

PROJECT TEAM

<u>OWNER</u> CHABAD OCEAN SYNAGOGUE, INC. RABBI MENASHE KUDAN A: 5-1 SEACREST PKWY HOLLYWOOD, FL 33019	<u>CIVIL ENGINEER:</u> GGG ENGINEERING, INC MR. GARY BLOOM, P.E. 2699 STIRLING RD, SUITE C-202 FORT LAUDERDALE, FL, 33312 PH: 954-986-3893
<u>ARCHITECT</u> KALLER ARCHITECTURE MR. JOSEPH B. KALLER, P.A. FRL: JOSEPH@FAFILLA.COM 2411 HOLLYWOOD BLVD. HOLLYWOOD, FL 33020 P: (954) 920-5146 E: (954) 926-2841 E: joseph@kallerarchitects.com	<u>LANDSCAPE ARCHITECT:</u> THE MIRROR OF PARADISE MS. GABRIELA RUIZ, AIA, LA 3324 N OCEAN DRIVE FORT LAUDERDALE, FL 33308 PH: 954-478-3064
<u>SURVEYOR</u> JOHN IBARRA & ASSOCIATES, INC. MR. JOHN IBARRA A: 711 NUI TAND AVE. MIAMI, FL 33126 P: (305) 262-0400 E: (305) 262-0401 E: jibarra@ibarralandsurveyors.com	<u>SITE LIGHTING:</u> GENESIS LIGHTING MR. RYAN MCCARTHY 1401 NW 8 STREET SUNRISE, FL 33375 PH: 954.306.3931 FX: 954.306.3404

PROJECT DATA

LEGAL DESCRIPTION:
 LOT 15 AND 14, OF SEACREST, ACCORDING TO THE FLAT THEREOF AS
 RECORDED IN PLAT BOOK 23, PAGE 16, OF THE PUBLIC RECORDS OF BROWARD
 COUNTY, FLORIDA. (REFER TO ALTA SURVEY FOR FULL DESCRIPTION)

ADDRESS:
 5- 7 SEACREST PKWY
 HOLLYWOOD, FL 33019

FOLIO NUMBER:
 514226100100 - 514226100110

PROPERTY OWNER:
 CHABAD OCEAN DRIVE SYNAGOGUE, INC,

JURISDICTION:
 CITY OF HOLLYWOOD
 BROWARD COUNTY
 STATE OF FLORIDA

1. SITE DATA:

- ZONING
- EXISTING LAND USE:
- PROPOSED USE:

RY-25
 M363 - MEDIUM HIGH RESIDENTIAL
 ' PLACE OF WORSHIP

C. OCCUPANT LOADS:

NOTE: GROSS AREAS ARE MEASURED TO THE OUTSIDE FACE OF EXTERIOR
 WALLS AND GROSS LINE OF DIVIDING WALLS. NET AREAS ARE
 MEASURED TO THE INSIDE FACE OF FINISHED WALLS.

1. GROUND FLOOR

GALLERY	ASSEMBLY	30 NET	505 SF.	17 PERSONS
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2. SECOND FLOOR

LIBRARY	READING ROOM	50 NET	1016 SF.	20 PERSONS
OFFICES	BUSINESS	100 GROSS	498 SF.	5 PERSONS
PLAYROOM	DAYCARE	35 NET	418 SF.	12 PERSONS
SANCTUARY	ASSEMBLY (C)	1 NET	1511 SF.	224 PERSONS
JANITOR	ACCESSORY	300 GROSS	219 SF.	1 PERSONS
SUBTOTAL				262 PERSONS

3. THIRD FLOOR

KIDDUSH ROOM	ASSEMBLY (W)	15 NET	2025 SF.	135 PERSONS
KITCHEN		200 GROSS	728 SF.	4 PERSONS
STORAGE	ACCESSORY	300 GROSS	219 SF.	1 PERSONS
SUBTOTAL				140 PERSONS

4. FOURTH FLOOR

BRIDE ROOM	RESIDENTIAL	200 GROSS	195 SF.	1 PERSONS
CLASSROOM	EDUCATIONAL	20 NET	1055 SF.	53 PERSONS
JANITOR	ACCESSORY	200 GROSS	91 SF.	1 PERSONS
TERRACE	ASSEMBLY (W)	1 NET	1931 SF.	284 PERSONS

1. ELECTRIC VEHICLE (EV) CHARGING STATION/ PARKING.
2. RECYCLE BIN PROVIDED WITHIN TRASH ROOM.
3. CENTRAL AIR CONDITIONER OF 18 SEER OR HIGHER SHALL BE PROVIDED.
4. WINDOWS SHALL BE LOW-E.
5. DOORS SHALL BE ENERGY EFFICIENT.
6. ROOFING MATERIALS ARE ENERGY STAR RATED.
7. ALL THERMOSTATS PROVIDED SHALL BE PROGRAMMABLE.
8. 100% OF THE LANDSCAPING MEETS THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT RECOMMENDATIONS.
9. OUTDOOR LIGHTING SHALL BE ENERGY-EFFICIENT.
10. ALL HOT WATER PIPES HAVE A MINIMUM OF 1/2" INSULATION.

	<u>SITE</u>
T-1	COVER SHEET
SU-1	BOUNDARY SURVEY
DE-1	EXISTING/ DEMOLITION PLAN
SP-1	NEW SITE PLAN
SP-2	SITE DETAILS
SP-3	SITE DETAILS AND BUILDING SIGNAGE DETAILS
SL-1	SITE PHOTOMETRICS PLAN
SL-2	SITE PHOTOMETRICS SPECIFICATIONS

C-1	CIVIL ENGINEERING PLAN
C-2	PAVEMENT MARKINGS AND SIGNAGE PLAN
C-3	CONSTRUCTION DETAILS
C-4	CONSTRUCTION DETAILS
C-5	CONSTRUCTION DETAILS
C-6	CONSTRUCTION DETAILS
C-7	STORMWATER POLLUTION PREVENTION PLAN
C-8	STORMWATER POLLUTION PREVENTION PLAN
C-9	STORMWATER POLLUTION PREVENTION PLAN

DT-1	TREE RELOCATION PLAN
LP-1	LANDSCAPE PLAN (GROUND LEVEL), CODE, NOTES
LP-2	LANDSCAPE PLAN - ROOF GARDEN AND DETAILS
IR-1	IRRIGATION PLAN - GROUND LEVEL
IR-2	IRRIGATION PLAN - ROOF GARDEN, NOTES AND DETAILS
<u>ARCHITECTURE</u>	

A-1	GROUND FLOOR PLAN
A-2	SECOND FLOOR PLAN
A-3	THIRD FLOOR PLAN
A-4	FOURTH FLOOR PLAN
A-5	ROOF PLAN
A-6	FRONT ELEVATION (NORTH)
A-7	REAR ELEVATION (SOUTH)
A-8	SIDE ELEVATION (EAST)
A-9	SIDE ELEVATION (WEST)
A-10	EXTERIOR RENDERINGS

MEASURED TO THE INSIDE FACE OF FINISHED WALLS			
1. <u>GROUND FLOOR</u>			
GALLERY -----	ASSEMBLY	@ 30 NET	505 SF. 11 PERSONS
2. <u>SECOND FLOOR</u>			
LIBRARY -----	READING ROOM	@ 50 NET	1016 SF. 20 PERSONS
OFFICES -----	BUSINESS	@ 100 GROSS	490 SF. 5 PERSONS
PLAYROOM -----	DAYCARE	@ 35 NET	410 SF. 12 PERSONS
SANCTUARY -----	ASSEMBLY (C)	@ 7 NET	1511 SF. 224 PERSONS
JANITOR -----	ACCESSORY	@ 300 GROSS	278 SF. 1 PERSONS
SUBTOTAL -----			262 PERSONS
3. <u>THIRD FLOOR</u>			
KIDDUSH ROOM--	ASSEMBLY (W)	@ 15 NET	2,025 SF. 135 PERSONS
KITCHEN -----	KITCHEN	@ 200 GROSS	728 SF. 4 PERSONS
STORAGE -----	ACCESSORY	@ 300 GROSS	218 SF. 1 PERSONS
SUBTOTAL -----			140 PERSONS
4. <u>FOURTH FLOOR</u>			
BRIDGE ROOM ---	RESIDENTIAL	@ 200 GROSS	195 SF. 1 PERSONS
CLASSROOMS ---	EDUCATIONAL	@ 20 NET	1,055 SF. 53 PERSONS
JANITOR -----	ACCESSORY	@ 300 GROSS	91 SF. 1 PERSONS
TERRACE -----	ASSEMBLY (W)	@ 7 NET	1,931 SF. 284 PERSONS
SUBTOTAL -----			339 PERSONS
TOTAL -----			750 PERSONS

2017 FLORIDA BUILDING CODE
2018 FLORIDA FIRE PREVENTION CODE

1. OCCUPANCY TYPE _____ GROUP 'A' - ASSEMBLY
(SECTION 303.1)

2. CONSTRUCTION TYPE _____ TYPE IIIA
(SECTION 602)

3. ULTIMATE DESIGN WIND SPEED _____ 130 MPH
(FIGURE 1603.3)

4. RISK CATEGORY _____ CAT III
(SECTION 1604.5)

5. FIRE SPRINKLER _____ YES - FULLY AUTOMATIC
(SECTION 903.2.1)

6. FIRE ALARM _____ YES
(SECTION 907.2.1)

An aerial photograph of a modern, multi-story building with a prominent glass facade and a large, landscaped courtyard area. The building features a mix of light-colored stone or concrete panels and large glass windows. The courtyard is filled with greenery, including palm trees and other tropical plants. The building is situated in an urban environment, with other high-rise buildings visible in the background and a parking lot to the left. The sky is overcast, and the overall scene suggests a coastal or tropical location.

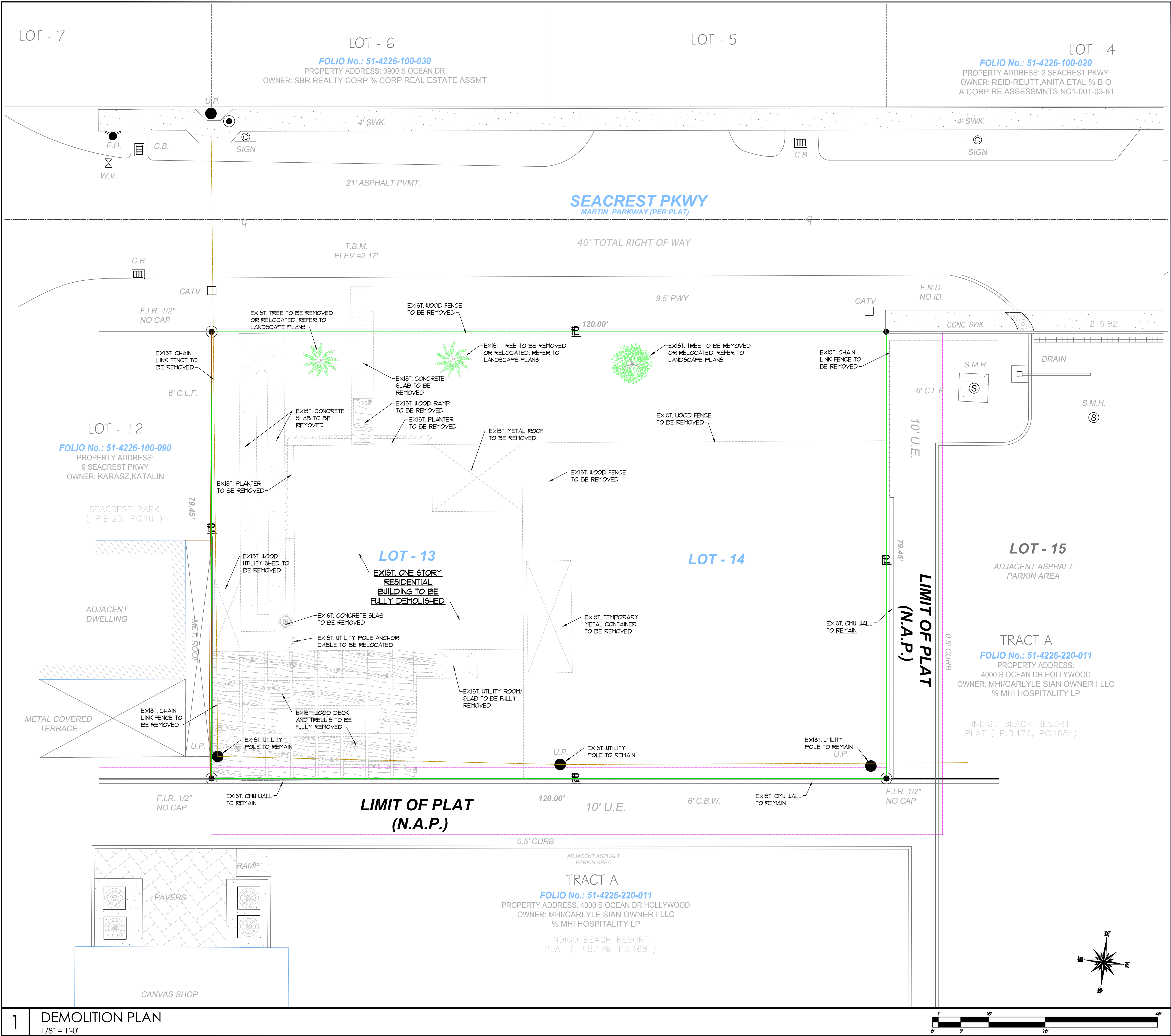
CHABAD OCEAN JEWISH CENTER

[illegible]

REVISIONS		
No.	DATE	DESCRIPTION

PROJECT No.: 18067
DATE: 12/21/2018
DRAWN BY: JP
CHECKED BY: JBK

T-1



- A. DEMOLITION CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE COMPLETE SCOPE OF SERVICES AND WORKING CONDITIONS AND REQUEST IN WRITING (RFI) ANY QUESTIONS OR COMMENTS PRIOR TO COMMENCING THE WORK.
- B. ALL APPLICABLE PERMITS FROM GOVERNING AUTHORITIES SHALL BE ISSUED FOR PROJECT PRIOR TO ANY DEMOLITION WORK.
- C. ALL UTILITIES SHALL BE TURNED OFF, DISCONNECTED, CAPPED OR REMOVED AS REQUIRED PRIOR TO ANY DEMOLITION WORK.
- D. CONTRACTOR MUST THOROUGHLY REVIEW ASBESTOS ABETMENT REPORT AND FOLLOW IN STRICT ACCORDANCE ALL LAWS AND REGULATIONS FOR ENCAPSULATION, REMOVAL, BAGGING AND DISPOSAL METHOD.
- E. PROVIDE SIGNAGE, BARRICADES, SUPPORT, POST SHORES, TEMPORARY PARTITIONS AS REQUIRED TO PROTECT SAFETY OF PERSONS AND ADJACENT STRUCTURES.
- F. CONTRACTORS MUST REMOVE ALL DEBRIS ON A DAILY BASIS AND KEEP SITE CLEAN, ALL SUEPT AND PROTECTED AT ALL TIMES FROM INCLEMENT WEATHER.
- G. ALL EXISTING PLUMBING FIXTURES AND FLOOR DRAINS SHALL BE DISCONNECTED, REMOVED, AND LINES CAPPED.

2 GENERAL DEMOLITION NOTES



3 LOCATION MAP

N.T.S.

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2417 Hollywood Blvd.
Hollywood Florida 33020
954.920.5746
joseph@kallerarchitects.com
www.kallerarchitects.com

SEAL

JOSEPH B. KALLER
FLORIDA R.A. # 0009239

CHABAD OCEAN JEWISH CENTER
7 SEACREST PKWY
HOLLYWOOD, FL 33019

DEMOLITION PLAN
GENERAL DEMOLITION NOTES

REVISIONS		
No.	DATE	DESCRIPTION

PROJECT No.: 18067
DATE: 12/21/2018
DRAWN BY: JP
CHECKED BY: JBK

SHEET

DE-1

1 DEMOLITION PLAN

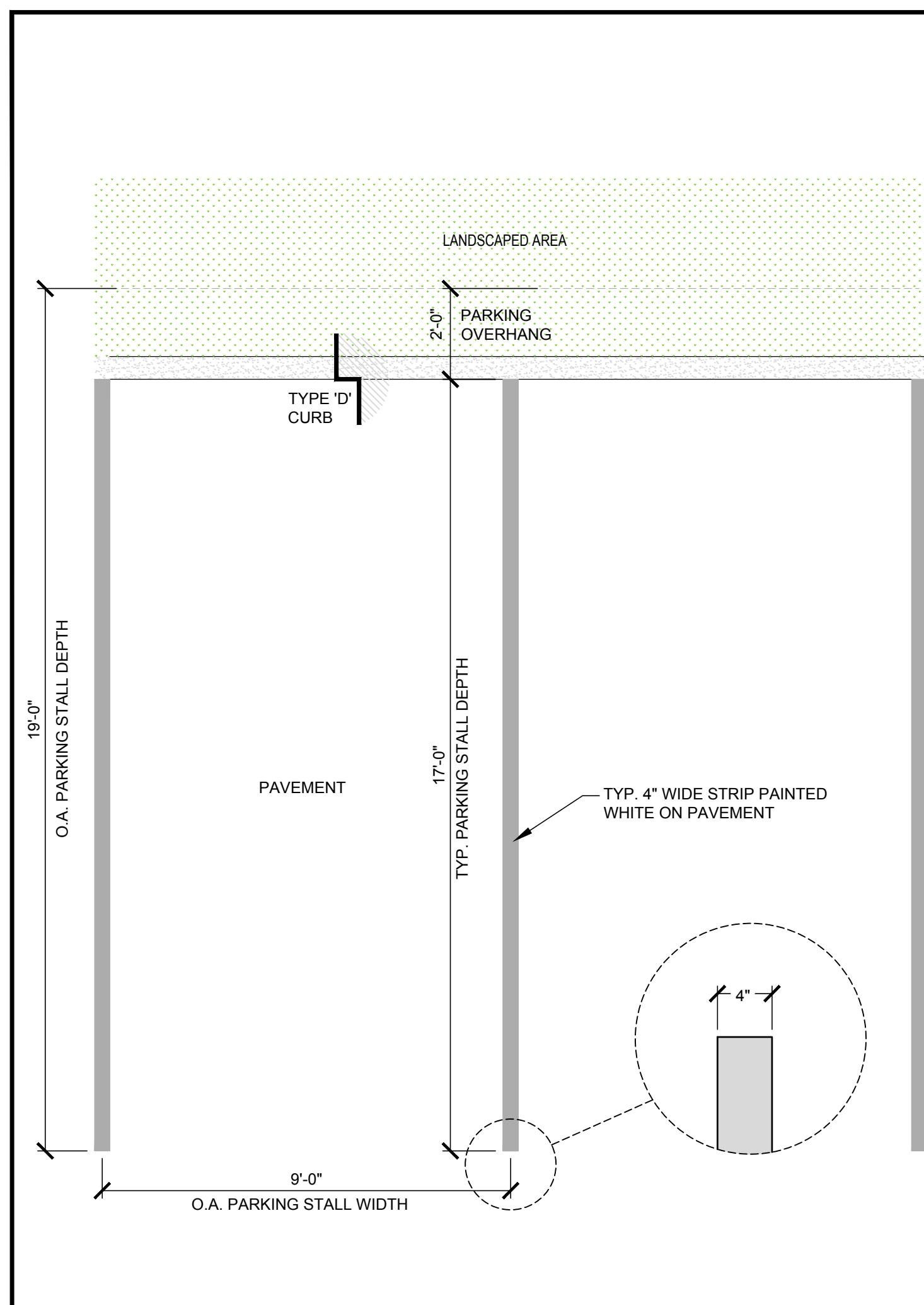
1/8" = 1'-0"

FOLIO No.: 51-4226-100-020
PROPERTY ADDRESS: 2 SEACREST PKWY
OWNER: REID-REUTT, ANITA ETAL % B O
A CORP RE ASSESSMNTS NC1-001-03-8

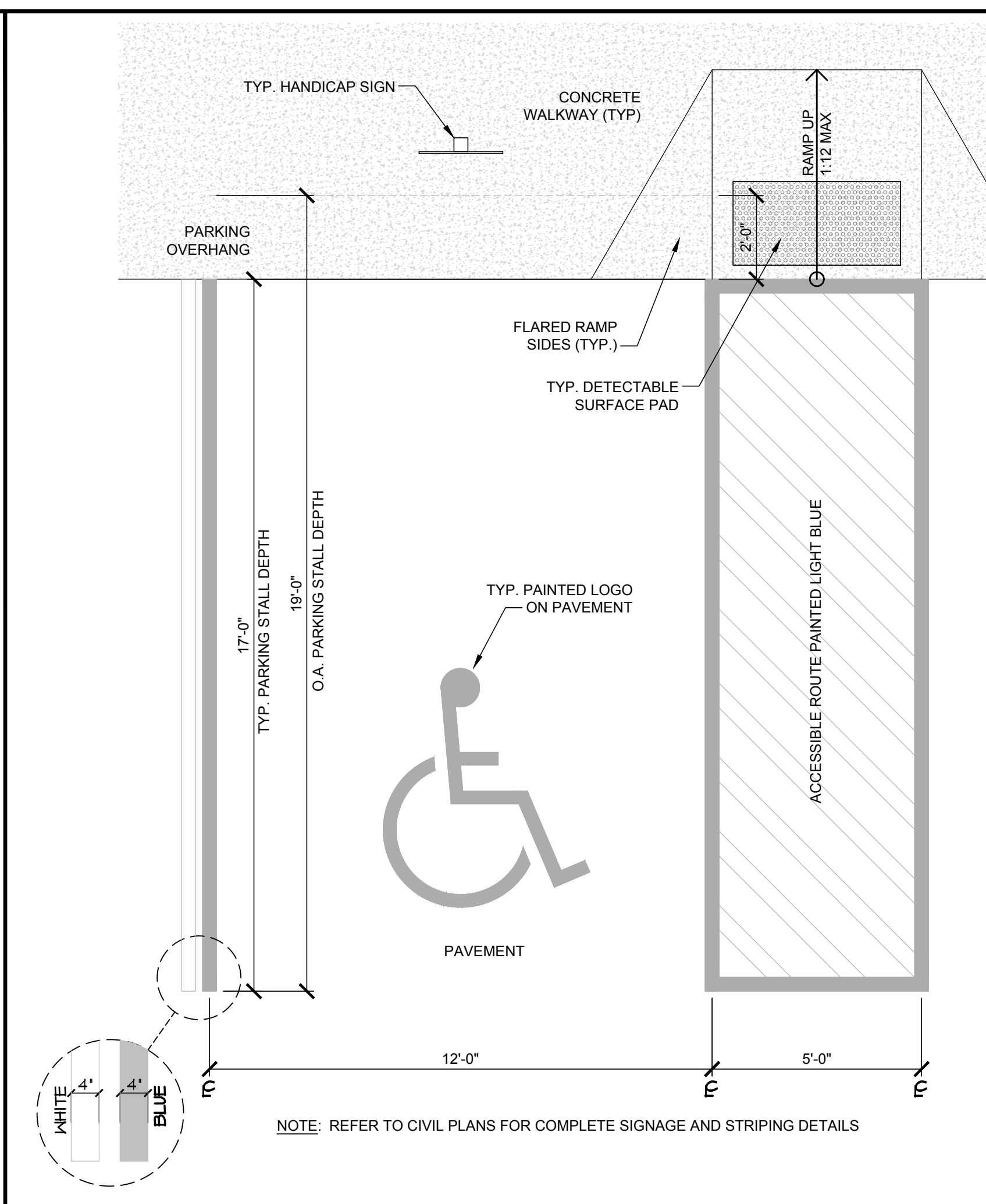


* NOTE: ASSEMBLY ROOMS SHALL BE USED INDEPENDENTLY AND NEVER AT THE SAME TIME.

SP-1



1	TYP. PARKING STALL N.T.S.
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2	TYP. HANDICAP PARKING STANDARDS N.T.S.
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ADA PARKING STANDARDS

ANY PART OF AN ACCESSIBLE ROUTE WITH A SLOPE GREATER THAN 1:20 SHALL BE CONSIDERED A RAMP AND SHALL COMPLY WITH FOLLOWING:

SLOPE AND RISE -

THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12. THE MAXIMUM RISE FOR ANY RUN SHALL BE 30 IN.

CLEAR WIDTH -

1. MINIMUM CLEAR WIDTH OF A RAMP SHALL BE 44" CLEAR
2. RAMPS THAT ARE PART OF A REQUIRED MEANS OF EGRESS SHALL BE NOT LESS THAN 44 INCHES CLEAR

LANDINGS -

RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP OF EACH RAMP AND EACH RAMP RUN. LANDINGS SHALL HAVE THE FOLLOWING FEATURES.

1. THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.
 2. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60 INCHES BY 60 INCHES.
 3. IF A DOORWAY IS LOCATED AT A LANDING, THEN THE AREA IN FRONT OF THE DOORWAY SHALL COMPLY
- FBC ACCESSIBILITY 2017

HANDRAILS -

IF A RAMP RUN HAS A RISE GREATER THAN 6 IN OR A HORIZONTAL PROJECTION GREATER THAN 72 IN THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS OR ADJACENT TO SEATING IN ASSEMBLY AREAS. HANDRAILS SHALL COMPLY WITH 4.26 OF THE ADA CODE AND SHALL HAVE THE FOLLOWING FEATURES:

1. HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG RAMPS SHALL ALWAYS BE CONTINUOUS.
2. HANDRAILS ON RAMPS WHICH ARE NOT CONTINUOUS SHALL EXTEND NOT LESS THAN 18" BEYOND THE SLOPED SEGMENT AT BOTH THE TOP AND BOTTOM, AND SHALL BE PARALLEL TO THE FLOOR OR GROUND SURFACE.
3. THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1-1/2 INCH
4. GRIPPING SURFACES SHALL BE CONTINUOUS.
5. TOP OF HANDRAIL GRIPPING SURFACES SHALL BE MOUNTED BETWEEN 34 IN AND 38 IN ABOVE RAMP SURFACES
6. ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL OR POST
7. HANDRAILS SHALL NOT ROTATE WITH THEIR FITTINGS.

CROSS SLOPE SURFACES -

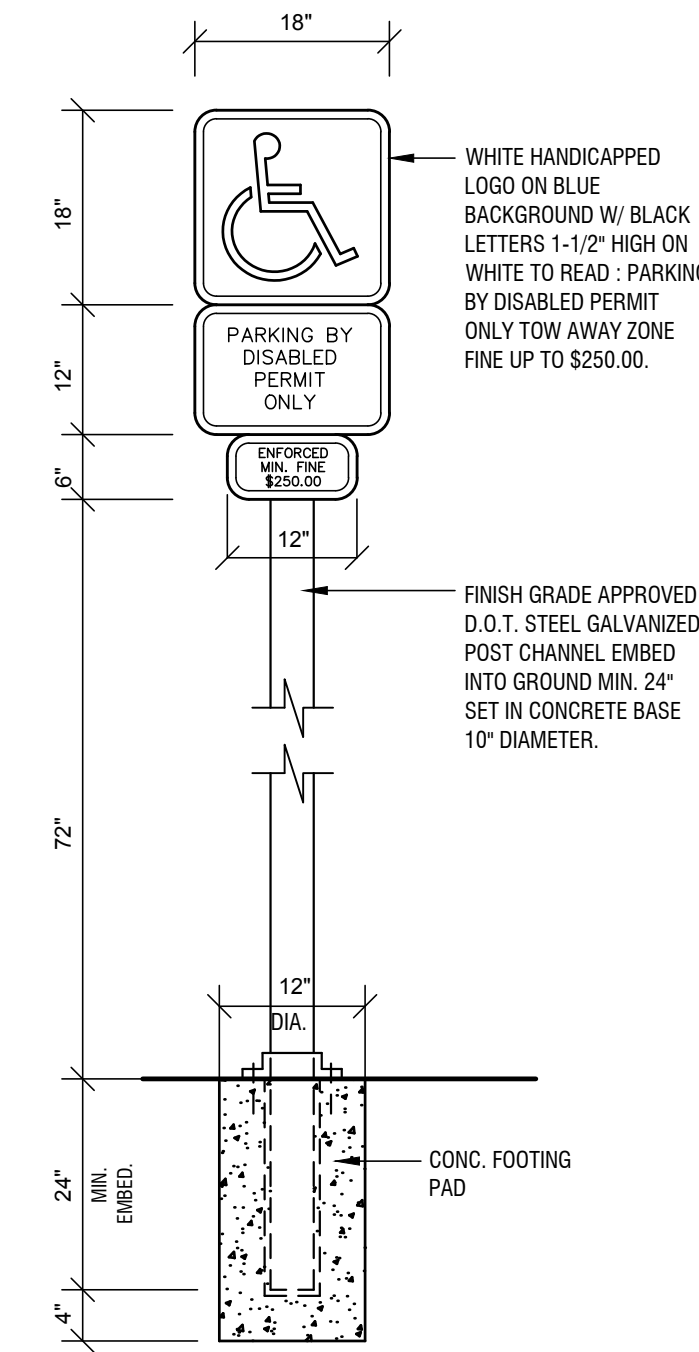
THE CROSS SLOPE OR RAMP SURFACES SHALL BE NO GREATER THAN 1:50. RAMP SURFACES SHALL COMPLY W/ CHAPTER 4 OF FBC 2017 ACCESSIBILITY CODE.

EDGE PROTECTION -

RAMPS AND LANDINGS WITH DROP-OFFS SHALL HAVE CURBS, WALLS, RAILINGS OR PROJECTING SURFACES THAT PREVENT PEOPLE FROM SLIPPING OFF THE RAMP. CURBS SHALL BE A MINIMUM OF 2 IN HIGH

OUTDOOR CONDITIONS -

OUTDOOR RAMPS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

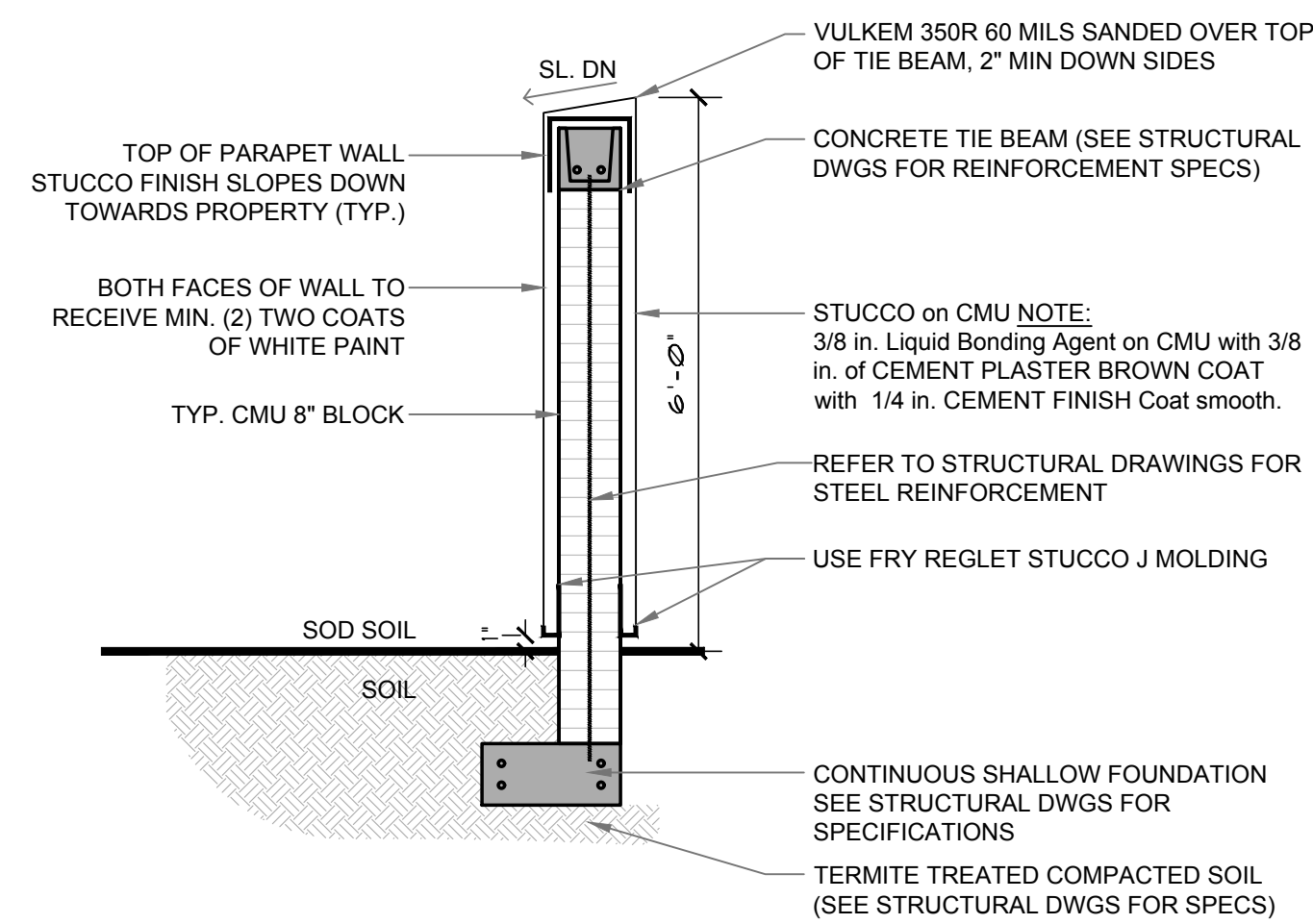


NOTES:

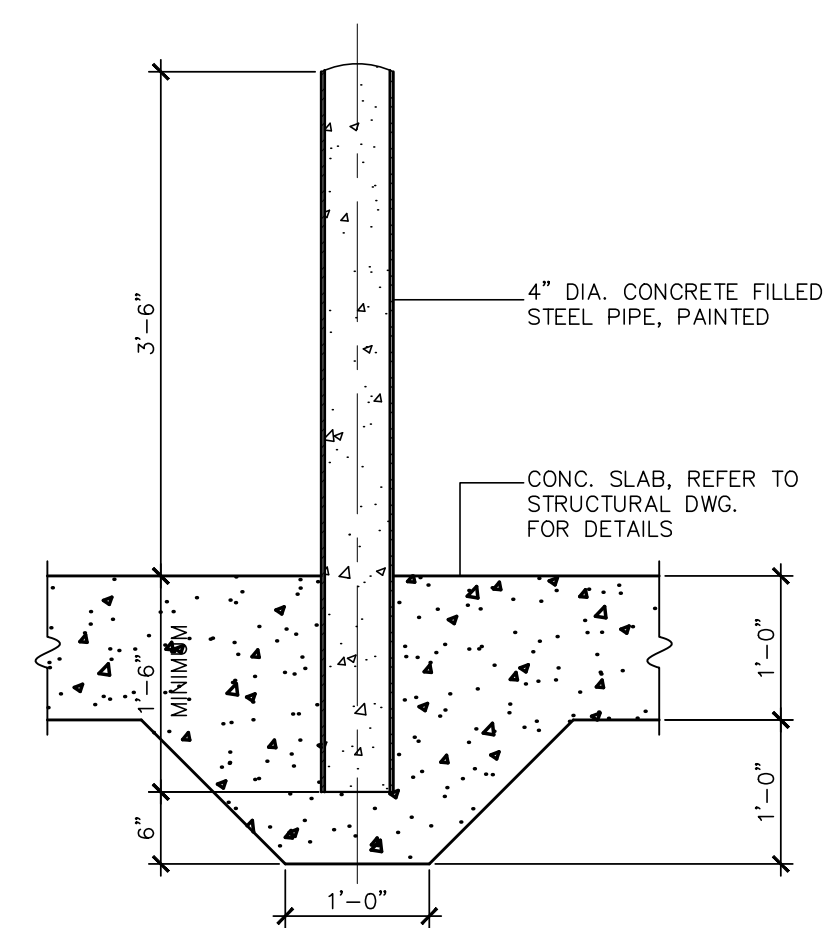
1. HANDICAPPED SIGN SHALL BE OF F.D.O.T. (BLUE) COLOR
2. PAVEMENT BORDER LINES (ONE ON EACH SIDE) OF THE HANDICAPPED SIGN WILL BE OF A BLUE COLOR OF A QUALITY EQUIVALENT TO SUPER STRIPE TRAFFIC PAINT SOLD BY FOX VALLEY SYSTEMS, INC. OF CARY, ILLINOIS, PHONE 1-800-323-4770. SHALL BE STRIPED ON THE WEARING SURFACE OF EACH SPACE DESIGNED FOR THE HANDICAP PARKING SPACE.
3. ALL LETTERS IN MIDDLE PORTION OF SIGN ARE 1.5" SERIES AT 1' 5" SPACING.
4. ALL LETTERS IN BOTTOM PORTION OF SIGN ARE 1" SERIES AT 1" SPACING.
5. MINIMUM FINE SHALL BE \$250.00 OR AS ESTABLISHED BY GOVERNING MUNICIPALITY.

EACH ACCESSIBLE PARKING SPACE MUST BE PROMINENTLY OUTLINED WITH BLUE PAINT AND REPAINTED AS NECESSARY TO BE CLEARLY DISTINGUISHABLE AND MUST BE POSTED WITH A PERMANENT ABOVE GRADE SIGN BEARING INTERNATIONAL SYMBOL OF ACCESSIBILITY MEETING COLORS AND DESIGNS APPROVED BY THE DEPARTMENT OF TRANSPORTATION CAPTIONED "PARKING BY DISABLED PERMIT ONLY" AND COMPLYING WITH THE GOVERNING MUNICIPALITY IN WHICH PROJECT IS LOCATED AND MEETING FLORIDA A.D.A. COMPLIANCE STANDARD AS MINIMUM.

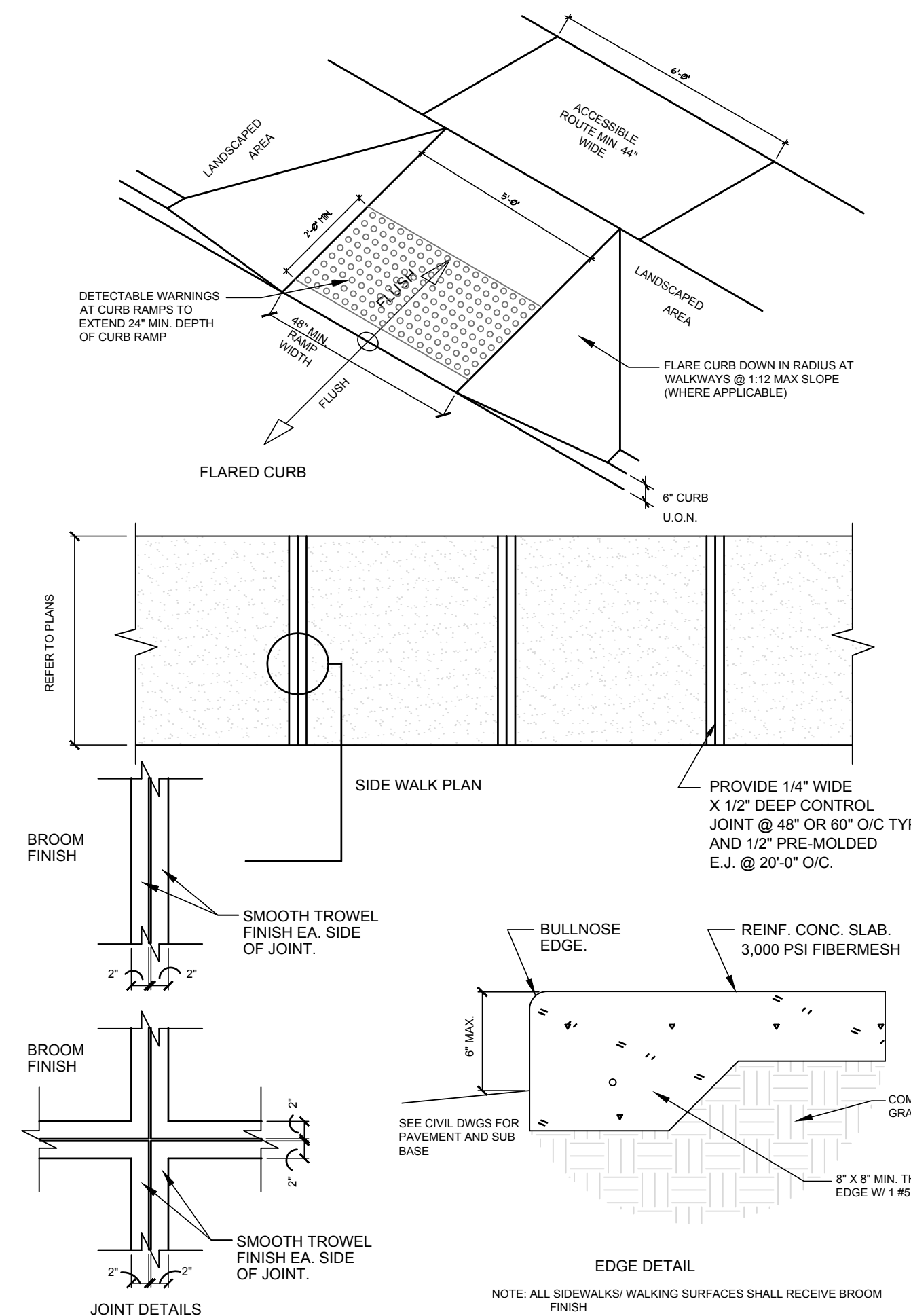
3	TYP. HANDICAP PARKING SIGN N.T.S.
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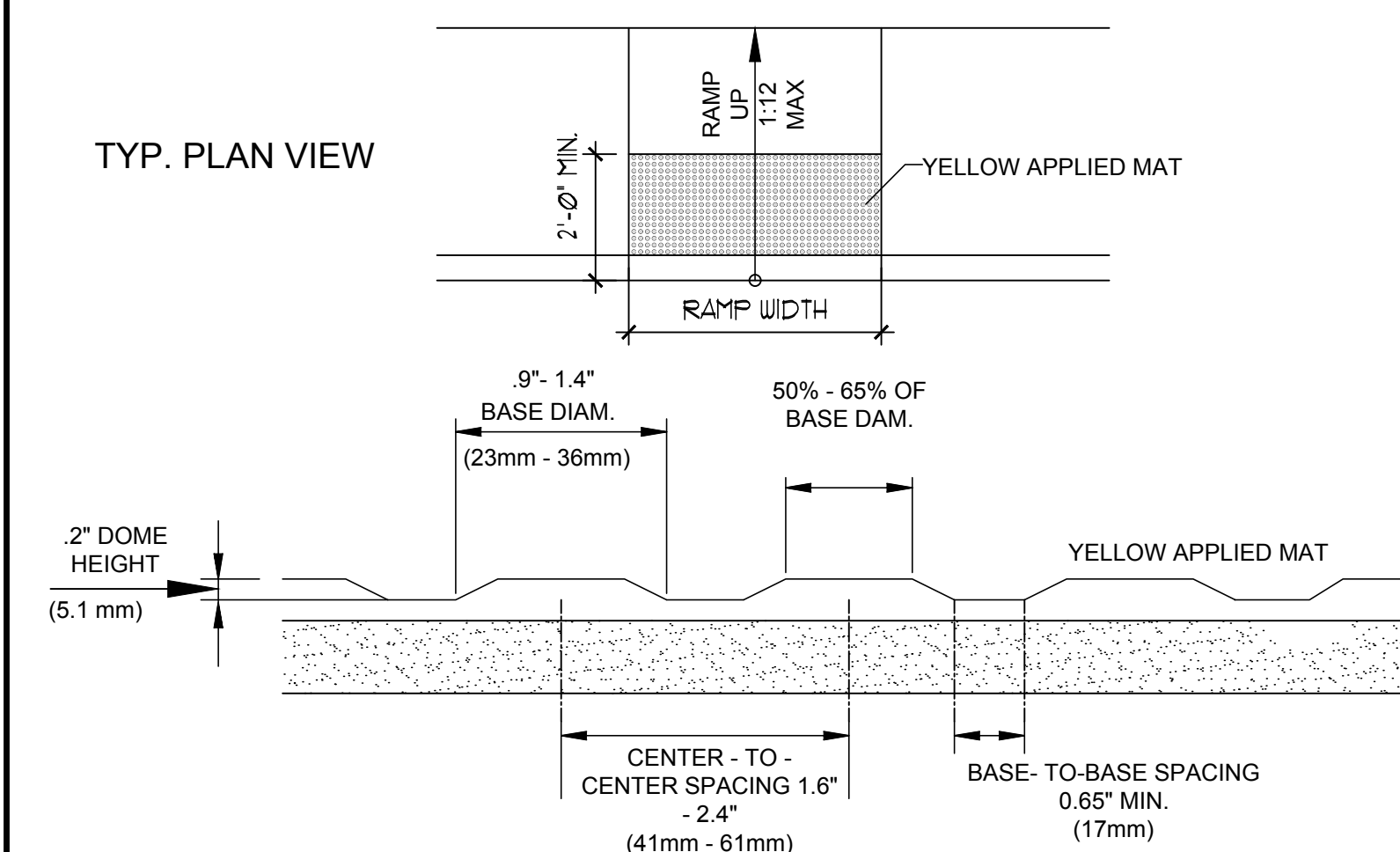
3	TYP. RESIDENTIAL SIDE DEMISING WALL SECTION N.T.S.
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4	TYP. BOLLARD GUARD DETAIL N.T.S.
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5	TYP. SIDEWALK DETAILS N.T.S.
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- DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
- DETECTABLE WARNING SURFACES AT PLATFORM BOARDING EDGES SHALL BE 24 INCHES (610 mm) WIDE AND SHALL EXTEND THE FULL LENGTH OF THE PUBLIC USE AREAS OF THE PLATFORM.
- CURB RAMPS SUBJECT TO DEPARTMENT OF TRANSPORTATION REGULATION 49 CFR 37.21 SHALL HAVE A DETECTABLE WARNING COMPLYING WITH FBC 705. THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP (EXCLUSIVE OF FLARED SIDES) AND SHALL EXTEND EITHER THE FULL DEPTH OF THE CURB RAMP OR 24 INCHES (610mm) DEEP MINIMUM, MEASURE FROM THE BACK OF THE CURB ON THE RAMP SURFACE.
- DETECTABLE WARNING AT CURB RAMPS SUBJECT TO D.O.T REGULATION 49 CFR 37.21
- ALL RAMPS SHALL RECEIVE A DETECTABLE TREATMENT.
- CURB RAMPS SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.
- NO CURB RAMP MAY EXIST WITHIN ANY DISABLED PARKING STALL OR AISLE.
- MAXIMUM SLOPE OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO CURB RAMP OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20.
- THE MAXIMUM SLOPE OF ANY RAMP SHALL NOT EXCEED 1:12 AND WIDTH 48" MINIMUM.

6	TYP. DETECTABLE SURFACE DETAIL N.T.S.
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www.kallerarchitects.com

EAL

JOSEPH B. KALLER
FLORIDA R.A. # 0009239

**CHABAD OCEAN
JEWISH CENTER**
7 SEACREST PKWY
HOLLYWOOD, FL 33019

SITE PHOTOMETRICS PLAN

REVISIONS		
No.	DATE	DESCRIPTION

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This drawing, as an instrument of service, is and shall remain the property of the Architect and shall not be reproduced, published or used in any way without the written permission of the Architect.

PROJECT No.: 18067

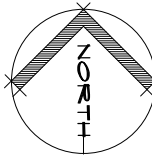
DATE: 12/21/2018




DRAWN BY: JP

CHECKED BY: JB

HEET

SL-1



Luminaire Schedule					
Symbol	Qty	Label	Description	LLF	Lum. Lumens
	6	SA	CREE LTG#: IG-NM-5S-A-40K-UL-WH / MTD AT 9' AFG	0.900	3910
	2	SB	LIGHTWAY #: BUXW-9-LED-10W-4K / WALL MTD AT 7' AFF	0.900	1180
	4	SC	ATLANTIC LTG#: LED6-SYL11-4K-6LED-FR-CL-DBGS / MTD AT 9' AFF	0.900	814

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING AREAS	Illuminance	Fc	3.95	7.7	1.0	3.95	7.70
PROPERTY LINES	Illuminance	Fc	0.11	0.3	0.0	N.A.	N.A.
WALKWAY AREAS	Illuminance	Fc	3.67	11.0	1.2	3.06	9.17

JOB: 7 SEACREST SYNAGOGUE TYPE: SA IG-A-NM-SS-A-40K-UH-WX-XX

IG Series

LED Parking Garage Luminaire

Product Description

Cree innovates again to reset the performance benchmark in parking garage applications with the IG Series featuring WaveMax™ Technology, our innovative optical waveguide platform. Available in 33 watt and 65 watt, two lumen packages are offered to satisfy IESNA RP20-14 Basic and IESNA Security Zone 0-103 requirements for environments seeking higher light levels for improved safety and security. The streamlined design breaks away from dated traditional designs, blending form and function, to deliver superior low-glare illumination.

Applications: Parking garages

Performance Summary

Utilizes Cree WaveMax™ Technology
Initial Delivered Lumens: 3,910 or 7,500 lumens
Input Power: 33 or 65 watts
Efficacy: 118 or 115 LPW
Optic: Type V Short Distribution
Made in the U.S.A. of U.S. and imported parts
CCT: 4000K (+/- 300K), 5700K (+/- 500K)
CRI: Minimum 80 CRI
Limited Warranty*: 10 years on luminaire

Accessories

Field-Installed
Hand-Held Remote
AA-BATTERIES
* For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately.

Example: Mount: IG-JB WH + Luminaire: IG-A-NM-SS-A-40K-US-WH-PH.

Mount (Luminaire must be ordered separately)		WH	
IG-JB Junction Box	IG-PS Junction Box	SPECIFY	Color Options: WH White

Luminaire (Mount must be ordered separately)		WH	
IG-A	NM	SS	
Product	Version	Mounting	Optic
IG-A	A	NM	SS
		180° Beam	Type V Short
		33W, 3300 lumens - 118 LPW	400K, 4000K, 57W, 5700K
		65W, 7500 lumens - 115 LPW	



US: www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

Rev. Date: V1 04/24/2015



Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

architectural

RECESSED

LED 6" lensed

1100, 1500, 2000 or 3000 lumens

frame-in kit

- This fixture is universal 120-277V when using the standard 0-10V dimming driver at the 2000 lumen level or lower. Voltage must be specified when using optional drivers and on any 3000 lumen fixtures. A (3) designated fixture will be for 347V, contact factory for specs.

- Universal mounting brackets provide tool-less adjustability and will accept the supplied hanger bars or optional #517 and #520 Caddy bars. Also accepts C channel.

- Electroplated zinc plated steel hanger bars are included as factory standard. Bars extend to 24" and offer self-nailing and additional mounting features.

- 5-year LED component warranty details at atlantic-lighting.com/main/support.

OSRAM Sylvania LED Module

- White lens when off
- Superior quality white LED light
- 80+ CRI
- Rated Life: 50,000 hours at 70% lumen maintenance (L70) when maintained in a 45°C ambient environment with open air flow. Ambient temperatures lower than 45°C may extend life of module.

OSRAM Sylvania Electronic LED Driver

- Dimmable, instant 100% light (1% - 100%) via: 0-10V protocol. See driver spec.

Passive Heat Sink

- Black anodized aluminum

This LED fixture is intended for non-IC applications, insulation must be kept 3" away from fixture on all sides. Not for use within enclosures.

Listed for Wet Location under covered ceiling. Listed to UL 1598 and Canadian standards. ENERGY STAR® qualified (120V/277V and with standard driver only). Air Tight certified to ASTM E285-04 with -AT trim option. Photometrics at atlantic-lighting.com.

Specifications and dimensions subject to change without notice.



T: 508 678-5411 | F: 508 678-5408 www.atlantic-lighting.com

Project:

Type:

Catalog number:

ordering data

FRAME-IN KIT

SERIES Architectural 6" LED

LUMENS*

SYL11 1100 lumen module

SYL15 1500 lumen module

SYL20 2000 lumen module

SYL30 3000 lumen module (must specify voltage)

COLOR TEMPERATURE

27K 2700K

3K 3000K

35K 3500K

40K 4000K

5K 5000K

VOLTAGE

U Universal 120V-277V

1 120V

2 277V

3 347V Contact Factory

DIMMING

L3D 0-10V DC standard, leave box blank

L3D Lutron® EcoSystem® and 3-wire (100%-1%)

LDE Lutron® EcoSystem® (100%-1%, Fade-to-Black™)

LTE Lutron® 2-wire forward phase (100%-1%) (120V only)

DAL (Type 6, EDCS285) Driver Dimming to 0.1%

DMX DMX Driver with RDM capability, Dimming to 0.1%

Must specify voltage with optional dimming

OPTIONS

LEM Emergency Pack, Bodine #65, 17C-12 or equivalent

CP Requires legal frame, Chicago Plenum

TRIM KIT

Refer to left for part numbers. Specify finish & other below.

Finishes

SS Specular clear

SS Semi-specular clear

WH Matte white

Other

PF Polished flange

GB Gasket under flange

DBGS Double gasket under flange and with a silicone sealed lens

AT Air tight (not offered with LEM)

*Listed lumens and wattages are component measurements. See photometrics for fixture values.

P/N Example: LED6-SYL11-27K-U / 6LEDPR-CL

LED6-SYL11-27K-U / 6LEDPR-CL

series lumens voltage temp options trim kit finish

IG Series LED Parking Garage Luminaire

Product Specifications

CREE WAVEMAX™ TECHNOLOGY

Featuring up to 90% optical efficiency and precise control, Cree WaveMax™ Technology provides unmatched comfort and decreased LED source luminance by smoothly spreading brightness over a broader area. When integrated with luminous surfaces made of a polymer medium engineered with DiamondAce™ micro-lenses, extremely high efficacy luminaires are the result—ultimately creating more visually comfortable and appealing environments while exceeding illumination performance.

CONSTRUCTION & MATERIALS

- Impact resistant white polycarbonate housing and acrylic lenses
- Corrosion resistant anodized aluminum top plate
- Low profile, lightweight design provides ease of installation
- J-Bar mounting bracket mounts directly over existing 4" (102mm) square, rectangular or octagonal junction boxes only
- Pendant mount includes 66" (1.67mm) wires out of luminaire and is intended to be mounted by 3/4" IP pendant (by others)
- Weight: 10 lbs. (4.5kg)

OPTICAL SYSTEM

- WaveMax™ Technology that improves optical control, optical efficiency, energy efficiency and the overall visual experience
- Acrylic Lenses with DiamondAce™ Micro-lenses
- Unmatched low-glare comfort and decreased LED source luminance by smoothly spreading brightness over the optical lenses
- 8% Uplight

ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Input Power: Stays constant over life
- Operating Temperature Range: 40°C + 40°C (-40°F + 104°F)
- Integral 5kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

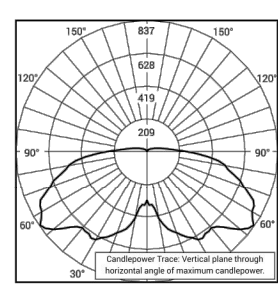
REGULATORY & VOLUNTARY QUALIFICATIONS

- Pending cULus Listing
- Suitable for wet locations
- Suitable for operation in ambient not exceeding 40°C (104°F)
- Pending IP66 enclosure rating per IEC 60529
- Pending 9kV surge suppression protection tested in accordance with IEEE/ANSI C82.41.2
- Meets FCC Part 15 standards for conducted and radiated emissions

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/lighting

SS



IG-A-NM-SS-A-40K-US

Initial Delivered Lumens: 3,910

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Electrical Data*		Total Current	
Input Power Designator	System Watts	System Watts	System Watts
	120V	208V	240V
A	33	35	0.34
J	65	69	0.67

*Electrical data at 25°C (77°F)

Recommended IG Series Lumen Maintenance Factors (LMF)		25K hr Projected ¹ LMF	
Ambient	Input Power Designator	50K hr Projected ¹ LMF	75K hr Projected ¹ LMF
8°C (46°F)	A	1.04	1.00
10°C (50°F)	A	1.03	0.99
15°C (59°F)	A	1.02	0.98
20°C (68°F)	A	1.01	0.97
25°C (77°F)	A	1.00	0.96
30°C (86°F)	A	0.99	0.95
35°C (95°F)	A	0.98	0.94
40°C (104°F)	A	0.97	0.93

*Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaires testing.

**For more information on the IES LM-80 (Backlighting) data sheet, visit: www.iesna.org/IESNA-80-08

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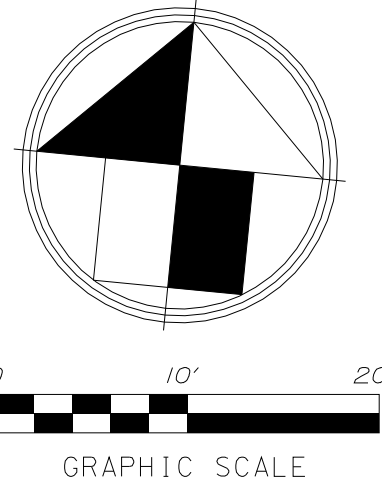
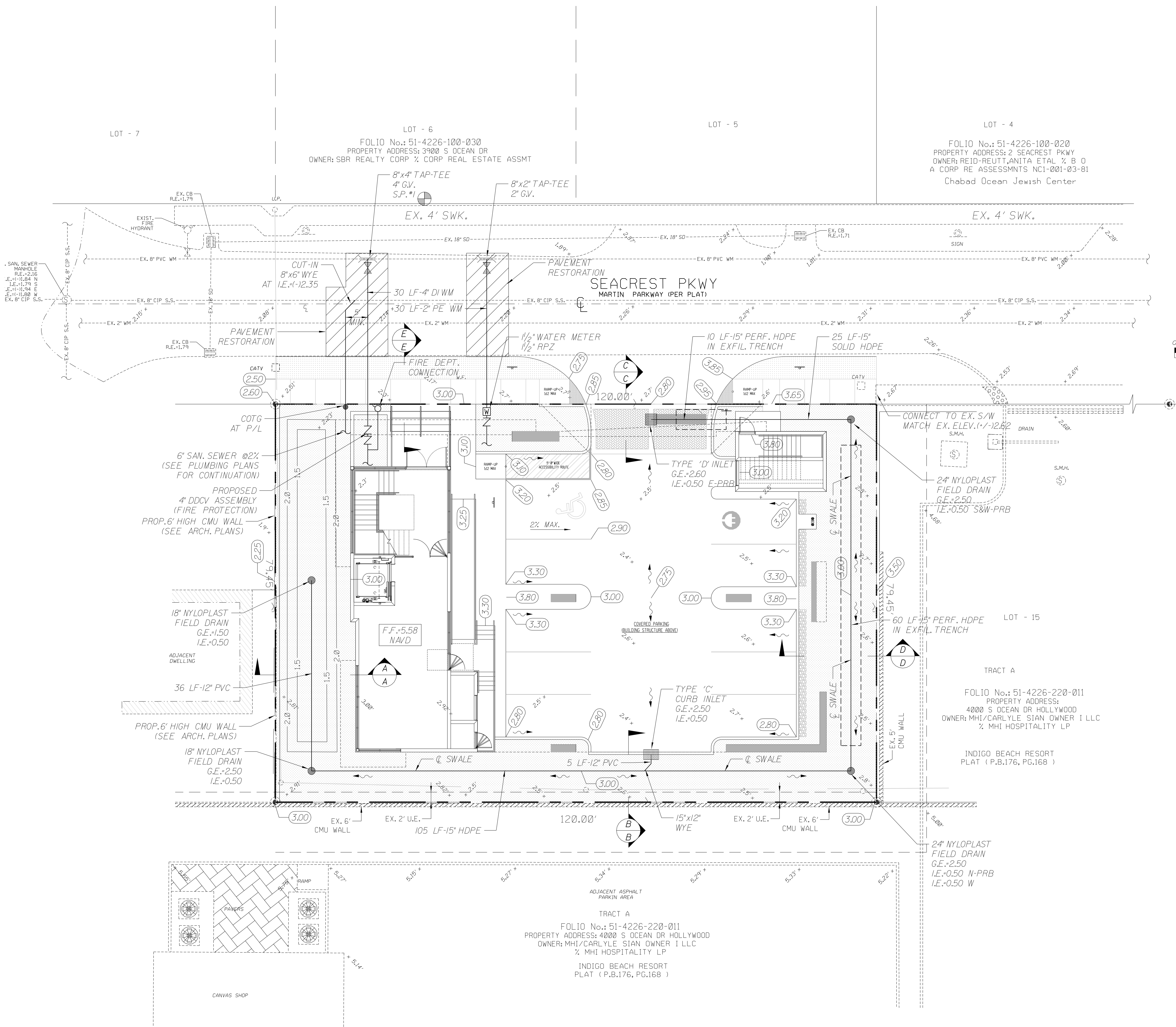
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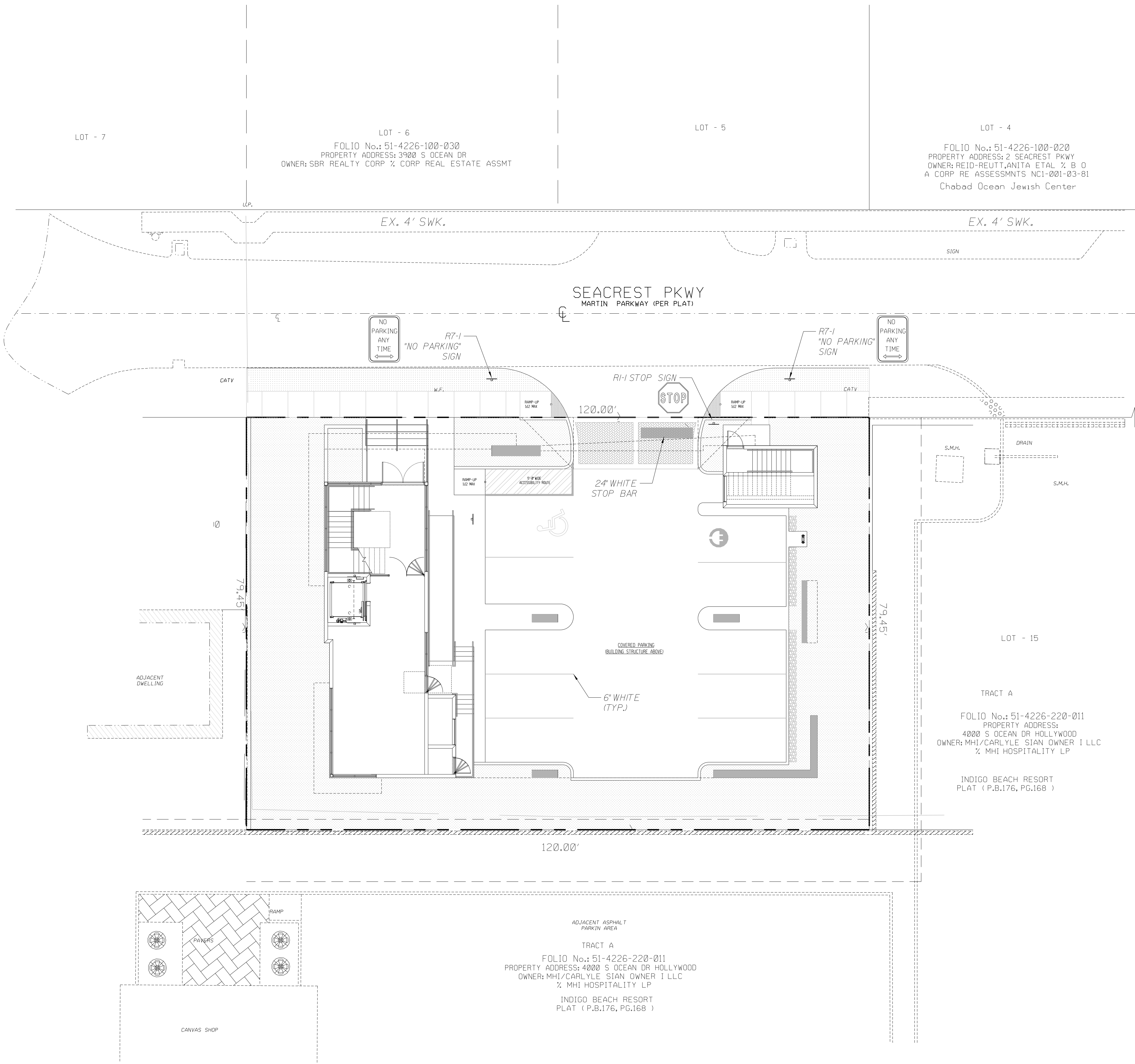


NOTE:
UNDERGROUND FIRE MAIN WORK
WILL BE COMPLETED BY A CONTRACTOR
HOLDING CLASS I, II OR V LICENSE
PER FS 633.102

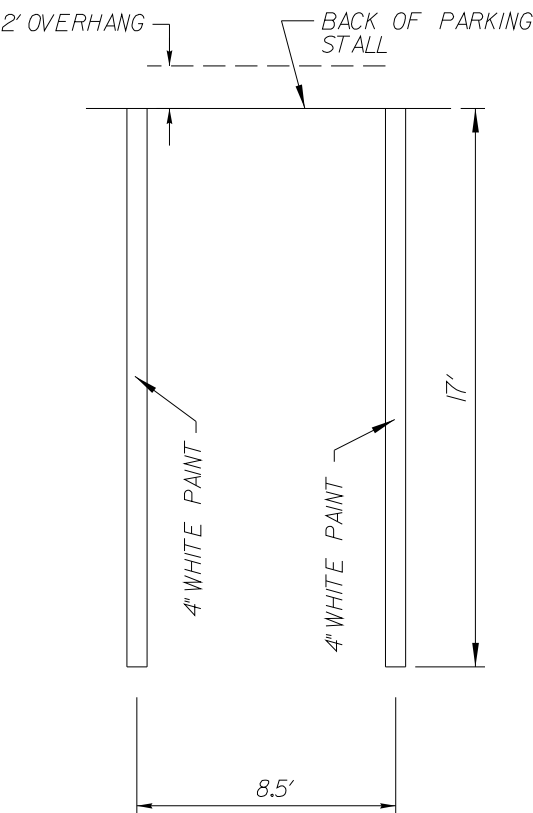
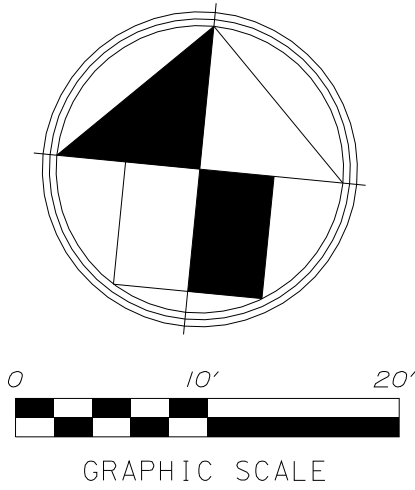
LEGEND	
	DOUBLE WATER METER SERVICE
	SINGLE WATER METER SERVICE
	LENGTH, SIZE & TYPE OF WATER MAIN
	FIRE HYDRANT, GATE VALVE & TEE ASSEMBLY
	PROPOSED GATE VALVE
	BACTERIOLOGICAL SAMPLING POINT
	CLEANOUT TO GRADE
	R.E. RIM ELEVATION
	G.E. GRATE ELEVATION
	I.E. INVERT ELEVATION
	F.F. FINISHED FLOOR ELEVATION
	DIRECTION OF OVERLAND FLOW
	POLLUTION RETARDANT BASIN
	EXISTING OR FUTURE UTILITIES
	EXISTING GRADE
	PROPOSED GRADE

NOTE:
ALL EXISTING AND PROPOSED GRADE ELEVATIONS
REFER TO 1988 NAVD DATUM.

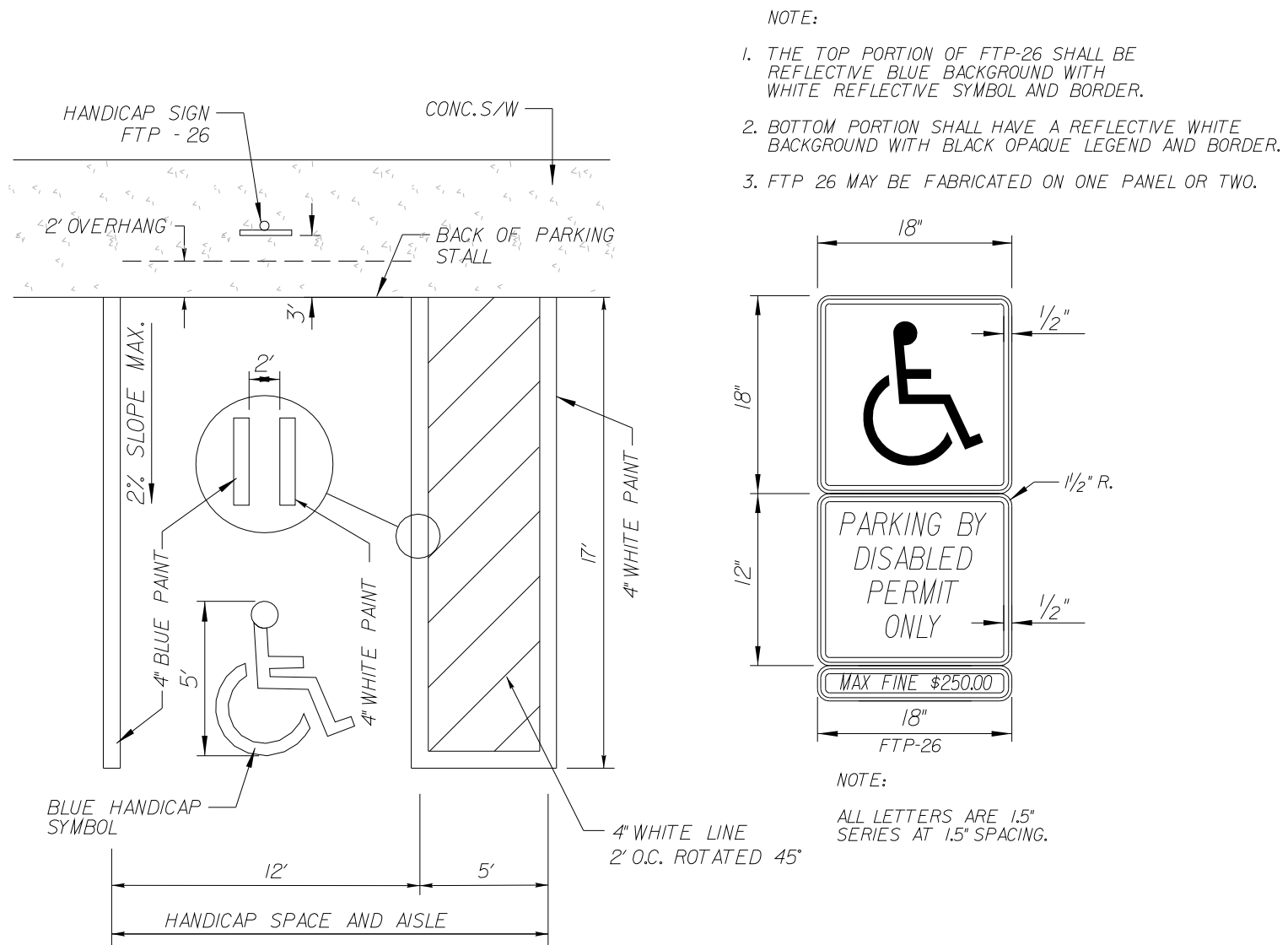
REVISIONS: 1. 2. 3. 4. 5. 6. 7. 8.	CLIENT: Kaller Architects 2417 Hollywood Boulevard Hollywood, Florida 33020-6605 (954) 920-5746	
	PROJECT: Chabad Ocean Jewish Center HOLLYWOOD FLORIDA	TASK: CIVIL ENGINEERING PLAN
	GGB Engineering, Inc. CIVIL AND FORENSIC ENGINEERS • LAND PLANNERS • CONSTRUCTION MANAGERS FLORIDA REGISTRATION NO. 8118 2699 Stirling Road, Suite C-202 Fort Lauderdale, Florida 33312 Phone: (954) 986-9899 Fax: (954) 986-8655	
	DATE: Nov. 2018	SCALE: 1"=10'
DESIGNED BY: G.C.B.		DRAWN BY: F.M.
PROJECT NO. 18-1107		
SHEET C-1		
<small>GARY G. BLOOM, P.E. FLA. LIC. NO. 19832 NOT VALID UNLESS SIGNED AND SEALED BY ENGINEER</small>		



LOCATION MAP
N.T.S.



TYPICAL PARKING STALL DETAIL
N.T.S.



HANDICAP STALL AND SIGN DETAIL
N.T.S.

NOTE:
ALL PAVEMENT MARKINGS TO CONFORM
TO BROWARD COUNTY STANDARDS
LATEST EDITION.

REVISIONS:	1.	
	2.	
	3.	
	4.	
	5.	
	6.	
	7.	
	8.	
CLIENT:	Kaller Architects	
	2417 Hollywood Boulevard	
PROJECT:	Chabad Ocean Jewish Center	
	HOLLYWOOD FLORIDA	
TASK:	PAVEMENT MARKINGS AND SIGNAGE PLAN	
GGB Engineering, Inc.	CIVIL AND FORENSIC ENGINEERS • LAND PLANNERS	
	• CONSTRUCTION MANAGERS	
2699 Stirling Road, Suite C-202 Fort Lauderdale, Florida 33312	FLORIDA REGISTRATION NO. 818	
	Phone: (954) 986-9899	
DATE:	Nov. 2018	
	SCALE: 1"=10'	
DESIGNED BY:	G.C.B.	
	DRAWN BY: F.M.	
PROJECT NO.	18-1107	
	SHEET C-1A	
GARY G. BLOOM, P.E. FLA. LIC. NO. 19832 NOT VALID UNLESS SIGNED AND SEALED BY ENGINEER		

PAVING, GRADING AND DRAINAGE NOTES

1. ALL UNSUITABLE MATERIALS, SUCH AS MUCK, HORGANIC, ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIAL, AS CLASSIFIED BY AASHTO M-45, FOUND WITHIN THE ROAD AND SHOULDER ARE TO BE REMOVED TO THE SURFACE OF THE ROAD AND REPLACED WITH THE SPECIFIED FILL MATERIAL IN MAXIMUM 1' LIFTS COMPACTED TO NOT LESS THAN 100% MODULUS TO THE REQUIRED DENSITY. THE FILL MATERIAL, WHEN PLACED IN 1' THICKNESS OF LAYERS MAY BE INCREASED PROVIDED THE EQUIPMENT AND METHODS USED ARE PROVEN BY FIELD DENSITY TESTING TO BE CAPABLE OF COMPACTING THICK LAYERS REMOVED TO THE SURFACE.
3. ALL AREAS SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTION RESTING ON OR PROTRUDING THROUGH THE PROPOSED ROAD. MATERIALS TO BE REMOVED TO THE SURFACE OF THE ROAD ARE DESIGNATED TO REMAIN OR TO BE RELOCATED OR TO BE ADJUSTED SHALL BE SO DESIGNATED ON THE DRAWINGS.
4. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3, OR A-2-4 IN ACCORDANCE WITH AASHTO M-45 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL. NOT MORE THAN 1% BY WEIGHT SHALL BE OVERSIZED MATERIAL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, COMPACTION, MOISTURE, GRAVIMETRIC ANALYSIS, EXCAVATION, ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC.

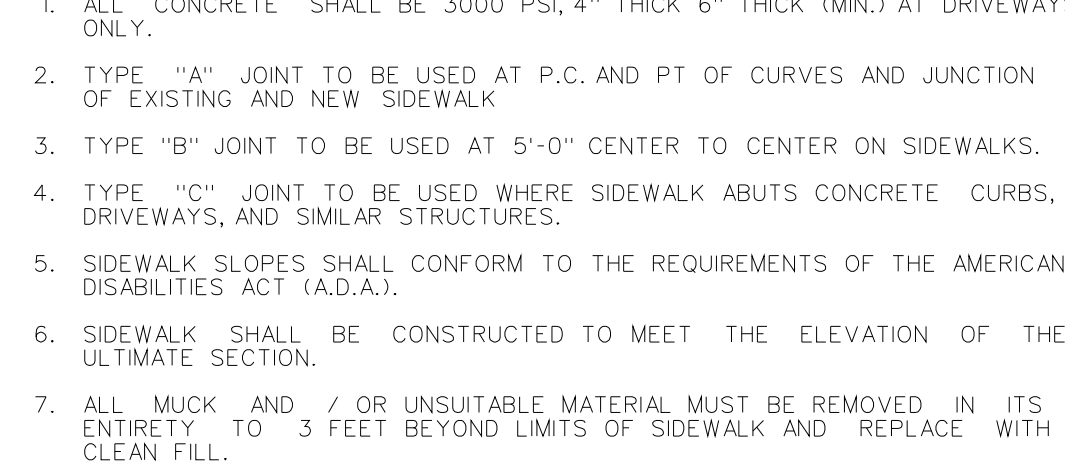
N.T.S.

TABLE OF INSIDE DIMENSIONS
FOR RECTANGULAR STRUCTURES

ETAN



ELEVATION

TABLE 1

CONCRETE SIDEWALK DETAIL



NOTE: PLACES WHERE TYPE 'D' CURB
ARE UTILIZED IN LIEU OF WHEELSTOPS
THE STANDARD VERTICAL HEIGHT OF 6"
SHALL BE MODIFIED TO 5"

TYPE INLET	DIMENSIONS					MAX. DIA. PIPE	
	"A"	"B"	"C"	"D"	"E"	"A"	"B"
"C"	2'-0"	3'-1"	2'-4"	3'-0"	11"	18"	30"
"D"	3'-0"	4'-6"	3'-4"	4'-4"	7'-5"	30"	48"

INLET NOTES

NAMES AND EDGES TO BE

INLET TYPES: INLETS ARE TO BE CONSTRUCTED TO THE DIMENSIONS SHOWN HEREON. TYPE "E MOD." IS A TYPE "E" TURNED 90° TO RECEIVE R.C.P. UP TO 48" DIAMETER. INLETS RECEIVING PIPE LARGER THAN 48" DIAMETER SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARDS. SEE F.D.O.T. STANDARD INDEXES 200, 201, & 232.

MATERIAL: INLET WALLS AND BASES MAY BE EITHER CAST-IN-PLACE CLASS I, 2500 P.S.I. CONCRETE OR PRECAST CLASS II, 4000 P.S.I. CONCRETE.

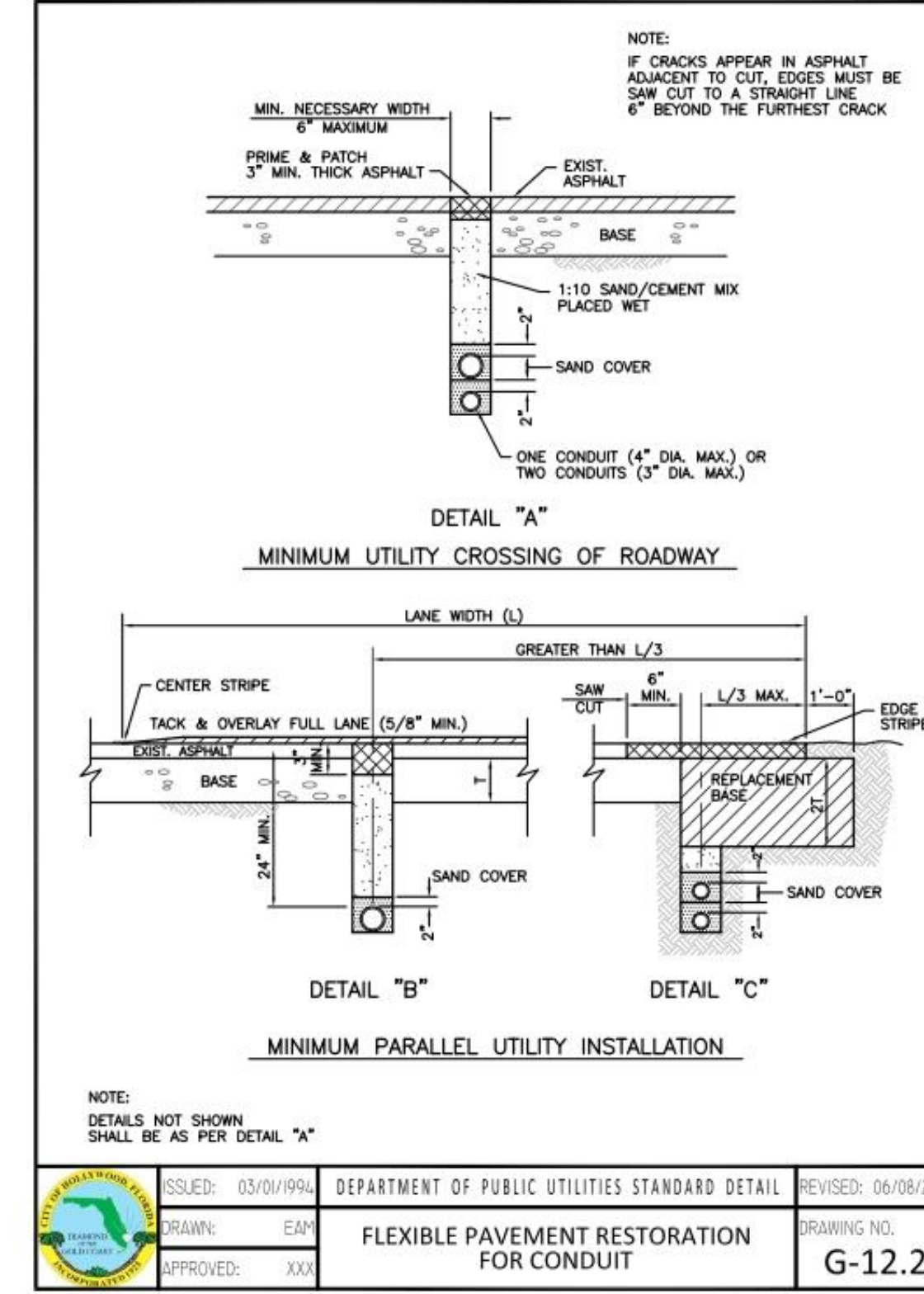
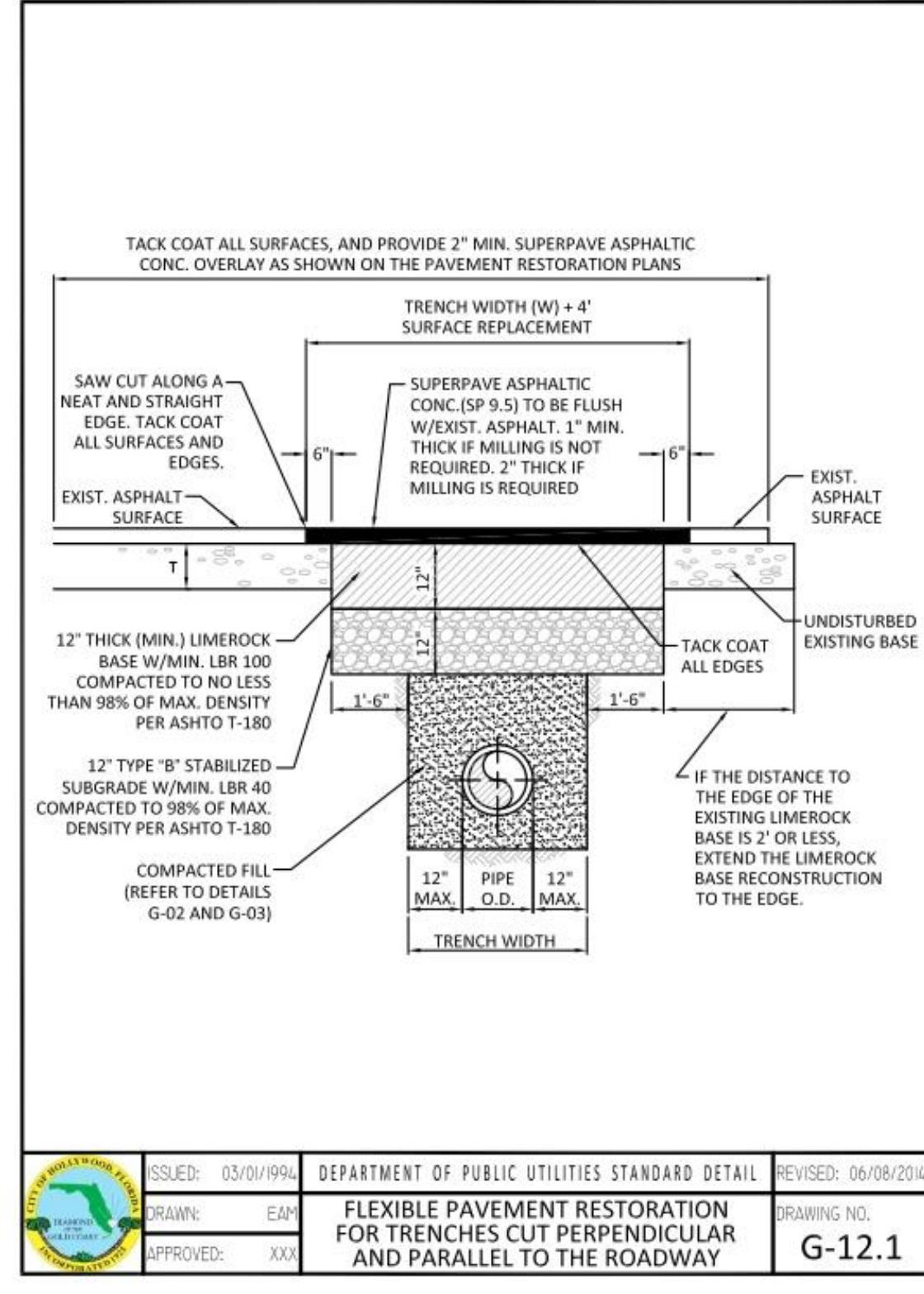
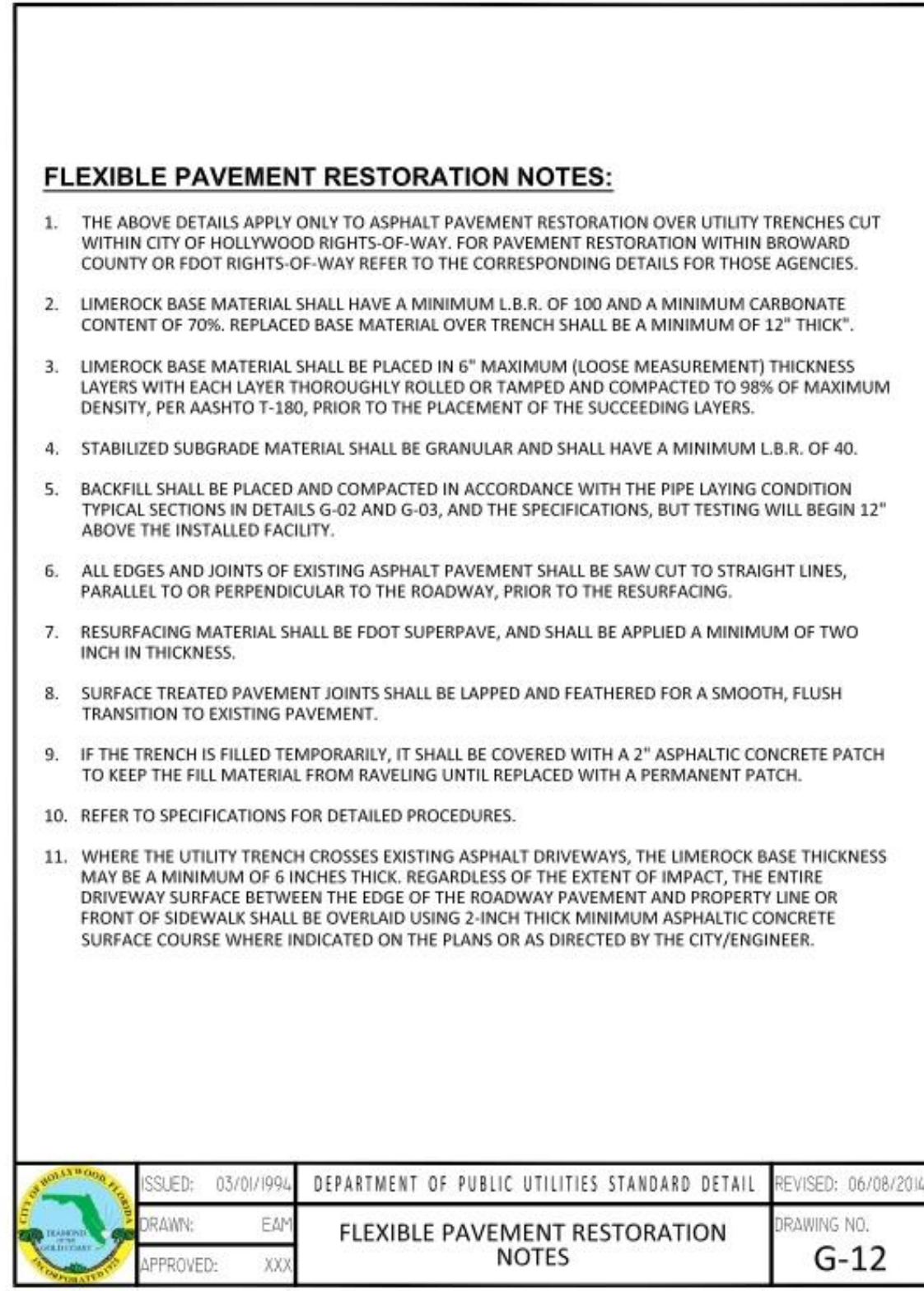
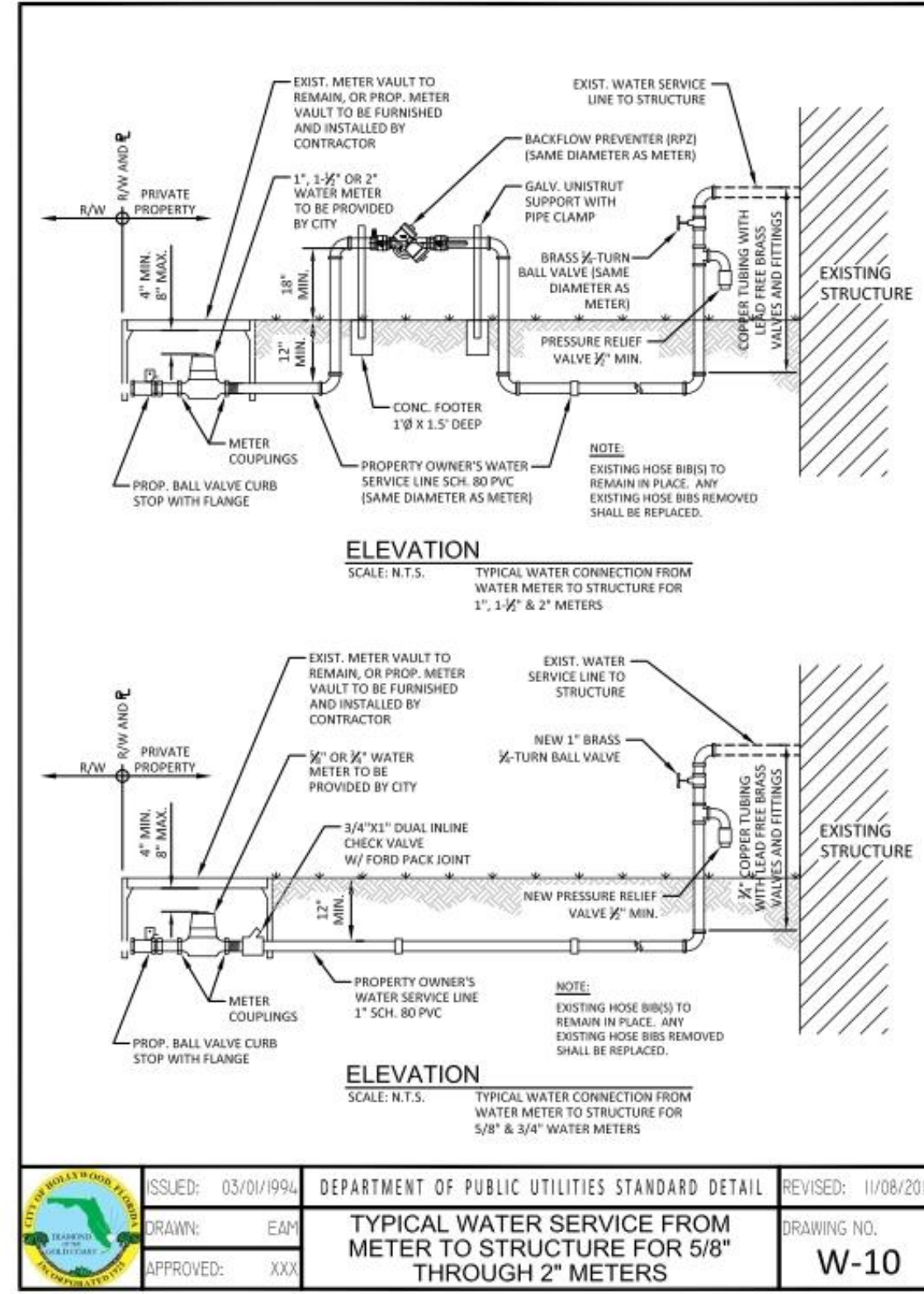
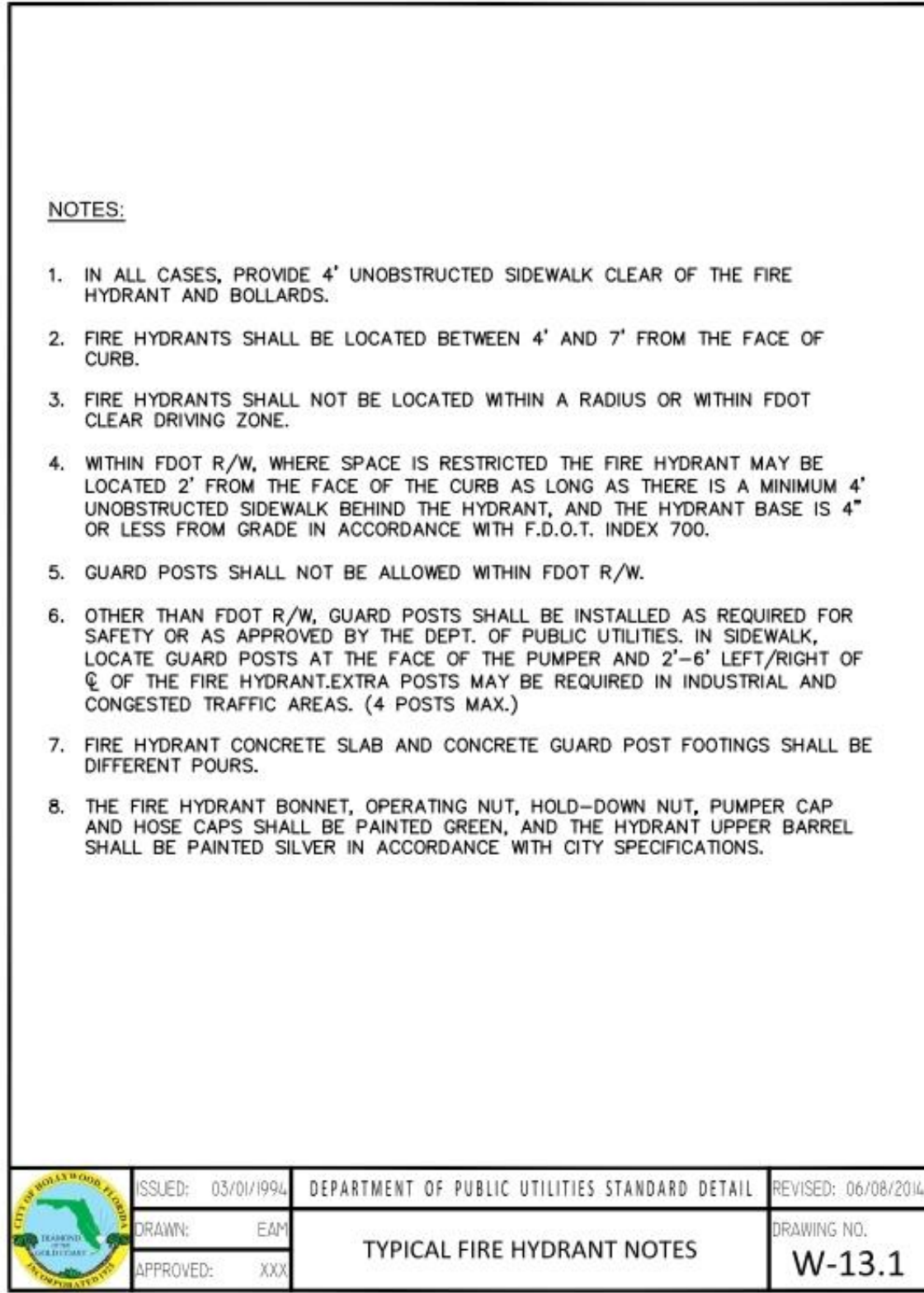
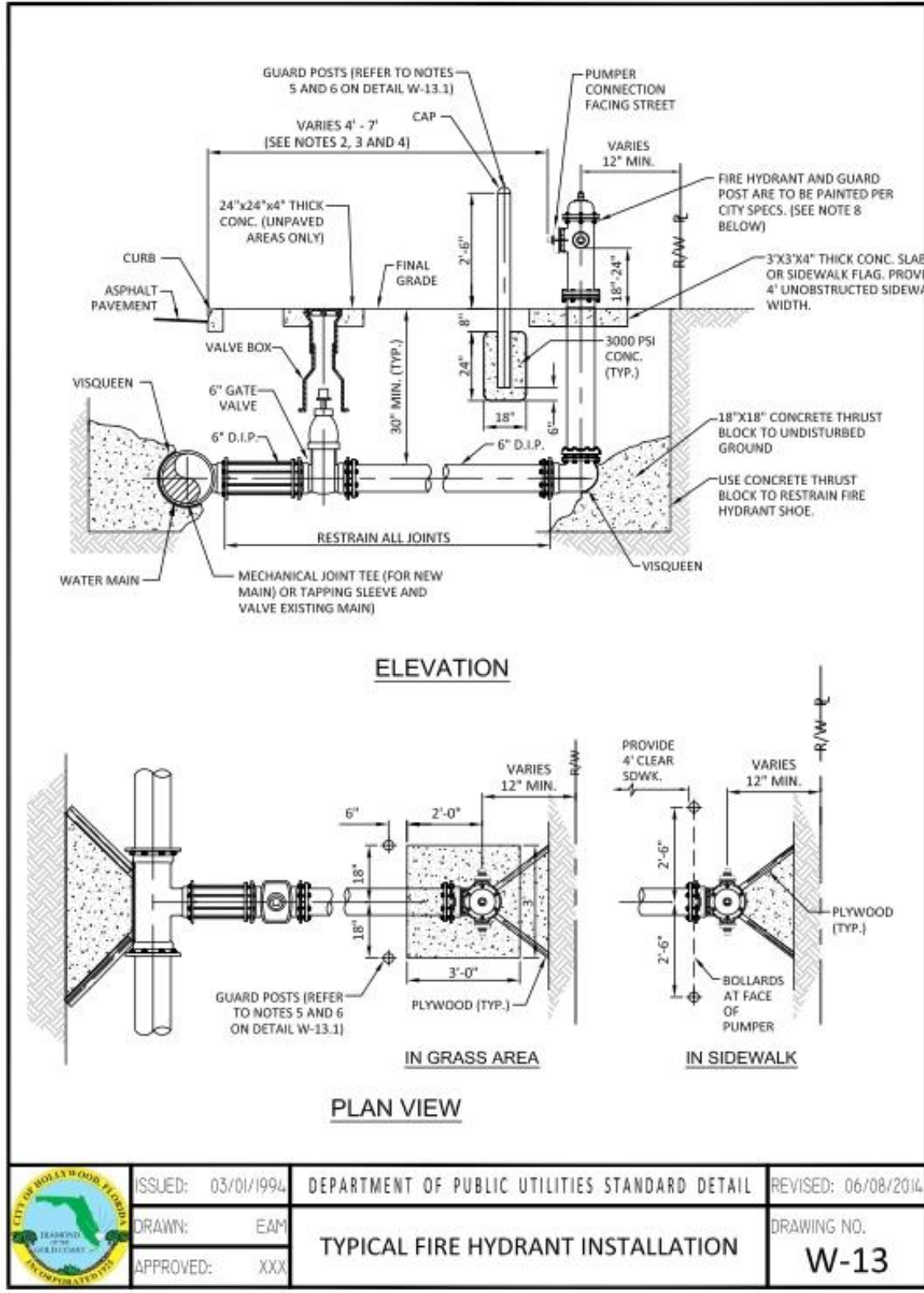
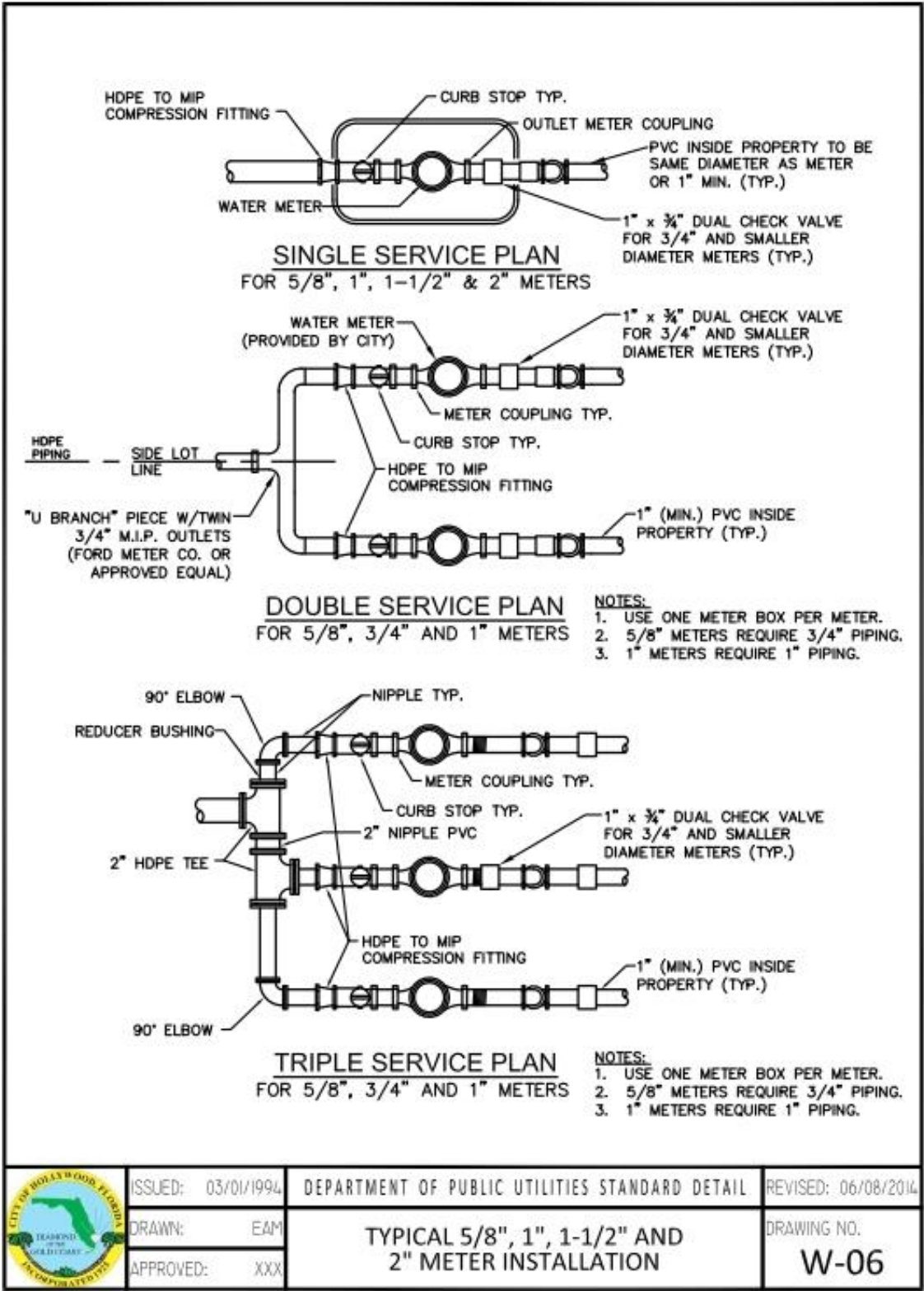
POLLUTION CONTROL DEVICES: "SPECIAL" INLETS SHALL HAVE POLLUTION CONTROL DEVICE INSTALLED, CONSISTING OF HALF-ROUND GALVANIZED STEEL PLATE, OPEN AT THE BOTTOM, WELDED CLOSED AT TOP (OPTIONAL).

LOCKDOWN: PROVIDE EYEBOLT PER F.D.O.T. STANDARD INDEX 201.

BACKFILL NOTES

COMPACT TRENCH BACKFILL AND SOIL WITHIN MIN. 5' OF TRENCH TO MIN. 95% OF MAX. DRY DENSITY PER ASTM D-1557.

EXFILTRATION TRENCH



PROJECT: Chabad Ocean Jewish Center HOLLYWOOD FLORIDA TASK: CONSTRUCTION DETAILS		CLIENT: Kaller Architects 2417 Hollywood Boulevard Hollywood, Florida 33020-6605 (954) 920-5746
PROJECT: GGB Engineering, Inc. CIVIL AND FORENSIC ENGINEERS • LAND PLANNERS • CONSTRUCTION MANAGERS 2699 Stirling Road, Suite C-202 Fort Lauderdale, Florida 33312 Phone: (954) 986-9899 Fax: (954) 986-8655		DATE: Nov. 2018 DESIGNED BY: G.C.B. PROJECT NO. 18-1107 SHEET C-3
DATE: Nov. 2018 DESIGNED BY: G.C.B. PROJECT NO. 18-1107 SHEET C-3		DATE: Nov. 2018 DRAWN BY: F.M. PROJECT NO. 18-1107 SHEET C-3

GARY G. BLOOM, P.E.
FLA. LIC. NO. 19832
NOT VALID UNLESS SIGNED AND SEALED BY ENGINEER

WATER SYSTEM:

ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO STANDARDS OF THE LOCAL MUNICIPALITY AND APPLICABLE DEPARTMENT OF HEALTH AND REHABILITATION SERVICES STANDARDS. NO PHYSICAL CONNECTION OF NEW WATER MAINS TO EXISTING WATER MAINS SHALL BE MADE UNTIL SUCH TIME THAT THE NEW MAINS ARE CONFIRMED TO BE BACTERIOLOGICALLY SAFE AND THE HEALTH DEPARTMENT RELEASE HAS BEEN OBTAINED. TEMPORARY CONNECTIONS OF NEW MAINS TO ACTIVE MAINS FOR THE PURPOSE OF FILLING AND FLUSHING SHALL BE MADE BY A METHOD DEEMED ACCEPTABLE TO THE UTILITY PROVIDING SERVICE.

ALL WATER MAINS SHALL BE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI AND HAVE COMPRESSION TYPE BELL AND SPIGOT JOINTS.

THE WATER SYSTEM SHALL BE HYDROSTATICALLY PRESSURE TESTED AND DISINFECTED PER AWWA / ANSI C601/05 AND TESTED FOR A PERIOD OF 2 HOURS AT NOT LESS THAN 150 PSI IN ACCORDANCE WITH ANSI / AWWA STANDARD C600-05 WITH AN ALLOWABLE LEAKAGE AS DETERMINED BY THE FOLLOWING FORMULA:

$$L = S \cdot D^{0.5} \cdot 148,000$$

WHERE:
L = ALLOWABLE LEAKAGE IN GALLONS / HOUR
S = PIPE LENGTH IN FEET
D = NOMINAL DIAMETER OF PIPE IN INCHES
P = AVERAGE TEST PRESSURE IN PSI

TEST PRESSURE SHALL NOT VARY MORE THAN 5 PSI THROUGHOUT THE TEST. THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE BASED ON A MAXIMUM 2000 FEET WHEN THE LENGTH OF PIPE TESTED EXCEEDS 2000 FEET. THRUST BLOCKS AS SHOWN ON THE DETAIL SHEETS SHALL BE PROVIDED AT ALL BENDS UNLESS OTHERWISE NOTED IN PLANS. IF RESTRAINT JOINT PIPE IS SPECIFIED ON THE PLANS, IT SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF THE PIPE MANUFACTURER AND THE UTILITY DEPARTMENT. NO CONCRETE THRUST BLOCKS WILL BE ALLOWED EXCEPT FOR FIRE HYDRANTS.

BACTERIOLOGICAL TESTING SHALL BE IN ACCORDANCE WITH AWWA / ANSI C601-05 LATEST REVISION.

PVC WATER MAIN PIPE (BLUE) SHALL MEET THE REQUIREMENTS OF AWWA C-300.97 POLY(VINYL CHLORIDE) PRESSURE PIPE, CLASS 150 PIPE SHALL CONFORM TO REQUIREMENT OF SR 18.

ALL PVC PIPE SHALL BE SUITABLE FOR USE AS A PRESSURE CONDUIT. PROVISIONS MUST BE MADE FOR EXPANSION AND CONTRACTION AT EACH JOINT WITH AN ELASTOMERIC RING. THE BELL SHALL CONSIST OF AN INTEGRAL WALL SECTION WITH AN ELASTOMERIC RING WHICH MEETS THE REQUIREMENTS OF ASTM F-477 STANDARD SPECIFICATIONS. FOR ELASTOMERIC SEALS (GASKETS FOR JOINTING PLASTIC PIPE), THE WALL THICKNESS IN THE BELL SECTION SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-3139.

PVC PIPE SHALL BE DELIVERED TO THE JOB SITE FROM THE FACTORY AND STORED AT THE JOB SITE IN PALLETIZED UNITS OR BUNDLES TO PREVENT UNNECESSARY DEFLECTION. PALLETIZATION SHALL BE SUCH THAT PIPE SHALL BE SIZED TO LIMIT THE STACKING OF PIPE NOT MORE THAN SIXTY (60) INCHES HIGH OR AS APPROVED BY THE ENGINEER.

CARE SHALL BE TAKEN DURING THE TRANSPORTING OF THE PIPE TO INSURE THAT THE BINDING AND TIE DOWN METHODS DO NOT DAMAGE OR DEFLECT THE PIPE IN ANY MANNER. PIPE BENT, DEFLECTED, OR OTHERWISE DAMAGED DURING SHIPPING WILL BE REJECTED.

PVC MAINS SHALL BE LAID WITH A MINIMUM OF 36" CLEAR COVER.

FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON PRESSURE CLASS 350 THROUGH 12". ALL FITTINGS SHALL BE CEMENT MORTAR LINED AND SEALED THE SAME AS PIPE IN ACCORDANCE WITH AWWA/ANSI C110/A21.10-03.

PVC AND D.I.P. PIPE SHALL BE DEFLECTED NO MORE THAN ONE HALF (1/2) THE MANUFACTURERS RECOMMENDATION.

JOINTS FOR BELL AND SPIGOT PVC/DIP PIPE AND FITTINGS SHALL BE MECHANICAL OR RUBBER GASKET (EITHER ON SPIGOT OR IN BELL) COMPRESSION TYPE. IN ACCORDANCE WITH AWWA/ANSI STANDARD C111/A21.11-00, SPECIAL FITTINGS AND JOINTS SHALL BE CONSIDERED FOR SPECIFIC INSTALLATION.

ALL WATER MAINS SHALL HAVE CONTINUOUS DETECTOR TAPE 18 INCHES BELOW GRADE ALONG ALL WATER MAINS. DETECTOR TAPE SHALL HAVE BLUE SIDE-UP. 14 GAUGE MULTI STRAND WIRE SHALL BE ATTACHED TO ALL NON-CONDUCTIVE WATER MAIN VE FACILITIES. FUTURE INSTALLATION OF AN EXTRA 4" OF WIRE SHALL BE PROVIDED AT BLOWOFFS, FIRE HYDRANTS, ETC.

POLYETHYLENE ENCASUREMENT/WRAP SHALL BE INSTALLED ON ALL IRON PIPES INCLUDING VALVES, FITTINGS, SLEEVES, HYDRANTS, ETC. POLYWRAP SHALL BE INSTALLED IN ACCORDANCE WITH THE MINIMUM ANSI/AWWA C105/A21.5-05 STANDARDS.

DUCTILE IRON WATER MAIN SEALCOAT SHALL BE COAL TAR EPOXY OR ASPHALT.

DUCTILE IRON PIPE JOINTS SHALL BE PUSH-ON TYPE AND RESTRAINED A MINIMUM DISTANCE AS SPECIFIED IN RESTRAINED DETAIL ON APPLICABLE DETAIL SHEET. USING MECA-100 OR APPROVED EQUAL USING TR-FLEX U.S. PIPE OR FLEX RING BY AMERICAN PIPE.

WATER MAIN STUBS FOR FUTURE EXTENSION INCLUDING ALL FITTINGS BACK TO TEE (1/2" MINIMUM LENGTH) AND TWO PIPE LENGTHS LONG WILL BE RESTRAINT JOINT PIPE FOR THE LAST TWO LENGTHS. (AS REQUIRED BY ENGINEER OR UTILITY DEPT.)

DUCTILE IRON PIPE SHALL BE CLASS 350 AND SHALL BE CEMENT LINED AND SEALCOATED IN ACCORDANCE WITH AWWA / ANSI STANDARD C151/A21.51-02. WATER MAINS SHALL BE LAID WITH A MINIMUM 30" CLEAR COVER. DUCTILE IRON FITTINGS SHALL BE CLASS 350 THROUGH 12" AND CLASS 250 IN SIZES 16" AND LARGER. ALL FITTINGS SHALL BE CEMENT LINED AND SEALCOATED THE SAME AS PIPE IN ACCORDANCE WITH AWWA / ANSI STANDARDS C104/A21.4-03 AND C153/A21.53-00. NEOPRENE GASKETS SHALL BE USED.

ALL WATER MAINS SHALL BE BEDDED AND BACKFILLED PER STANDARD TRENCH DETAILS.

CONTRACTOR IS RESPONSIBLE FOR THE EXISTING ON-SITE WATER SYSTEM UNTIL FINAL INSPECTION, CERTIFICATION AND APPROVAL BY THE UTILITY.

CONTRACTOR IS RESPONSIBLE WHETHER, OR NOT NOTED ON PLANS, FOR RAISING OR LOWERING OF EXISTING GATE VALVE BOXES, METER BOXES, ETC. THAT MAY NEED ADJUSTMENT TO MEET PROPOSED FINISH GRADES.

ALL EXISTING WATER MAINS AND COMPONENTS DESIGNATED FOR REMOVAL ARE THE PROPERTY OF THE UTILITY. MATERIALS SHALL BE REMOVED FROM THE GROUND AS CAREFULLY AS POSSIBLE AND SALVAGED FOR UTILITY. SHOULD UTILITY REFUSE SAID WATER COMPONENTS, THEN THE CONTRACTOR WILL BE RESPONSIBLE FOR OFF-SITE DISPOSAL.

CONTRACTOR TO REFER TO ARCHITECTURAL (PLUMBING) PLANS TO CONFIRM LOCATIONS AND ELEVATIONS OF ALL WATER FIRE AND SEWER BUILDING CONNECTIONS.

DEVELOPER IS RESPONSIBLE TO DEDICATE UTILITY EASEMENTS TO THE UTILITY FOR ALL PUBLIC WATER MAINS THAT ARE TO BE ULTIMATELY OWNED AND MAINTAINED BY THE UTILITY. EASEMENTS TO BE GRANTED UPON THE CONCLUSION OF THE WORK FROM AS-BUILT PIPE LOCATIONS, UNLESS OTHERWISE REQUIRED BY THE UTILITY.

CONTRACTOR IS RESPONSIBLE TO DELIVER AS-BUILT WATER PLANS, MYLAR, ANTI-CORRUPT, DISK AND COMPUTER GENERATED RECORD PRIOR TO FINAL CERTIFICATION TO THE UTILITY. AS-BUILTS SHALL BE SIGNED AND SEALED BY A REGISTERED FLORIDA SURVYOR.

MAINTAIN A 10-FOOT HORIZONTAL CLEARANCE BETWEEN ALL UTILITIES AND BUILDING STRUCTURES, UNLESS OTHERWISE SHOWN ON THE PLANS.

LANDSCAPING SHALL NOT BE INSTALLED WITHIN 6' OF ALL WATER MAINS AND SERVICES OR WITHIN A 5' RADIUS OF ALL FIRE HYDRANTS, UNLESS APPROVED BY THE ENGINEER.

WATER MAINS SHALL BE DEFLECTED OVER DRAINAGE AT ALL CONFLICTS.

ALL WATER SERVICES SHALL TERMINATE A MINIMUM OF 5' FROM BUILDING.

UNDERGROUND WATER MAINS AND FIRE HYDRANTS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO BUILDING CONSTRUCTION AS REQUIRED BY THE LOCAL FIRE DEPARTMENT AND THE SOUTH FLORIDA BUILDING CODE, LATEST REVISION.

ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320 F.A.C.

WATER SERVICE LINES:

WATER SERVICES SHALL BE POLYETHYLENE TUBING (PE 3408) COMPLYING WITH APPLICABLE REQUIREMENTS FOR PE. AWWA C902-02 HIGH MOLECULAR WEIGHT PLASTIC MATERIAL ASTM D-2666, 250 PSI RATING (CTS-DD) SDR 9. SERVICE PIPE SHALL BE INSTALLED AS A SINGLE RUN WITHOUT UNIONS.

JOINTS FOR TUBING SHALL BE OF THE COMPRESSION TYPE UTILIZING A TOTALLY COMPLETED GRIP SEAL AND COUPLING NUT. STAINLESS STEEL TUBE STIFFENER INSERTS SHALL ALSO BE USED FOR TUBING SERVICES.

SERVICE LINES SHALL BE MARKED WITH 2" X 4" POST PAINTED BLUE.

ALL WATER SERVICES SHALL BE BEDDED AND BACKFILLED PER STANDARD TRENCH DETAIL.

PIPE DEFLECTION SHALL BE NO MORE THAN ONE HALF OF THE MANUFACTURER'S RECOMMENDATION.

MINIMUM COVER SHALL BE 24".

ALL WATER SERVICE LINES UNDER PAVED AREAS SHALL BE SLEEVED IN SCHEDULE 40 PVC AND SHALL BE OF ONE SINGLE LENGTH WITHOUT UNIONS.

FORD STAINLESS INSERTS ARE REQUIRED FOR PLASTIC PIPE.

GATE VALVES:

GATE VALVES 4" AND LARGER SHALL BE MECHANICAL JOINT TYPE AND COMPLY WITH AWWA / ANSI STANDARD C509-01.

MECHANICAL JOINTS SHALL CONFORM TO AWWA / ANSI C111/A21.11-00.

ALL GATE VALVES ARE TO BE IRON BODY, BRONZE MOUNTED, DOUBLE DISK, NON-RISING STEM, RESILIENT SEAT TYPE, OPENING LEFT (COUNTER CLOCKWISE) THE INTERIOR LINING SHALL BE FUSION BONDED EPOXY ACCORDING TO AWWA 550-50 AND AN EXTERIOR EPOXY COAT (BOTH 40 MILS DFT.)

GATE VALVES 4" TO 12" SHALL HAVE A MAXIMUM WORKING PRESSURE OF 200 PSI AND BE TESTED AT 400 PSI. GATE VALVES SHALL BE RESILIENT SEATED MUELLER, CLOW RESILIENT WEDGE, M & H, OR APPROVED EQUAL, WITH RESTRAINT JOINTS.

GATE VALVES UNDER 4" IN SIZE SHALL BE BRONZE GATE VALVES CONFORMING TO MSS STANDARD PRACTICE SP-37. THEY SHALL BE DOUBLE DISK, NON-RISING STEM, OPEN, LEFT (COUNTER CLOCKWISE) WITH OPERATING WHEEL, PEWTER AND POT METAL OPERATING WHEELS SHALL NOT BE PERMITTED. GATE VALVES SHALL MEET AWWA C500-02 STANDARDS.

VALVE BOXES SHALL BE CAST IRON EXTENSION TYPE WITH NOT LESS THAN 5-1/4" DIAMETER SHAFT AND WITH COVERS MARKED "WATER". PAINTED BLUE. USF 7500 OR APPROVED EQUAL.

GATE VALVES 18" AND LARGER WILL BE SUBSTITUTED WITH BUTTERFLY VALVES AS MANUFACTURED BY PRATT, DEZURIK, CLOW, OR APPROVED EQUAL.

BUTTERFLY VALVES ARE TO BE CAST OR DUCTILE IRON BODY; ALLOY CAST IRON OR DUCTILE IRON DISK; BODY MOUNTED ADJUSTABLE SEAT; ONE-PIECE STAINLESS STEEL SHAFT; SHORT OR LONG BODY TYPE WITH THE VALVE CLASS, SHAFT SIZE AND OTHER SPECIAL REQUIREMENTS SELECTED IN ACCORDANCE WITH THE SPECIFIC DESIGN; AND ARE TO COMPLY WITH THE PROVISIONS OF AWWA C504-00, "RUBBER SEATED BUTTERFLY VALVES."

VALVE OPERATION IS TO BE APPROVED GEAR ACTUATORS, WITH SEALED ENCLOSURES (FOR BURIED OR SUBMERGED SERVICE), POSITION INDICATORS WILL BE FURNISHED AS REQUIRED. UNITS ARE TO BE EQUIPPED WITH 2" ACTUATING NUTS, CAST IRON HANDWHEELS, OR CHAIN OPERATORS, WITH GALVANIZED STEEL CHAINS, AS APPROPRIATE FOR THE INSTALLATION. APPURTENANCES ARE TO BE FURNISHED BY THE VALVE MANUFACTURER.

WATER SERVICE FITTINGS:

METER VALVES (ASTM B-62 LATEST) SHALL BE FORD ANGLE STOPS, MODEL #K4V3-342W FOR SINGLE SERVICES AND FORD MODEL #UV63-42W FOR DOUBLE SERVICES OR APPROVED EQUAL.

CURB STOPS SHALL BE OF THE INVERTED KEY TYPE WITH TEE-HEAD SHUT OFF. CURB STOPS SHALL BE MADE OF BRASS ALLOY IN ACCORDANCE WITH ASTM SPECIFICATION B62-82A.

METER VALVES AND CORPORATION STOPS (FORD BALL CORP. NO. FC 202) SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE WITH ASTM SPECIFICATION B62-82A WITH EPOXY COATED DUCTILE IRON BODY STAINLESS STEEL SERVICE SADDLES BY FORD.

INLET THREAD FOR METER VALVES AND CURB STOPS SHALL BE AWWA TAPER THREAD IN ALL SIZES IN ACCORDANCE WITH ANSI / AWWA STANDARD C800-05. UNION CONNECTIONS SHALL HAVE A COMPRESSION TYPE FITTING SAME AS VALVES.

CONTRACTOR TO REVIEW WATER DETAILS TO DETERMINE EXTENT OF JURISDICTION OF WATER SERVICE AND METER MATERIALS (METERS, ETC.) SUPPLIED AND INSTALLED BY UTILITY.

FIRE HYDRANTS:

ALL FIRE HYDRANTS SHALL COMPLY WITH AWWA / ANSI STANDARD C502-05 AND THE FOLLOWING DESIGN STANDARDS.

THE FIRE HYDRANTS SHALL BE OF THE COMPRESSION TYPE, OPENING AGAINST THE PRESSURE AND CLOSING WITH A 12" (12" MINIMUM) 5/4" VALVE OPENING. THE HYDRANT SHALL BE EQUIPPED WITH (2)-2 1/2" HOSE NOZZLES AND (1)-5/4" PUMPER NOZZLE.

FIRE HYDRANTS SHALL BE FURNISHED WITH A SEALED OIL OR GREASE RESERVOIR LOCATED IN THE BONNET SO THAT ALL THREADED AND BEARING SURFACES ARE AUTOMATICALLY LUBRICATED WHEN THE HYDRANT IS OPERATED. THE DISASSEMBLY WILL BE DESIGNED FOR DISASSEMBLY BY USE OF A SHORT DISASSEMBLY WRENCH OR THE HYDRANT SHOE SHALL HAVE INTEGRAL CAST TIE BACK LUGS ON THE MAIN VALVE TO PERMIT THE MAIN VALVE ASSEMBLY AND VALVE SEAT TO BE REMOVED WITHOUT DIGGING EARTH OR DISASSEMBLING THE HYDRANT BARREL.

FIRE HYDRANTS SHALL BE FURNISHED WITH A BREAKABLE FEATURE THAT WILL BREAK CLEANLY UPON IMPACT. THIS SHALL CONSIST OF A TWO PART BREAKABLE SAFETY FLANGE WITH A BREAKABLE STEM COUPLING. THE UPPER AND LOWER BARRELS SHALL BE FLUTED AND RIBBED ABOVE AND BELOW THE SAFETY FLANGE OR HAVE AN EXTRA STRENGTH LOWER BARREL.

THE FIRE HYDRANT INTERNAL VALVE SHALL BE 5/4" MINIMUM. THE PENTAGONAL OPERATING NUTS AND THE CAP NUTS SHALL BE 1/2" POINT TO FLAT. DRAIN VALVE OUTLETS FOR THE HYDRANTS SHALL BE PLUGGED OR OMITTED. THE HYDRANTS SHALL OPEN COUNTER CLOCKWISE AND THE DIRECTION OF OPENING SHALL BE CAST ON THE TOP. THE BURY LENGTH, MEASURED FROM THE BOTTOM OF THE CONNECTION TO THE TIE BACK LINE, AT THE HYDRANT SHALL BE THREE FEET SIX INCHES (42") MINIMUM OR AS REQUIRED BY PLAN.

THE HYDRANT SHALL BE EQUIPPED WITH A 6" MINIMUM MECHANICAL JOINT BASE INLET UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

FIRE HYDRANTS SHALL BE MUELLER PAINTED TRAFFIC RED, OR AS OTHERWISE SPECIFIED ON PLANS, OR AS REQUIRED BY THE LOCAL UTILITY COMPANY.

REFER TO WATER DETAILS FOR OTHER REQUIREMENTS / INFORMATION RELATED TO FIRE HYDRANTS.

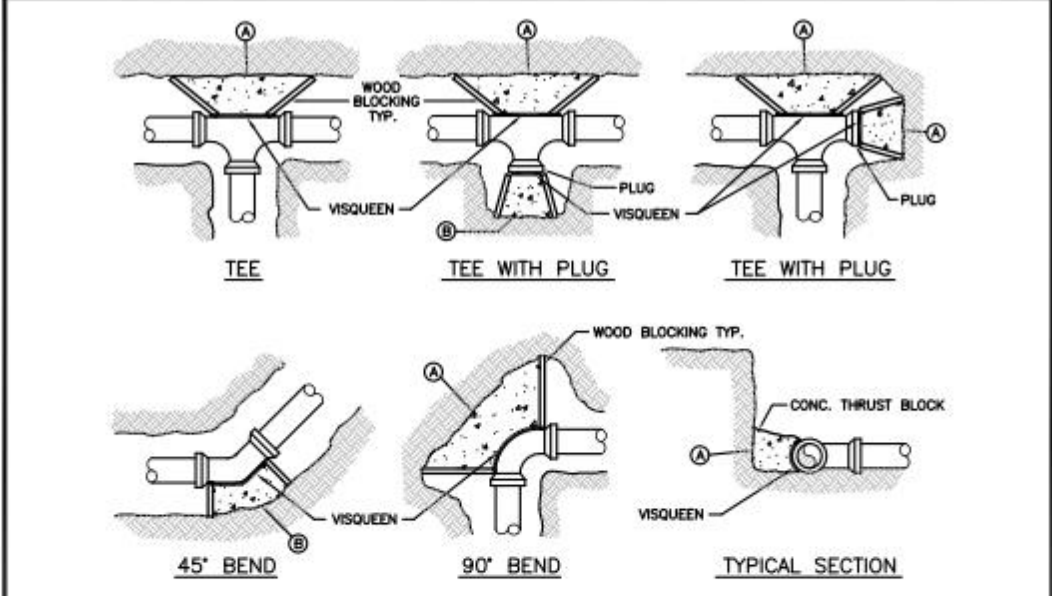
SANITARY SEWER:

ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO STANDARDS OF THE BROWARD COUNTY BUILDING DEPARTMENT, LOCAL MUNICIPALITY AND THE WATER RESOURCE DIVISION, BROWARD COUNTY DEPARTMENT OF NATURAL RESOURCE PROTECTION.

UNLESS OTHERWISE NOTED OR APPROVED, ALL GRAVITY MAINS AND SERVICES UP TO 3' OUTSIDE OF BUILDING SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE (PVC) NONPRESSURE PIPE CONFORMING TO ASTM D3034 AND SDR 35 WITH INTEGRAL WALL. JOINTS SHALL BE PLUGGED FOR PUSH-ON RUBBER GASKET TYPE JOINT SEALS CONFORMING TO ASTM D1869, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

PVC FITTINGS SHALL BE OF MONOLITHIC CONSTRUCTION OF THE TYPE SPECIFIED BY THE MANUFACTURER OF THE PIPE. MINIMUM THICKNESS OF WELDS OR THREADED JOINTS WILL BE PERMITTED. ALL JOINTS SHALL BE COMPRESSION GASKET TYPE.

THE JOINING OF PIPE ON THE JOB SHALL BE DONE IN STRICT ACCORDANCE WITH THE PIPE MANUFACTURER'S INSTALLATION INSTRUCTIONS. JOINTS ENTIRELY IN THE TRENCH UNLESS OTHERWISE DIRECTED BY THE ENGINEER, SPECIFIED ON THE PLANS.



MINIMUM CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL (SQ. FT.)				
MARK	PIPE SIZE			
	4" OR 6"	8"	10"	12"
A				
B				

- NOTES:
- THRUST BLOCKS ARE TO BE USED IN COMBINATION WITH, AND NOT IN LIEU OF, MECHANICAL JOINT RESTRAINTS AS REQUIRED BY THE CITY. REFER TO THRUST RESTRAINT DESIGN TABLE IN STANDARD DETAIL G-10.
 - THE AREAS IN THE TABLE ARE BASED ON POUNDS PER SQUARE FOOT SOIL BEARING AGAINST THE UNDISTURBED TRENCH WALL AND ARE TO REPRESENT THE MINIMUM VERTICAL BEARING AREA AT THE THRUST BLOCK IN A PLANE PERPENDICULAR TO THE LINE BISECTING THE INCLUDING ANGLE OF THE FITTING.
 - POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EVACUATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL.
 - ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
 - DO NOT COVER COUPLING OR JOINTS WITH CONCRETE.
 - CONCRETE TO BE 2500 P.S.I. MINIMUM 28 DAY STRENGTH.
 - TABLE TO BE COMPLETED BY DESIGN ENGINEER.

ISSUED: 03/01/09	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	THRUST BLOCK DESIGN	DRAWING NO. G-10
APPROVED: JAA		

WATER NOTES CONTINUED:

- VALVE BOXES AND COVERS FOR ALL SIZE VALVES SHALL BE OF CAST IRON CONSTRUCTION AND ADJUSTABLE SCREW-ON TYPE. THE LID SHALL HAVE CAST IN THE METAL THE WORD "WATER" FOR THE WATER LINES. ALL VALVE BOXES SHALL BE SIX INCH (6") NOMINAL DIAMETER AND SHALL BE SUITABLE FOR DEPTHS OF THE PARTICULAR VALVE. THE STEM OF THE BURIED VALVE SHALL BE WITHIN TWENTY-FOUR INCHES (24") OF THE FINISHED GRADE UNLESS OTHERWISE APPROVED BY THE CITY. VALVE BOXES SHALL BE TYLER BRAND, NO SUBSTITUTES.
- FIRE HYDRANTS: PRESENT CITY OF HOLLYWOOD UTILITIES SPECIFICATIONS ALLOW ONLY MANUFACTURERS: MUELLER MODEL SUPER CENTURION 200-552; SIZE REFERENCE CATALOG NO. A-423 AND AMERICAN DURLING MODEL B-84 B 552" SIZE. ANY DEVIATION FROM REQUIRED SPECIFICATIONS WILL REQUIRE CITY OF HOLLYWOOD UTILITIES APPROVAL.
- ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320 F.A.C.
- ALL PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C300 LATEST REVISION AND CLASS 350. ALL DIP WATER MAINS SHALL BE DUCTILE IRON PRESSURE CLASS 350, WITH WALL THICKNESS COMPLYING WITH CLASS 52. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51-02 AND BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03.
- FITTINGS SHALL BE DUCTILE IRON, MEETING ANSI/AWWA C153/A21.53-00 SPECIFICATIONS, WITH 350 PSI MINIMUM WORKING PRESSURE. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03. ALL DUCTILE IRON PIPE AND FITTINGS MUST BE MANUFACTURED IN THE UNITED STATES OF AMERICA.
- ALL DUCTILE IRON PIPE TO BE MECHANICAL JOINTS, WRAPPED IN POLY ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY DESIGN.
- GATE VALVES 4" AND LARGER SHALL BE RESILIENT SEAT AND SHALL MEET ANSI/AWWA C-509-01 SPECIFICATIONS, LATEST REVISION. VALVES MUST BE MUELLER (O.A.E.). VALVE BOXES SHALL BE TYLER UNION, CONTROL/GATE VALVES 3" AND SMALLER SHALL BE NIBCO T-133 U.F. NO SUBSTITUTIONS.
- PAVEMENT RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY.
- ALL TRENCHING, PIPE LAYING, BACKFILL, PRESSURE TESTING, AND DISINFECTING MUST COMPLY WITH THE CITY OF HOLLYWOOD SPECIFICATIONS.
- THE MINIMUM DEPTH OF COVER OVER WATER MAINS IS 30" (DIPI) OR 36" (PVC).
- MINIMUM CLEARANCE BETWEEN STORM STRUCTURES AND WATER MAINS SHALL BE 2', AND MAXIMUM DEFLECTION PER EACH JOINT SHALL BE 50% OF MANUFACTURERS RECOMMENDATION (MAXIMUM) WHERE DEFLECTION IS REQUIRED.
- TAPPING SLEEVES SHALL BE MUELLER H-R35 (O.A.E.). TAPPING VALVES 4" AND LARGER SHALL BE RESILIENT WEDGE TYPE MEETING ANSI/AWWA C509-01. ALL TAPPING VALVES SHALL HAVE A CAST-IN ALIGNMENT RIDGE AND BE CAPABLE OF ACCEPTING A FULL-SIZE CUTTER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING CONFLICTS WITH WATER MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, WATER MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 18" MINIMUM SEPARATION. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.

ISSUED: 03/01/09	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	WATER NOTES	DRAWING NO. W-01.1
APPROVED: JAA		

CONNECTION OF PVC PIPE TO MANHOLES SHALL BE MADE WITH "KOR-N-SEAL" MANHOLE COUPLINGS CORRESPONDING TO THE SIZE AND TYPE OF SEWER PIPE OR OTHER ADAPTERS AS MAY BE APPROVED BY THE UTILITY.

INFLUENT AND EFFLUENT SEWERS SHALL BE GROUTED IN PLACE USING A TYPE A WATERPROOF EXPANDING GROUT ACCEPTABLE TO THE ENGINEER. ALL OPENINGS AND JOINTS SHALL BE SEALED WATERTIGHT. REFER TO GENERAL NOTES FOR NON-SHRINK GROUT.

LIFT HOLES THROUGH PRECAST STRUCTURES ARE NOT PERMITTED.

A. FLOW CHANNEL SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM. REFER TO DETAILS.

OUTSIDE DRAINAGE CONNECTIONS WILL BE REQUIRED WHEN THE VERTICAL DISTANCE BETWEEN PIPES EXCEEDS TWENTY FEET (20').

CONNECTIONS, WHERE REQUIRED, SHALL BE CAST MONOLITHICALLY WITH THE MANHOLE ELEMENTS AS SHOWN ON DETAILS.

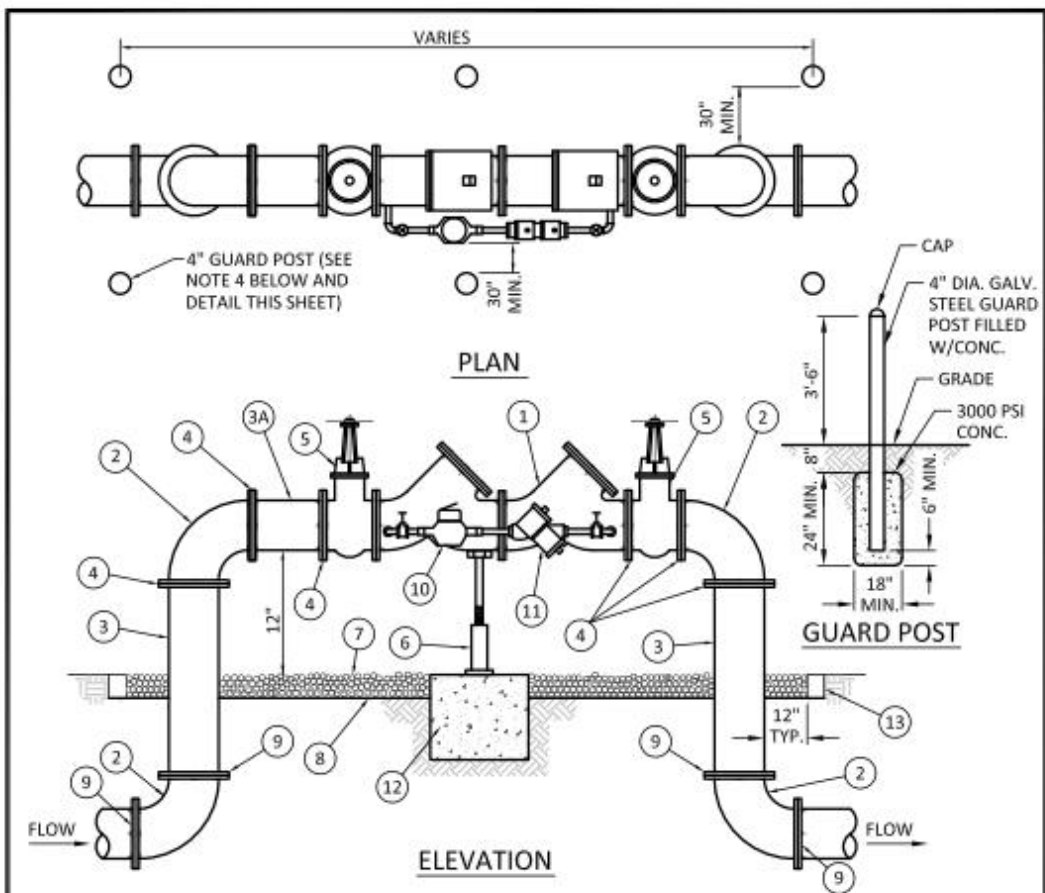
THE D AND FRAME SHALL BE CAST OF CLASS-GROUND GRAY IRON CONFORMING TO ASTM A-48, CLASS 50 AND SHALL BE OF UNIFORM QUALITY, FREE OF BLOW HOLES, POROSITY, CRACKS, AND OTHER OBVIOUS VISUAL DEFECTS. THE COMBINED WEIGHT OF THE FRAME AND LID SHALL NOT BE LESS THAN 420 POUNDS, AND THE LID SHALL WEIGH A MINIMUM OF 160 POUNDS. THE SEATING SURFACES BETWEEN FRAMES AND COVERS SHALL BE MACHINED TO FIT TRUE. NO PLUGGING OR FILLING WILL BE ALLOWED. CASTING PATTERNS SHALL CONFORM TO THOSE DESIGNATED BY THE GOVERNING UTILITY.

THE LID SHALL HAVE THE WORDS "(PREFERABLY AS REQUIRED BY THE UTILITY)" CAST IN ALL MANHOLE COVERS. CASTINGS SHALL BE CLEANED AND COATED WITH A COAL TAR PITCH VARNISH WHICH IS TOUGH WHEN COLD BUT NOT TACKY OR BRITTLE. PICK TYPE LIFTING HOLES WILL BE CAST INTO LIDS, BUT SHALL NOT GO CLEAR THROUGH THE LID.

MINIMUM COVER ON PUBLIC SANITARY SEWER PIPE SHALL BE 36" ABOVE PVC PIPE, AND 30" ABOVE D.I.P.

ALL MANHOLE LIDS SHALL BE PROVIDED WITH WATER TIGHT POLYETHYLENE MANHOLE INSERTS AS APPROVED BY THE UTILITY DEPARTMENT.

INSIDE SURFACES OF MANHOLES TO BE TREATED WITH TWO COATS COPPERS BITUMASTIC 300-M OR EQUAL. MINIMUM DRY THICKNESS 16 MILS. MANHOLES SHALL BE CURED TWENTY-ONE (21) DAYS BEFORE COATING. MANHOLES SHALL BE PAINTED AT FACTORY PRIOR TO DELIVERY OR ON-SITE WITH ONE COAT (BLACK) OUTSIDE OR AS REQUIRED BY THE UTILITY. FIRST COAT TO BE RED, SECOND COAT TO BE BLACK, UNLESS OTHERWISE SPECIFIED ON THE PLANS.



MATERIALS					
ITEM	QTY.	DESCRIPTION	ITEM	QTY.	DESCRIPTION
1	1	4" 6" 8" VALVE,DOUBLE CHECK	7	N/A	PEA GRAVEL (4" DEEP)
2	4	4" 6" 8" BEND-90°	8	N/A	PLASTIC LINER/WEED STOP (5 MILS)
3	2	4" 6" 8" D.I.P. SPOOL PIECE	9	4	RESTRAINED JOINTS
3A	1	4" 6" 8" D.I.P. SPOOL PIECE (24" LONG)	10	1	LOW FLOW METER
4	7	4" 6" 8" FLANGE, D.I.P.	11	1	VALVE, BYPASS DOUBLE CHECK
5	2	4" 6" 8" GATE VALVE (SEE NOTE 6)	12	1	16"x18"x18" CONC. SUPPORT
6	1	SCREW JACK/ANCHORED	13	1	P.T. 2X4 LUMBER ALL AROUND

- NOTES:
- TIED ADJUST AND CUT ITEM 3 TO THE PROPER LENGTH.
 - ALL PIPING SHALL BE D.I.P. CL 50/52 AS APPLICABLE TO MINIMUM STANDARDS.
 - ALL LOW FLOW METER PIPING SHALL BE BRASS OR COPPER.
 - PROTECTIVE 4" GALV. GUARD POSTS SHALL BE SPACED EVERYWHERE AS SHOWN ABOVE OR IN ACCORDANCE WITH INSPECTOR'S DIRECTIONS.
 - MAY USE 45° BENDS (SEE DETAIL W-07.2) WHEN WORKING AREA IS NOT LIMITED, AS DIRECTED BY CITY.
 - GATE VALVES SHALL BE CHAINED AND LOCKED TOGETHER TO PREVENT TAMPERING.

ISSUED: 03/01/09	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	TYPICAL 4", 6" AND 8" DOUBLE CHECK DETECTOR ASSEMBLY FOR FIRE SPRINKLER SERVICE (90° BENDS)	DRAWING NO. W-03
APPROVED: JAA		

WATER NOTES CONTINUED:

- PIPE JOINT RESTRAINT SHALL BE PROVIDED BY THE USE OF DUCTILE IRON FOLLOWER GLANDS MANUFACTURED TO ASTM A-536-80. TWIST-OFF NUTS SHALL BE USED TO ENSURE PROPER ACTUATING OF THE RESTRAINING DEVICES. THE MECHANICAL JOINT RESTRAINING DEVICES SHALL HAVE A WORKING PRESSURE OF 250 PSI MINIMUM, WITH A MINIMUM SAFETY FACTOR OF 2.1, AND SHALL BE EBA IRON, INC. MEGALUG OR APPROVED EQUAL. JOINT RESTRAINTS SHALL BE PROVIDED AT A MINIMUM OF THREE JOINTS (60 FEET) FROM ANY FITTING.
- WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

ISSUED: 03/01/09	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	WATER NOTES	DRAWING NO. W-02
APPROVED: JAA		

THE ENGINEER AND UTILITY SHALL INSPECT INSIDE OF MANHOLE AFTER EACH APPLICATION OF COAT OF PAINT.

UPON COMPLETION OF THE WORK A LAMPING INSPECTION SHALL BE MADE OF THE COMPLETED SYSTEM ALONG WITH AN INFILTRATION AND / OR EXFILTRATION TEST. AFTER ALL TESTING INCLUDED IN THIS CONTRACT HAS BEEN COMPLETED, THE CONTRACTOR WILL PROVIDE A TELEVIEWED INSPECTION OF THE SEWER LINES PRIOR TO BEING ACCEPTED FOR USE AND A SECOND TELEVIEWED INSPECTION AND LAMPING PRIOR TO RELEASE OF ONE-YEAR MAINTENANCE BOND.

MANHOLE JOINTS WILL BE SEALED WITH RAMNEK OR APPROVED EQUAL AND ANTI-HYDRAULIC CEMENT INSIDE AND OUT.

ALL SANITARY SEWER GRAVITY MAINS AND SERVICES SHALL BE BEDDED AND BACKFILLED PER STANDARD TRENCH DETAIL.

ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING AUTHORITY.

A MINIMUM OF 10-FOOT HORIZONTAL CLEARANCE IS REQUIRED BETWEEN ALL UTILITY PIPE AND BUILDING STRUCTURES, UNLESS OTHERWISE SHOWN ON THE PLANS.

LANDSCAPING SHALL NOT BE INSTALLED WITHIN A MINIMUM OF 6' OF ALL SANITARY SEWER MAINS AND LATERALS.

ALL SEWER LATERALS SHALL TERMINATE AT THE PROPERTY LINE AND / OR A MINIMUM OF 5' FROM BUILDING, UNLESS OTHERWISE SPECIFIED ON THE PLANS. APPROVED BY THE UTILITY. PICK TYPE LIFTING HOLES IN OR OUT OF PAVEMENT SHALL BE INSTALLED BY THE CONTRACTOR.

SERVICE LATERALS SHALL HAVE CLEANOUTS INSTALLED AT A MAXIMUM OF 75' SPACING. CLEANOUTS IN PAVEMENT SHALL HAVE TRAFFIC BEARING LIDS.

CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETELY INSPECT THE EXISTING SANITARY SEWER SYSTEM AND / OR LIFT STATION, IF APPLICABLE, IN ADVANCE OF ANY WORK AND NOTIFY THE ENGINEER IN ADVANCE OF ANY DEFICIENCIES. SHOULD THE CONTRACTOR COMMENCE WORK WITHOUT FIRST INSPECTING THE EXISTING SANITARY SEWER MAINS AND / OR LIFT STATION, THEN THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXISTING ON-SITE SANITARY SEWER SYSTEM PAVING, FINISH GRADE, AND WATER MAINS. THE CONTRACTOR AND APPROVAL BY THE GOVERNING AUTHORITY, CONTRACTOR TO INCLUDE THE COST OF CLEANING, REPAIRING, AND TESTING EXISTING SEWER MAINS AND LATERALS AS REQUIRED FOR NEW CONSTRUCTION.

WATER NOTES:	
1.	NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES BELOW THE OTHER PIPELINE.
2.	NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE. (FAC 62-555.314(2), EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)).
3.	AT ALL UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE, OR THE PIPES WILL BE AT LEAST 30 FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS. WASTEWATER FORCE MAINS OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C. (FAC 62-555.314(2), EXCEPTIONS ALLOWED UNDER FAC 62-55

WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSING (1), (4)	JOINT SPACING @ CROSSING (FULL JOINT CENTERED) (8)
STORM SEWER, STORM WATER FORCE MAIN, RECLAIMED WATER (2)	 3 ft minimum	 3 ft minimum	 3 ft minimum
GRAVITY SANITARY SEWER (3)	 10 ft preferred 6 ft minimum	 10 ft preferred 6 ft minimum	 10 ft preferred 6 ft minimum
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	30 ft minimum		

1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE, WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.

2. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-502, F.A.C.

3. TOP OF THE GRAVITY SANITARY SEWER.

4. 18" VERTICAL MINIMUM SEPARATION REQUIRED BY CITY OF HOLLYWOOD, UNLESS OTHERWISE APPROVED.

5. A MINIMUM 6 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

6. IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

7. MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL SEPARATION OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

8. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED.

ISSUED: 03/01/1994
DRAWN: EAM
APPROVED: XXX

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL
SEPARATION REQUIREMENTS
OF
F.D.E.P. / F.D.N.R.P.

REVISED: 06/08/2014
DRAWING NO.
G-01.1

DETAIL "A"

DETAIL "B"

METHOD "A"

METHOD "B"

ISSUED: 03/01/1994
DRAWN: EAM
APPROVED: XXX

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL
FILLING AND FLUSHING DETAILS

REVISED: 06/08/2014
DRAWING NO.
W-15

TESTING AND DISINFECTION NOTES:

1. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL THE PRESSURE AND BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED ON THE PROPOSED WATER MAINS AND THE SYSTEM HAS BEEN APPROVED BY THE CITY OF HOLLYWOOD AND THE BROWARD COUNTY HEALTH DEPARTMENT.

2. THE PRESSURE TEST SHALL BE PERFORMED FOR 2 HOURS AT A CONSTANT PRESSURE OF 150 PSI AND IN ACCORDANCE WITH RULE 62-555.330 (FAC) C600 AWWA LATEST REVISION, EXCEPT AS OTHERWISE SPECIFIED HEREIN AND IN SPECIFICATION SECTION 15995, "PIPELINE TESTING AND DISINFECTION". PRESSURE TEST SHALL BE WITNESSED BY THE CITY OF HOLLYWOOD. THE ALLOWABLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA:

$$L = \frac{S \times D \times \sqrt{P}}{148,000}$$

L = THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR.
S = THE LENGTH OF PIPE BEING TESTED.
D = THE NOMINAL DIAMETER OF THE PIPE BEING TESTED.
P = THE AVERAGE TEST PRESSURE IN POUNDS PER SQUARE INCH.

3. THE COMPLETE LENGTH OF THE PROPOSED WATER MAIN SHALL BE TESTED, IN LENGTHS NOT TO EXCEED 2,000 FEET PER TEST.

4. PROPOSED WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI/AWWA STANDARD C651 AND BACTERIOLOGICAL TESTED FOR TWO CONSECUTIVE DAYS IN ACCORDANCE WITH SPECIFICATION SECTION 15995, "PIPELINE TESTING AND DISINFECTION".

5. BACTERIOLOGICAL TESTS SHALL BE REQUESTED AND PAID FOR BY THE CONTRACTOR.

6. THE CONTRACTOR SHALL DIRECTLY HIRE A TESTING LABORATORY CERTIFIED BY THE FLORIDA DEPARTMENT OF HEALTH IN ORDER TO COLLECT AND TEST WATER SAMPLES FROM THE WATER DISTRIBUTION SYSTEM TO BE PLACED INTO SERVICE. SAMPLE COLLECTION AND BACTERIOLOGICAL ANALYSES SHALL BE PERFORMED IN ACCORDANCE WITH RULES 62-555.315(6), 62-555.340 AND 62-555.330 (FAC), AS WELL AS ALL REQUIREMENTS OF THE BROWARD COUNTY HEALTH DEPARTMENT PERMIT.

7. THE WATER DISTRIBUTION SYSTEM SHALL NOT BE CONSIDERED COMPLETE AND READY FOR FINAL INSPECTION UNTIL SUCCESSFUL TEST RESULTS ARE OBTAINED FOR ALL TESTS DESCRIBED ABOVE.

ISSUED: 03/01/1994
DRAWN: EAM
APPROVED: XXX

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL
TESTING AND DISINFECTION NOTES

REVISED: 06/08/2014
DRAWING NO.
W-14

HORIZONTAL BENDS			
PIPE DIA. (INCHES)	BEND (ANGLE)	RESTRAINED LENGTH (RL) (FT)	
		PVC	*DIP
16	11 1/2	-	-
	22 1/2	-	-
	45	-	-
	90	-	-
8	11 1/2	-	-
	22 1/2	-	-
	45	-	-
	90	-	-
6	11 1/2	-	-
	22 1/2	-	-
	45	-	-
	90	-	-
4	11 1/2	-	-
	22 1/2	-	-
	45	-	-
	90	-	-

TYPICAL MECHANICAL JOINT RESTRAINT (SEE NOTE 3 ON STANDARD DETAIL G-10)

MIN. RESTRAINED LENGTH ALONG RUN (MRL)

MIN. RESTRAINED LENGTH ALONG BRANCH (RL)

BRANCH DIA.

MIN. RESTRAINED LENGTH ALONG RUN (MRL)

MIN. RESTRAINED LENGTH ALONG BRANCH (RL)

TYPICAL MECHANICAL JOINT RESTRAINT (SEE NOTE 3 ON STANDARD DETAIL G-10)

TEES AND TAPPING SLEEVES				
RUN DIA. (INCHES)	BRANCH DIA. (INCHES)	MIN. RESTRAINED LENGTH ALONG RUN (FT.)	MIN. LENGTH TO RESTRAIN ALONG BRANCH (FT.)	
			PVC	*DIP
16"	16"	-	-	-
8"	8"	-	-	-
8"	6"	-	-	-
8"	4"	-	-	-
6"	6"	-	-	-
4"	4"	-	-	-

ISSUED: 03/01/1994
DRAWN: EAM
APPROVED: XXX

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL
JOINT RESTRAINT DESIGN
FOR PVC AND DIP
HORIZONTAL BENDS AND TEES

REVISED: 06/08/2014
DRAWING NO.
G-11.1

NOTES:

SAMPLING POINT SHALL NOT BE REMOVED UNTIL APPROVAL IS OBTAINED FROM BROWARD COUNTY HEALTH DEPARTMENT.

ISSUED: 03/01/1994
DRAWN: EAM
APPROVED: XXX

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL
SAMPLING POINT DETAIL

REVISED: 06/08/2014
DRAWING NO.
W-16

REVISIONS:

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CLIENT:

Kaller Architects
2417 Hollywood Boulevard
Hollywood, Florida 33020-6605
(954) 920-5746

PROJECT:

Chabad Ocean Jewish Center
FLORIDA
HOLLYWOOD
TASK: CONSTRUCTION DETAILS

GGB Engineering, Inc.
CIVIL AND FORENSIC ENGINEERS • LAND PLANNERS
• CONSTRUCTION MANAGERS
FLORIDA REGISTRATION No. 8118
2699 Stirling Road, Suite C-202
Fort Lauderdale, Florida 33312
Phone: (954) 986-9899
Fax: (954) 986-8655

DATE:
Nov. 2018

SCALE:
N.T.S.

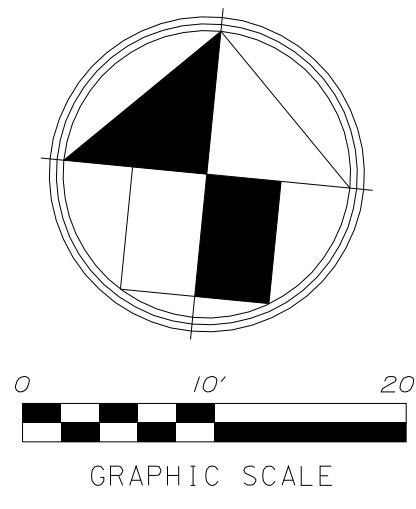
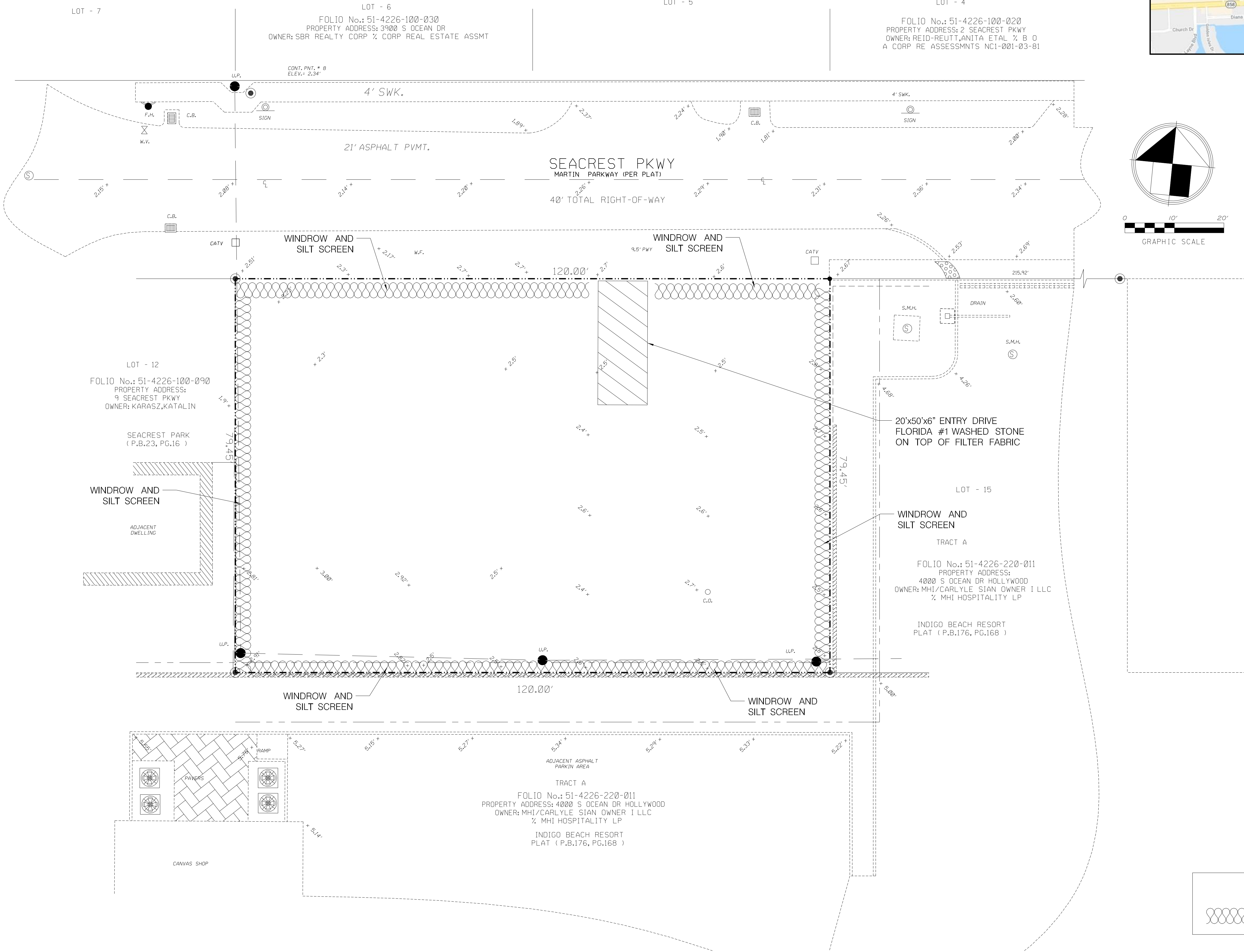
DESIGNED BY:
G.C.B.

DRAWN BY:
F.M.

PROJECT NO.
18-1107

SHEET
C-5

GARY G. BLOOM, P.E.
FLA. LIC. No. 79832
NOT VALID UNLESS SIGNED
AND SEALED BY ENGINEER



LEGEND

DENOTES WINDROW AND SILT SCREEN
ALONG PROPERTY LINE DURING
CONSTRUCTION OF GRADING AND DRAINAGE

REVISIONS:	
1.	
2.	
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CLIENT:	
PROJECT:	
TASK:	
DATE:	
DESIGNED BY:	
PROJECT NO.	
SHEET	
C-6	
GARY G. BLOOM, P.E. FLA. LIC. NO. 19832 NOT VALID UNLESS SIGNED AND SEALED BY ENGINEER	

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Chabad Ocean Jewish Center
FLORIDA
HOLLYWOOD

STORMWATER POLLUTION PREVENTION PLAN

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