12.79									
138	18.13		12.79									
137	18.13		12.79									
136	18.13		12.79									
135	18.13		12.79									
149	18.13		12.79									
150	20.3		11.85									
151	20.84		11.62									
152	21.04		11.53									
153	21.23		11.45									
154	21.38		11.38									
155	21.41		11.37									
156	21.6		11.29									
157	21.79		11.21									
158	21.98		11.12									
159	22.17		11.04									
160	22.79		10.77									
161	19.21		12.32									
105	19.21		12.32									
106	19.21		12.32									
107	19.21		12.32									
108	19.21		12.32									
109	19.21		12.32									
110	19.21		12.32									
111	19.21		12.32									
112	19.21		12.32									
113	19.21	0.70	12.32	20.10	K-K @ E007							
211	18.47	9.78	9.52	30.18	K=K @ EQ07							
213 212	18.47	9.78	9.57	30.26	K=K @ EQ07							
212 181	18.47 22.71		12.06 10.74									
214	18.3	9.38	12.17	32.72	K=K @ EQ09							
217	10.5	9.00	12.17	0L.1 L	11-11 W EQUE							

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NODE .	ANALYSIS	(cont.)
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	NODE ANAL 1919 (COIIC.)											
Node Tag	Elevation	Node Type	Pressure at Node	Discharge at Node	Notes							
215	18.16	9.38	12.34	32.94	K=K @ EQ08							
216	18.48	9.78	9.3	29.83	K=K @ EQ04							
218	18.48	9.78	9.87	30.73	K=K @ EQ04							
217	18.48	0.70	12.18	00.70	1. 1. @ 2401							
219	18.3	9.38	12.3	32.89	K=K @ EQ02							
220	18.16	9.38	12.48	33.13	K=K @ EQ01							
184	22.71	9.50	10.76	33.13	N-N @ LQUI							
221	18.47	9.78		31.7	K=K @ EQ07							
222		9.70	10.5	31.7	N-N @ EQUI							
	18.47	0.00	12.35	22.00	K-K & E000							
223	18.3	9.38	12.42	33.06	K=K @ EQ09							
224	18.16	9.38	12.54	33.21	K=K @ EQ08							
182	22.71		10.77		V V 0 = 2 V							
225	18.46	9.78	10.71	32.02	K=K @ EQ11							
226	18.46	9.78	10.71	32.02	K=K @ EQ11							
227	18.46	9.78	10.71	32.02	K=K @ EQ10							
228	18.46	9.78	10.71	32.02	K=K @ EQ11							
176	20.52		11.75									
175	22.71		10.81									
180	20.52		11.76									
179	20.01		11.98									
178	20.57		11.74									
177	22.71		10.81									
173	20.3		11.85									
174	22.79		10.77									
171	20.3		11.85									
172	22.79		10.77									
169	20.3		11.85									
170	22.79		10.77									
162	20.3		11.85									
163	20.85		11.61									
164	21.04		11.53									
165	21.23		11.45									
166	21.41		11.37									
167	21.6		11.29									
168	22.79		10.77									
134	20.3		11.85									
133	20.87		11.6									
132	21.04		11.53									
131	21.23		11.45									
130	21.41		11.37									
100	21.6		11.29									
101	21.79		11.21									
102	21.98		11.12									
103	22.17		11.04									
104	22.79		10.77									
185	22.73		10.8									
229	18.47	9.38	12.51	33.17	K=K @ EQ03							
230	18.3	9.38	12.6	33.29	K=K @ EQ02							
231	18.16	9.38	12.74	33.47	K=K @ EQ02 K=K @ EQ01							
186	22.71	9.30	10.84	JJ.41	11-11 W LQUI							
232	18.3	9.38	12.85	33.62	K=K @ EQ02							
232	10.3	9.30	12.00	JJ.UZ	N-N W LQ02							

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NODE ANALYSIS (cont.)

Node Tag	Elevation	Node Type	Pressure at Node	Discharge at Node	Notes	
233	18.16	9.38	12.97	33.77	K=K @ EQ01	
187	22.71		10.89		J	
188	20.21		12.57			
189	22.71		10.97			
190	20.21		13.16			
191	20.05		11.96			

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Publix Ho	ollywood	- Storage								Date 11-09-18
Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	****** Notes *****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf	
CD00	00.00	44.00	00.00	4	-	5.0	0.000	400	7.000	
SP02 :o	20.63	11.20	29.63	1	T	5.0 0.0	2.330 5.000	120	7.000 1.009	
EQ02	18.3		29.63	1.049		0.0	7.330	0.2693	1.974	Vel = 11.00
			0.0							
EQ02			29.63						9.983	K Factor = 9.38
SP07	20.81	11.20	29.63	1	E	2.0	2.330	120	7.000	
to EQ07	10 17		29.63	1.049		0.0 0.0	2.000 4.330	0.2695	1.013	Val = 11.00
EQUI	18.47		0.0	1.049		0.0	4.330	0.2093	1.167	Vel = 11.00
EQ07			29.63						9.180	K Factor = 9.78
SP10	20.79	11.20	29.63	1	E	2.0	2.330	120	7.000	
to						0.0	2.000		1.009	
EQ10	18.46		29.63	1.049		0.0	4.330	0.2693	1.166	Vel = 11.00
E0.40			0.0						0.475	1/ 5 / 0.70
EQ10	00.00	44.00	29.63			5 0	0.000	400	9.175	K Factor = 9.78
SP09 to	20.63	11.20	29.63	1	T	5.0 0.0	2.330 5.000	120	7.000 1.009	
EQ09	18.3		29.63	1.049		0.0	7.330	0.2693	1.974	Vel = 11.00
· · · · · · · · · · · · · · · · · · ·			0.0							
EQ09			29.63						9.983	K Factor = 9.38
SP05	20.49	11.20	29.63	1	Т	5.0	2.330	120	7.000	
to EOOE	10 16		29.63	1.049		0.0 0.0	5.000 7.330	0.2602	1.009	Val = 11.00
EQ05	18.16		0.0	1.049		0.0	7.330	0.2693	1.974	Vel = 11.00
EQ05			29.63						9.983	K Factor = 9.38
SP12	20.63	11.20	29.63	1	Т	5.0	2.330	120	7.000	
to						0.0	5.000		1.009	
EQ12	18.3		29.63	1.049		0.0	7.330	0.2693	1.974	Vel = 11.00
EO12			0.0						0.000	K Factor - 0.20
EQ12	20.40	14.00	29.63	1	т	E 0	2 220	100	9.983	K Factor = 9.38
SP01 to	20.49	11.20	29.63	1	T	5.0 0.0	2.330 5.000	120	7.000 1.009	
EQ01	18.16		29.63	1.049		0.0	7.330	0.2693	1.974	Vel = 11.00
			0.0							
EQ01			29.63						9.983	K Factor = 9.38
SP03	20.8	11.20	29.63	1	Т	5.0	2.330	120	7.000	
to EQ03	18.47		29.63	1.049		0.0 0.0	5.000 7.330	0.2693	1.009 1.974	Vel = 11.00
ニマいろ	10.47		0.0	1.049		0.0	1.330	0.2093	1.8/4	vei – 11.00
EQ03			29.63						9.983	K Factor = 9.38
SP11	20.79	11.20	29.63	1	E	2.0	2.330	120	7.000	
to						0.0	2.000		1.009	
EQ11	18.46		29.63	1.049		0.0	4.330	0.2693	1.166	Vel = 11.00
E044			0.0						0.475	I/ E
EQ11	00.01	44.00	29.63	4		0.0	0.000	400	9.175	K Factor = 9.78
SP04 to	20.81	11.20	29.63	1	Е	2.0 0.0	2.330 2.000	120	7.000 1.009	
EQ04	18.48		29.63	1.049		0.0	4.330	0.2693	1.009	Vel = 11.00
			_5.00					0.200		

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Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	****** Notes	****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf	110100	
EQ04			0.0 29.63						9.175	K Factor = 9.78	
SP13	20.49	11.20	29.63	1	T	5.0	2.330	120	7.000	1010101 0.10	
TO 40	40.40		00.00	4 0 4 0		0.0	5.000	0.0000	1.009	V-I - 44.00	
EQ13	18.16		29.63 0.0	1.049		0.0	7.330	0.2693	1.974	Vel = 11.00	
EQ13			29.63						9.983	K Factor = 9.38	
SP06	20.63	11.20	29.63	1	T	5.0	2.330	120	7.000		
o EQ06	18.3		29.63	1.049		0.0 0.0	5.000 7.330	0.2693	1.009 1.974	Vel = 11.00	
			0.0								
EQ06	00.40	44.00	29.63				0.000	400	9.983	K Factor = 9.38	
SP08 to	20.49	11.20	29.63	1	Т	5.0 0.0	2.330 5.000	120	7.000 1.009		
EQ08	18.16		29.63	1.049		0.0	7.330	0.2693	1.974	Vel = 11.00	
F000			0.0						0.002	V Factor = 0.20	
EQ08 200	18.47	9.78	29.63 29.63	1	T	5.0	5.920	120	9.983 9.180	K Factor = 9.38 K = K @ EQ07	
to		3.70			•	0.0	5.000		0.0		
201	18.47		29.63	1.049		0.0	10.920	0.2692	2.940	Vel = 11.00	
201			0.0 29.63						12.120	K Factor = 8.51	
202	18.47	9.78	31.00	1	Т	5.0	2.080	120	10.048	K = K @ EQ07	
to 201	18.47		31.0	1.049		0.0 0.0	5.000 7.080	0.2927	0.0 2.072	Vel = 11.51	
201	18.47		1.22	2.5		0.0	8.160	120	12.120	ver = 11.51	
io o						0.0	0.0		0.074		
203	18.3	0.00	32.22	2.469		0.0	8.160	0.0049	0.040	Vel = 2.16	
203 to	18.3	9.38	32.81	2.5		0.0 0.0	6.460 0.0	120	12.234 0.061	K = K @ EQ06	
204	18.16		65.03	2.469		0.0	6.460	0.0178	0.115	Vel = 4.36	
204 to	18.16	9.38	33.03	2.5	T	12.0 0.0	1.570 12.000	120	12.410 0.013	K = K @ EQ05	
144	18.13		98.06	2.469		0.0	13.570	0.0381	0.517	Vel = 6.57	
144	18.13		362.05	6		0.0	13.040	120	12.940		
to 145	18.13		460.11	6.357		0.0 0.0	0.0 13.040	0.0067	0.0 0.087	Vel = 4.65	
145	18.13		99.84	6		0.0	13.330	120	13.027		
io				6 057		0.0	0.0		0.0	Vol = - 5.00	
146 146	18.13 18.13		559.95 85.79	6.357 6		0.0	13.330 13.330	0.0095 120	0.127 13.154	Vel = 5.66	
io						0.0	0.0		0.0		
147	18.13		645.74	6.357		0.0	13.330	0.0125	0.166	Vel = 6.53	
147 to	18.13		78.12	6		0.0 0.0	12.990 0.0	120	13.320 0.0		
148	18.13		723.86	6.357		0.0	12.990	0.0154	0.200	Vel = 7.32	
148	18.13		28.19	6	Т	37.72	3.290	120	13.520		
0	18.13		752.05	6.357		0.0 0.0	37.720 41.010	0.0165	0.0 0.678	Vel = 7.60	

Final Calculations: Hazen-Williams

PREPARED FOR:

Page Date 10 Publix Hollywood - Storage 11-09-18

Publix H	ollywood	- Storag	е							Date	e 11-09	9-18
Node1	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	*****	Notes	*****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf			
125 to	18.13		87.49	6	3E	52.808	8.430 52.808	120	14.198 1.356	\/-I - 0	40	
126 126	15 15		839.54 0.0	6.357 6	E	0.0 17.603	61.238 18.000	0.0202 120	1.239 16.793	Vel = 8.	49	
to	15		0.0	O	⊏ 2Fsp	0.0	75.441	120	21.464	* * Fixed	Loss = 1	
127	-32.250)	839.54	6.357		50.294 7.544	93.441	0.0202	1.891	Vel = 8.	49	
			250.00							Qa = 25		
127	10.1=	─	1089.54			40.0	100.050	400	40.148	K Factor	= 171.95	
201 to	18.47		28.41	2.5	3E	18.0 0.0	102.950 18.000	120	12.120 -1.836			
183	22.71		28.41	2.469		0.0	120.950	0.0039	0.466	Vel = 1.	90	
183	22.71		0.0	2.5	Т	12.0	3.500	120	10.750			
to	10.01		00.44	0.400		0.0	12.000	0.0000	1.516			
114	19.21		28.41	2.469		0.0	15.500	0.0039	0.060	Vel = 1.	90	
114 to	19.21		57.11	6		0.0 0.0	13.040 0.0	120	12.326 0.0			
115	19.21		85.52	6.357		0.0	13.040	0.0003	0.004	Vel = 0.	86	
115	19.21		26.74	6		0.0	13.330	120	12.330			
to	10.01		440.00	0.057		0.0	0.0	0.0005	0.0	V 1 4	40	
116	19.21		112.26	6.357		0.0	13.330	0.0005	0.006	Vel = 1.	13	
116 to	19.21		14.15	6		0.0 0.0	13.330 0.0	120	12.336 0.0			
117	19.21		126.41	6.357		0.0	13.330	0.0006	0.008	Vel = 1.	28	
117	19.21		-10.73	6		0.0	12.990	120	12.344			
to	10.21		115 60	6 257		0.0	0.0	0.0005	0.0	\/ol = 1	17	
118 118	19.21 19.21		115.68 -28.19	6.357 6		0.0	12.990 13.250	0.0005 120	0.007 12.351	Vel = 1.	17	
to	19.21		-20.19	O		0.0	0.0	120	0.0			
119	19.21		87.49	6.357		0.0	13.250	0.0003	0.004	Vel = 0.	88	
119	19.21		-43.77	6		0.0	13.250	120	12.355			
to 120	19.21		43.72	6.357		0.0 0.0	0.0 13.250	0.0001	0.0 0.001	Vel = 0.	11	
120	19.21		0.0	2.5	T	12.0	3.500	120	12.356	v G1 - U.	- 	
to	10.21		0.0	2.0	•	0.0	12.000	120	-1.516			
_121	22.71		43.72	2.469		0.0	15.500	0.0086	0.133	Vel = 2.	93	
121	22.71		0.0	2.5	2E	12.0	117.050	120	10.973			
to 122	20.21		43.72	2.469		0.0 0.0	12.000 129.050	0.0086	1.083 1.104	Vel = 2.	93	
122	20.21		0.0	2.403	Т	12.0	2.080	120	13.160	ΨOI - Z.		
to					-	0.0	12.000		0.901			
_123	18.13		43.72	2.469		0.0	14.080	0.0086	0.121	Vel = 2.	93	
123	18.13		0.0	6		0.0	13.250	120	14.182			
to 124	18.13		43.72	6.357		0.0 0.0	0.0 13.250	0.0001	0.0 0.001	Vel = 0.	44	
124	18.13		43.77	6	Т	37.72	9.960	120	14.183			
to					•	0.0	37.720		0.0			
125	18.13		87.49	6.357		0.0	47.680	0.0003	0.015	Vel = 0.	88	

base of riser sprinkler demand

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Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	****** Notes *****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf	,,,,,,
125			0.0 87.49						14.198	K Factor = 23.22
144 to	18.13		-362.05	6		0.0 0.0	12.880 0.0	120	12.940 0.0	
143	18.13		-362.05	6.357		0.0	12.880	-0.0043	-0.055	Vel = 3.66
143 to	18.13		77.05	6		0.0 0.0	12.880 0.0	120	12.885 0.0	
142	18.13		-285.0	6.357		0.0	12.880	-0.0027	-0.035	Vel = 2.88
142	18.13		96.04	6	E	17.603 0.0	10.570 17.603	120	12.850 -0.013	
to 205	18.16		-188.96	6.357		0.0	28.173	-0.0013	-0.013	Vel = 1.91
205	18.16	9.38	33.56	6		0.0	6.460	120	12.801	K = K @ EQ13
to 206	18.3		-155.4	6.357		0.0 0.0	0.0 6.460	-0.0009	-0.061 -0.006	Vel = 1.57
206 to	18.3	9.38	33.47	6	Е	17.603 0.0	7.710 17.603	120	12.734 -0.056	K = K @ EQ12
207	18.43		-121.93	6.357		0.0	25.313	-0.0006	-0.014	Vel = 1.23
207 to	18.43		32.02	6		0.0 0.0	2.920 0.0	120	12.664 0.0	
141	18.43		-89.91	6.357		0.0	2.920	-0.0007	-0.002	Vel = 0.91
141	18.43		0.94	6		0.0 0.0	5.130 0.0	120	12.662 0.0	
to 208	18.43		-88.97	6.357		0.0	5.130	-0.0002	-0.001	Vel = 0.90
208	18.43		32.02	6		0.0	8.040	120	12.661	
to 209	18.43		-56.95	6.357		0.0 0.0	0.0 8.040	-0.0001	0.0 -0.001	Vel = 0.58
209	18.43		32.02	6		0.0	2.120	120	12.660	
to 140	18.43		-24.93	6.357		0.0 0.0	0.0 2.120	0	0.0 0.0	Vel = 0.25
140	18.43		-0.95	6		0.0	5.920	120	12.660	V 01 0.20
to 210	18.43		-25.88	6.357		0.0 0.0	0.0 5.920	0	0.0 0.0	Vel = 0.26
210	18.43		32.02	6	2E	35.205	22.860	120	12.660	VCI - 0.20
to	10 12		6.14	6.357		0.0	35.205	0	0.130	Val = 0.06
139 139	18.13 18.13		-1.00	6.357		0.0	58.065 11.500	0 120	0.0 12.790	Vel = 0.06
to						0.0	0.0		0.0	V.I. 0.05
138 138	18.13 18.13		5.14 -1.03	6.357		0.0	11.500 13.670	0 120	0.0 12.790	Vel = 0.05
to						0.0	0.0		0.0	
137	18.13		4.11	6.357		0.0	13.670	0	0.0	Vel = 0.04
137 to	18.13		-1.02	6		0.0 0.0	13.670 0.0	120	12.790 0.0	
136	18.13		3.09	6.357		0.0	13.670	0	0.0	Vel = 0.03
136 to	18.13		-1.02	6		0.0 0.0	13.660 0.0	120	12.790 0.0	
_135	18.13		2.07	6.357		0.0	13.660	0	0.0	Vel = 0.02
135	18.13		-1.01	6		0.0 0.0	13.660 0.0	120	12.790 0.0	
to 149	18.13		1.06	6.357		0.0	13.660	0	0.0	Vel = 0.01

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ublix i id	ony wood	- Otorage								Date	5 11-00	<i>7</i> -10
Node1	Elev1	K	Qa	Nom	Fitting		Pipe	CFact	Pt			
to			•		or		Ftngs	D. (T.)	Pe	*****	Notes	*****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf			
149	18.13		0.0	2.5	E	8.237	2.170	120	12.790			
to 150	20.3		1.06	2.635	T	16.474 0.0	24.711 26.881	0	-0.940 0.0	Vel = 0.	06	
150	20.3		0.0	2.5		0.0	25.400	120	11.850			
o 151	20.84		1.06	2.635		0.0 0.0	0.0 25.400	0	-0.234 0.0	Vel = 0.	06	
151	20.84		0.0	2.5		0.0	9.510	120	11.616			
o 152	21.04		1.06	2.635		0.0 0.0	0.0 9.510	0.0001	-0.087 0.001	Vel = 0.	06	
152	21.04		0.0	2.5		0.0	8.790	120	11.530			
o 153	21.23		1.06	2.635		0.0 0.0	0.0 8.790	0	-0.082 0.0	Vel = 0.	06	
153	21.23		0.0	2.033		0.0	7.380	120	11.448	v Gi = U.		
0						0.0	0.0		-0.065	\	00	
154 154	21.38 21.38		1.06 0.0	2.635 2.5		0.0	7.380 1.090	0 120	0.0 11.383	Vel = 0.	06	
o			0.0			0.0	0.0		-0.013			
155	21.41		1.06	2.469		0.0	1.090	0	0.0	Vel = 0.	07	
155 o	21.41		0.0	2.5		0.0 0.0	9.120 0.0	120	11.370 -0.082			
156	21.6		1.06	2.469		0.0	9.120	-0.0001	-0.001	Vel = 0.	07	
156	21.6		0.0	2.5		0.0	8.790	120	11.287			
to 157	21.79		1.06	2.469		0.0 0.0	0.0 8.790	0	-0.082 0.0	Vel = 0.	07	
157	21.79		0.0	2.5		0.0	8.790	120	11.205			
to 158	21.98		1.06	2.469		0.0 0.0	0.0 8.790	0	-0.082 0.0	Vel = 0.	07	
158	21.98		0.0	2.5		0.0	8.790	120	11.123	V C1 0.	01	
to						0.0	0.0		-0.082	\/-I - 0	07	
159 159	22.17 22.17		1.06 0.0	2.469 2.5	E	0.0 6.0	8.790 29.390	0 120	0.0 11.041	Vel = 0.	07	
o					_	0.0	6.000		-0.269			
160	22.79		1.06	2.469	_	0.0	35.390	0	0.0	Vel = 0.	07	
160 to	22.79		0.0	2.5	T	16.474 0.0	3.580 16.474	120	10.772 1.550			
161	19.21		1.06	2.635		0.0	20.054	0	0.001	Vel = 0.	06	
161 to	19.21		0.0	6		0.0 0.0	13.670 0.0	120	12.323 0.0			
105	19.21		1.06	6.357		0.0	13.670	0	0.0	Vel = 0.	01	
105	19.21		1.01	6		0.0	13.660	120	12.323			
to 106	19.21		2.07	6.357		0.0 0.0	0.0 13.660	0	0.0 0.0	Vel = 0.	02	
106	19.21		1.02	6		0.0	13.670	120	12.323			
to 107	19.21		3.09	6.357		0.0 0.0	0.0 13.670	0	0.0 0.0	Vel = 0.	U3	
107	19.21		1.02	6.357		0.0	13.670	120	12.323	vei – U.	03	
to						0.0	0.0		0.0			
108	19.21		4.11	6.357		0.0	13.670	0	0.0	Vel = 0.	04	

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		- Storage								
Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	****** Notes *****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf	Notes
108 to	19.21		1.03	6		0.0	13.660 0.0	120	12.323 0.0	
109	19.21		5.14	6.357		0.0	13.660	0	0.0	Vel = 0.05
109	19.21		1.00	6		0.0	13.790	120	12.323	
to 110	19.21		6.14	6.357		0.0 0.0	0.0 13.790	0	0.0 0.0	Vel = 0.06
110	19.21		0.94	6		0.0	13.800	120	12.323	
to	40.04		7.00	C 057		0.0	0.0	0	0.0	Val - 0.07
111 111	19.21 19.21		7.08 -0.94	6.357		0.0	13.800 13.330	0 120	0.0 12.323	Vel = 0.07
to	13.21		-0.94	U		0.0	0.0	120	0.0	
112	19.21		6.14	6.357		0.0	13.330	0	0.0	Vel = 0.06
112 to	19.21		30.05	6		0.0 0.0	12.880 0.0	120	12.323 0.0	
113	19.21		36.19	6.357		0.0	12.880	0.0001	0.001	Vel = 0.37
113	19.21		20.92	6		0.0	12.870	120	12.324	
to 114	19.21		57.11	6.357		0.0 0.0	0.0 12.870	0.0002	0.0 0.002	Vel = 0.58
114	19.21		0.0	0.001		0.0	12.070	0.0002	0.002	Vei = 0.30
114			57.11						12.326	K Factor = 16.27
211	18.47	9.78	30.18	1	T	5.0	4.120	120	9.520	K = K @ EQ07
to 212	18.47		30.18	1.049		0.0 0.0	5.000 9.120	0.2785	0.0 2.540	Vel = 11.20
			0.0			0.0		0.2.00		
212			30.18						12.060	K Factor = 8.69
213	18.47	9.78	30.26	1	T	5.0 0.0	3.880 5.000	120	9.574 0.0	K = K @ EQ07
to 212	18.47		30.26	1.049		0.0	8.880	0.2800	2.486	Vel = 11.23
212	18.47		-0.21	2.5	3E	18.0	103.040	120	12.060	
to 181	22.71		30.05	2.469		0.0 0.0	18.000	0.0043	-1.836 0.517	Vel = 2.01
181	22.71		0.0	2.409	Т	12.0	121.040 3.500	120	10.741	Vei - 2.01
to					•	0.0	12.000		1.516	
112	19.21		30.05	2.469		0.0	15.500	0.0043	0.066	Vel = 2.01
112			0.0 30.05						12.323	K Factor = 8.56
212	18.47		30.39	2.5		0.0	8.160	120	12.060	40.01
to						0.0	0.0		0.074	V 1 004
214	18.3	0.20	30.39	2.469		0.0	8.160 6.460	0.0043	0.035	Vel = 2.04
214 to	18.3	9.38	32.71	2.5		0.0 0.0	0.0	120	12.169 0.061	K = K @ EQ09
215	18.16		63.1	2.469		0.0	6.460	0.0169	0.109	Vel = 4.23
215	18.16	9.38	32.95	2.5	Т	12.0	1.570	120	12.339	K = K @ EQ08
to 142	18.13		96.05	2.469		0.0 0.0	12.000 13.570	0.0367	0.013 0.498	Vel = 6.44
			0.0							
142			96.05						12.850	K Factor = 26.79
216 to	18.48	9.78	29.83	1	Т	5.0 0.0	5.550 5.000	120	9.299 0.0	K = K @ EQ04
i.	18.48		29.83	1.049		0.0	10.550	0.2727	2.877	Vel = 11.07

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		- Storage								Date		- 10
Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	*****	Notes	*****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf			
217			0.0 29.83						12.176	K Factor :	= 8.55	
218	18.48	9.78	30.73	1	Т	5.0	3.010	120	9.868	K = K @ I		
0	10.40	3.70	30.73	•	•	0.0	5.000	120	0.0	N - N @ 1	-007	
217	18.48		30.73	1.049		0.0	8.010	0.2881	2.308	Vel = 11.	41	
217	18.48		3.09	2.5		0.0	8.230	120	12.176			
0 210	10.2		22.02	2.460		0.0	0.0	0.0052	0.078	Val = 2.0	7	
219 219	18.3 18.3	9.38	33.82 32.89	2.469 2.5		0.0	8.230 6.460	0.0053 120	0.044 12.298	Vel = 2.2		
219 0	10.3	9.30	32.09	2.5		0.0	0.400	120	0.061	K = K @ I	=Q02	
220	18.16		66.71	2.469		0.0	6.460	0.0186	0.120	Vel = 4.4	1 7	
220	18.16	9.38	33.13	2.5	Т	12.0	1.570	120	12.479	K = K @ I	EQ01	
0	40.40		00.01	0.425		0.0	12.000	0.0001	0.013			
145	18.13		99.84	2.469		0.0	13.570	0.0394	0.535	Vel = 6.6	5 9	
145			0.0 99.84						13.027	K Factor :	- 27.66	
217	18.48		26.75	2.5	3E	18.0	102.880	120	12.176	IX I actor -	- 27.00	
0	10.40		20.75	2.5	3E	0.0	18.000	120	-1.832			
184	22.71		26.75	2.469		0.0	120.880	0.0034	0.416	Vel = 1.7	79	
184	22.71		0.0	2.5	Т	12.0	3.500	120	10.760			
0	10.01					0.0	12.000		1.516			
115	19.21		26.75	2.469		0.0	15.500	0.0035	0.054	Vel = 1.7	7 9	
115			0.0 26.75						12.330	K Factor :	- 7.62	
221	18.47	9.78	31.70	1	T	5.0	1.040	120	10.503	K = K @ I	EQ07	
0	40.47		24.7	1 0 1 0		0.0	5.000	0.0054	0.0	Val - 44	77	
222	18.47		31.7	1.049		0.0	6.040	0.3051	1.843	Vel = 11.	11	
222 o	18.47		-20.92	2.5		0.0 0.0	8.160 0.0	120	12.346 0.074			
223	18.3		10.78	2.469		0.0	8.160	0.0006	0.005	Vel = 0.7	7 2	
223	18.3	9.38	33.05	2.5		0.0	6.460	120	12.425	K = K @ I		
0						0.0	0.0		0.061			
224	18.16		43.83	2.469		0.0	6.460	0.0085	0.055	Vel = 2.9		
224	18.16	9.38	33.22	2.5	Т	12.0	1.570	120	12.541	K = K @ I	EQ08	
o 143	18.13		77.05	2.469		0.0 0.0	12.000 13.570	0.0244	0.013 0.331	Vel = 5.1	16	
140	10.10		0.0	2.400		0.0	10.070	0.02	0.001	V C1 O.		
143			77.05						12.885	K Factor :	= 21.46	
222	18.47		20.92	2.5	3E	18.0	103.030	120	12.346			
0						0.0	18.000		-1.836			
182	22.71		20.92	2.469		0.0	121.030	0.0022	0.264	Vel = 1.4	10	
182	22.71		0.0	2.5	Т	12.0	3.500	120	10.774			
o 113	19.21		20.92	2.469		0.0 0.0	12.000 15.500	0.0022	1.516 0.034	Vel = 1.4	ın	
110	10.21		0.0	2.403		0.0	10.000	0.0022	0.004	V C1 - 1.5	FU	
113			20.92						12.324	K Factor :	= 5.96	
225	18.46	9.78	32.02	1	Т	5.0	1.230	120	10.711	K = K @ I		
	•					0.0	5.000		0.013			
o 209	18.43		32.02	1.049		0.0	6.230	0.3108	1.936	Vel = 11.		

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Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	*****	Notes	****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf			
209			0.0 32.02						12.660	K Factor =	: 9 NN	
226	18.46	9.78	32.02	1	Т	5.0	1.230	120	10.712	K = K @ E		
io .		00			•	0.0	5.000		0.013			
208	18.43		32.02	1.049		0.0	6.230	0.3108	1.936	Vel = 11.8	39	
208			0.0 32.02						12.661	K Factor =	9 00	
227	18.46	9.78	32.02	1	Т	5.0	1.230	120	10.711	K = K @ E		
0						0.0	5.000		0.013			
210	18.43		32.02	1.049		0.0	6.230	0.3108	1.936	Vel = 11.8	39	
210			0.0 32.02						12.660	K Factor =	9.00	
228	18.46	9.78	32.02	1	Т	5.0	1.230	120	10.714	K = K @ E		
io o						0.0	5.000		0.013	_		
207	18.43		32.02	1.049		0.0	6.230	0.3109	1.937	Vel = 11.8	39	
207			0.0 32.02						12.664	K Factor =	9.00	
140	18.43		0.94	2.5	T	12.0	2.080	120	12.660		0.00	
to						0.0	12.000		-0.905		_	
176	20.52		0.94	2.469	0	0.0	14.080	0	0.0	Vel = 0.0	6	
176 to	20.52		0.0	2.5	8E	48.0 0.0	111.160 48.000	120	11.755 -0.948			
175	22.71		0.94	2.469		0.0	159.160	0	0.0	Vel = 0.0	6	
175	22.71		0.0	2.5	Т	12.0	3.500	120	10.807			
to 110	19.21		0.94	2.469		0.0 0.0	12.000 15.500	0	1.516 0.0	Vel = 0.0	6	
110	10.21		0.0	2.400		0.0	10.000		0.0	VCI - 0.0	0	
110			0.94						12.323	K Factor =	0.27	
141	18.43		-0.95	2.5	Т	12.0	2.080	120	12.662			
o 180	20.52		-0.95	2.469		0.0 0.0	12.000 14.080	0	-0.905 0.0	Vel = 0.0	6	
180	20.52		0.0	2.403	4E	24.0	26.140	120	11.757	Vei - 0.0	0	
to						0.0	24.000		0.221			
179	20.01		-0.95	2.469		0.0	50.140	0	0.0	Vel = 0.0	6	
179 to	20.01		0.61	2.5	3T E	36.0 6.0	35.340 42.000	120	11.978 -0.243			
178	20.57		-0.34	2.469	_	0.0	77.340	0	0.0	Vel = 0.0	2	
178	20.57		-0.61	2.5	8E	48.0	62.430	120	11.735			
to 177	22.74		0.05	0.400		0.0	48.000	0	-0.927	\/al = 0.0	6	
177 177	22.71 22.71		-0.95 0.0	2.469 2.5	T	0.0 12.0	110.430 3.500	0 120	0.0 10.808	Vel = 0.0	O	
177	ZZ.1 I		0.0	2.0	ı	0.0	12.000	120	1.516			
111	19.21		-0.95	2.469		0.0	15.500	-0.0001	-0.001	Vel = 0.0	6	
111			0.0						10 000	V =====	. 0.07	
111 139	18.13		-0.95 1.00	2 F	T	12.0	2.170	120	12.323 12.790	K Factor =	-0.27	
139	10.13		1.00	2.5	I	12.0 0.0	12.000	120	-0.940			
173	20.3		1.0	2.469		0.0	14.170	0	0.0	Vel = 0.0	7	

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Jily WOOG	- Storage								Date 11-09-18
Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	****** Notes *****
Elev2	Fact	Qt	Act	Eqiv	Len	Total	Pf/Ft	Pf	
20.3		0.0	2.5	4E	24.0	119,220	120	11.850	
					0.0	24.000		-1.078	
									Vel = 0.07
22.79		0.0	2.5	l			120		
19.21		1.0	2.469		0.0	15.580	0	0.0	Vel = 0.07
		0.0							
		1.00						12.323	K Factor = 0.28
18.13		1.03	2.5	Т	12.0	2.170	120	12.790	
20 3		1 03	2 460				Λ		Vel = 0.07
				2F					v Gi = 0.0 <i>1</i>
20.0		0.0	۷.5	- L		12.000	120	-1.078	
22.79		1.03	2.469		0.0	129.050	0	0.0	Vel = 0.07
22.79		0.0	2.5	Т	12.0	3.580	120	10.772	
40.04		4.00	0.400				0.0004		\/ L 0.07
19.21			2.469		0.0	15.580	0.0001	0.001	Vel = 0.07
								12 323	K Factor = 0.29
18 13			2.5	т	12 0	2 170	120		1
10.10		1.02	2.0	•			120		
20.3		1.02	2.469		0.0	14.170	0	0.0	Vel = 0.07
20.3		0.0	2.5	2E	12.0	117.040	120	11.850	
00.70		4.00	0.400				0		\/-I = 0.07
				_					Vel = 0.07
22.79		0.0	2.5	ı			120		
19.21		1.02	2.469				0.0001	0.001	Vel = 0.07
		0.0 1.02						12.323	K Factor = 0.29
18.13		1.01	2.5	Т	12.0	2.170	120	12.790	
					0.0	12.000	_	-0.940	
									Vel = 0.07
20.3		0.0	2.5	Е			120		
20.85		1.01	2 469				0		Vel = 0.07
									7.01 0.01
20.00		0.0	2.0		0.0	0.0	120	-0.082	
21.04		1.01	2.469		0.0	8.790	0	0.0	Vel = 0.07
21.04		0.0	2.5		0.0	8.790	120	11.530	
24.02		1.04	0.400				0		Val = 0.07
21.23		1.01	2.469 2.5		0.0	8.790	0	0.0	Vel = 0.07
			ノカ		0.0	8.470	120	11.448	
21.23		0.0	2.0		0 በ	() ()		-() (1/X	
		1.01	2.469		0.0 0.0	0.0 8.470	0	-0.078 0.0	Vel = 0.07
21.23							0 120		Vel = 0.07
	Elev2 20.3 22.79 19.21 18.13 20.3 22.79 19.21 18.13 20.3 22.79 19.21 18.13 20.3 22.79 19.21 18.13 20.3 20.3 22.79 22.79 19.21	Elev2 Fact 20.3 22.79 22.79 19.21 18.13 20.3 22.79 22.79 19.21 18.13 20.3 20.3 20.3 20.3 20.79 22.79 19.21 18.13 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3	Elev2 Fact Qt 20.3 0.0 22.79 1.0 22.79 0.0 19.21 1.00 18.13 1.03 20.3 1.03 20.3 0.0 22.79 1.03 22.79 1.03 22.79 0.0 19.21 1.03 22.79 1.03 22.79 1.03 22.79 1.03 22.79 0.0 19.21 1.02 20.3 1.02 20.3 1.02 20.3 1.02 20.3 1.02 20.3 1.02 20.3 1.02 20.3 1.02 20.3 1.02 20.3 1.02 20.3 1.02 20.3 1.02 20.3 1.02 20.3 1.02 20.3 1.01 20.3 1.01 20.3 1.01 20.3 1.01 20.3 1.01 20.85 1.01 20.85 0.0 21.04 1.01	Elev2 Fact Qt Act 20.3 0.0 2.5 22.79 1.0 2.469 22.79 0.0 2.5 19.21 1.0 2.469 0.0 1.00 18.13 1.03 2.469 20.3 1.03 2.469 20.3 2.469 22.79 1.03 2.469 2.5 19.21 1.03 2.469 2.5 20.3 1.02 2.469 20.3 1.02 2.469 22.79 1.02 2.469 22.79 0.0 2.5 19.21 1.02 2.469 22.79 0.0 2.5 19.21 1.02 2.469 20.3 1.01 2.469 20.3 1.01 2.469 20.3 1.01 2.469 20.3 1.01 2.469 20.3 1.01 2.469 20.3 1.01 2.469 20.3 1.01 2.469 20.85 1.01 2.	Elev2 Fact Qt Act Eqiv 20.3 0.0 2.5 4E 22.79 1.0 2.469	Elev2 Fact Qt Act Eqiv Len	Elev2 Fact Qt Act Eqiv Len Total	Elev2 Fact Qt Act Eqiv Len Total Pf/Ft	Pe

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	•	- Storage										
Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Etnas	CFact	Pt Pe	*****	Notes	*****
Node2	Elev2	Fact	Qt	Act	Eqiv	Len	Ftngs Total	Pf/Ft	Pf		Notes	
167	21.6		0.0	2.5	E	6.0	55.760	120	11.287			
to 168	22.79		1.01	2.469		0.0 0.0	6.000 61.760	0	-0.515 0.0	Vel = 0.0	17	
168 o	22.79		0.0	2.5	Т	12.0 0.0	3.580 12.000	120	10.772 1.550			
106	19.21		1.01	2.469		0.0	15.580	0.0001	0.001	Vel = 0.0)7	
106			0.0 1.01						12.323	K Factor =	- 0.29	
135	18.13		1.01	2.5	Т	12.0	2.170	120	12.790		<u> </u>	
o 134	20.3		1.01	2.469		0.0 0.0	12.000 14.170	0	-0.940 0.0	Vel = 0.0	7	
134	20.3		0.0	2.5	Е	6.0	26.910	120	11.850			
o 133	20.87		1.01	2.469		0.0 0.0	6.000 32.910	0	-0.247 0.0	Vel = 0.0)7	
133	20.87		0.0	2.5		0.0	8.000	120	11.603			
o 132	21.04		1.01	2.469		0.0 0.0	0.0 8.000	0.0001	-0.074 0.001	Vel = 0.0	7	
132 o	21.04		0.0	2.5		0.0 0.0	8.790 0.0	120	11.530 -0.082			
131	21.23		1.01	2.469		0.0	8.790	0	0.0	Vel = 0.0)7	
131 :o	21.23		0.0	2.5		0.0 0.0	8.470 0.0	120	11.448 -0.078			
130	21.41		1.01	2.469		0.0	8.470	0	0.0	Vel = 0.0)7	
130 to	21.41		0.0	2.5		0.0 0.0	9.120 0.0	120	11.370 -0.082			
100	21.6		1.01	2.469		0.0	9.120	-0.0001	-0.001	Vel = 0.0)7	
100 :o	21.6		0.0	2.5		0.0 0.0	8.800 0.0	120	11.287 -0.082			
101	21.79		1.01	2.469		0.0	8.800	0	0.0	Vel = 0.0)7	
101 o	21.79		0.0	2.5		0.0 0.0	8.790 0.0	120	11.205 -0.082			
102	21.98		1.01	2.469		0.0	8.790	0	0.0	Vel = 0.0)7	
102 :o	21.98		0.0	2.5		0.0 0.0	8.790 0.0	120	11.123 -0.082			
103	22.17		1.01	2.469		0.0	8.790	0	0.0	Vel = 0.0)7	
103 to	22.17		0.0	2.5	E	6.0 0.0	29.390 6.000	120	11.041 -0.269			
104	22.79		1.01	2.469		0.0	35.390	0	0.0	Vel = 0.0)7	
104 o	22.79		0.0	2.5	Т	12.0 0.0	3.580 12.000	120	10.772 1.550			
105	19.21		1.01	2.469		0.0	15.580	0.0001	0.001	Vel = 0.0)7	
105			0.0 1.01						12.323	K Factor =	0.29	
116	19.21		-14.15	2.5	Т	12.0 0.0	3.500 12.000	120	12.336 -1.516			
to 185	22.71		-14.15	2.469		0.0	15.500	-0.0010	-0.016	Vel = 0.9)5	
185 to	22.71		0.0	2.5	3E	18.0 0.0	103.330 18.000	120	10.804 1.836			
						V.V.			1.0.00			

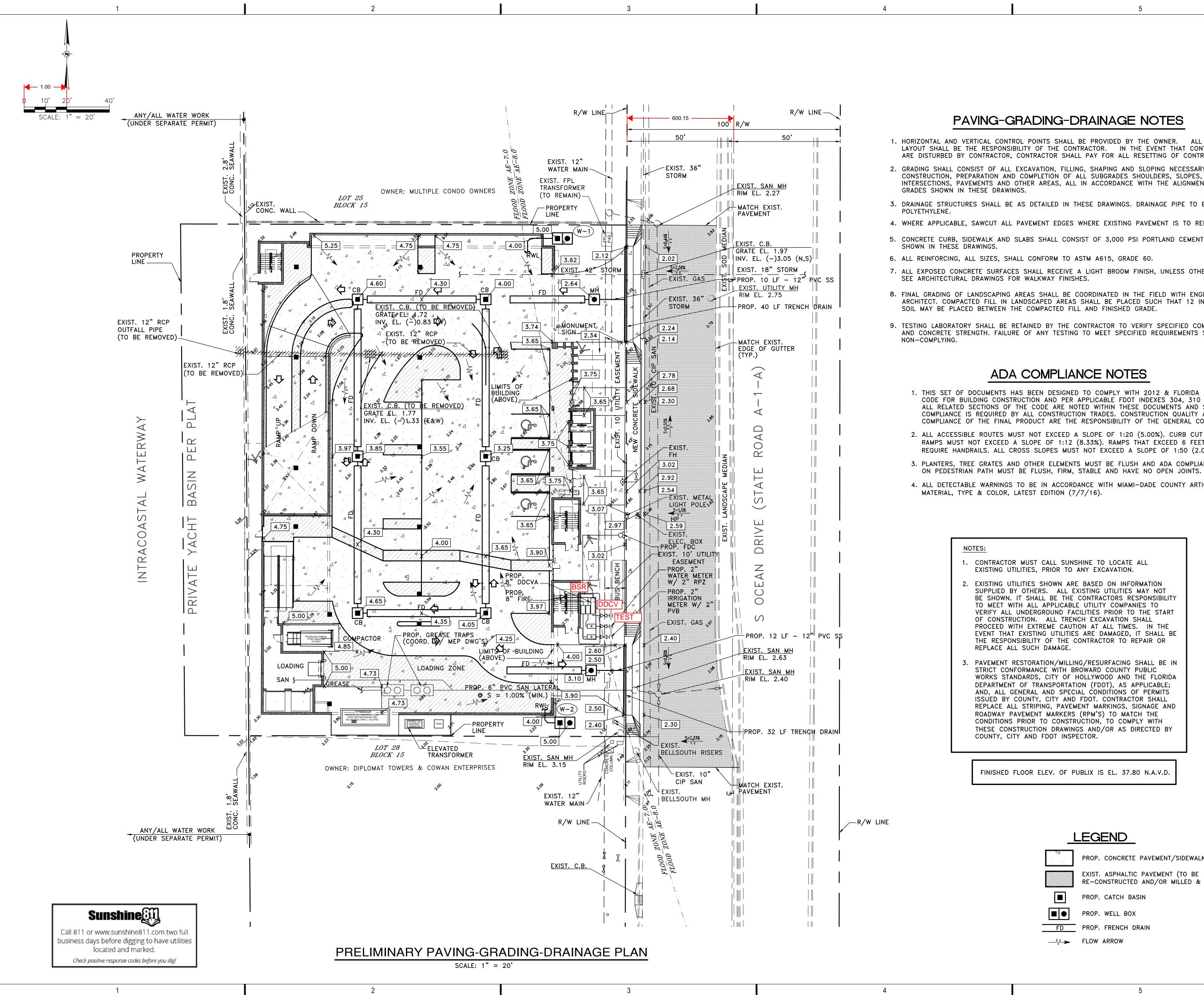
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Node Elev Fact	Node1 to	Elev1	K	Qa	Nom	Fitting or		Pipe Ftngs	CFact	Pt Pe	****** Notes	****
0		Elev2	Fact	Qt	Act		Len		Pf/Ft			
18.3	220	10 //7	0.38	33.10	2.5		0.0	7 880	120	12 512	K - K @ E003	
230	0		9.30				0.0	0.0		0.074		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0.20									
18.16	0		9.30					0.0	120			
0												
146		18.16	9.38	33.47	2.5	Т			120		K = K @ EQ01	
146		18.13		85.79	2.469				0.0298		Vel = 5.75	
117	146									13 15/	K Factor = 23.65	
0		10 21			2.5	т	12 0	3 500	120		K T actor = 25.05	
186		13.41		10.74	۷.۵	1			120			
0	186						0.0	15.500		0.010	Vel = 0.72	
18.3		22.71		0.0	2.5	7E			120			
18.3		18.3		10.74	2.469				0.0006		Vel = 0.72	
233	232		9.38				0.0	6.460		12.850		
18.16		12 16		11 35	2 460				U UU88		\/el = 2.07	
0.0 12.000 0.013			0.38			Т						
147		10.10	9.50	33.70	2.5	'			120		K - K @ LQUI	
147 78.13 13.320 K Factor = 21.41 118	147	18.13			2.469		0.0	13.570	0.0250	0.339	Vel = 5.24	
118	147									13.320	K Factor = 21.41	
187 22.71 28.19 2.469 0.0 15.500 0.0038 0.059 Vel = 1.89 187 22.71 0.0 2.5 6E 36.0 119.070 120 10.894 0 0.0 36.000 0.0038 0.589 Vel = 1.89 188 20.21 0.0 2.5 T 12.0 2.080 120 12.566 0 0.0 2.5 T 12.0 2.080 120 12.566 0 0.0 14.080 0.0038 0.053 Vel = 1.89 148 18.13 28.19 2.469 0.0 14.080 0.0038 0.053 Vel = 1.89 148 28.19 28.19 13.520 K Factor = 7.67 K Factor = 7.67 119 19.21 43.76 2.5 T 12.0 3.500 120 12.355 12.0 12.000 -1.516 12.0 12.000 12.000 10.033 Vel = 2.93 12.93 12.0 12.000		19.21			2.5	Т			120	12.351		
187		22.74		20.40	2.460				0.0020		Val = 1.00	
0.0 36.000 1.083 0.589 Vel = 1.89 188 20.21 0.0 2.5 T 12.0 2.080 120 12.566 0.001 148 18.13 28.19 2.469 0.0 14.080 0.0038 0.589 Vel = 1.89 188 20.21 0.0 2.5 T 12.0 2.080 120 12.566 0.901 148 18.13 28.19 2.469 0.0 14.080 0.0038 0.053 Vel = 1.89 189 22.71 43.76 2.469 0.0 15.500 0.0086 0.133 Vel = 2.93 189 22.71 0.0 2.5 2E 12.0 117.050 120 10.972 0.00 12.000 1.083 190 20.21 43.76 2.469 0.0 129.050 0.0086 1.106 Vel = 2.93 190 20.21 43.76 2.469 0.0 12.000 0.0086 0.131 Vel = 2.93 190 20.21 43.76 2.469 0.0 12.000 0.0086 0.131 Vel = 2.93 190 20.21 43.76 2.469 0.0 12.000 0.0086 0.131 Vel = 2.93 190 20.21 43.76 2.469 0.0 12.000 0.0086 0.121 Vel = 2.93 190 20.21 0.0 2.5 T 12.0 2.080 120 13.161 0.001 0.901 0.901 0.901 0.901 124 18.13 43.76 2.469 0.0 14.080 0.0086 0.121 Vel = 2.93 179 20.01 -0.61 2.5 0.0 1.800 120 11.978 0.001 0.0						6F					vei – 1.09	
188						OL			120			
0.0											Vel = 1.89	
148 18.13 28.19 2.469 0.0 14.080 0.0038 0.053 Vel = 1.89 148 28.19 13.520 K Factor = 7.67 119 19.21 43.76 2.5 T 12.0 3.500 120 12.355 189 22.71 43.76 2.469 0.0 15.500 0.0086 0.133 Vel = 2.93 189 22.71 0.0 2.5 2E 12.0 117.050 120 10.972 190 20.21 43.76 2.469 0.0 129.050 0.0086 1.106 Vel = 2.93 190 20.21 0.0 2.5 T 12.0 2.080 120 13.161 100 2.21 0.0 2.5 T 12.0 2.080 120 13.161 124 18.13 43.76 2.469 0.0 14.080 0.0086 0.121 Vel = 2.93 124 43.76 14.183 K Factor = 11.62 179 20.01 -0.61 2.5 0.0 1.800 120 11.978 00 0.0 0.0 0.0 0.0 120 11.978 00 0.0 0.0 0		20.21		0.0	2.5	Т			120			
148 28.19 13.520 K Factor = 7.67 119 19.21 43.76 2.5 T 12.0 3.500 120 12.355 0 0.0 12.000 -1.516 189 22.71 43.76 2.469 0.0 15.500 0.0086 0.133 Vel = 2.93 189 22.71 0.0 2.5 ZE 12.0 117.050 120 10.972 0 0.0 12.000 1.083 190 20.21 43.76 2.469 0.0 129.050 0.0086 1.106 Vel = 2.93 190 20.21 0.0 2.5 T 12.0 2.080 120 13.161 0 0.0 12.000 0.901 124 18.13 43.76 2.469 0.0 14.080 0.0086 0.121 Vel = 2.93 124 43.76 2.469 0.0 14.080 0.0086 0.121 Vel = 2.93 179 20.01 -0.61 2.5 0.0 1.800 120 11.978 0 0.0 0.0 0.0 1.978		18.13		28.19	2.469				0.0038		Vel = 1.89	
119				0.0								
0.0 12.000 -1.516 189 22.71 43.76 2.469 0.0 15.500 0.0086 0.133 Vel = 2.93 189 22.71 0.0 2.5 2E 12.0 117.050 120 10.972 0 0 12.000 1.083 190 20.21 43.76 2.469 0.0 129.050 0.0086 1.106 Vel = 2.93 190 20.21 0.0 2.5 T 12.0 2.080 120 13.161 0 0 12.000 0.901 124 18.13 43.76 2.469 0.0 14.080 0.0086 0.121 Vel = 2.93 190 20.01 -0.61 2.5 0.0 1.800 120 11.978 0 0.0 1.800 0.0 1.978		40.04			0.5		40.0	0.500	400		K Factor = 7.67	
189 22.71 43.76 2.469 0.0 15.500 0.0086 0.133 Vel = 2.93 189 22.71 0.0 2.5 2E 12.0 117.050 120 10.972 10.972 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 12.000 0.0 1		19.21		43.76	2.5	I			120			
0.0 12.000 1.083 190 20.21 43.76 2.469 0.0 129.050 0.0086 1.106 Vel = 2.93 190 20.21 0.0 2.5 T 12.0 2.080 120 13.161 100 0.0 12.000 0.901 124 18.13 43.76 2.469 0.0 14.080 0.0086 0.121 Vel = 2.93 124 43.76 14.183 K Factor = 11.62 179 20.01 -0.61 2.5 0.0 1.800 120 11.978 100 0.0 0.0 0.0 -0.017		22.71		43.76	2.469				0.0086		Vel = 2.93	
190 20.21 43.76 2.469 0.0 129.050 0.0086 1.106 Vel = 2.93 190 20.21 0.0 2.5 T 12.0 2.080 120 13.161 100 0.0 12.000 0.901 124 18.13 43.76 2.469 0.0 14.080 0.0086 0.121 Vel = 2.93 100 124 43.76 14.183 K Factor = 11.62 179 20.01 -0.61 2.5 0.0 1.800 120 11.978 100 0.0 0.0 -0.017		22.71		0.0	2.5	2E			120			
190 20.21 0.0 2.5 T 12.0 2.080 120 13.161 0.0 124 18.13 43.76 2.469 0.0 14.080 0.0086 0.121 Vel = 2.93 124 43.76 14.183 K Factor = 11.62 179 20.01 -0.61 2.5 0.0 1.800 120 11.978 0.0 0.0 0.0 0.0 0.0 1.800 0.017		20.24		12 76	2 460				0 0006		Val - 2.02	
0.0 12.000 0.901 124 18.13 43.76 2.469 0.0 14.080 0.0086 0.121 Vel = 2.93 0.0 14.183 K Factor = 11.62 179 20.01 -0.61 2.5 0.0 1.800 120 11.978 0 0.0 0.0 -0.017						т					vei – 2.33	
0.0 43.76 14.183 K Factor = 11.62 179 20.01 -0.61 2.5 0.0 1.800 120 11.978 0 0.0 0.0 -0.017		∠∪.∠ I		0.0	۷.5	1		12.000	120			
124 43.76 14.183 K Factor = 11.62 179 20.01 -0.61 2.5 0.0 1.800 120 11.978 00 0.0 0.0 -0.017	124	18.13			2.469		0.0	14.080	0.0086	0.121	Vel = 2.93	
179 20.01 -0.61 2.5 0.0 1.800 120 11.978 o 0.0 0.0 -0.017	124									14.183	K Factor = 11 62	
o 0.0 0.0 -0.017		20.01			2.5		0.0	1.800	120		11.02	
191 20.05 -0.61 2.469 0.0 1.800 -0.0006 -0.001 Vel = 0.04	0						0.0	0.0		-0.017		
	191	20.05		-0.61	2.469		0.0	1.800	-0.0006	-0.001	Vel = 0.04	

Final Calculations: Hazen-Williams

PREPARED FOR:
Publix Hollywood - Storage
Page 19
Date 11-09-18

Node1 to Node2		K Fact	Qa Qt	Nom Act	Fitting or Eqiv	Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
191 to	20.05		0.0	2.5		0.0	24.370 0.0	120	11.960 -0.225			
178	20.57		-0.61	2.469		0.0	24.370	0	0.0	Vel = 0.	04	
178			0.0 -0.61						11.735	K Factor	= -0.18	



PAVING-GRADING-DRAINAGE NOTES

- 1. HORIZONTAL AND VERTICAL CONTROL POINTS SHALL BE PROVIDED BY THE OWNER. ALL CONSTRUCTION LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IN THE EVENT THAT CONTROL POINTS ARE DISTURBED BY CONTRACTOR, CONTRACTOR SHALL PAY FOR ALL RESETTING OF CONTROL POINTS.
- 2. GRADING SHALL CONSIST OF ALL EXCAVATION, FILLING, SHAPING AND SLOPING NECESSARY FOR THE CONSTRUCTION, PREPARATION AND COMPLETION OF ALL SUBGRADES SHOULDERS, SLOPES, INTERSECTIONS, PAVEMENTS AND OTHER AREAS, ALL IN ACCORDANCE WITH THE ALIGNMENTS AND GRADES SHOWN IN THESE DRAWINGS.
- 3. DRAINAGE STRUCTURES SHALL BE AS DETAILED IN THESE DRAWINGS. DRAINAGE PIPE TO BE CORRUGATED
- 4. WHERE APPLICABLE, SAWCUT ALL PAVEMENT EDGES WHERE EXISTING PAVEMENT IS TO REMAIN.
- 5. CONCRETE CURB, SIDEWALK AND SLABS SHALL CONSIST OF 3,000 PSI PORTLAND CEMENT CONCRETE, AS
- 6. ALL REINFORCING, ALL SIZES, SHALL CONFORM TO ASTM A615, GRADE 60.
- 7. ALL EXPOSED CONCRETE SURFACES SHALL RECEIVE A LIGHT BROOM FINISH, UNLESS OTHERWISE DIRECTED. SEE ARCHITECTURAL DRAWINGS FOR WALKWAY FINISHES.
- 8. FINAL GRADING OF LANDSCAPING AREAS SHALL BE COORDINATED IN THE FIELD WITH ENGINEER/LANDSCAPE ARCHITECT. COMPACTED FILL IN LANDSCAPED AREAS SHALL BE PLACED SUCH THAT 12 INCHES OF TOP SOIL MAY BE PLACED BETWEEN THE COMPACTED FILL AND FINISHED GRADE.
- 9. TESTING LABORATORY SHALL BE RETAINED BY THE CONTRACTOR TO VERIFY SPECIFIED COMPACTION DENSITY AND CONCRETE STRENGTH. FAILURE OF ANY TESTING TO MEET SPECIFIED REQUIREMENTS SHALL BE DEEMED

ADA COMPLIANCE NOTES

- 1. THIS SET OF DOCUMENTS HAS BEEN DESIGNED TO COMPLY WITH 2012 & FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND PER APPLICABLE FDOT INDEXES 304, 310 & 515. ALL RELATED SECTIONS OF THE CODE ARE NOTED WITHIN THESE DOCUMENTS AND STRICT COMPLIANCE IS REQUIRED BY ALL CONSTRUCTION TRADES. CONSTRUCTION QUALITY AND COMPLIANCE OF THE FINAL PRODUCT ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- 2. ALL ACCESSIBLE ROUTES MUST NOT EXCEED A SLOPE OF 1:20 (5.00%). CURB CUT RAMPS AND RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.33%). RAMPS THAT EXCEED 6 FEET IN LENGTH REQUIRE HANDRAILS. ALL CROSS SLOPES MUST NOT EXCEED A SLOPE OF 1:50 (2.00%).
- 3. PLANTERS, TREE GRATES AND OTHER ELEMENTS MUST BE FLUSH AND ADA COMPLIANT. PAVERS
- 4. ALL DETECTABLE WARNINGS TO BE IN ACCORDANCE WITH MIAMI-DADE COUNTY ARTICLE 527 TESTED MATERIAL, TYPE & COLOR, LATEST EDITION (7/7/16).

- 1. CONTRACTOR MUST CALL SUNSHINE TO LOCATE ALL EXISTING UTILITIES, PRIOR TO ANY EXCAVATION.
- 2. EXISTING UTILITIES SHOWN ARE BASED ON INFORMATION SUPPLIED BY OTHERS. ALL EXISTING UTILITIES MAY NOT BE SHOWN. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MEET WITH ALL APPLICABLE UTILITY COMPANIES TO VERIFY ALL UNDERGROUND FACILITIES PRIOR TO THE START OF CONSTRUCTION. ALL TRENCH EXCAVATION SHALL PROCEED WITH EXTREME CAUTION AT ALL TIMES. IN THE EVENT THAT EXISTING UTILITIES ARE DAMAGED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE ALL SUCH DAMAGE.
- 3. PAVEMENT RESTORATION/MILLING/RESURFACING SHALL BE IN STRICT CONFORMANCE WITH BROWARD COUNTY PUBLIC WORKS STANDARDS, CITY OF HOLLYWOOD AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), AS APPLICABLE; AND, ALL GENERAL AND SPECIAL CONDITIONS OF PERMITS ISSUED BY COUNTY, CITY AND FDOT. CONTRACTOR SHALL REPLACE ALL STRIPING, PAVEMENT MARKINGS, SIGNAGE AND ROADWAY PAVEMENT MARKERS (RPM'S) TO MATCH THE CONDITIONS PRIOR TO CONSTRUCTION, TO COMPLY WITH THESE CONSTRUCTION DRAWINGS AND/OR AS DIRECTED BY COUNTY, CITY AND FDOT INSPECTOR.

FINISHED FLOOR ELEV. OF PUBLIX IS EL. 37.80 N.A.V.D.

LEGEND

PROP. CONCRETE PAVEMENT/SIDEWALK

PROP. CATCH BASIN

EXIST. ASPHALTIC PAVEMENT (TO BE RE-CONSTRUCTED AND/OR MILLED & RESURFACED)

PROP. WELL BOX PROP. FRENCH DRAIN

——

√→ FLOW ARROW

Consulting Engineering & Science

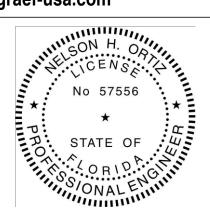


a GRaEF company

9400 South Dadeland Boulevard

Suite 601 Miami, FL 33156 305 / 378 5555 305 / 279 4553 fax

www.cesmiami.com www.graef-usa.com



NELSON H. ORTIZ PE-57556 (CIVIL)

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PRINTED COPIES SHALL HAVE AN ORIGINAL SIGNATURE AND DATE.

PROJECT TITLE:

Project Title

ELIMINARY

PUBLIX @ HOLLYWOOD

3100 SOUTH OCEAN DRIVE HOLLYWOOD, FLORIDA

ISSUE:

NO. DATE REVISIONS

PROJECT INFORMATION:

PROJECT NUMBER: 18017

04-10-18 DATE: DRAWN BY: S.D.

CHECKED BY: N.H.O.

APPROVED BY: N.H.O.

AS SHOWN SCALE:

SHEET TITLE:

PRELIMINARY PAVING-GRADING-DRAINAGE PLAN

SHEET NUMBER:

LEGEND:

CKD CHECKED BY
CONC
CONCRETE
DWN DRAWN BY

FB/PG FIELD BOOK AND PAGE
SIR SET 5/8" IRON ROD
SNC SET NAIL AND CAP #6448
FIR FOUND IRON ROD
FIP FOUND IRON PIPE
FNC FOUND NAIL AND CAP
FND FOUND NAIL & DISC

FNC FOUND NAIL AND CAP FND FOUND NAIL & DISC WPP WOOD POWER POLE P.B. PLAT BOOK

-X- CHAIN LINK (CLF)/WOOD FENCE
CBS CONCRETE BLOCK STRUCTURE
A/C AIR CONDITIONER
B.C.R. BROWARD COUNTY RECORDS

CLP CONCRETE LIGHT POLE

4.07 ELEVATIONS (NAVD88)

-E- OVERHEAD UTILITY LINES

NON-VEHICULAR ACCESS LINE

BACK FLOW PREVENTER

ALTA AMERICAN LAND TITLE ASSOCIATION
USPS NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS

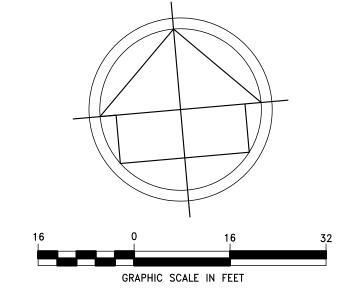
PERMANENT REFERENCE MONUMENT

ORB OFFICIAL RECORDS BOOK

EB ELECTRIC BOX
TYP TYPICAL

BOLLARD

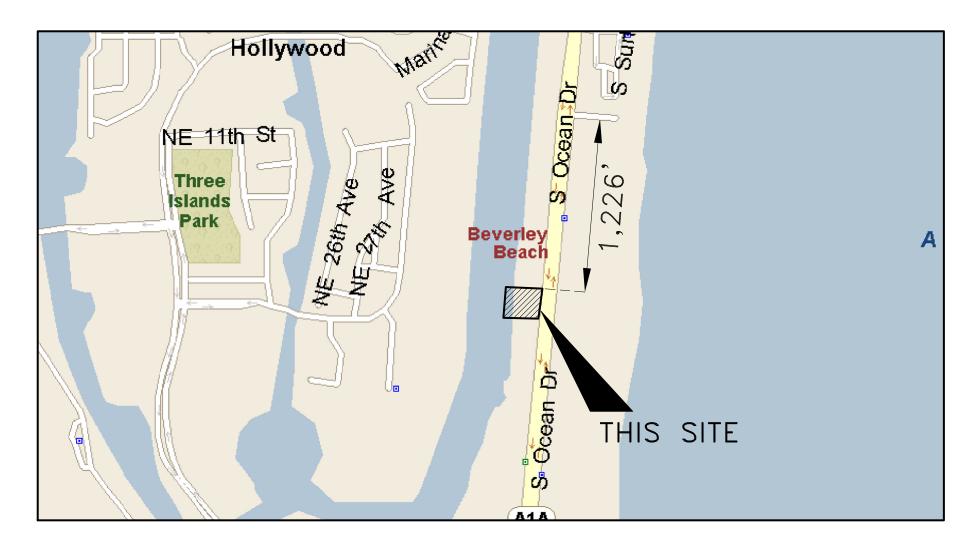
HANDICAP SPACE
WPP WOOD POWER POLE
SQ.FT. SQUARE FEET



	TREE DISPOSITION	PLAN		
NUMBER	BOTANICAL / COMMON NAME	DBH (IN)	HEIGHT (FT)	SPREAD (FT)
1	SCHEFFLERA CLUSTER	(5) 4	18	15
2	PALM	14	16	8
3	PINE	24	60	20
4	PINE	13	60	20
5	PINE	8	60	20
6	PINE	21	60	20
7	PINE	24	60	20
8	PINE	17	60	20
9	PINE	36	60	30
10	PINE	10	60	20
11	PINE	15	60	20
12	PINE	11	60	20
13	PINE	7	60	20
14	PINE	7	60	20
15	PINE	10	60	20
16	PINE	25	60	20
17	PINE	32	60	35
18	PINE	20	60	30
19	PINE	20	60	40
20	PALM	18	6	10
21	PALM	18	8	10
22	PINE	4	15	7
23	PALM	10	28	8
24	PALM	10	25	8
25	PINE	11	40	5
26	PALM	10	18	10
27	PINE	4	15	15
28	PINE	3	15	15
29	PINE	6	15	15
30	PINE	7	15	15
31	PINE	9	15	15
32	PALM	18	35	15

ALTA/NSPS LAND TITLE SURVEY

3100 S OCEAN DRIVE HOLLYWOOD, FLORIDA



LOCATION MAP (NTS)

LAND DESCRIPTION:

LOTS 26 AND 27, BLOCK 15 OF "BEVERLY BEACH", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 22, PAGE 13 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

NOTES:

- 1. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- 2. THE CERTIFICATION SHOWN HEREON TO THE EXTENT RELATING TO THE EXISTENCE OF EASEMENTS AND/OR RIGHTS-OF-WAY OF RECORD IS BASED UPON THE COMMITMENT FOR TITLE INSURANCE ISSURED BY FIRST AMERICAN TITLE INSURANCE COMPANY, EFFECTIVE DATE: MAY 15, 2018
 FILE NO.: 2021-4013788
 ALSO BASED ON PROPERTY INFORMATION REPORT ISSUED BY STEWART TITLE. EFFECTIVE DATE: 08/16/1946 TO 09/07/2018, FILE NO. A1A-2018-5
- 3. THIS SURVEY WAS DONE SOLELY FOR BOUNDARY PURPOSES AND DOES NOT DEPICT THE JURISDICTION OF ANY MUNICIPAL, STATE, FEDERAL OR OTHER ENTITIES.
- 4. LAND DESCRIPTION SHOWN HEREON WAS PROVIDED BY THE CLIENT.
- 5. UNDERGROUND IMPROVEMENTS NOT SHOWN.
- 6. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD88)
- 7. BENCHMARK REFERENCE: BROWARD COUNTY BENCHMARK #3956
 ELEVATION=9.16'(NGVD29) 7.65'(NAVD88) CONVERSION: (NGVD29 1.51 = NAVD88)
- 8. BEARINGS SHOWN HEREON ARE BASED ON THE WEST LINE OF "BEVERLY BEACH", P.B. 22, PG. 13, B.C.R. SAID LINE BEARS NO4°32'14"E.
- 9. ZONING : PD PLANNED DEVELOPMENT DISTRICT
- 10. STRIPED PARKING: (2) HANDICAP, (38) REGULAR = (40) TOTAL PARKING SPACES
- 11. SET BACKS REQUIREMENTS:

THERE ARE NO REQUIRED SETBACKS OR YARDS EXCEPT FOR THE FOLLOWING:

- 1. INTERNAL STREETS THERE SHALL BE A SETBACK OF NOT LESS THAN 25 FEET IN DEPTH ABUTTING ALL PUBLIC ROAD RIGHTS—OF—WAY WITHIN A PLANNED DEVELOPMENT DISTRICT.

 2. EXTERNAL STREETS THERE SHALL BE A PERIPHERAL LANDSCAPED SETBACK FROM ALL
- EXTERNAL STREETS OF THE PLANNED DEVELOPMENT OF NOT LESS THAN 25 FEET IN DEPTH.

 3. MAXIMUM HEIGHT OF STRUCTURES NO MAXIMUM HEIGHT OF STRUCTURES SHALL BE REQUIRED WITHIN A PLANNED DEVELOPMENT. THE CITY COMMISSION UPON RECOMMENDATION OF THE PLANNING BOARD SHALL DETERMINE THE APPROPRIATE HEIGHT LIMITATIONS ON AN INDIVIDUAL DEVELOPMENT BASIS.

SCHEDULE B-II SPECIAL EXCEPTIONS REVIEW:

ITEM #1 RESTRICTIONS, DEDICATIONS, CONDITIONS, RESERVATIONS, EASEMENTS AND OTHER MATERS ON PLAT "BEVERLY BEACH", P.B. 22, PG. 13. (AFFECTS/PLOTTED)

ITEM #2 DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS PER ORB 420, PG. 633, MODIFIED BY ORB 600, PG. 595, AMENDED BY ORB 668, PG. 476, AMENDED BY ORB 3573, PG. 553.(AFFECTS/NOT PLOTTABLE)

ITEM #3 EASEMENT IN FAVOR OF THE CITY OF HOLLYWOOD, PER ORB 7905, PG. 368. (DOES NOT AFFECT/NOT PLOTTED)

ITEM #4 EASEMENT IN FAVOR OF BROWARD COUNTY, PER ORB 32599, PG. 1510. (DOES NOT AFFECT/NOT PLOTTED)

ITEM #5 COVENANT RUNNING WITH THE LAND, PER ORB 34775, PG. 142.(AFFECTS/NOT PLOTTABLE)

ALL OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

ENCROACHMENTS:

- (1) FP&L TRANSFORMER ENCROACHES OUTSIDE OF EASEMENT.
- (2) SIDEWALK ON EAST SIDE OF PROPERTY ENCROACHES ON THE NORTH SIDE BY 0.5' AND THE SOUTH SIDE BY 0.8'.

FLOOD ZONE INFORMATION

COMMUNITY NUMBER 125113

PANEL NUMBER 0751 H

ZONE AE

BASE FLOOD ELEVATION 7&8

EFFECTIVE DATE 08/18/14

CERTIFIED TO:

THE BERNSTEIN LAW FIRM
STEWART TITLE GUARANTY COMPANY
A1A TITLE SERVICES, LLC
BRANCH BANKING AND TRUST COMPANY, A NORTH CAROLINA BANKING CORPORATION
3100 OCEAN HOLDINGS LLC

SURVEYOR'S CERTIFICATION

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE "2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 6(A), 6(B) (NONE SUPPLIED), 7(A), 7(B), 7(C), 8, 9, 11, 13, 14, 16, 17, 18, 19 (NONE DISCLOSED) AND 20 OF TABLE A THEREOF. PURSUANT TO THE ACCURACY STANDARD AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

THE FIELD WORK WAS COMPLETED ON NOVEMBER 07, 2018.

RICHARD E. COUSINS
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA REGISTRATION No. 4188.

COUSINS SURVEYORS & ASSOCIATES, INC. 3921 SW 47TH AVENUE, SUITE 1011

DAVIE, FLORIDA 33314

CERTIFICATE OF AUTHORIZATION: LB # 6448

PHONE (954) 689-7766 FAX (954) 689-7799

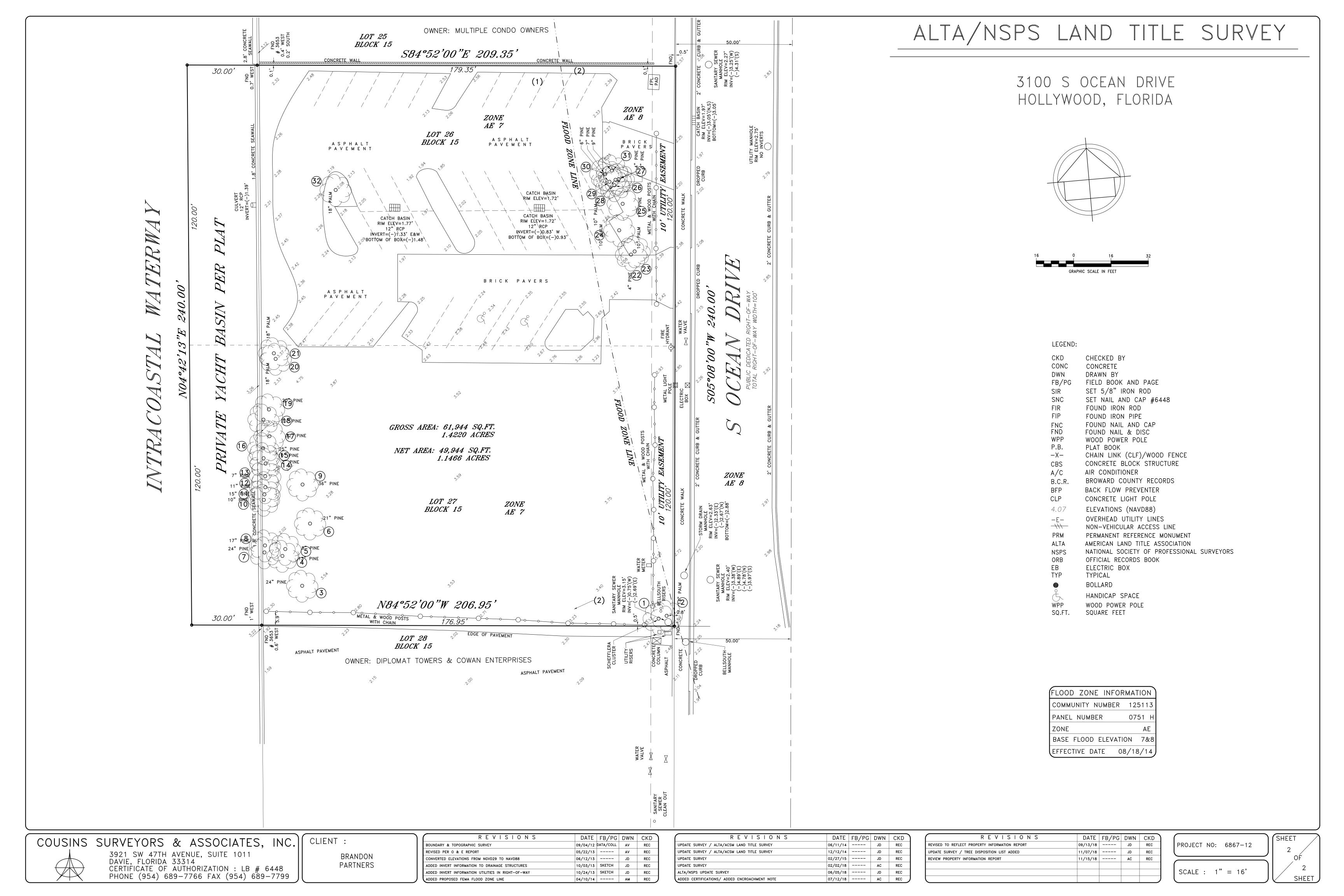
CLIENT:

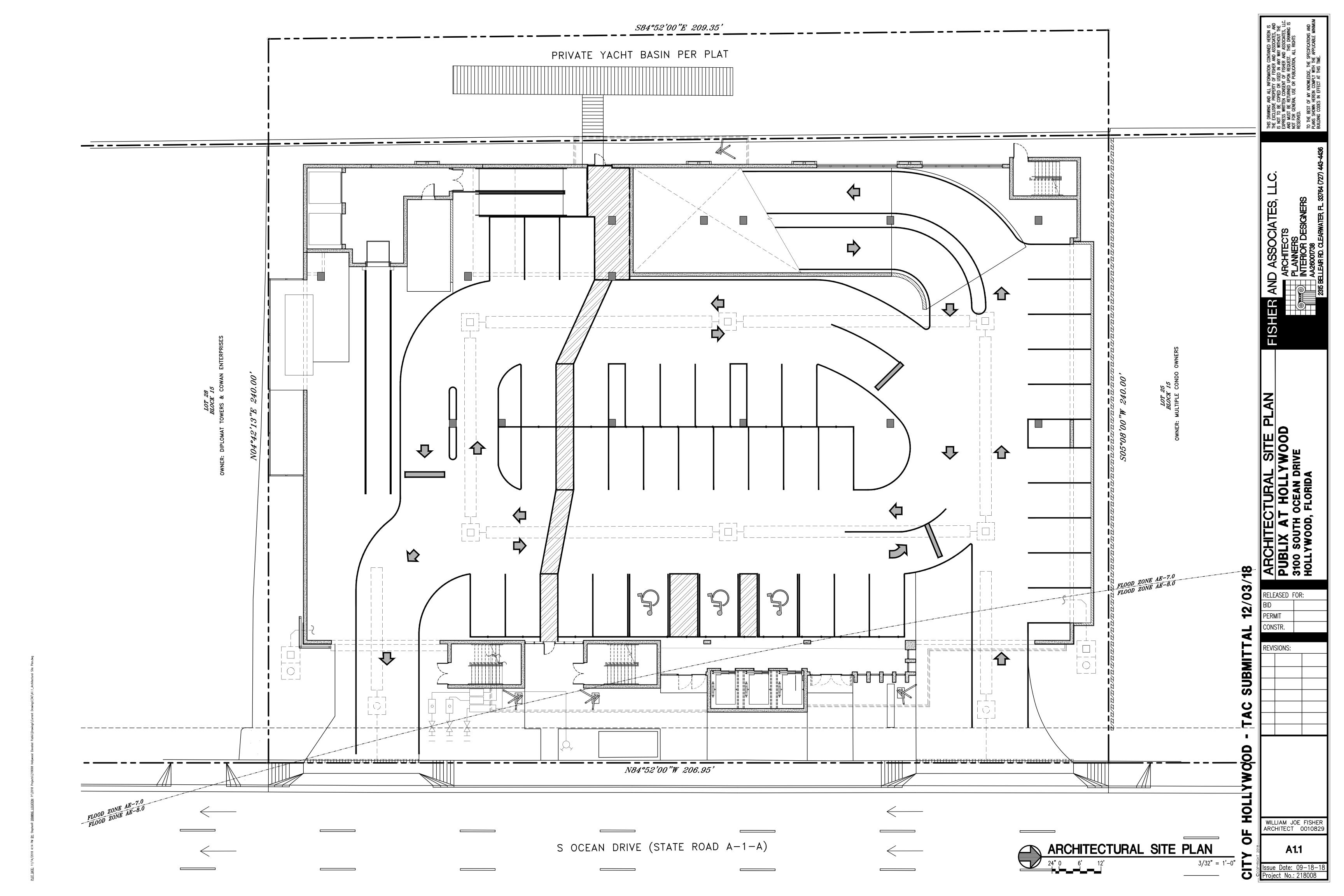
BRANDON	
PARTNERS	

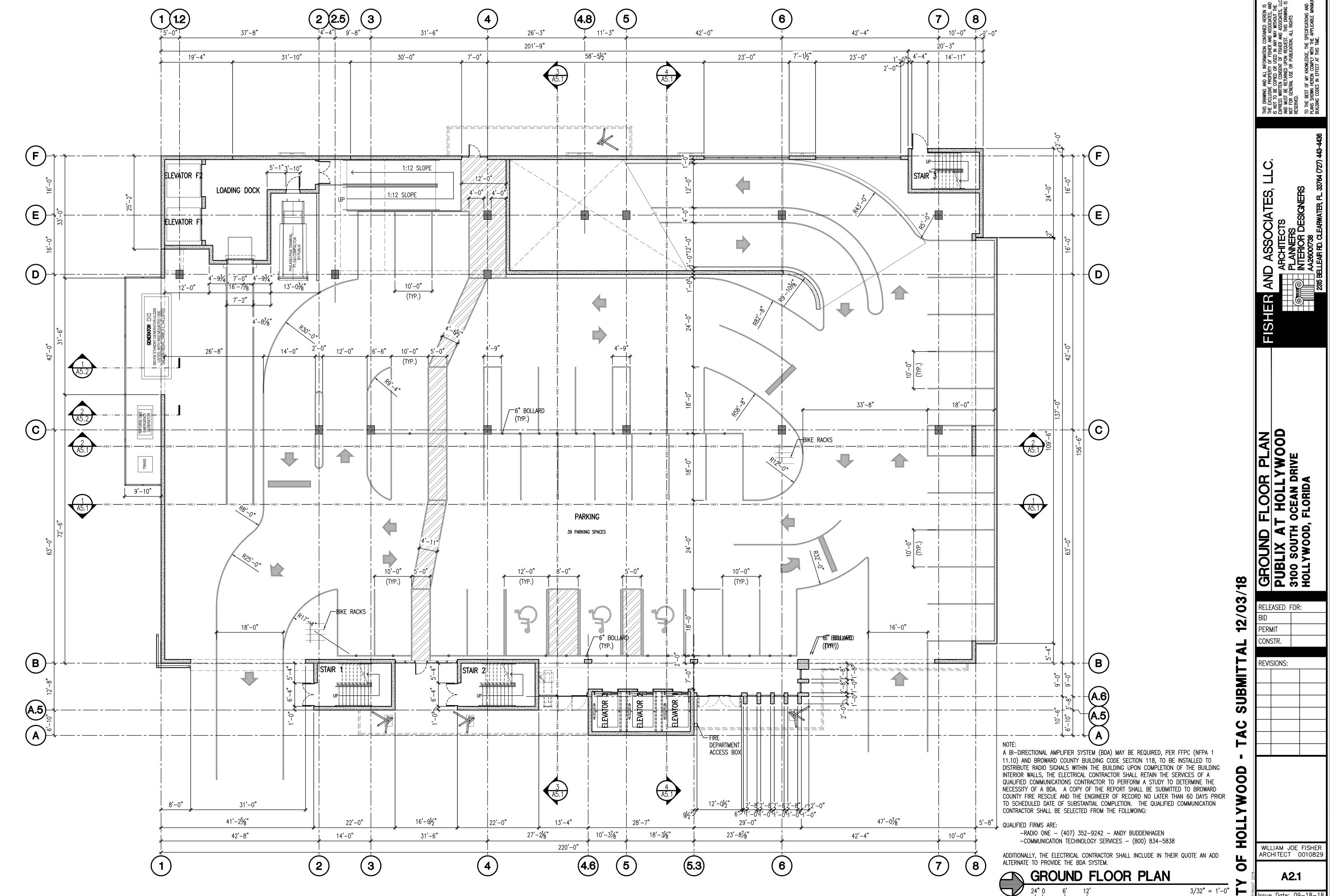
REVISIONS	DATE	FB/PG	DWN	CKD
DUNDARY & TOPOGRAPHIC SURVEY	09/04/12	DATA/COLL	ΑV	REC
VISED PER O & E REPORT	05/22/13		ΑV	REC
DNVERTED ELEVATIONS FROM NGVD29 TO NAVD88	06/12/13		JD	REC
DDED INVERT INFORMATION TO DRAINAGE STRUCTURES	10/03/13	SKETCH	JD	REC
DDED INVERT INFORMATION UTILITIES IN RIGHT-OF-WAY	10/24/13	SKETCH	JD	REC
DDED PROPOSED FEMA FLOOD ZONE LINE	04/10/14		АМ	REC

REVISIONS	DATE	FB/PG	DWN	CKD
UPDATE SURVEY / ALTA/ACSM LAND TITLE SURVEY	06/11/14		JD	REC
UPDATE SURVEY / ALTA/ACSM LAND TITLE SURVEY	12/12/14		JD	REC
UPDATE SURVEY	02/27/15		JD	REC
UPDATE SURVEY	02/02/18		AC	REC
ALTA/NSPS UPDATE SURVEY	06/05/18		JD	REC
ADDED CERTIFICATIONS/ ADDED ENCROACHMENT NOTE	07/12/18		AC	REC

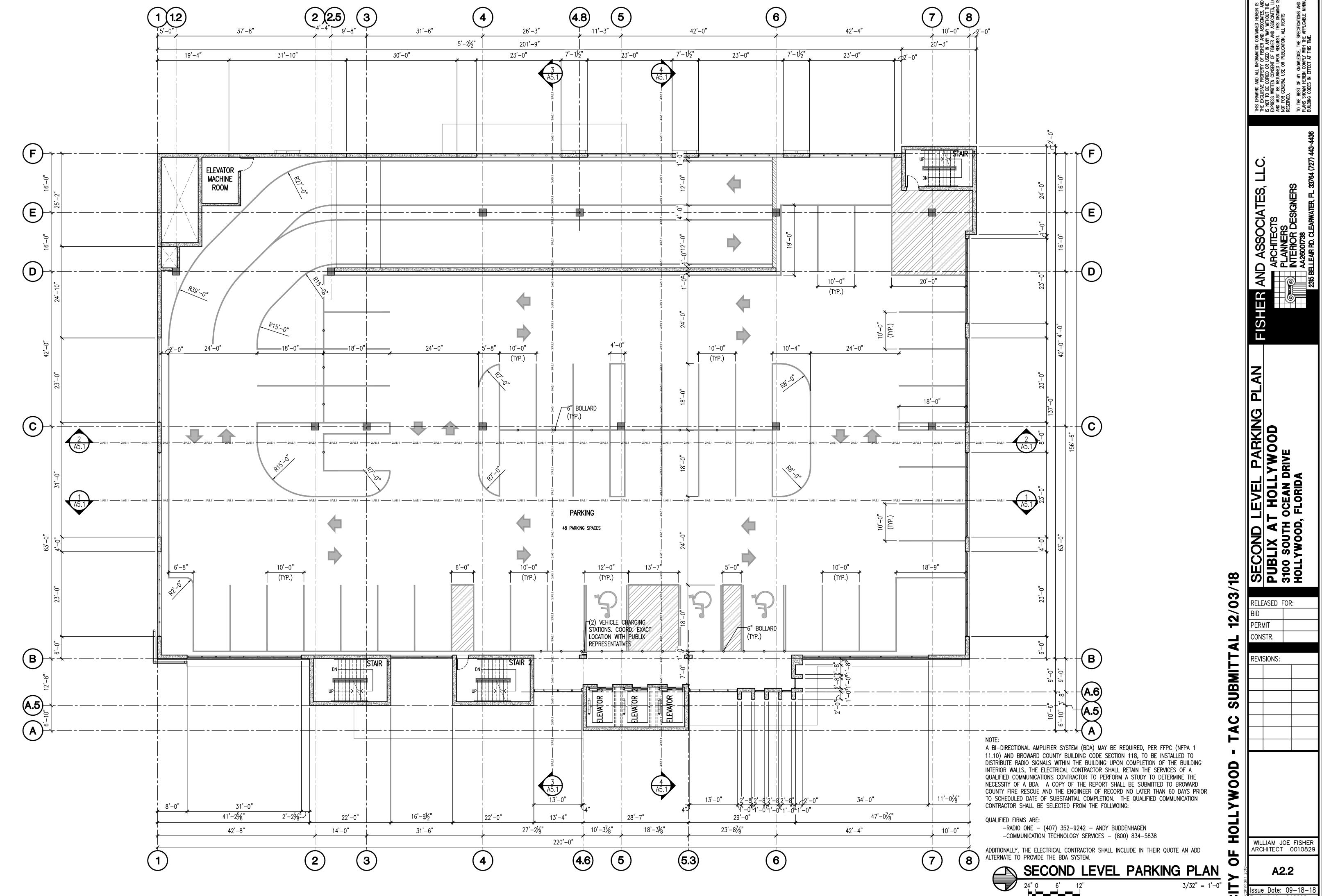
R E V I S I U N S	DAIL	FB/PG	DWN	CKD
REVISED TO REFLECT PROPERTY INFORMATION REPORT	09/13/18		JD	REC
UPDATE SURVEY / TREE DISPOSITION LIST ADDED	11/07/18		JD	REC
REVIEW PROPERTY INFORMATION REPORT	11/15/18		AC	REC



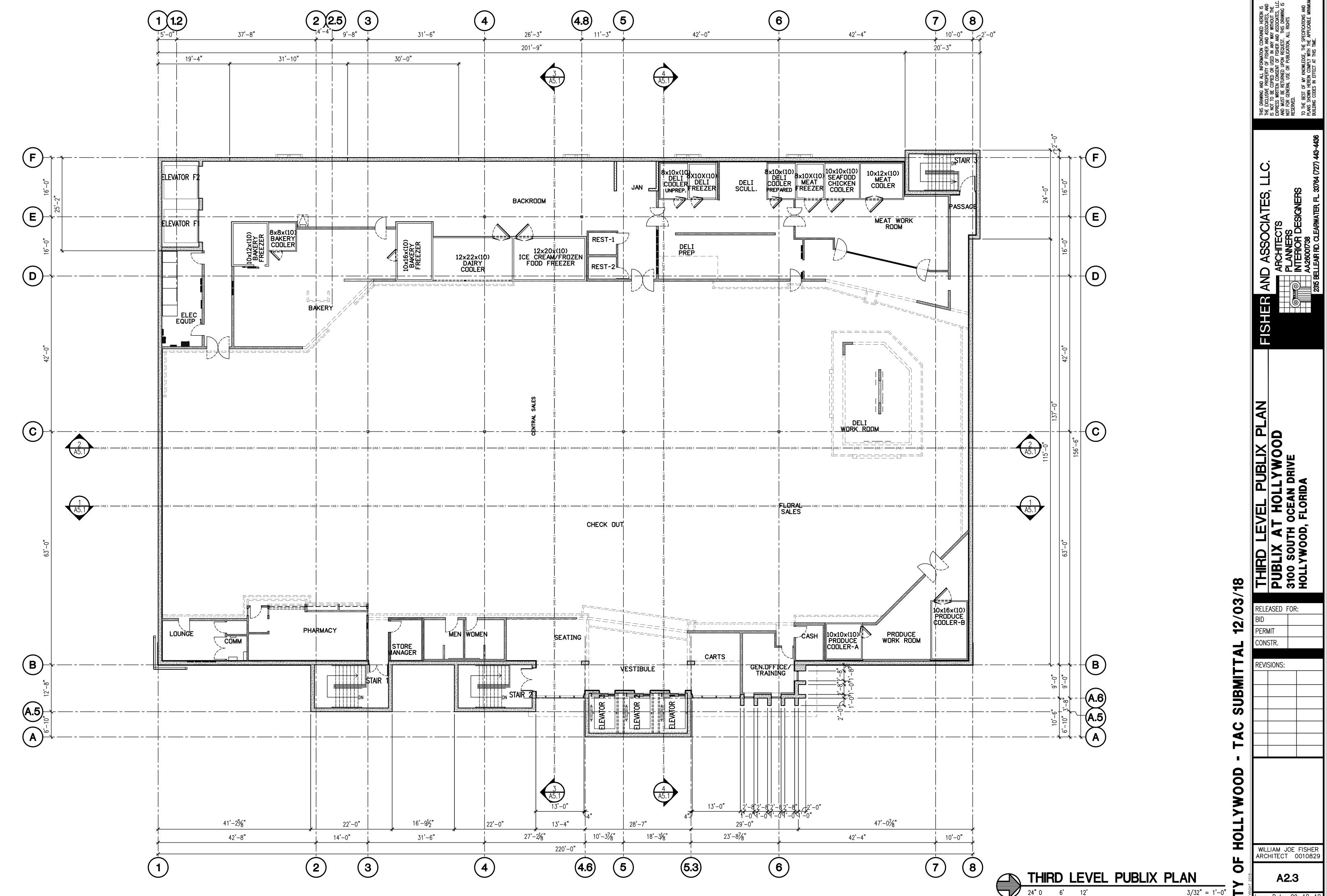




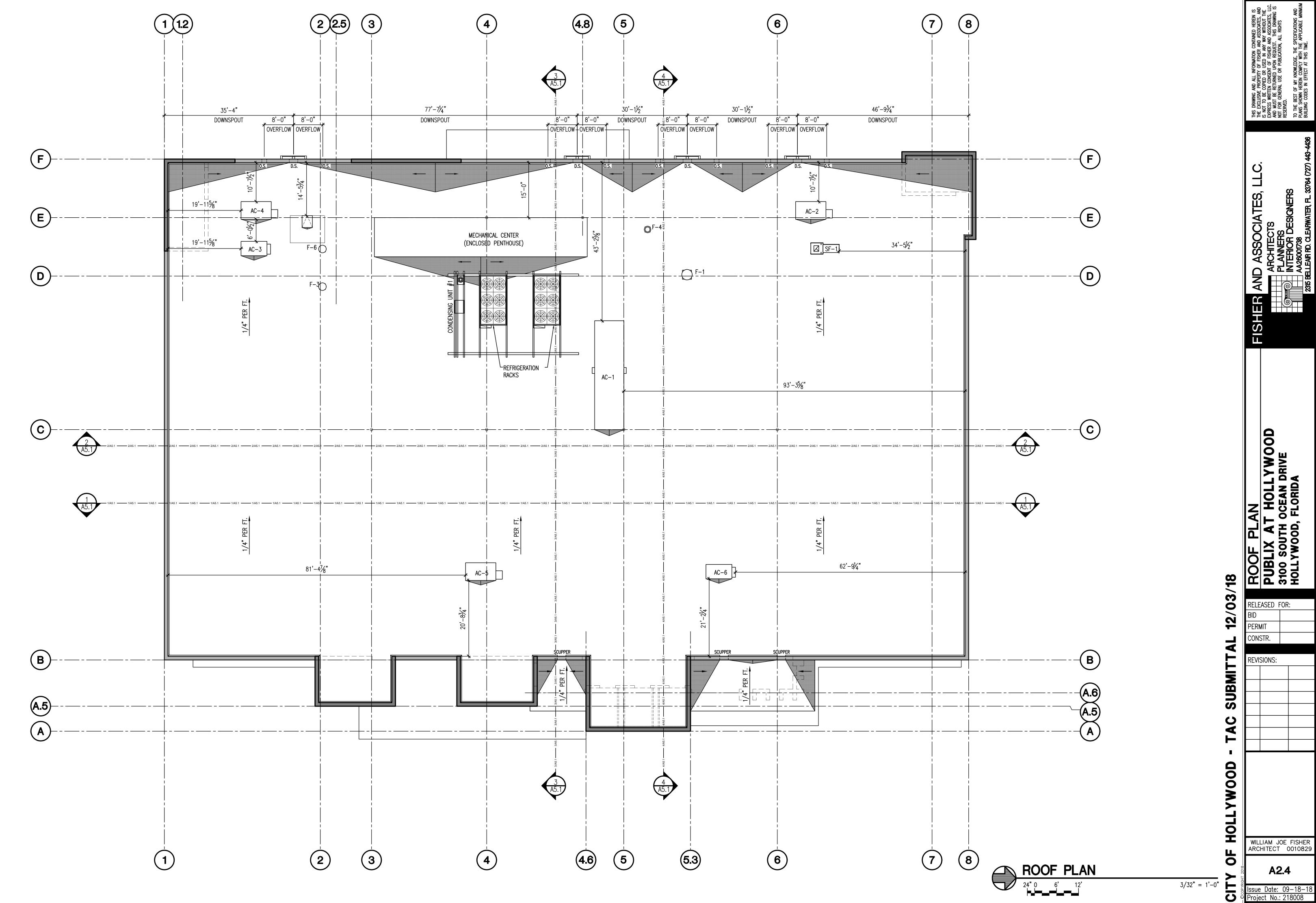
Issue Date: 09-18-1 Project No.: 218008



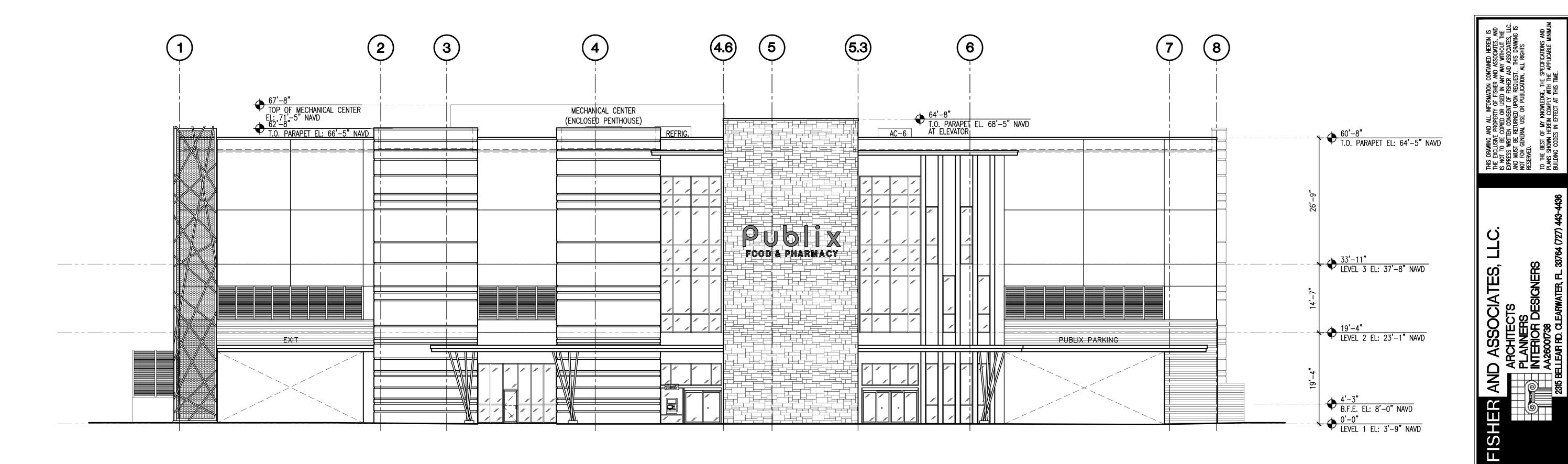
Issue Date: 09-18-1 Project No.: 218008



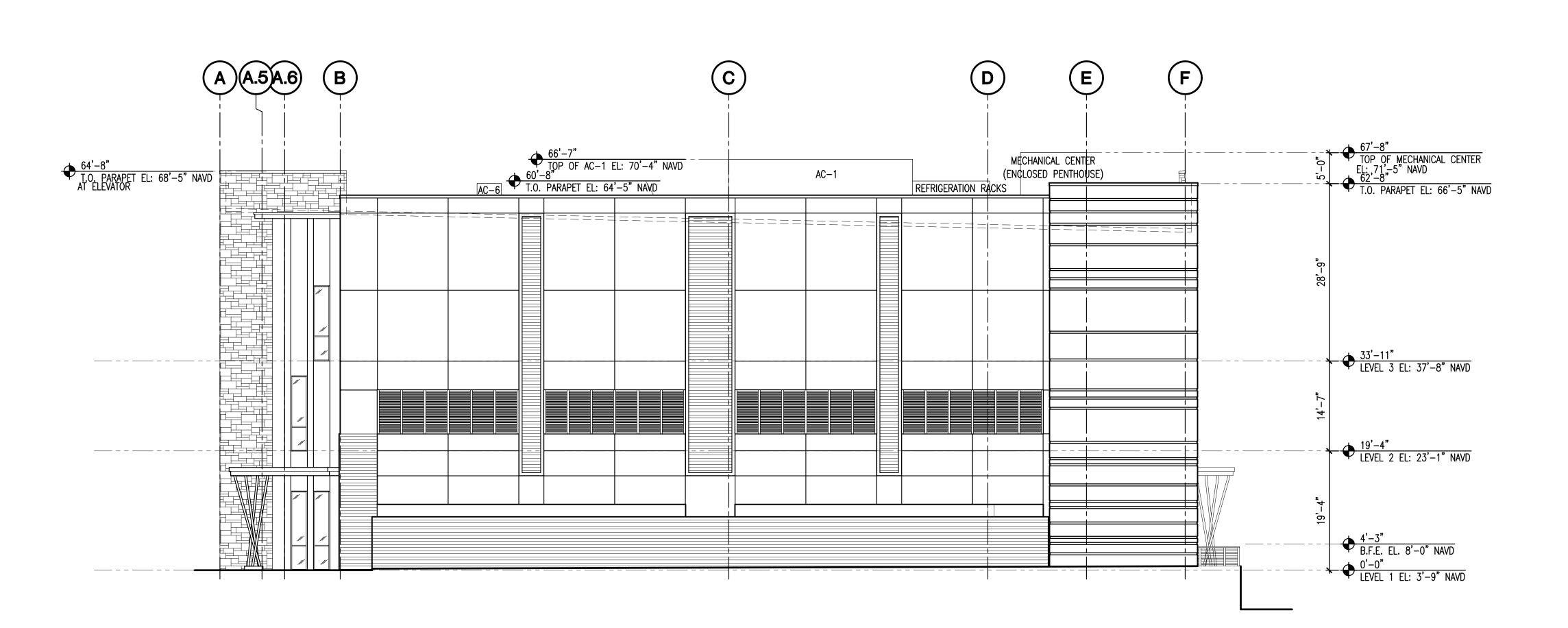
Issue Date: 09-18-1 Project No.: 218008



Issue Date: 09-18-18







NORTH ELEVATION (RIGHT)

24" 0 6' 12' 3/32" = 1'-0"

COF HOLLYWOOD - TAC SUBMITTAL 12/03/18

WARRING TO SULT 12/03/18

THOLLYWOOD - TAC SUBMITTAL 12/03/18

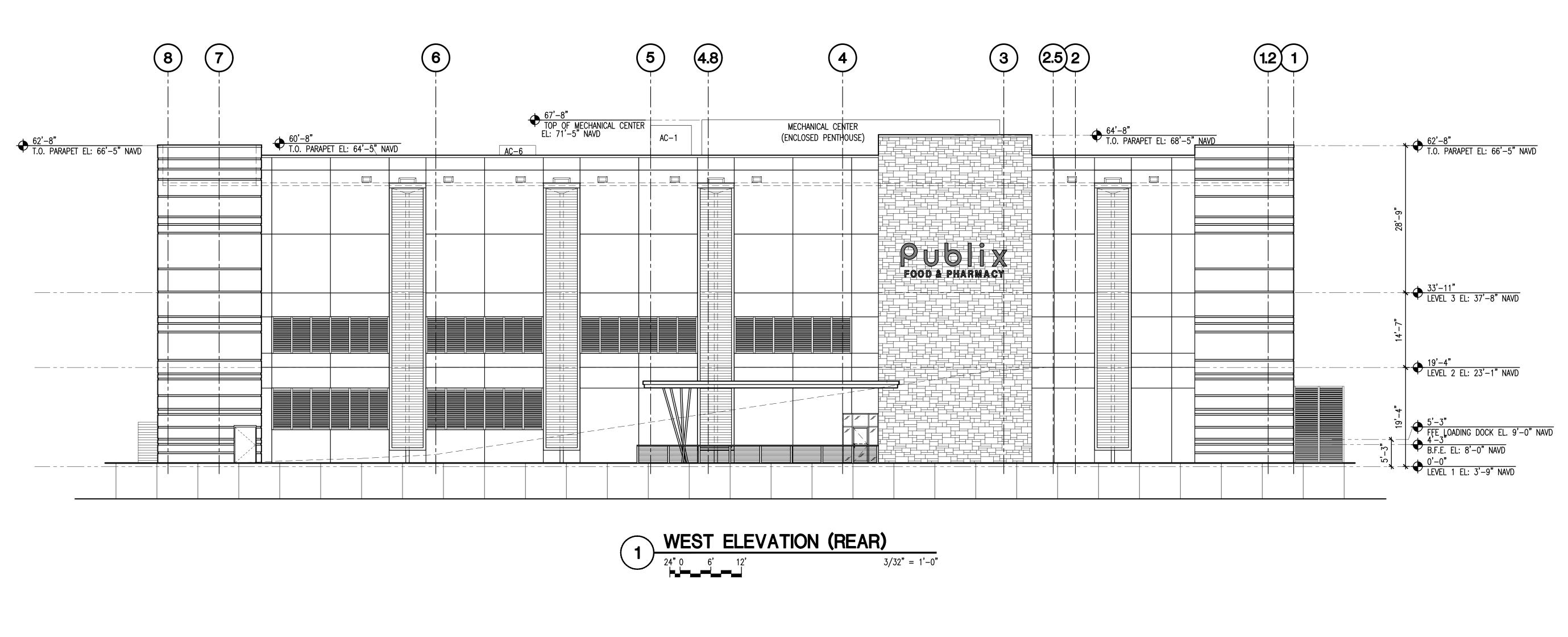
EXTERIOR ELEVATIONS

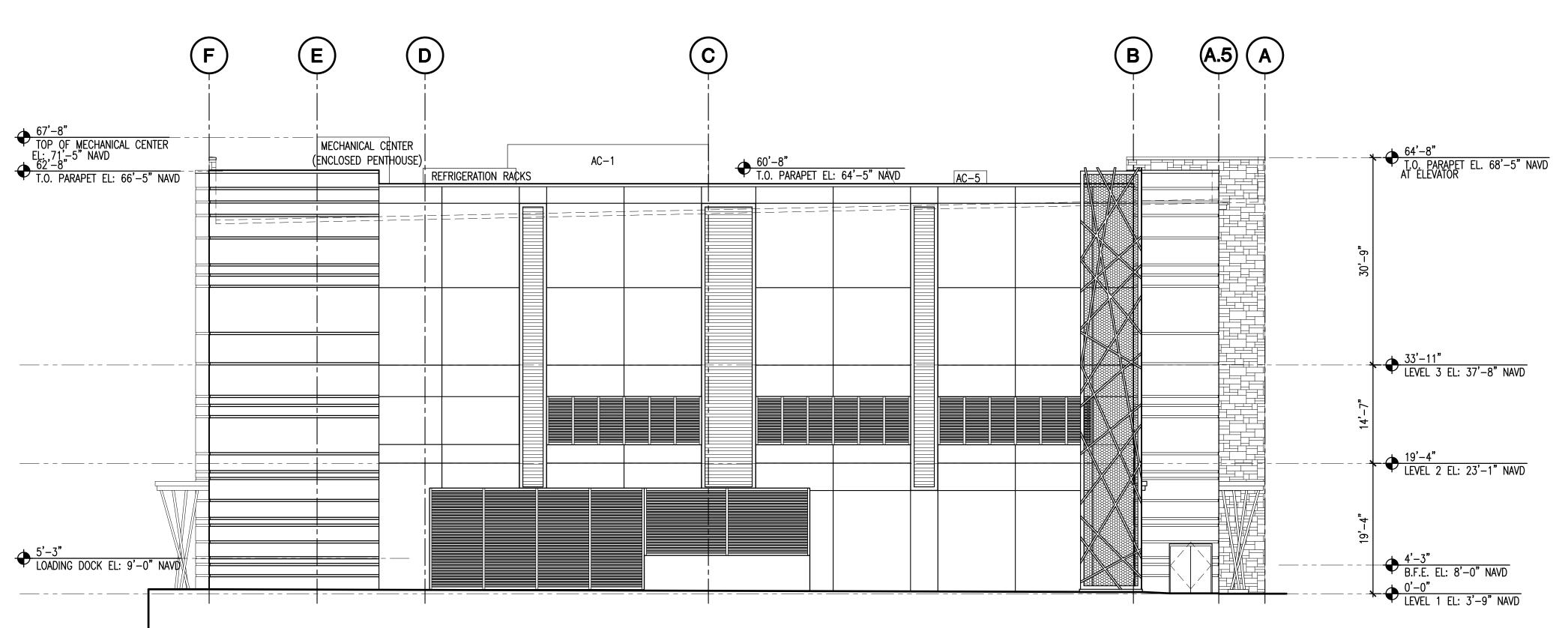
BINE
HOLLYWOOD, FLORIDA
HOLLYWOOD, FLORIDA

CITY

Issue Date: 09—18—18 Project No.: 218008

PLOI DATE: 11/14/2018 4:16 PM <u>BY:</u> StephenR <u>DRAWING LOCATON</u>: P:\2018 Projects\218008 Hollywood Elevated Publix\Drawings\Current Drawings\TAC\A4.1





SOUTH ELEVATION (LEFT)

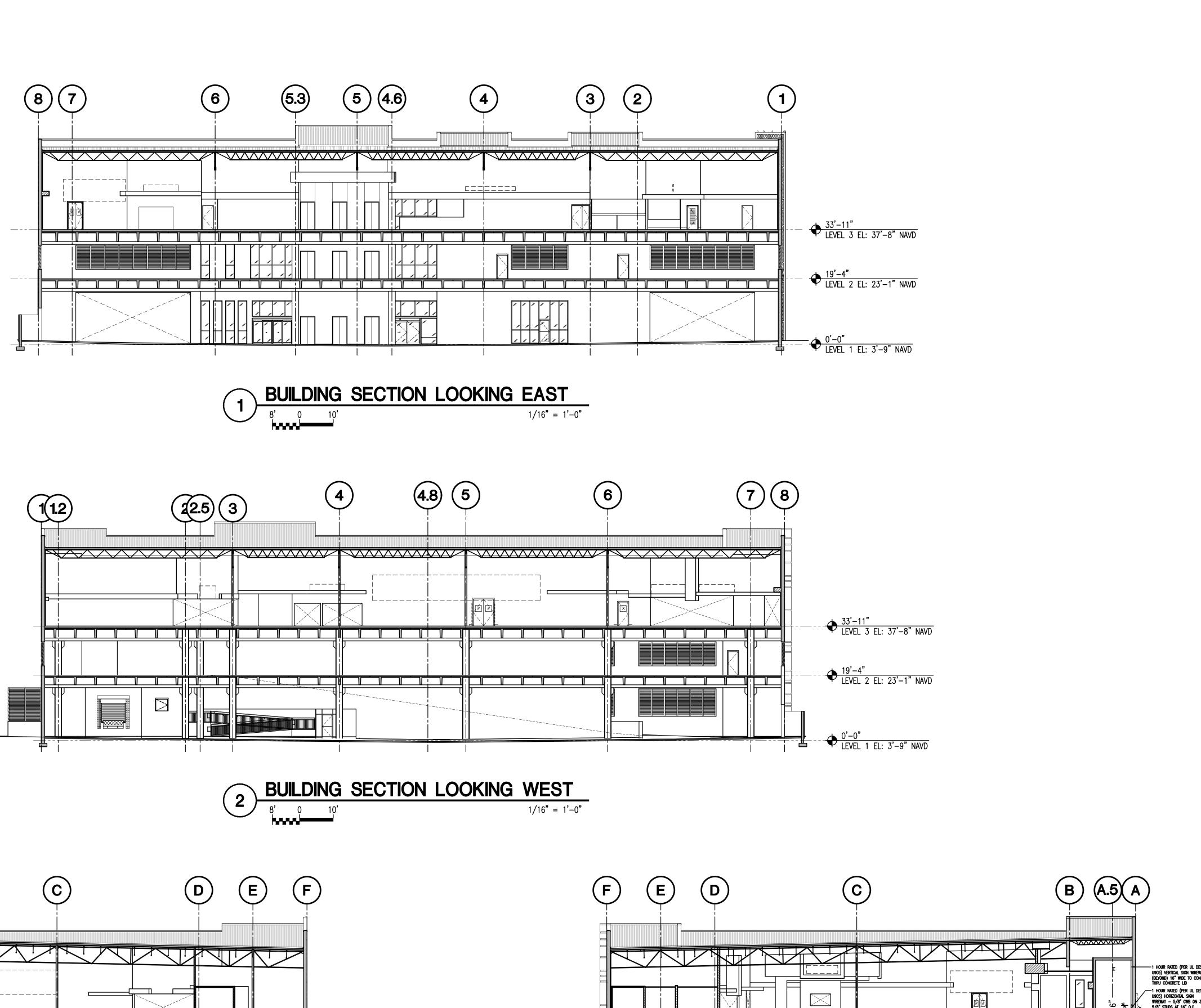
24" 0 6' 12' 3/3 3/32" = 1'-0"

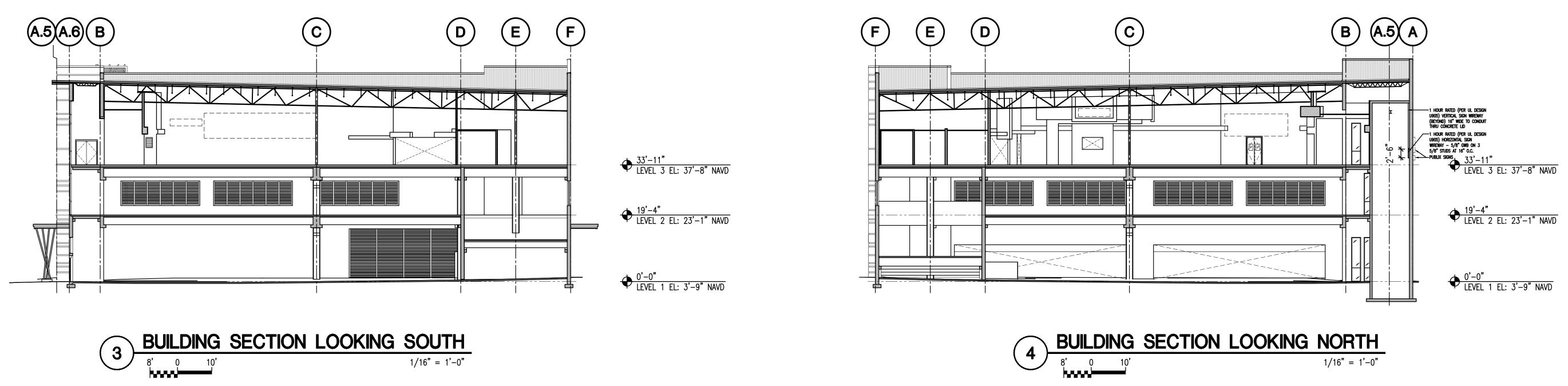
EXTERIOR ELEVATIONS
PUBLIX AT HOLLYWOOD
3100 SOUTH OCEAN DRIVE
HOLLYWOOD, FLORIDA 12/03/ RELEASED FOR: PERMIT CONSTR. SUBMITTAL REVISIONS: AC HOLLYWOOD OF Issue Date: 09—18—18 Project No.: 218008

AND ASSOCIATES,

HSHER HER

WILLIAM JOE FISHER ARCHITECT 0010829 **A4.2**





CITY OF HOLLYWOOD - TAC SUBMITTAL 12/03/18

BUILDING SECTION

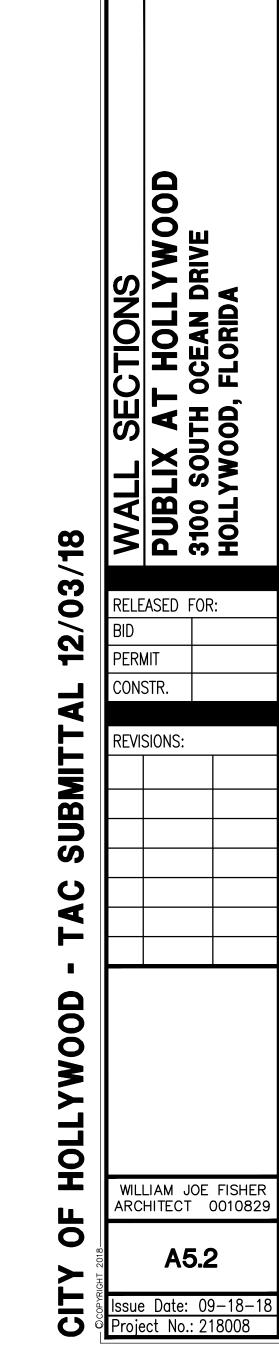
WILLIAM JOE EISHER

WAS BOUTH OCEAN DRIP

HOLLYWOOD, FLORIDA

HOLLYWOOD, FLORIDA







PUBLIX FRONT ELEVATION



PUBLIX RIGHT ELEVATION



SW 7562 ROMAN COLUMN



SW 6154 NACRE



SW 6421 CELERY

<u>PAINT</u>

SW 6424 TANSEY GREEN



SW7066 GRAY MATTERS



STONE

ELDORADO STONE COASTAL REEF -PEARL WHITE



LONGBOARD

LIGHT CHERRY LONGBOARD



HOLLYWOOD ELEVATED PUBLIX

HOLLYWOOD, FL





PUBLIX REAR ELEVATION



PUBLIX LEFT ELEVATION



HOLLYWOOD, FL





PAINT

SW 6154 NACRE

PAINT

SW 6421 **CELERY**

PAINT

SW 6424 TANSEY GREEN

PAINT

SW7066 GRAY MATTERS

STONE

ELDORADO STONE COASTAL REEF PEARL WHITE

LONGBOARD

LIGHT CHERRY LONGBOARD

11.14.18





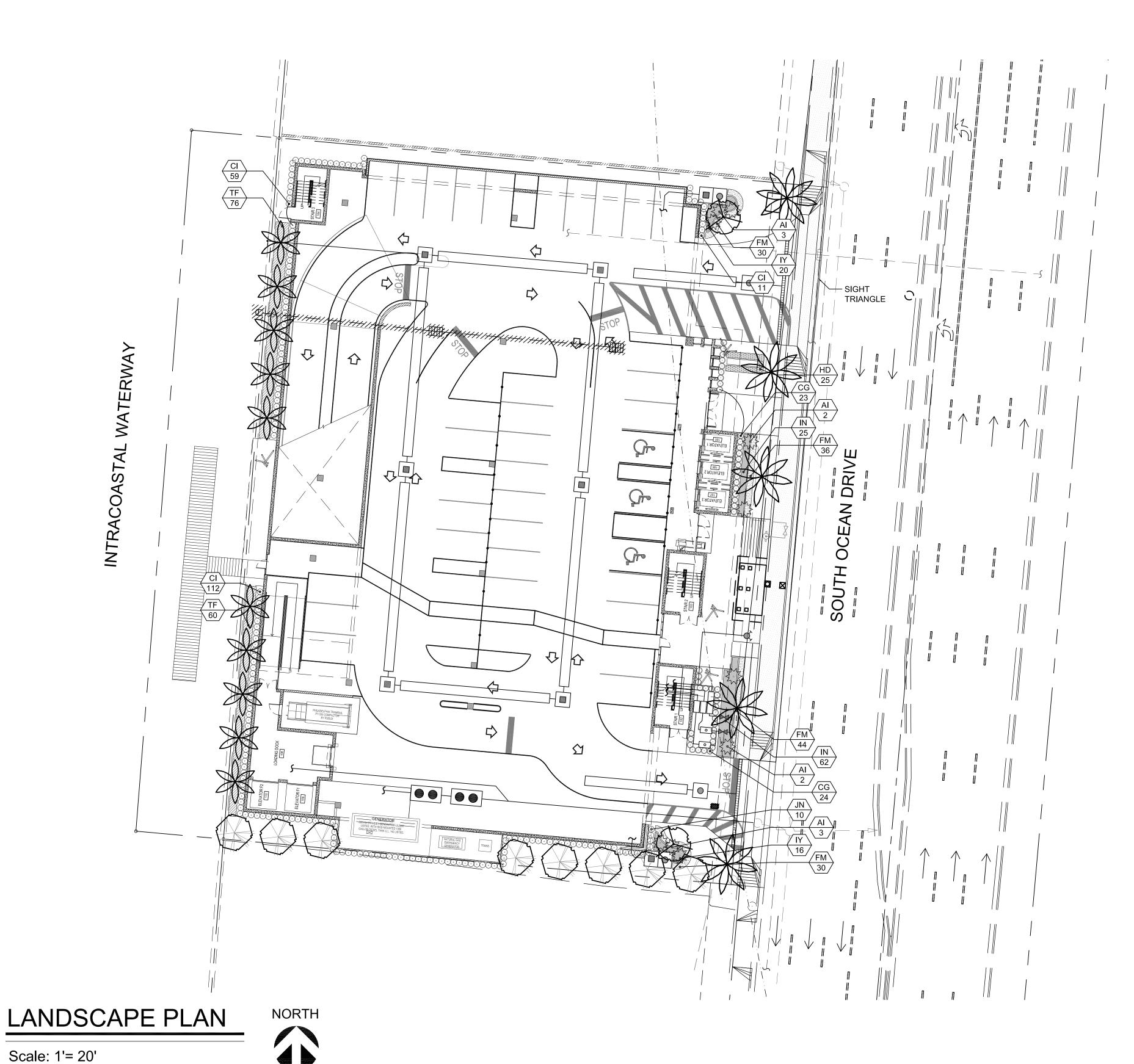




HOLLYWOOD ELEVATED PUBLIX

HOLLYWOOD, FL





HOLLYWOOD LANDSCAPE LEGEND

ZONE DISTRICT: PD

Gross Area: 42,744 sf Net Area: 42,024 sf Water Bodies: 0

LANDSCAPE REQUIREMENTS:

PERIMETER:

STREET TREES:
REQUIRED = 1 STREET TREE PER 50 L.F. TOTAL TREES REQUIRED = 116'/50' = 3 STREET TREES

TOTAL TREES PROVIDED = 3 PALMS (1 ROYAL PALM :1 TREE) =

NORTH LANDSCAPE BUFFER: LENGTH: 180'

SEE NOTE #1

ABUTTING RESIDENTIAL

REQUIRED = 1 TREE PER 20 L.F. TOTAL TREES REQUIRED = 180'/20' = 9 TREES

TOTAL TREES PROVIDED = 2 ROYAL PALMS + 7 COCONUT PALMS

SOUTH LANDSCAPE BUFFER: LENGTH: 120'

ABUTTING RESIDENTIAL REQUIRED = 1 TREE PER 20 L.F.

TOTAL TREES REQUIRED = 120'/20' = 6 TREES

TOTAL TREES PROVIDED = 6 TREES

<u>OPEN SPACE:</u> 4,900 S.F.

REQUIRED = 1 TREE PER 1,000 S.F.

TOTAL TREES REQUIRED = 4,900 S.F./1,000 S.F. = 5 TREES TOTAL TREES PROVIDED = 4 TREES + 3 COCONUT PALMS = 7 TREES

#1: ONLY 6" OF PLANTABLE SPACE ON NORTH

PALMS: MAXIMUM USE OF PALMS = 50%

13 / 23 = 56%.

= 25 TREES

OVERALL TREE CALCULATION:

TOTAL TREES REQUIRED = 23 TOTAL TREES PROVIDED = 23

REQUIRED = NO MORE THAN 50% OF REQUIRED TREES SHALL BE PALMS PALMS (1 PALM = 1 TREE)
TOTAL TREES REQUIRED = 23
TOTAL PALMS PROVIDED = 13 PALMS

BUFFER DUE TO POTENTIAL WALKWAY USING PLANTABLE SPACE ON-SITE

10 TREES + 15 PALMS (1 PALM:1 TREE)

TO MEET TREE COUNT REQUIREMENTS.

SOLID EVEN SOD

MITIGATION REQUIRED: 20" TREE DBH REMOVED, 7 PALMS REMOVED = 20" DBH AND (14) 8' CLEAR TRUNK PALMS

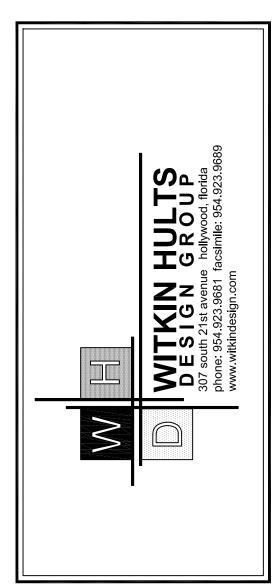
MITIGATION BREAKDOWN	REQ.	PROV.
TREE DBH REPLACEMENT: We are counting the 10 trees with 2" DBH towards mitigation	20" DBH	20" DBH
PALM REPLACEMENT: (14) 8' CLEAR TRUNK PALMS (2 palms required per 1 removed palm, (5) 8' Grey Wood Royal Palms and (10) 10' Grey Wood Coconut Palms used as mitigation.)	14	15

LANDSCAPE LIST

SYMBOL	QUAN.	PROPOSED MATERIAL	DESCRIPTION
K	_	*Roystonea elata	8' G.W., 26' O.A. HT. MIN.
	5	ROYAL PALM	F.G., MATCHED HTS.
2	*Conocarpus erectus 'sericeus'	10' HT. X 4' SPR. 2" DBH.	
	SILVER BUTTONWOOD	F.G.	
	0	*Ilex cassine	10' HT. X 4' SPR. 2" DBH.
	8	DAHOON HOLLY	F.G.
	10	Cocos nucifera 'Malayan'	10' G.W., 20' HT. MIN.
	10	GREEN MALAYAN COCONUT PALM	F.G.

200		GREEN MALAYAN COCONUT PALM	F.G.
		SHRUBS AND GROUNDCO	VERS
SYMBOL	QUAN.	PROPOSED MATERIAL	DESCRIPTION
Al	10	Alcantarea imperialis	2'-6" O.A. SPR.
Ai	10	IMPERIAL BROMELIAD	9" POT
CI	182	*Chrysobalanus icaco	24" HT. X 24" SPR. / 24" O.C.
	102	GREEN COCOPLUM	3 GAL.
CG	47	*Clusia guttifera	24" HT. X 24" SPR. / 24" O.C.
	47	SMALL LEAF CLUSIA	3 GAL.
FM	140	Ficus microcarpa 'Green Island'	15" HT. X 15" SPR. / 15" O.C.
1 101	140	GREEN ISLAND FICUS	3 GAL.
HD	25	*Helianthus debilis	12" HT. X 15" SPR. / 18" O.C.
	25	DUNE SUNFLOWER	1 GAL.
IN	87	Ixora 'Nora Grant'	18" HT. X 18" SPR. / 18" O.C.
"	07	IXORA	3 GAL.
IY	36	lxora 'Maui Yellow'	18" HT. X 18" SPR. / 18" O.C.
IT	30	YELLOW DWARF IXORA	3 GAL.
JN	10	Jasmine nitidum	24" HT. X 24" SPR. / 24" O.C.
JIN	10	STAR JASMINE	3 GAL.
TF	136	*Tripsacum floridana	18" HT. X 18" SPR. / 24" O.C.
	130	DWARF FAKAHATCHEE GRASS	3 GAL.
1 4 3 4 / 5 1	As	Stenotaphrum secundatum 'Floratam'	

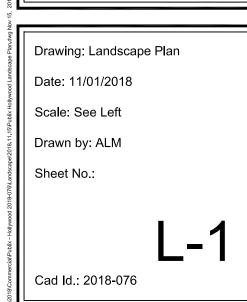
ST. AUGUSTINE GRASS * DENOTES NATIVE SPECIES

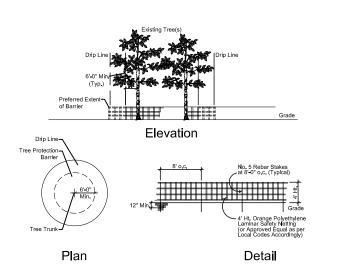


YWOOD **AN DRIVE** BLIX $\mathsf{P}\mathsf{U}$

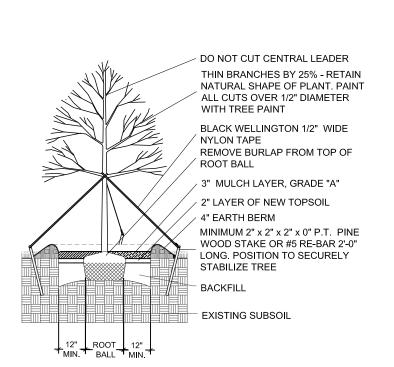
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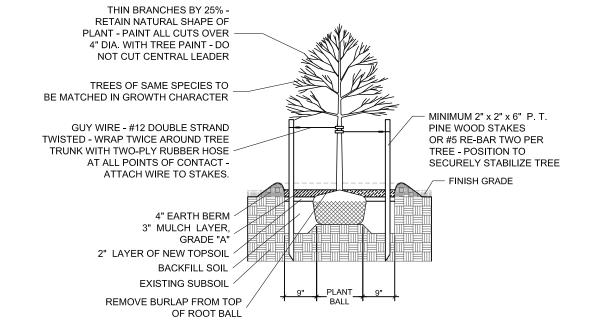




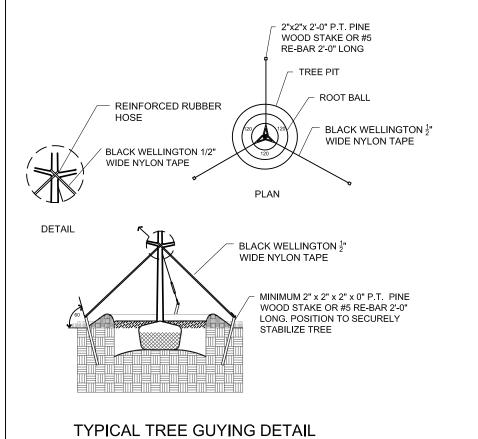
Tree Protection Barrier Detail

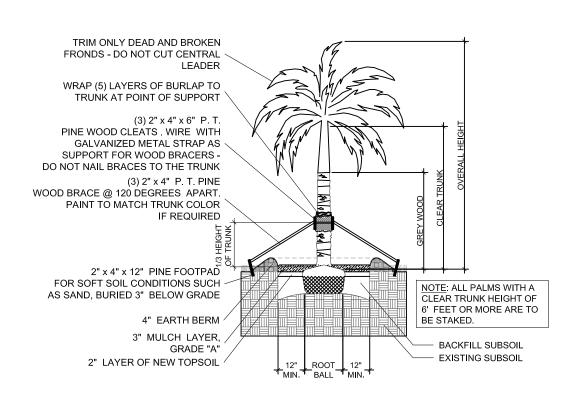


LARGE TREE PLANTING DETAIL

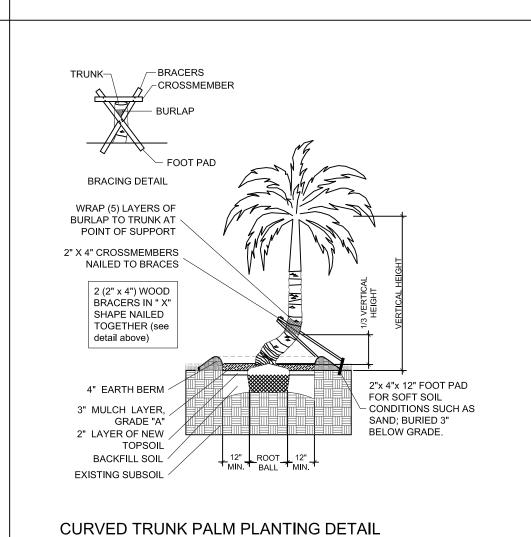


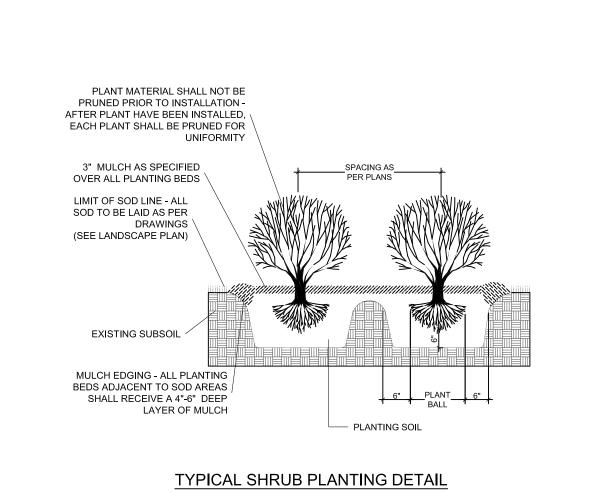
SMALL TREE PLANTING DETAIL

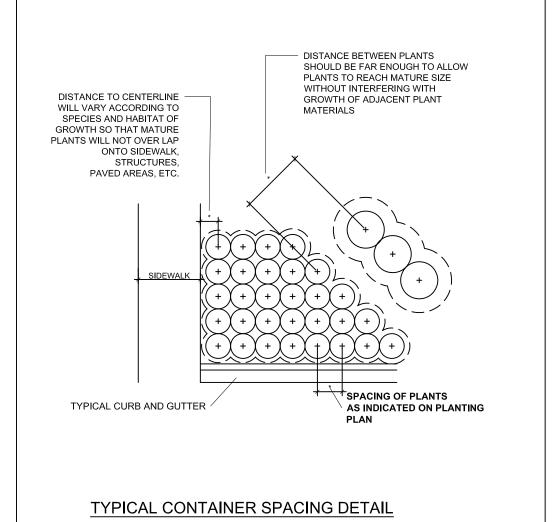


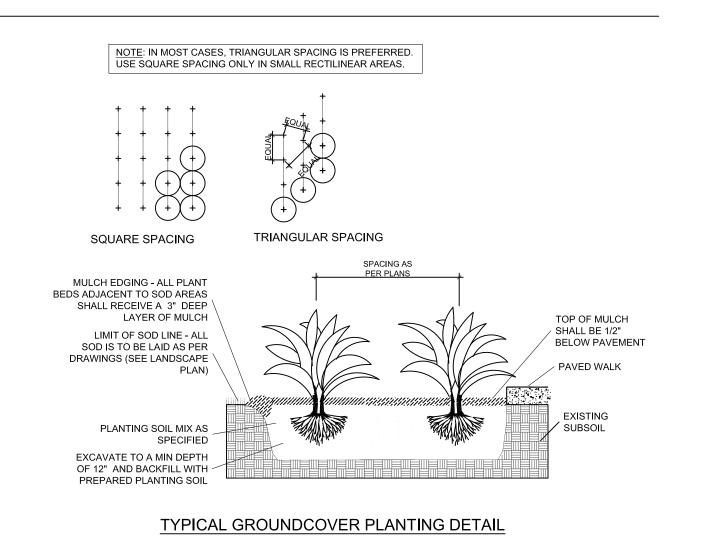


STRAIGHT TRUNK PALM PLANTING DETAIL









PLANTING NOTES:

-All plant material is to be Florida Number 1 or better pursuant to the Florida Department of Agriculture's Grades and Standards for Nursery Plants.

-All plants are to be top dressed with a minimum 3" layer of Melaleuca mulch, Eucalyptus mulch or equal.

-Planting plans shall take precedence over plant list in case of discrepancies.

-No changes are to be made without the prior consent of the Landscape Architect and Owner. Additions and or deletions to the plant material must be approved by the project engineer.

-Landscape Contractor is responsible for providing their own square footage takeoffs and field verification for 100% sod coverage for all areas specified.

- All landscape areas are to be provided with automatic sprinkler system which provide 100% coverage, and 50% overlap.
- All trees in lawn areas are to receive a 24" diameter mulched saucer at the base of the trunk.
- Trees are to be planted within parking islands after soil is brought up to grade. Deeply set root balls are not acceptable.
- Planting soil for topsoil and backfill shall be 50/50 mix, nematode free. Planting soil for annual beds to be comprised of 50% Canadian peat moss, 25% salt free coarse sand and 25% Aerolite.
- Tree and shrub pits will be supplemented with "Agriform Pells", 21 gram size with a 20-10-5 analysis, or substitute application accepted by Landscape Architect. Deliver in manufacturer's standard containers showing weight, analysis and name of manufacturer.

SOD NOTES:

-Sod is to be grade "A" weed free.

-All areas marked "LAWN" shall be solid sodded with St. Augustine 'Floratam' solid sod. See limit on plan. All areas marked 'Bahia Grass' shall be solid sodded with Paspalum.

-Provide a 2" deep blanket of planting soil as described in planting notes this sheet. Prior to planting, remove stones, sticks, etc. from the sub soil surface. Excavate existing non-conforming soil as required so that the finish grade of sod is flush with adjacent pavement or top of curb as well as adjacent sod in the case of sod patching.

-Place sod on moistened soil, with edges tightly butted, in staggered rows at right angles to slopes.

-Keep edge of sod bed a minimum of 18" away from groundcover beds and 24" away from edge of shrub beds and 36" away from trees, measured from center of plant.

-Sod Shall be watered immediatley after installation to uniformily wet the soil to at least 2" below the bottom of the sod

-Excavate and remove excess soil so top of sod is flush with top of curb or adjacent pavement or adjacent existing

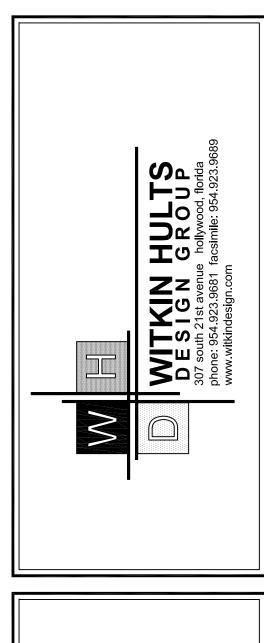
GENERAL NOTES:

-The Landscape Contractor is to locate and verify all underground and overhead utilities prior to beginning work. Contact proper utility companies and / or General Contractor prior to digging for field verification. The Owner and the Landscape Architect shall not be responsible for any damages to utility or irrigation lines (see Roadway Plans for more utility notes).

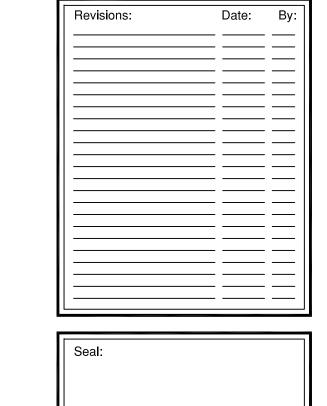
-Landscape Contractor is to verify all current drawings and check for discrepancies and bring to the attention of the Landscape Architect prior to commencing with the work.

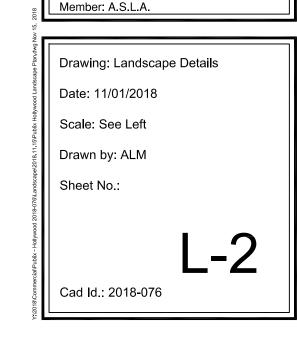
-All unattended and unplanted tree pits are to be properly barricaded and flagged during installation.

-All planting plans are issued as directives for site layout. Any deviations, site changes, etcetera are to be brought to the attention of the Landscape Architect for clarification prior to installation.

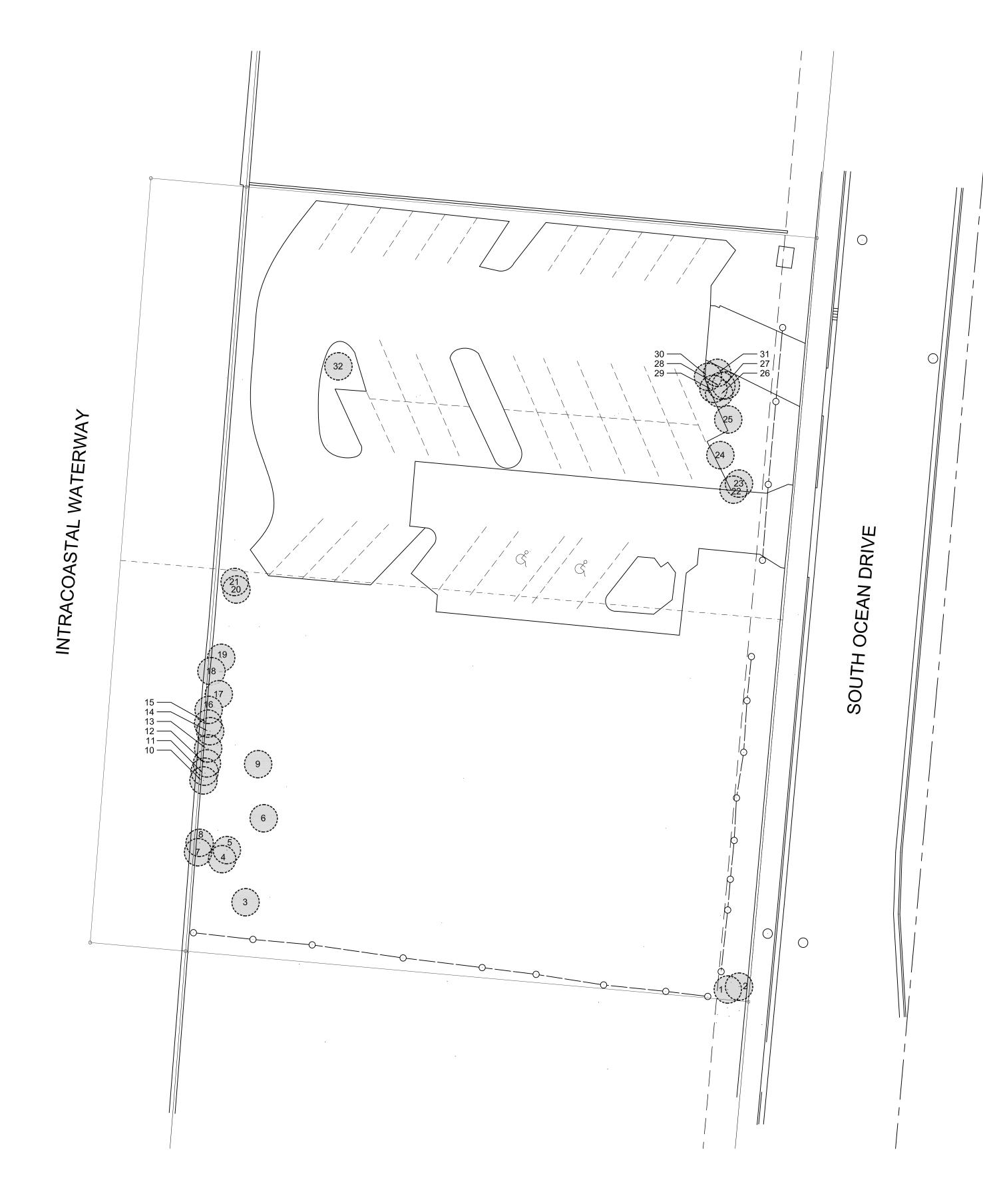








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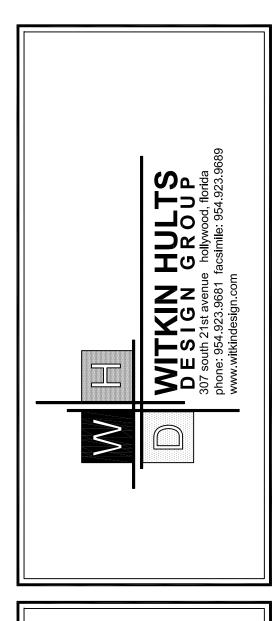


REE #	SCIENTIFIC NAME	COMMON NAME	DBH (IN)	HEIGHT (FT)	SPREAD (FT)	DISPOSITION	CANOPY
1	Schefflera arboricola	Umbrella Tree Cluster	(5) 4	18	15	Remove	706.50
2	Sabal palmetto	Cabbage Palm	12	16	8	Remove	200.96
3	Casuarina equisetifolia	Australian Pine	24	60	20	Remove	
4	Casuarina equisetifolia	Australian Pine	13	60	20	Remove	
5	Casuarina equisetifolia	Australian Pine	8	60	20	Remove	
6	Casuarina equisetifolia	Australian Pine	21	60	20	Remove	
7	Casuarina equisetifolia	Australian Pine	24	60	20	Remove	
8	Casuarina equisetifolia	Australian Pine	17	60	20	Remove	
9	Casuarina equisetifolia	Australian Pine	36	60	20	Remove	
10	Casuarina equisetifolia	Australian Pine	10	60	20	Remove	
11	Casuarina equisetifolia	Australian Pine	15	60	20	Remove	
12	Casuarina equisetifolia	Australian Pine	11	60	20	Remove	
13	Casuarina equisetifolia	Australian Pine	7	60	20	Remove	
14	Casuarina equisetifolia	Australian Pine	7	60	20	Remove	
15	Casuarina equisetifolia	Australian Pine	10	60	20	Remove	
16	Casuarina equisetifolia	Australian Pine	25	60	20	Remove	
17	Casuarina equisetifolia	Australian Pine	32	60	35	Remove	
18	Casuarina equisetifolia	Australian Pine	20	60	30	Remove	
19	Casuarina equisetifolia	Australian Pine	20	60	40	Remove	
20	Sabal palmetto	Cabbage Palm	12	6	10	Remove	314
21	Sabal palmetto	Cabbage Palm	10	8	10	Remove	314
22	Casuarina equisetifolia	Australian Pine	4	15	7	Remove	
23	Cocos nucifera	Coconut Palm	10	28	8	Remove	50.24
24	Cocos nucifera	Coconut Palm	10	25	8	Remove	50.24
25	Casuarina equisetifolia	Australian Pine	11	40	5	Remove	
26	Cocos nucifera	Coconut Palm	10	18	10	Remove	314
27	Casuarina equisetifolia	Australian Pine	4	15	15	Remove	
28	Casuarina equisetifolia	Australian Pine	3	15	15	Remove	
29	Casuarina equisetifolia	Australian Pine	6	15	15	Remove	
30	Casuarina equisetifolia	Australian Pine	7	15	15	Remove	
31	Casuarina equisetifolia	Australian Pine	9	15	15	Remove	
32	Roystonea regia	Royal Palm	18	35	15	Remove	706.50
	<u> </u>					Total Canopy Area (SF):	2,656.4

ALL EXISTING INVASIVE SPECIES AND EXISTING SHRUBS TO BE REMOVED ON SITE.

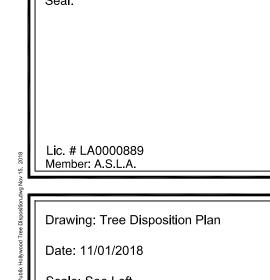
SYMBOL LEGEND

Tree to Remove



PUBLIX AT HOLLYWOOD
3100 S OCEAN DRIVE HOLLYWOOD, FL
TREE DISPOSITION PLAN

Revisions: Date: By:

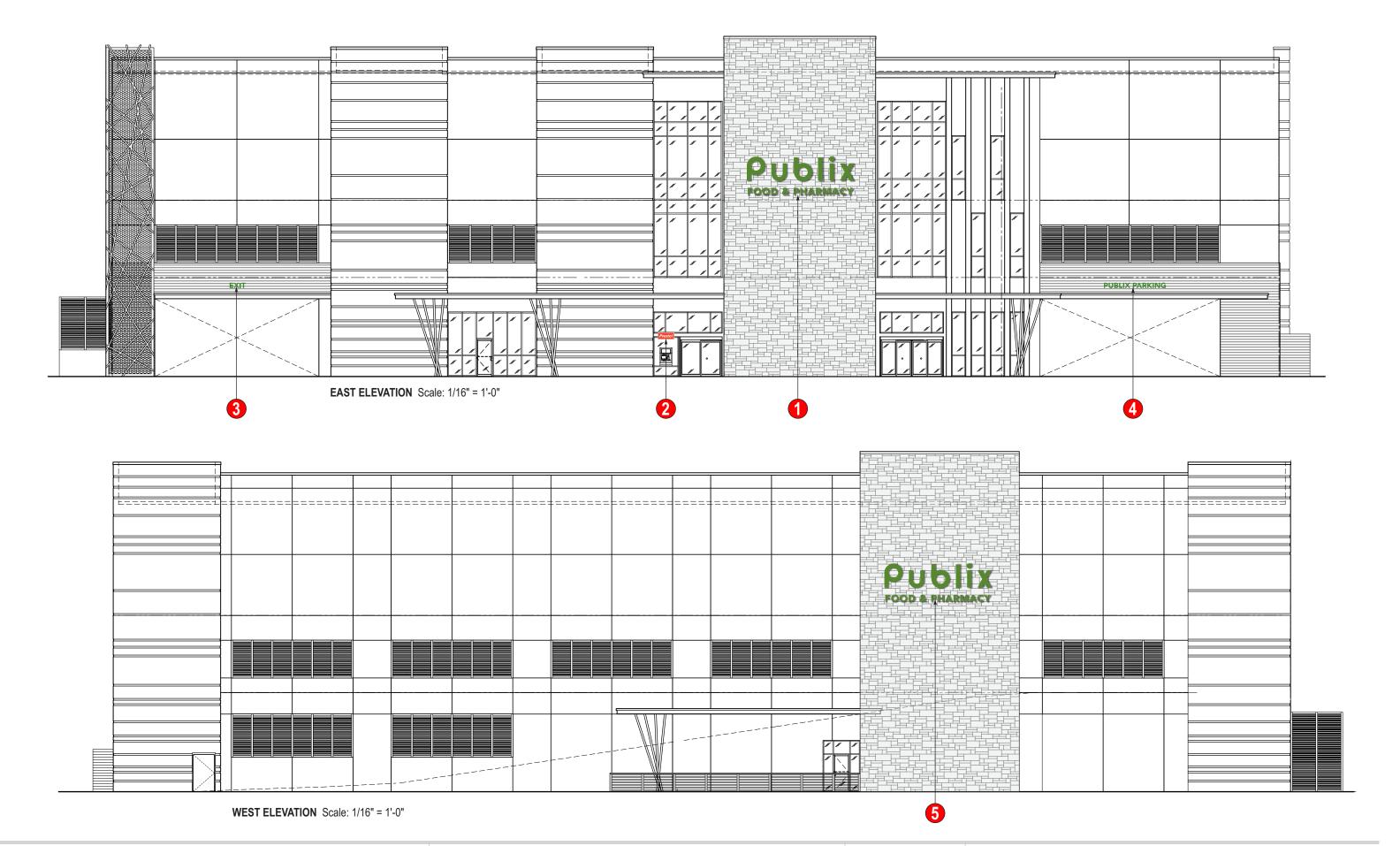


Drawing: Tree Disposition Plan
Date: 11/01/2018
Scale: See Left
Drawn by: ALM
Sheet No.:

TD-1
Cad Id.: 2018-076









National Headquarters: 1077 West Blue Heron Blvd. West Palm Beach, Florida 33404 800.772.7932 www.atlasbtw.com

Revisions:		PM: Joe Janelle	Address: SWC S Ocea	nolia Terrace	
		Drawn By: JS	City: Hollywood		State: FL
		Date: 10/31/2018	SO#: 96163	Drawing N	umber: 96163

Page Number: 2

Drawing Number: 96163-02



5" deep-Pan-formed faces -5" deep-Flat faces -Side View

120V Primary / 12V Secondary Total AMPS 4.25 Visible Disconnects (1) 20 Amp @ 120VAC (5) GEPS 12-60 @ .85 amps ea Power Supplies

1. All materials and fasteners meet 3004.4

Page Number: 3

- 2. All electrical components are UL listed and approved.3. Sign grounded according to NEC 600.7.
- 4. Signs manufactured and listed NEC 600.3 and marked per NEC 600.4.
- 5. All branch circuits per NEC 600.5(B).1 or (B).2.
- 6. All Signs controlled by photocell or time clock per NEC 2014, FBC 2017, 6th Edition.
- 7. One visible 20 amp disconnect per sign per circuit per NEC 600.6(A).1
- 8. All Class 2 rated LED modules and LED power supplies will be in compliance with Nationally Recognized Test

NOTE: Both sets of channel letters are mounted of fascia of the elevator shaft enclosure. Power to be supplied inside aluminum wireway on the inside of the wall.

SCOPE OF WORK:

Remove and discard existing channel letters. Manufacture and install new set of internally illuminated channel letters.

DESCRIPTION:

- 1. Letters are fabricated with .125 aluminum backs and painted (semi-gloss finish) with .063 aluminum returns @ 5" deep.
- 2. Letters are internally illuminated with energy efficient LED.
- 3. Letter faces are .177" SG Plus panformed

- 4. "PUBLIX" Pan-Formed faces are secured with 1" aluminum retainers
- 4. "F&P" Flat faces are secured with 1" Jewelite Trimcap

COLOR SCHEDULE:

Aluminum Returns = Painted PMS 363 Green (semi-gloss)

"PUBLIX" = 1" Aluminum Retainer painted PMS 363 Green (semi-gloss)

"F & P" = 1" Jewelite trimcap painted PMS 363 Green (semi-gloss)

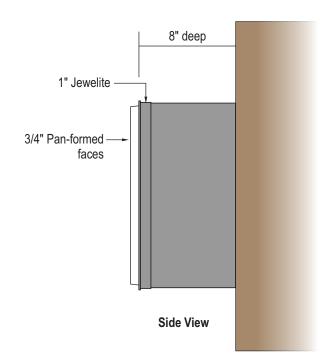
Acrylic Faces = .177 SG Plus PMS 363 Green

GE LEDs = Green

atlas BRANDING THE WORLD

National Headquarters: 1077 West Blue Heron Blvd. West Palm Beach, Florida 33404 800.772.7932 www.atlasbtw.com	Revisions:		PM: Joe Janelle	Address: SWC S Ocean Dr & Magnolia Terrace		
			Drawn By: JS	City: Hollywood		State: FL
			Date: 10/31/2018	SO#: 96163	Drawing N	umber: 96163-03





Total AMPS Circuits

State: FL

Page Number: 4

Drawing Number: 96163-04

Visible Disconnects (1) 20 Amp @ 120VAC Power Supplies (1) GEPS 12-60 @ .85 amps ea

1. All materials and fasteners meet 3004.4 All electrical components are UL listed and approved.
 Sign grounded according to NEC 600.7.
 Signs manufactured and listed NEC 600.3 and marked per NEC 600.4.

5. All branch circuits per NEC 600.5(B).1 or (B).2.

All Signs controlled by photocell or time clock per FBC 2010 505.2.3.

 One visible 20 amp disconnect per sign per circuit per NEC 600.6(A).1

SCOPE OF WORK:

Manufacture and install new Sign Cabinet with pan-formed sign face.

DESCRIPTION:

National Headquarters: 1077 West Blue Heron Blvd.

West Palm Beach, Florida 33404

800.772.7932

www.atlasbtw.com

- 1. New Sign Cabinet is fabricated from aluminum with painted finish.
- 2. Sign face is 3/4" pan-formed white polycarbonate with surface applied vinyl graphics.
- 3. Sign face is secured with 1" jewelite trimcap and is internally illuminated with fluorescent lamps.

COLOR SCHEDULE:

Sign Cabinet = Painted #331EC Silver (gloss)

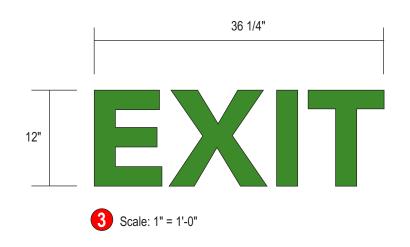
3M 3630-43 Light Tomato Red vinyl

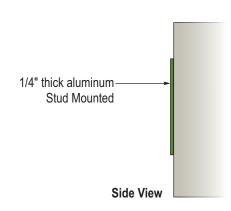
Jewelite Trimcap = Silver

Sign face = .177 white polycarbonate



Revisions: Address: SWC S Ocean Dr & Magnolia Terrace PM: Joe Janelle Drawn By: JS City: Hollywood Date: 10/31/2018 SO#: 96163





SCOPE OF WORK:

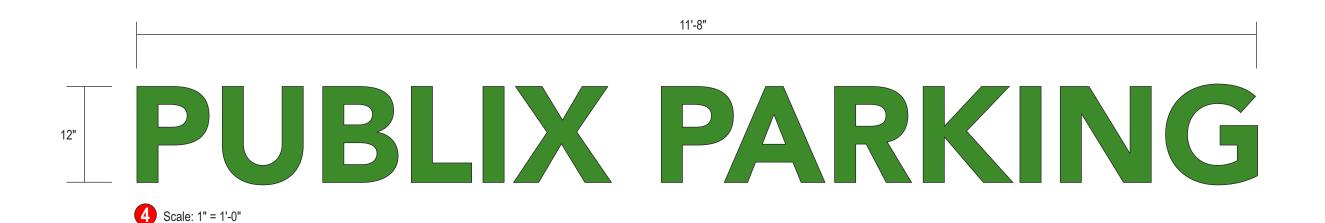
Manufacture and install FCO copy.

DESCRIPTION:

- 1. Copy is flat cut out from 1/4" thick plate aluminum.
- 2. Stud mounted to fascia with a painted finish.

COLOR SCHEDULE:

Painted PMS 363 Green (semi-gloss)





Revisions:	PM: Joe Janelle	Address: SWC S Ocean Dr & Magnolia Terrace			
	 Drawn By: JS	City: Hollywood		State: FL	
	 Date: 10/31/2018	SO#: 96163	Drawing N	umber: 96163-05	Page Number: 5