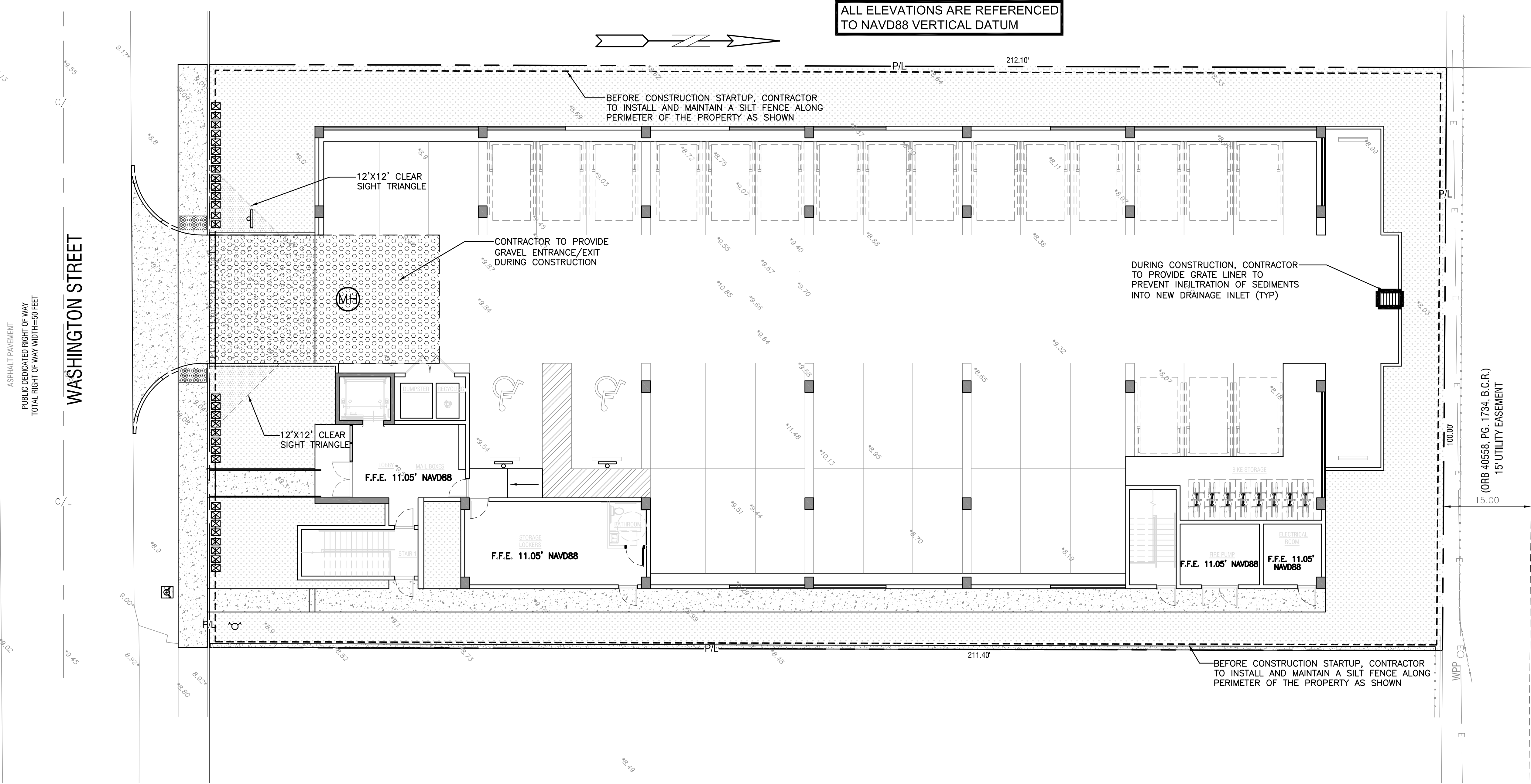


ASPHALT PAVEMENT
PUBLIC DEDICATED RIGHT OF WAY
TOTAL RIGHT OF WAY WIDTH=60 FEET

WASHINGTON STREET

ALL ELEVATIONS ARE REFERENCED
TO NAVD88 VERTICAL DATUM

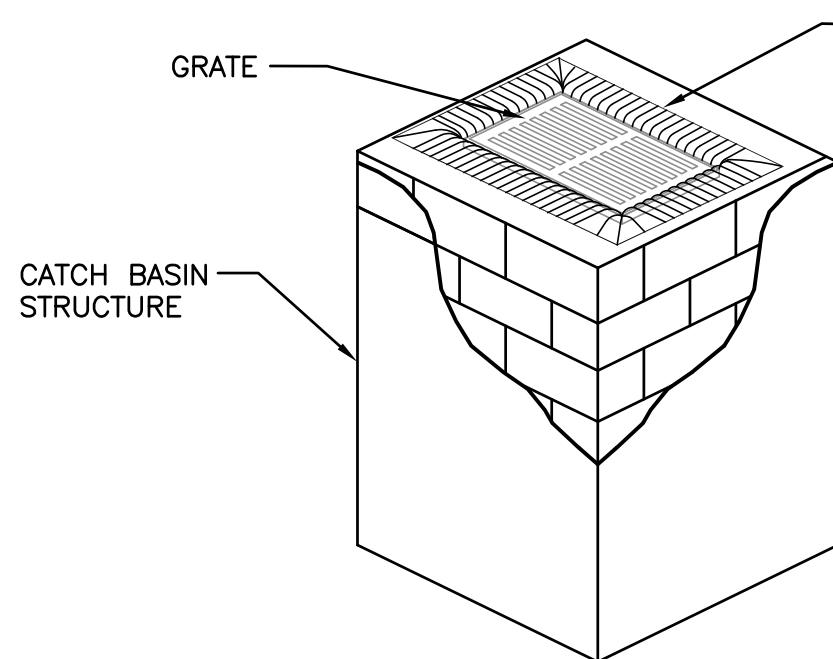


BMP NOTES:

1. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
2. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT CONTROLS. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
3. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM WATER SYSTEM, DITCH OR CHANNEL. ALL STORMWATER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
4. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.
5. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN THIRTY (30) DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
6. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED, COVERED OR CONTAINED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
7. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
8. PROPERTIES AND WATER WAYS DOWNSTREAM FROM CONSTRUCTION SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION AT ALL TIMES DURING CONSTRUCTION.
9. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES, RAINFALL RUN OFF OR DEWATERING ACTIVITIES.
10. CONTRACTOR MUST INCORPORATE ALL BMP'S NECESSARY TO MEET OR EXCEED STATE WATER QUALITY AND SWPPP REQUIREMENTS.
11. THE POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMP'S MAY BE NECESSARY AT CONTRACTOR'S EXPENSE.

LEGEND

- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED GRADE
- EXISTING ELEVATION
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- PROPOSED WATER METER
- EXISTING WATER METER
- EXISTING WATER VALVE
- PROPOSED BFP DEVICE
- EXISTING SAN. SEWER MH
- EXISTING FIRE HYDRANT



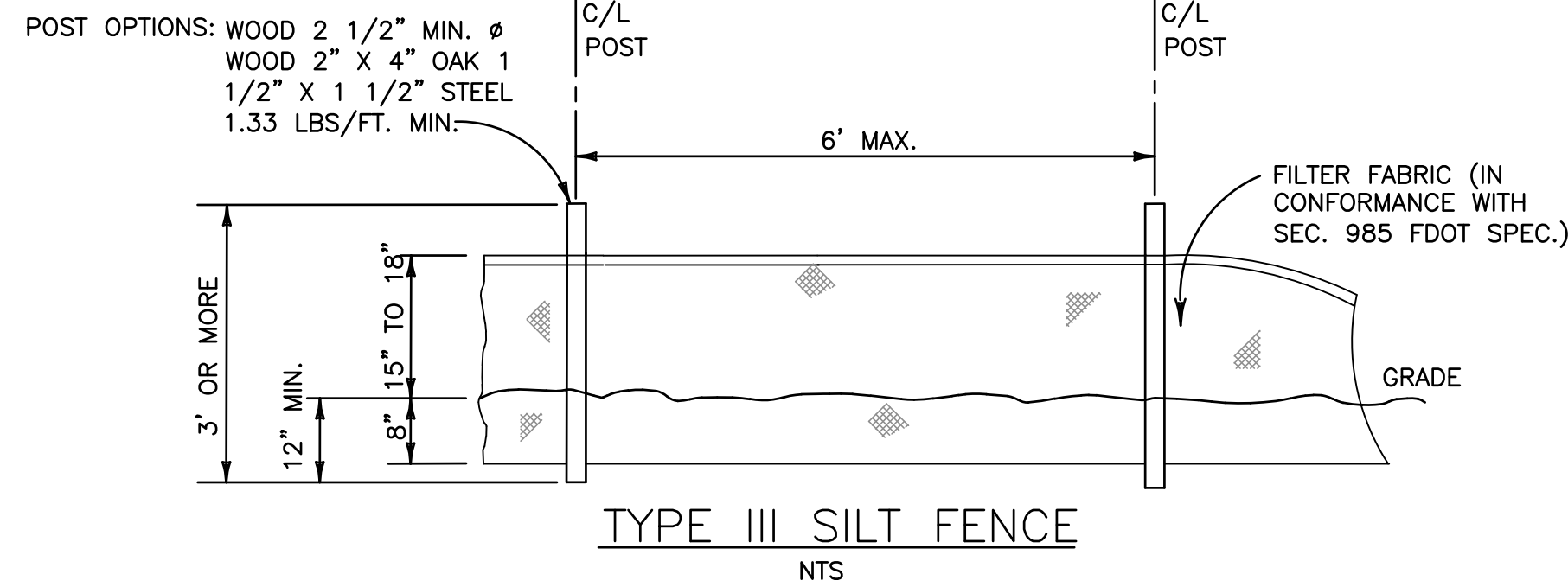
POLLUTION PREVENTION FOR CATCH BASIN

N.T.S.

CONTRACTOR TO LIFT
GRATE OFF AREA DRAINS
AND INSTALL FILTER
FABRIC ACROSS INLET
OPENING. REPLACE
GRATE TO HOLD FABRIC
SECURELY IN PLACE

NOTES:

1. FILTER FABRIC TO MEET
FDOT INDEX NO. 199,
280 SPECIFICATIONS AND
FDOT SECTION 985.
2. CONTRACTOR TO REMOVE
FILTER FABRIC FROM
CATCH BASIN JUST
PRIOR TO PAVING
AND/OR SEALCOATING.



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EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=10'

REVISIONS

NO.	DATE	DESCRIPTION

ZEPHYR ENGINEERING

WILFORD ZEPHYR, P.E.
HOLLYWOOD, FL
(786) 302-7693
wzephyreng@gmail.com
CA#: 31158

ZE

WASHINGTON APARTMENTS

2323 WASHINGTON STREET
HOLLYWOOD, FL

P.E.#:76036

DATE: 11/3/20

SCALE: 1"=10'

SHEET NO.: C1

1 OF 7

PROJECT NO.: 20-70

ALL ELEVATIONS ARE REFERENCED TO NAVD88 VERTICAL DATUM

LEGEND

- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED GRADE
- EXISTING ELEVATION
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- PROPOSED WATER METER
- EXISTING WATER METER
- EXISTING WATER VALVE
- PROPOSED BFP DEVICE
- EXISTING SAN. SEWER MH
- EXISTING FIRE HYDRANT

REVISIONS

NO.	DATE	DESCRIPTION

ZEPHYR ENGINEERING

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WASHINGTON APARTMENTS
2323 WASHINGTON STREET
HOLLYWOOD, FL

WILFORD ZEPHYR, P.E.
HOLLYWOOD, FL
(786) 302-7693
wzephyreng@gmail.com
CA# 31158

P.E.#: 76036

DATE: 11/3/20

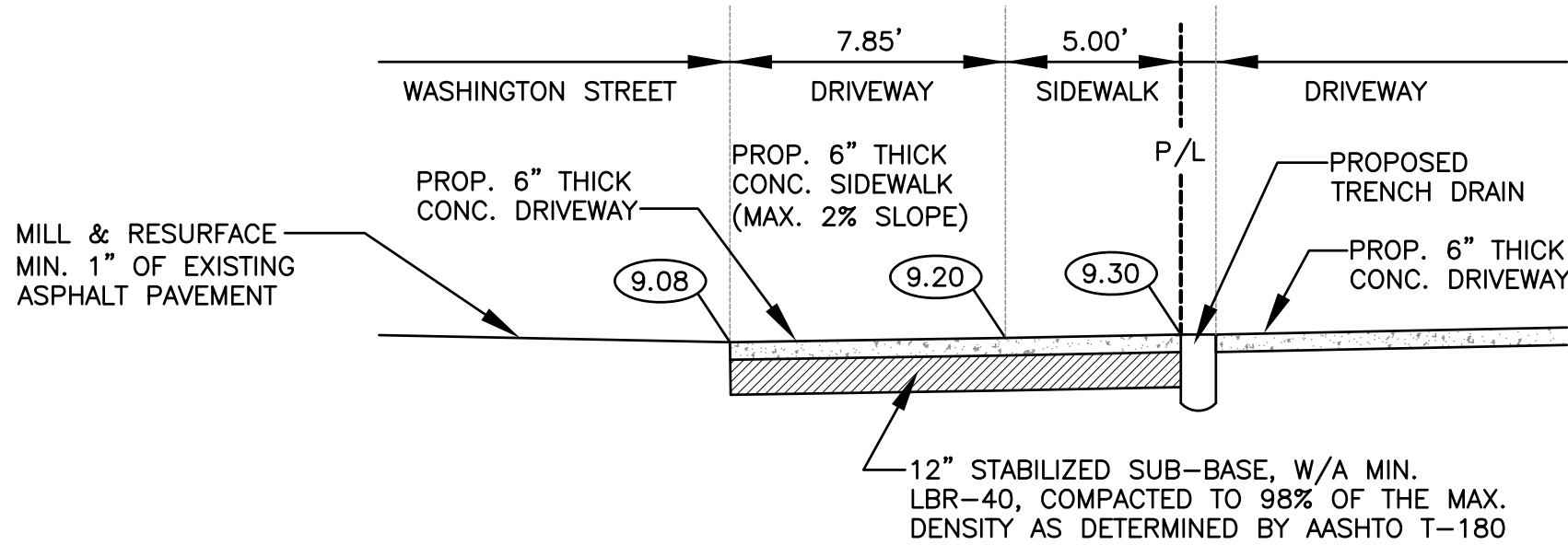
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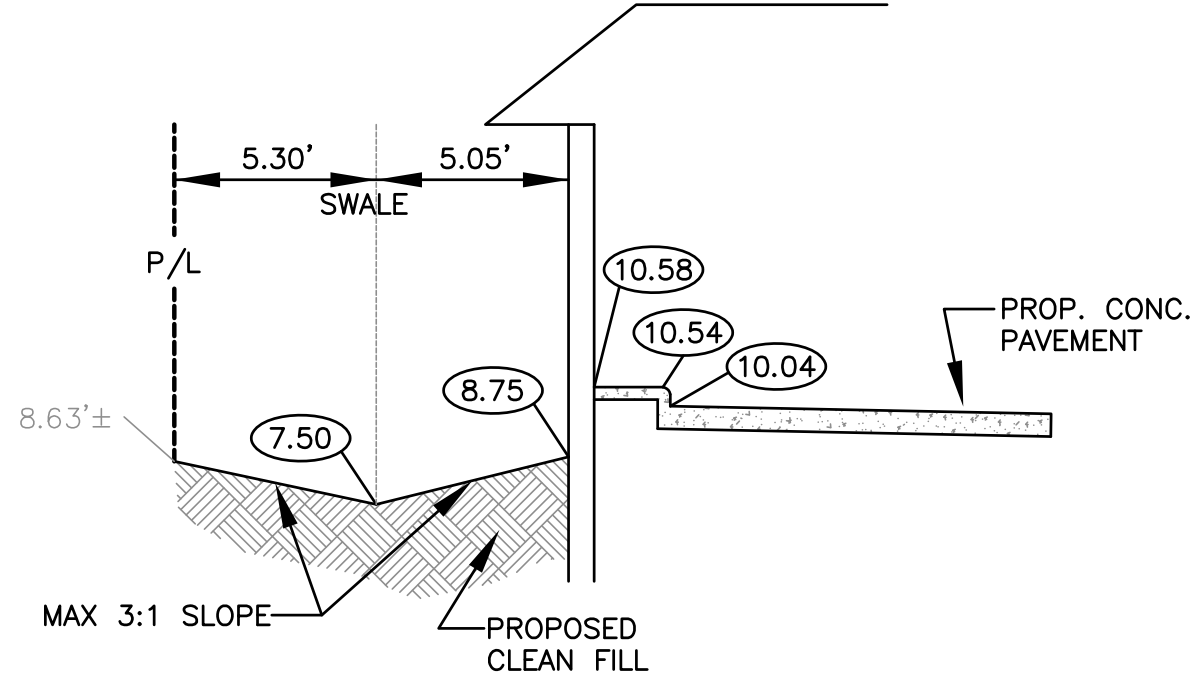
2 OF 7

PROJECT NO.: 20-70

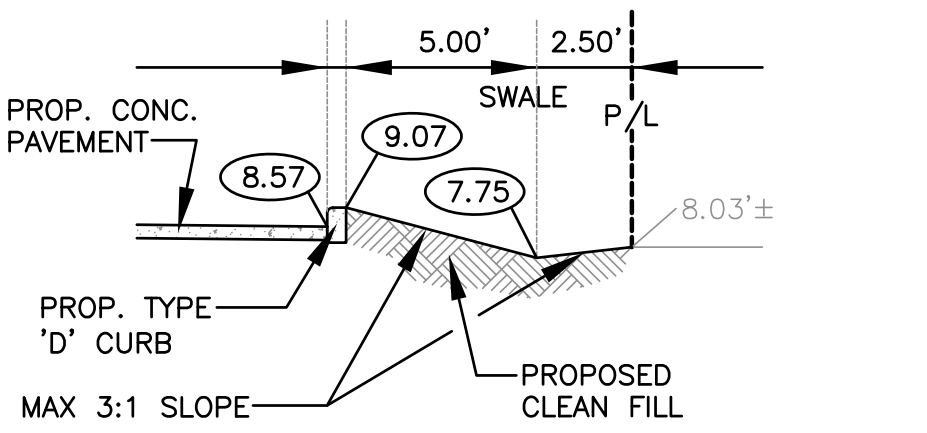
- NOTES:
- CONTRACTOR MUST NOTIFY ZEPHYR ENGINEERING OF THE START OF CONSTRUCTION DATE PRIOR TO START OF CONSTRUCTION. ZEPHYR ENGINEERING WILL NOT CERTIFY ANY CONSTRUCTION THAT WAS NOT INSPECTED BY ZEPHYR ENGINEERING, OR ZEPHYR ENGINEERING'S AUTHORIZED REPRESENTATIVE.
 - PRIOR TO CONSTRUCTION, CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL EXISTING ELEVATIONS.
 - CONTRACTOR MUST COORDINATE PROPOSED IMPROVEMENTS SHOWN ON CIVIL PLANS WITH EXISTING SITE CONDITIONS & PROPOSED PLANS BY THE OTHER DESIGN PROFESSIONALS PRIOR TO CONSTRUCTION. CONTRACTOR MUST ALSO VERIFY THAT THERE ARE NO DISCREPANCIES BETWEEN THE WATER, SEWER & DRAINAGE PLANS THAT MAY CAUSE CONFLICTS PRIOR TO CONSTRUCTION. CONTACT ZEPHYR ENGINEERING IF DISCREPANCIES EXIST.
 - PRIOR TO CONSTRUCTION, CONTRACTOR RESPONSIBLE TO DOCUMENT EXISTING CONDITIONS ON AND AROUND THE PROJECT AREA, INCLUDING THE R.O.W. AND ADJACENT PROPERTIES. IT'S RECOMMENDED THAT CONTRACTOR TAKE PHOTOGRAPHS & VIDEOS TO CLEARLY DOCUMENT CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR RESPONSIBLE TO REPAIR ALL DAMAGES CAUSED BY OR AS A RESULT OF THE PROPOSED CONSTRUCTION.
 - ALL ROOF DRAINS MUST BE CONNECTED TO THE ONSITE DRAINAGE SYSTEM.
 - CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR SITE PLAN LAYOUT AND DIMENSIONS.
 - EXISTING UTILITIES SHOWN ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR'S RESPONSIBLE TO FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO BE AWARE THAT THERE MAY BE SOME EXISTING UTILITIES ON OR ADJACENT TO THE PROJECT SITE THAT MAY NOT BE SHOWN ON THE CIVIL PLANS, AND CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THOSE UTILITIES AS WELL. CONTRACTOR RESPONSIBLE FOR RELOCATION OF EXISTING UTILITIES THAT CONFLICTS WITH PROPOSED CONSTRUCTION.



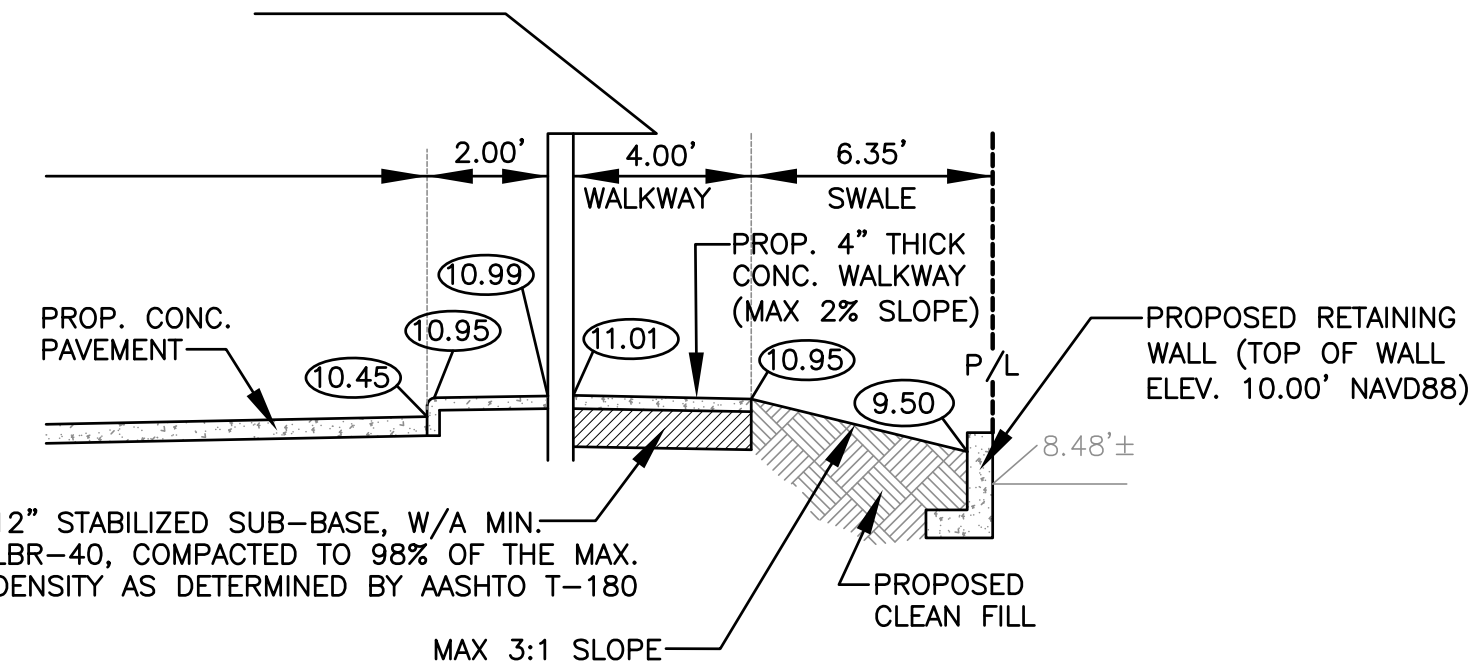
TYPICAL SECTION A-A
N.T.S.



TYPICAL SECTION B-B
N.T.S.



TYPICAL SECTION C-C
N.T.S.



TYPICAL SECTION D-D
N.T.S.

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PAVING, GRADING & DRAINAGE PLAN

SCALE: 1"=10'

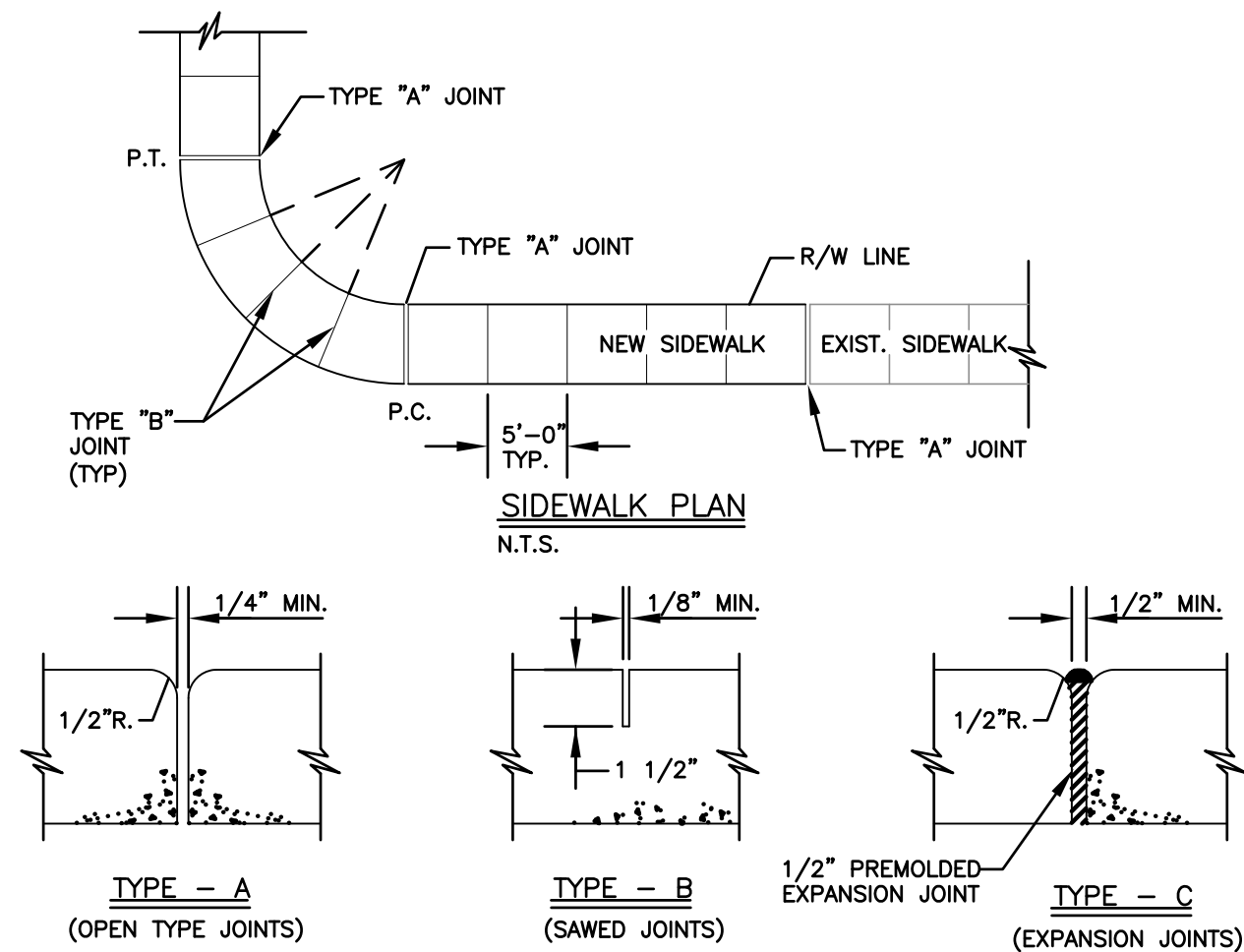
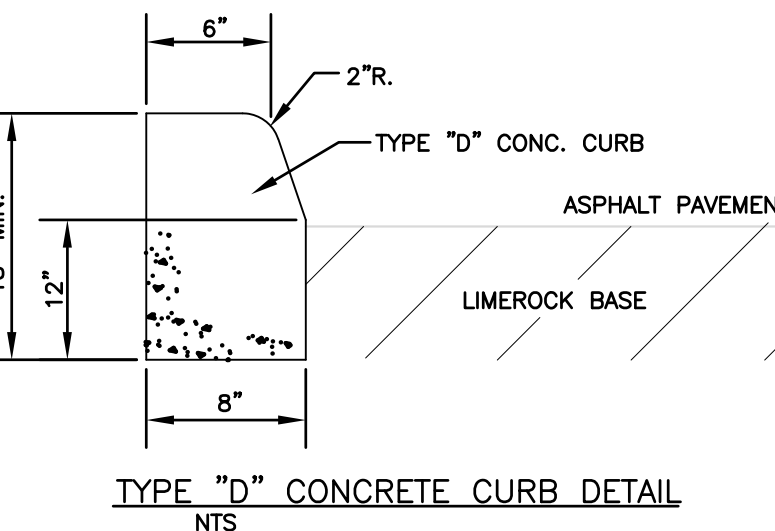
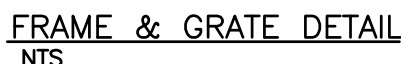
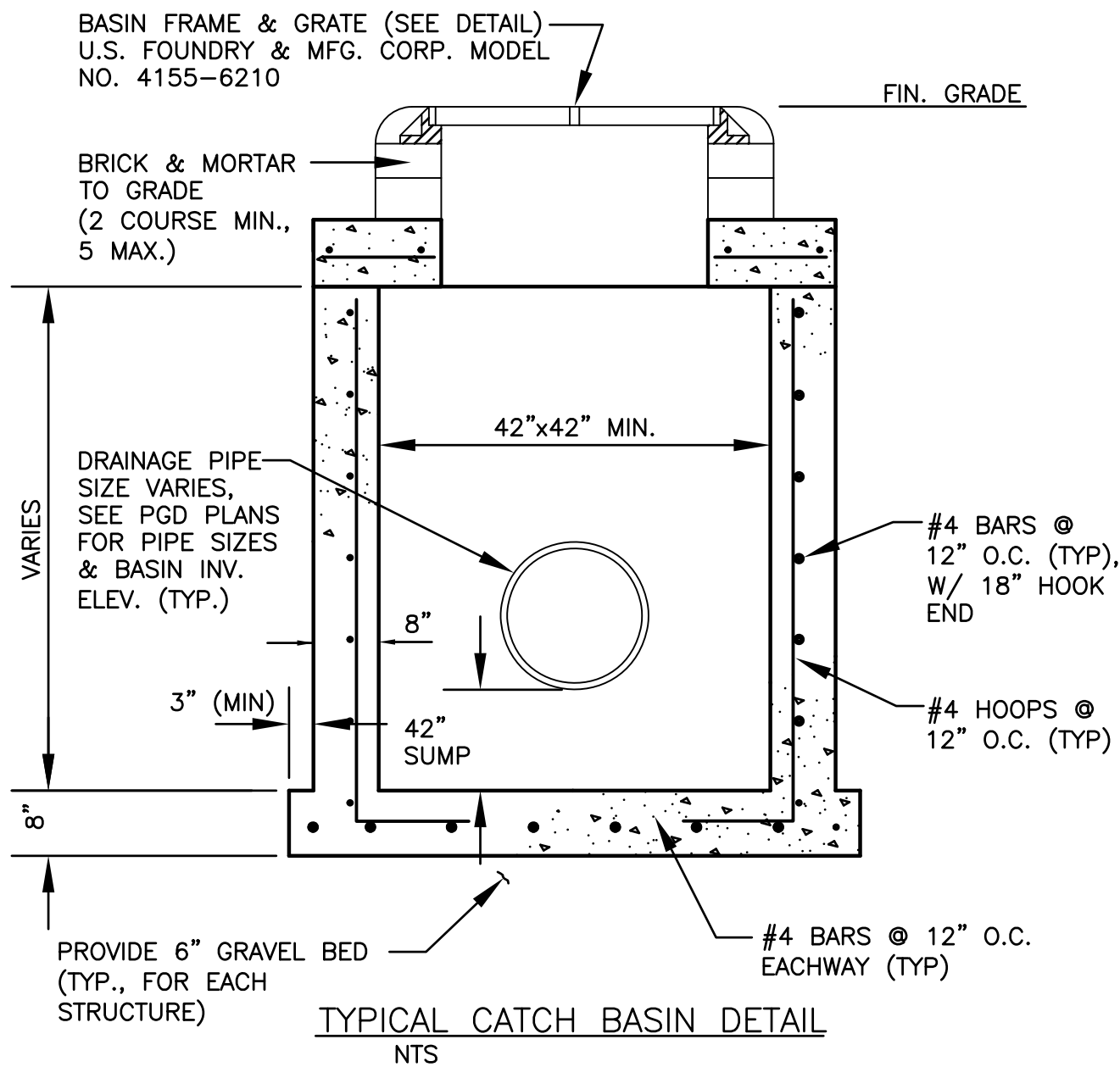
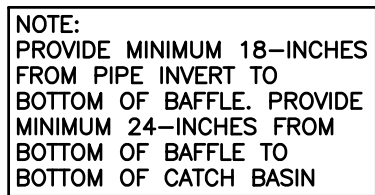
ALL ELEVATIONS ARE REFERENCED
TO NAVD88 VERTICAL DATUM

- PAVING, GRADING & DRAINAGE NOTES:

15. ASPHALT -
- BITUMINOUS MATERIAL SHALL BE ASPHALT CEMENT, VISCOSITY GRADE AC-20, CONFORMING TO THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS, 1986 EDITION, SECTION 916-1-1
- PRIME COAT SHALL BE CUT BACK ASPHALT, GRADE RC-70 OR RC-250 CONFORMING TO THE REQUIREMENTS SPECIFIED IN AASHTO DESIGNATION M-81-75 (1982), RATE - 0.10 GAL/S.Y. CACK COAT SHALL BE EMULSIFIED ASPHALT, GRADE RC-2 CONFORMING TO THE REQUIREMENTS SPECIFIED IN AASHTO DESIGNATION M-140-82, RATE - 0.02 TO 0.08 GAL/S.Y.

1. STOP SIGNS SHALL BE 30"x30" (R1-1), HIGH INTENSITY.
2. ALL SIGNS SHALL BE PLACED AT A HEIGHT NOT LESS THAN 5' & NOT GREATER THAN 7', THE HEIGHT IS MEASURED FROM THE BOTTOM OF THE SIGN TO THE EDGE OF NEAREST PAVEMENT. THE SIGN POST SHALL BE PLACED A MINIMUM OF 3' TO A MAXIMUM OF 12' FROM THE ADJACENT PAVEMENT, & A MINIMUM OF 6' FROM THE CROSS TRAFFIC PAVEMENT.
3. STOP BARS SHALL BE 24" WHITE.
4. ALL SITE PAVEMENT MARKINGS SHALL BE PAINT, (UNLESS INDICATED OTHERWISE)
5. ALL ROADWAY SURFING AND SIGNAGE IN THE ROAD RIGHT-OF-WAY SHALL BE THERMOPLASTIC & SHALL CONFORM TO MUTCD AND PBC TYPICAL T-P-08-001.

1. BAFFLE TO BE SECTION OF CMP CUT IN HALF, CMP PIPE FOR BAFFLE SHALL BE THE NEXT LARGER PIPE SIZE THAN DISCHARGE LINE.
2. 1/2" GALV. LAG BOLT IN LEAD SHIELD (TYP.).
3. WELD, OR 2 1/2" S.S. THRU BOLTS
4. GRATING SHALL BE OFFSET IF STRUCTURE IS USED AS OVERFLOW.



LOCATION :
PEDESTRIAN AREAS
DRIVEWAYS & OTHER

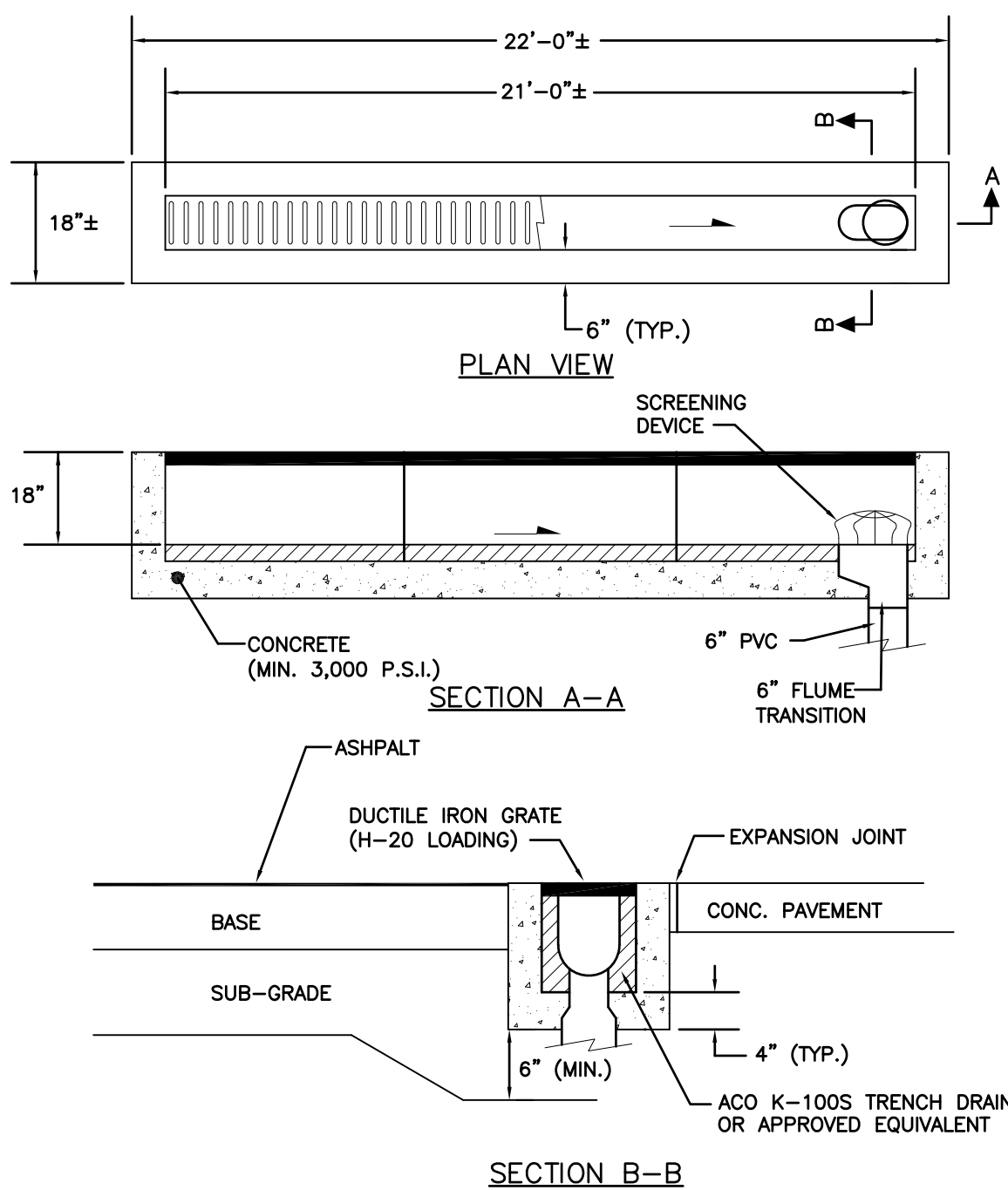
- NOTES:**
1. EXPANSION JOINTS EVERY 50' O.C.
 2. CONC. MIN. 2500 PSI, NO STEEL IN SIDEWALK
 3. 8" THK. SIDEWALK ACROSS DRIVEWAYS

TABLE OF SIDEWALK JOINTS

<u>TYPE</u>	<u>LOCATION :</u>
"A"	P.C. & P.T. OF CURVES & TIE-IN JUNCTION OF EXIST. TO NEW SIDEWALKS.
"B"	5'-0" O.C. ON SIDEWALKS.
"C"	* WHERE SIDEWALK ABUTS CONC. CURBS & DRIVEWAYS OR SIMILAR STRUCTURES. EXPANSION JOINTS EVERY 50' O.C.
* INSTALLED AT THE DISCRETION OF THE ENGINEER	

SIDEWALK DETAIL
NTS

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NOTES:


1. SUBGRADE SHALL BE COMPACTED TO 95% MOD. PROCTOR DENSITY (AASHTO T-180)
2. CONNECT TRENCH DRAIN TO OUTFALL PIPE IN ACCORDANCE WITH:

ALTERNATIVE-A: FOR A TERMINAL CONNECTION USE ONE (1) 90° ELBOW.
ALTERNATIVE-B: FOR AN IN-LINE CONNECTION USE ONE (1) 45° ELBOW
AND ONE (1) WYE.

TRENCH DRAIN DETAIL

[illegible]

ZEPHYR ENGINEERING



WASHINGTON APARTMENTS
2323 WASHINGTON STREET
HOLLYWOOD, FL

P.E.#:76036

DATE: 11/3/20

SCALE: N.T.S.

SHEET NO.:

C3

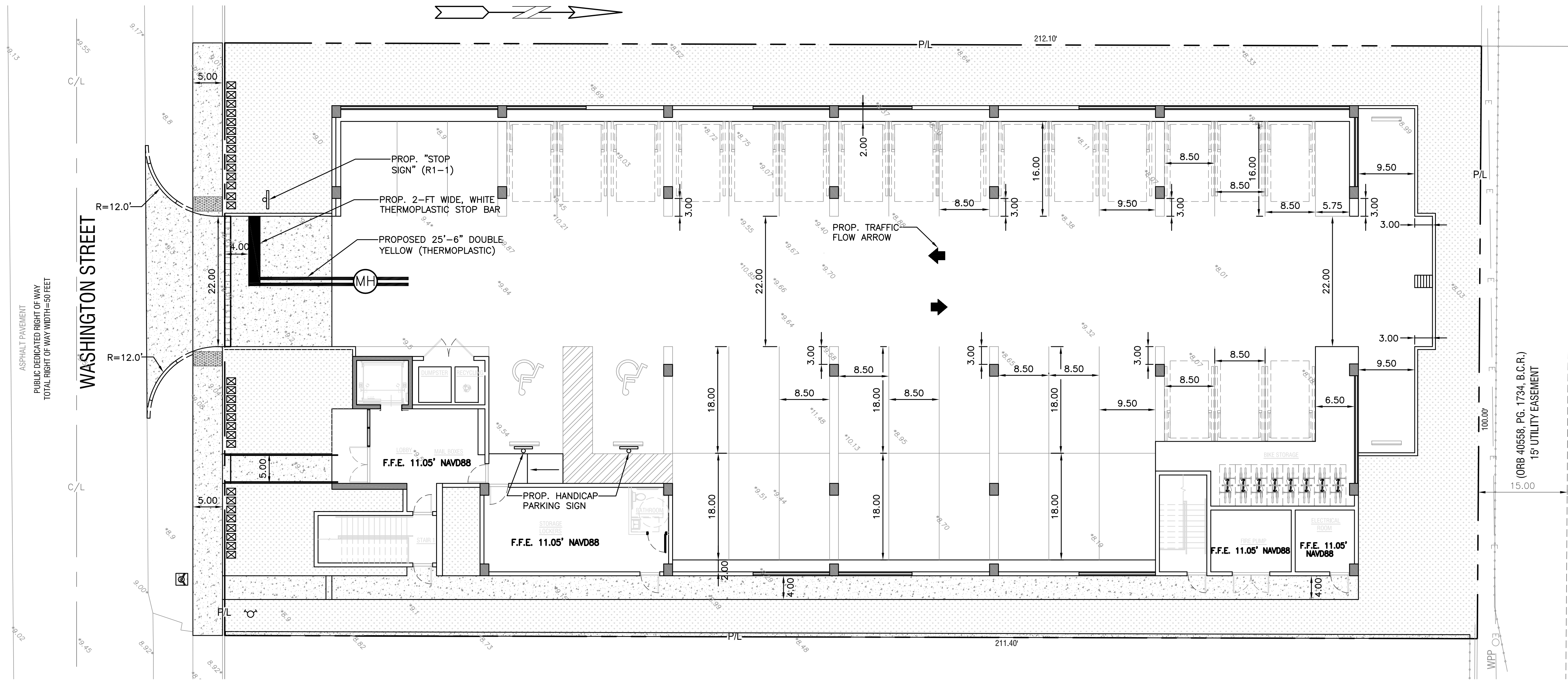
3 OF 7



11-13-20

CIVIL DETAILS

SCALE: N.T.S

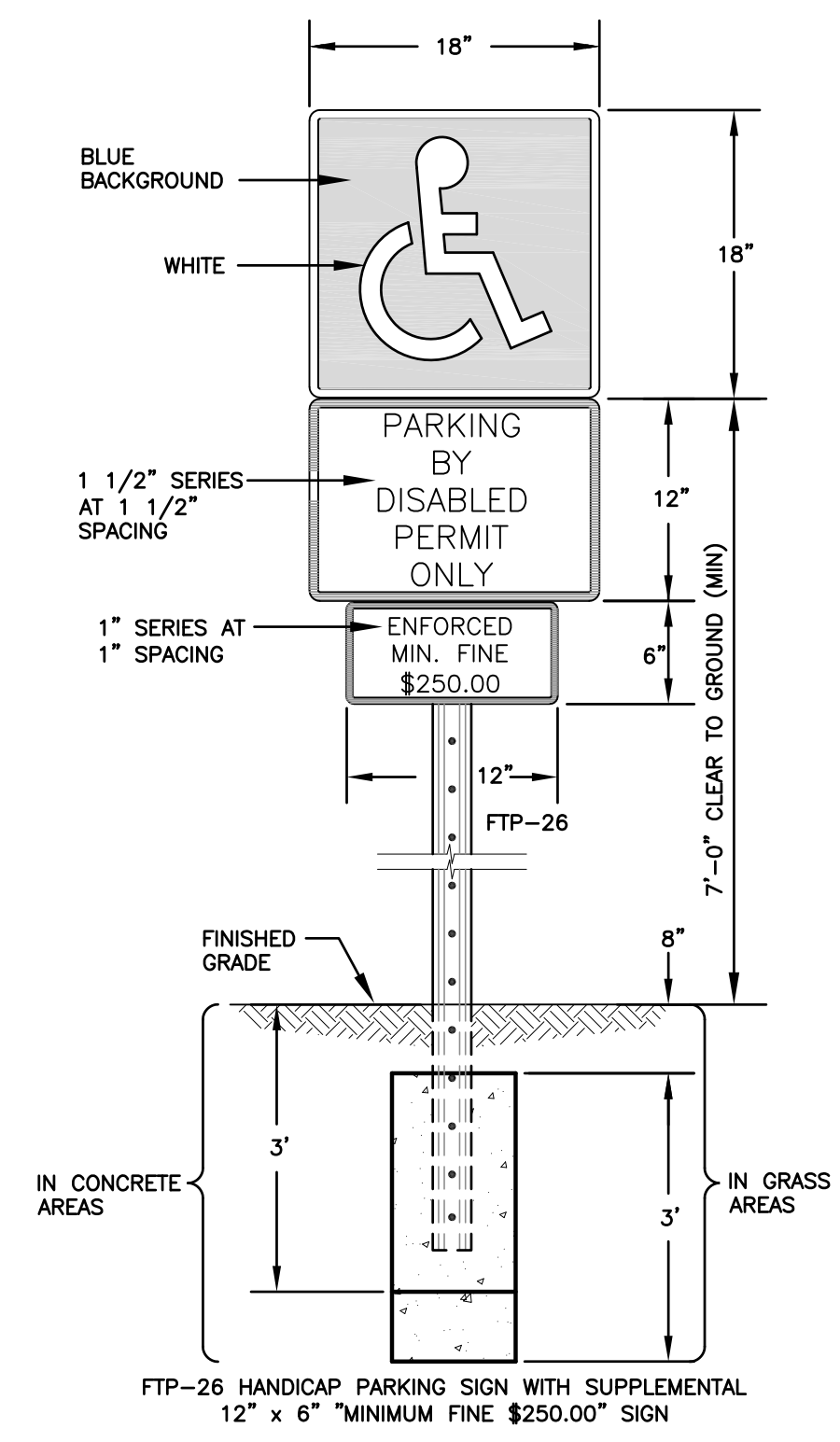


LEGEND	
	PROPOSED CONCRETE
	PROPOSED ASPHALT
	PROPOSED GRADE
	EXISTING ELEVATION
	PROPOSED CATCH BASIN
	EXISTING CATCH BASIN
	PROPOSED WATER METER
	EXISTING WATER METER
	EXISTING WATER VALVE
	PROPOSED BFP DEVICE
	EXISTING SAN. SEWER MH
	EXISTING FIRE HYDRANT

REVISIONS	
NO.	DATE

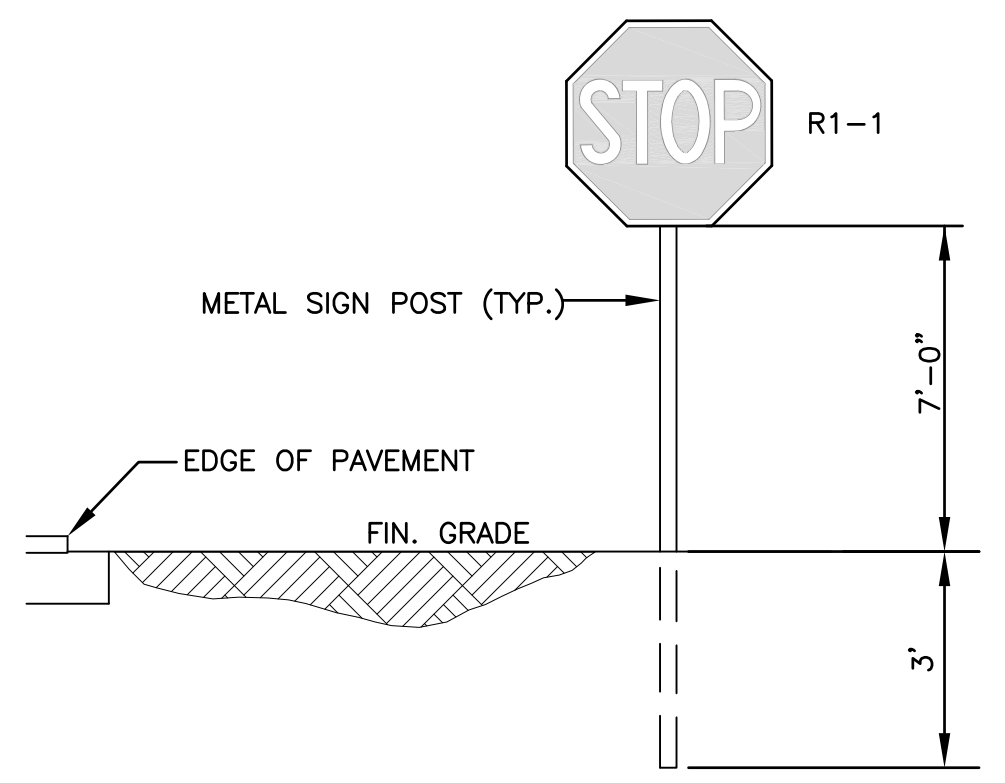
ZEPHYR ENGINEERING
WILFORD ZEPHYR, P.E.
HOLLYWOOD, FL
(786) 302-7693
wzephyreng@gmail.com
CA# 31158

ZE



- NOTES:
- TOP PORTION OF SIGN SHALL HAVE A REFLECTORIZED BLUE BACKGROUND.
 - BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
 - LOCATE SIGN AT CENTERLINE AND HEAD OF EACH HANDICAP PARKING STALL, WHERE APPLICABLE.

HANDICAP PARKING SIGN DETAIL
NTS

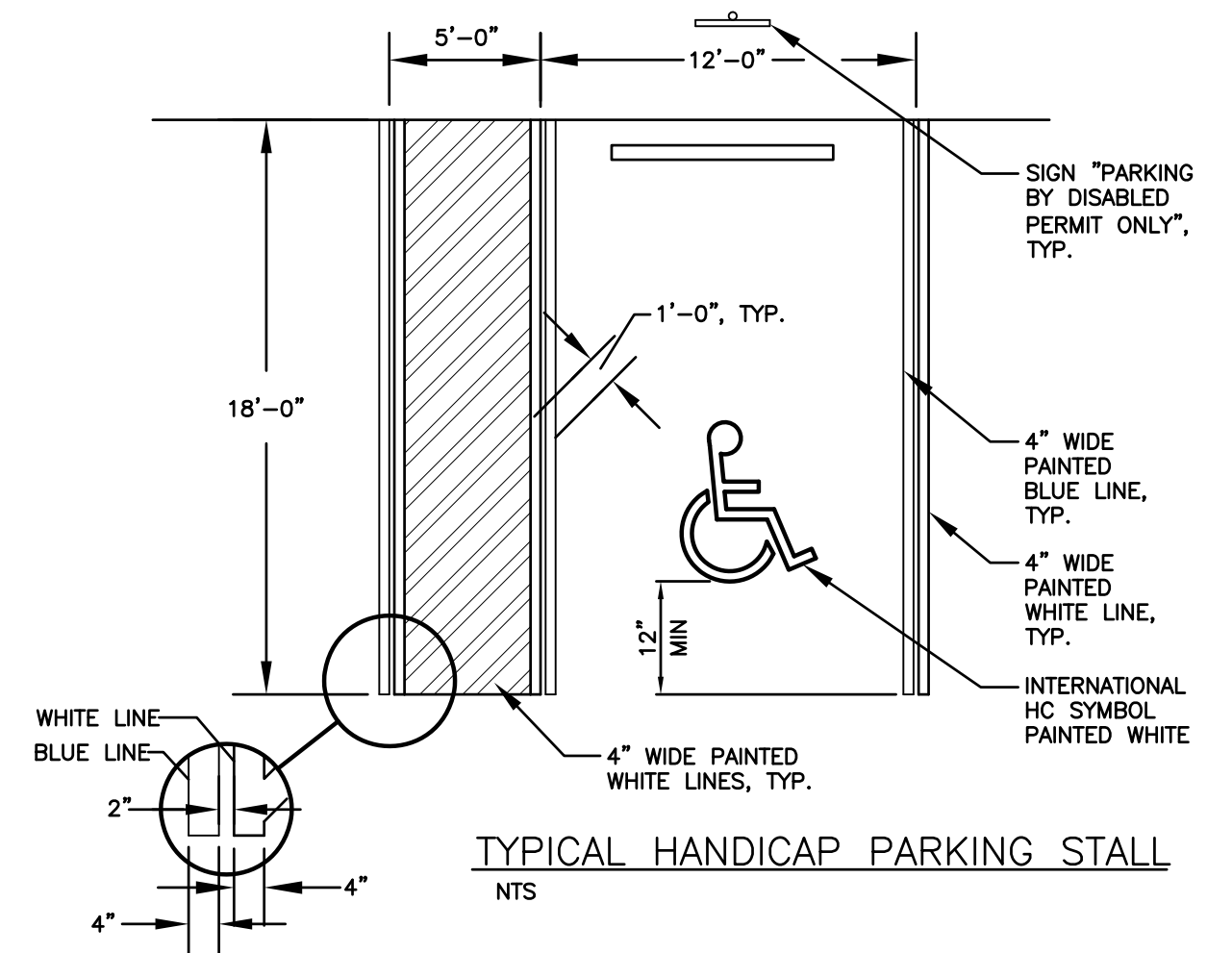
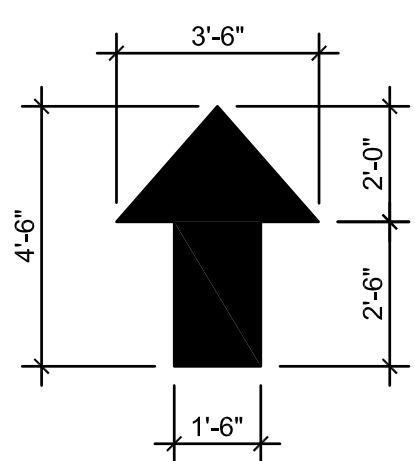


TYPICAL SIGN INSTALLATION DETAIL
NTS

TRAFFIC CONTROL ARROWS: DIRECTIONAL ARROWS PAINTED ON CONCRETE - SEE LOCATIONS THIS SHEET.

PAINT FOR ARROWS: PROVIDE A MINIMUM OF 2-COATS OF D.O.T. APPROVED PAINT - UTILIZE "YELLOW" COLORED PAINT ON CONCRETE.

TRAFFIC CONTROL ARROWS DETAILS
NTS



TYPICAL HANDICAP PARKING STALL
NTS

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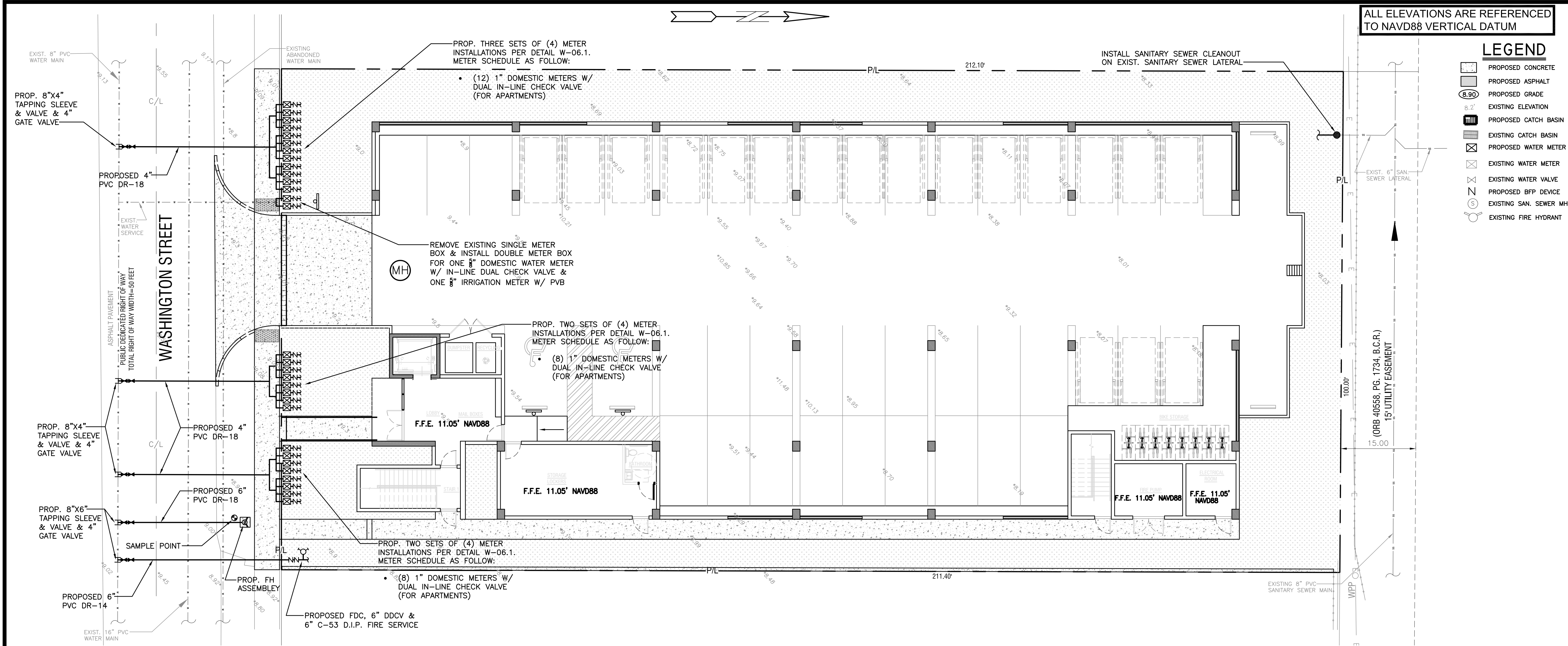


PAVEMENT MARKINGS & SIGNAGE PLAN

SCALE: 1"=10'

WASHINGTON APARTMENTS
2323 WASHINGTON STREET
HOLLYWOOD, FL

P.E.#: 76036
DATE: 11/3/20
SCALE: 1"=10'
SHEET NO.: C4
4 OF 7
PROJECT NO.: 20-70



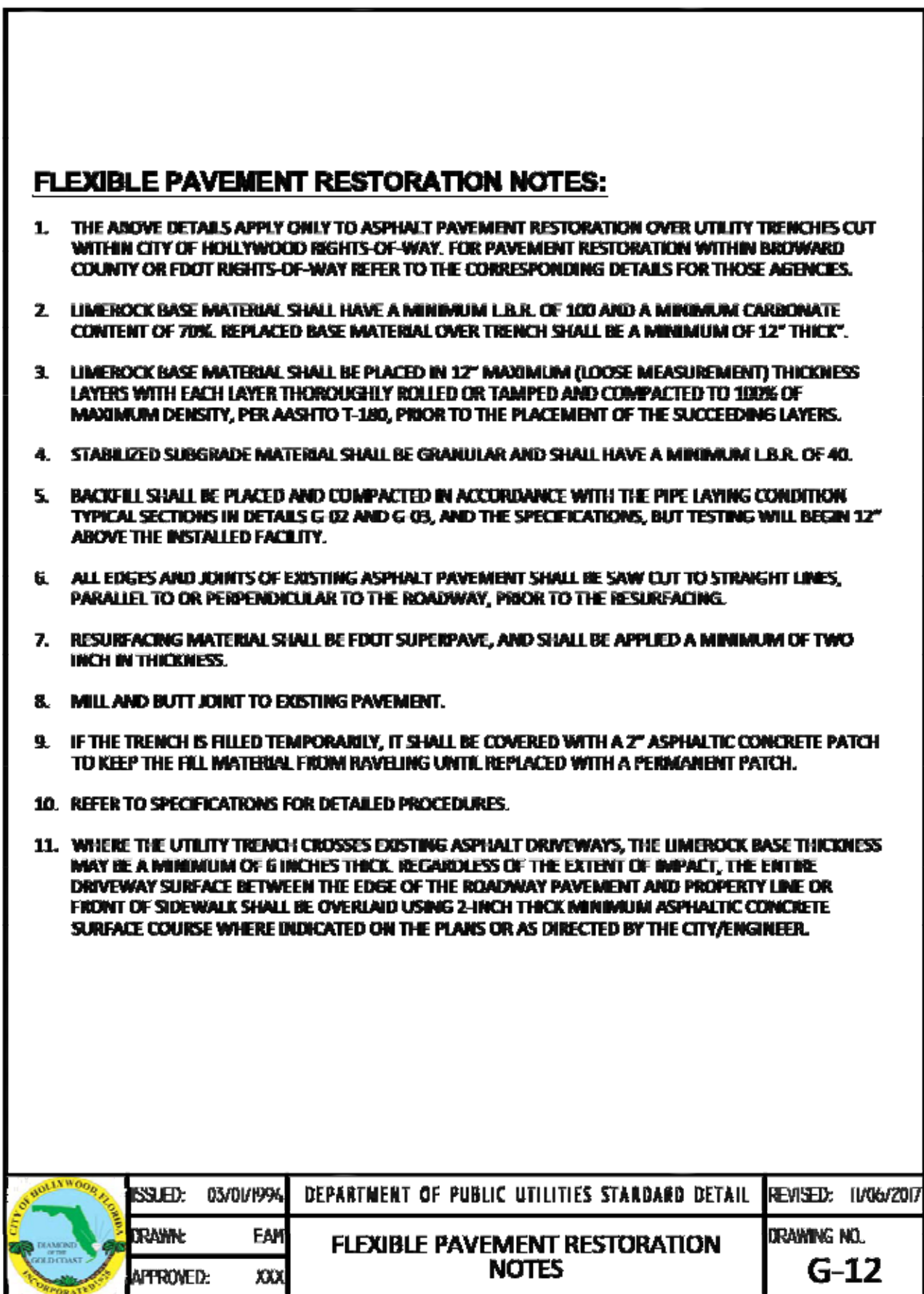
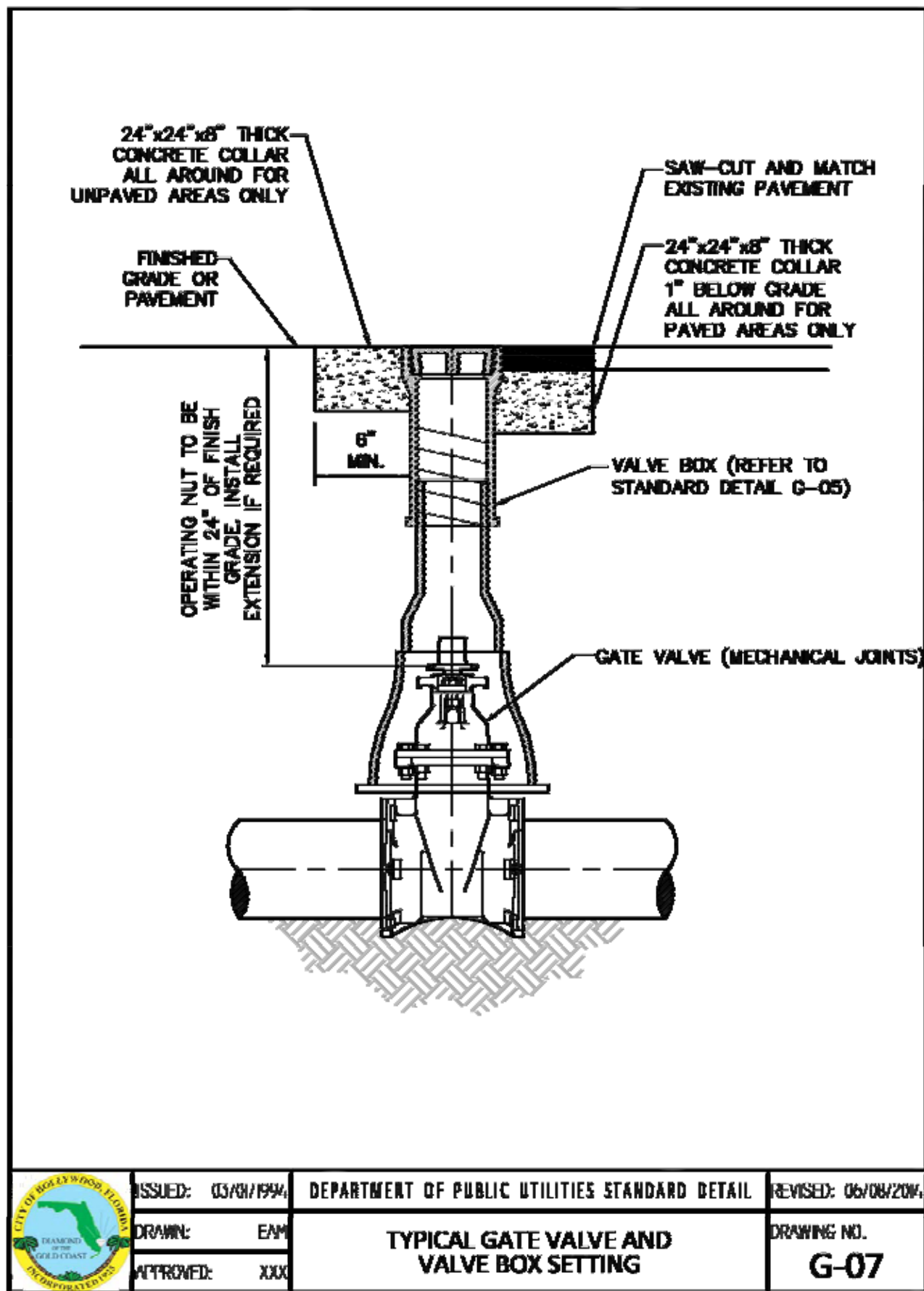
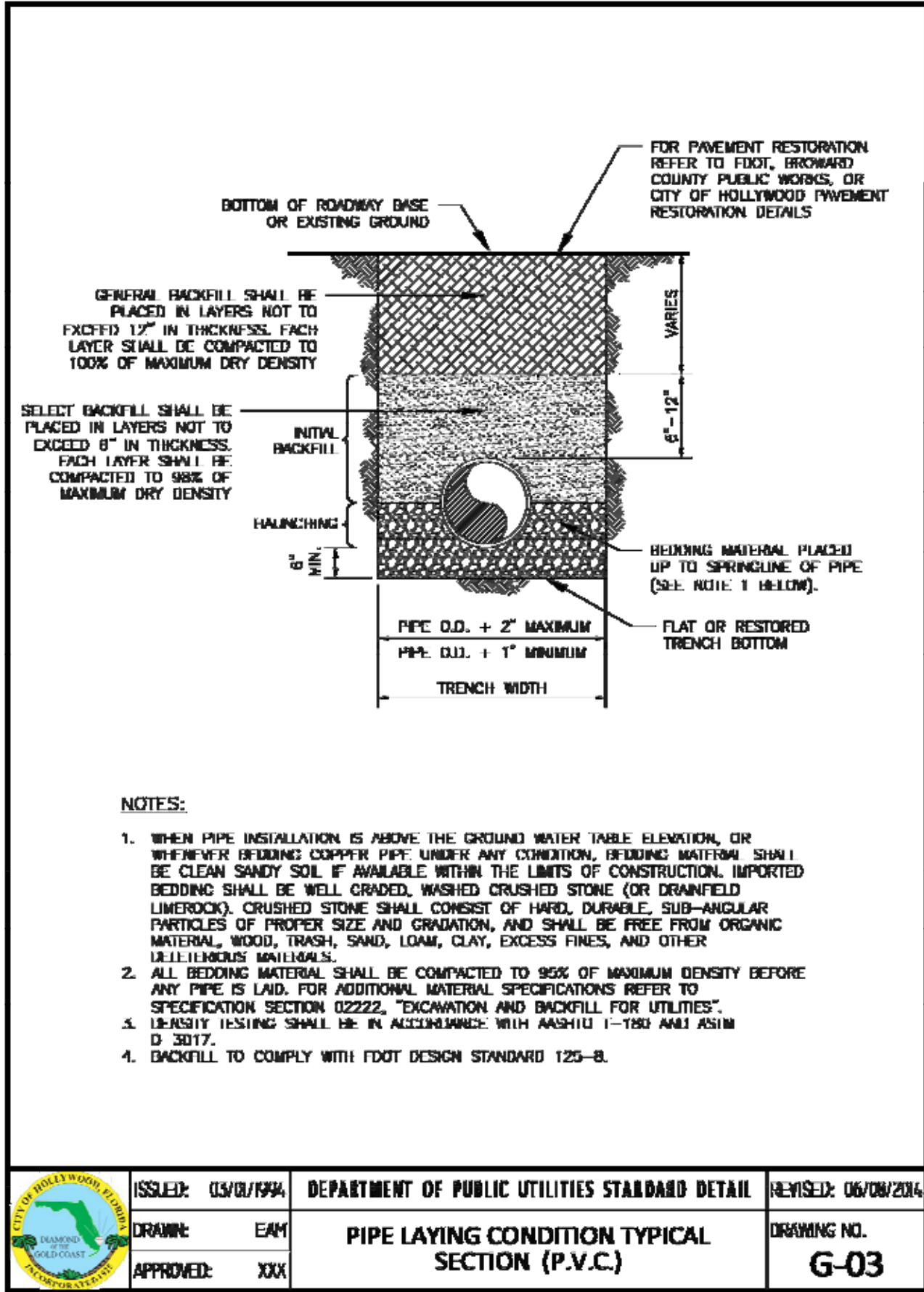
REVISIONS	
NO.	DESCRIPTION

ZEPHYR ENGINEERING

ZE

WASHINGTON APARTMENTS
2323 WASHINGTON STREET
HOLLYWOOD, FL

WILFORD ZEPHYR, P.E.
HOLLYWOOD, FL
(786) 302-7693
wzephyr@gmail.com
CA#: 31158



WATER & SEWER DEMAND CALCULATIONS:

PROJECT INFO:

- 29 RESIDENTIAL UNITS

WATER DEMAND

(29 RESIDENTIAL UNITS)X(141 GPD/UNIT)=4,089 GPD

WASTEWATER DEMAND

(29 RESIDENTIAL UNITS)X(100 GPD/UNIT)=2,900 GPD

(PER BROWARD COUNTY WATER & WASTEWATER ENGINEERING DIVISION'S GUIDELINE FOR DETERMINING ABILITY TO PROVIDE POTABLE WATER & WASTEWATER SERVICE AND EQUIVALENT RESIDENTIAL UNIT FACTORS PUBLICATIONS)

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WASHINGTON APARTMENTS

SCALE: 1"=10'

WATER & SEWER PLAN & DETAILS

P.E.#:76036

DATE: 11/3/20

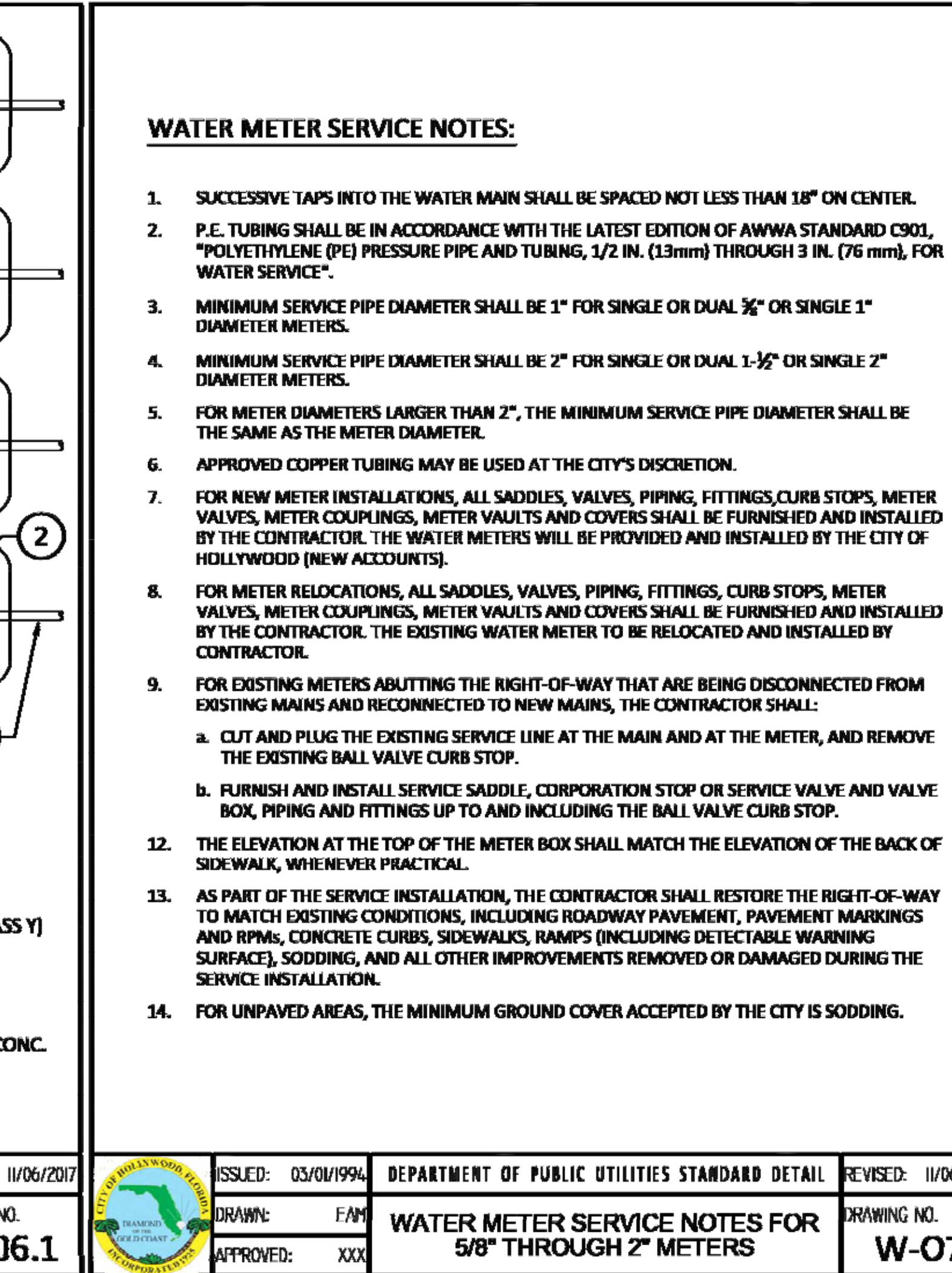
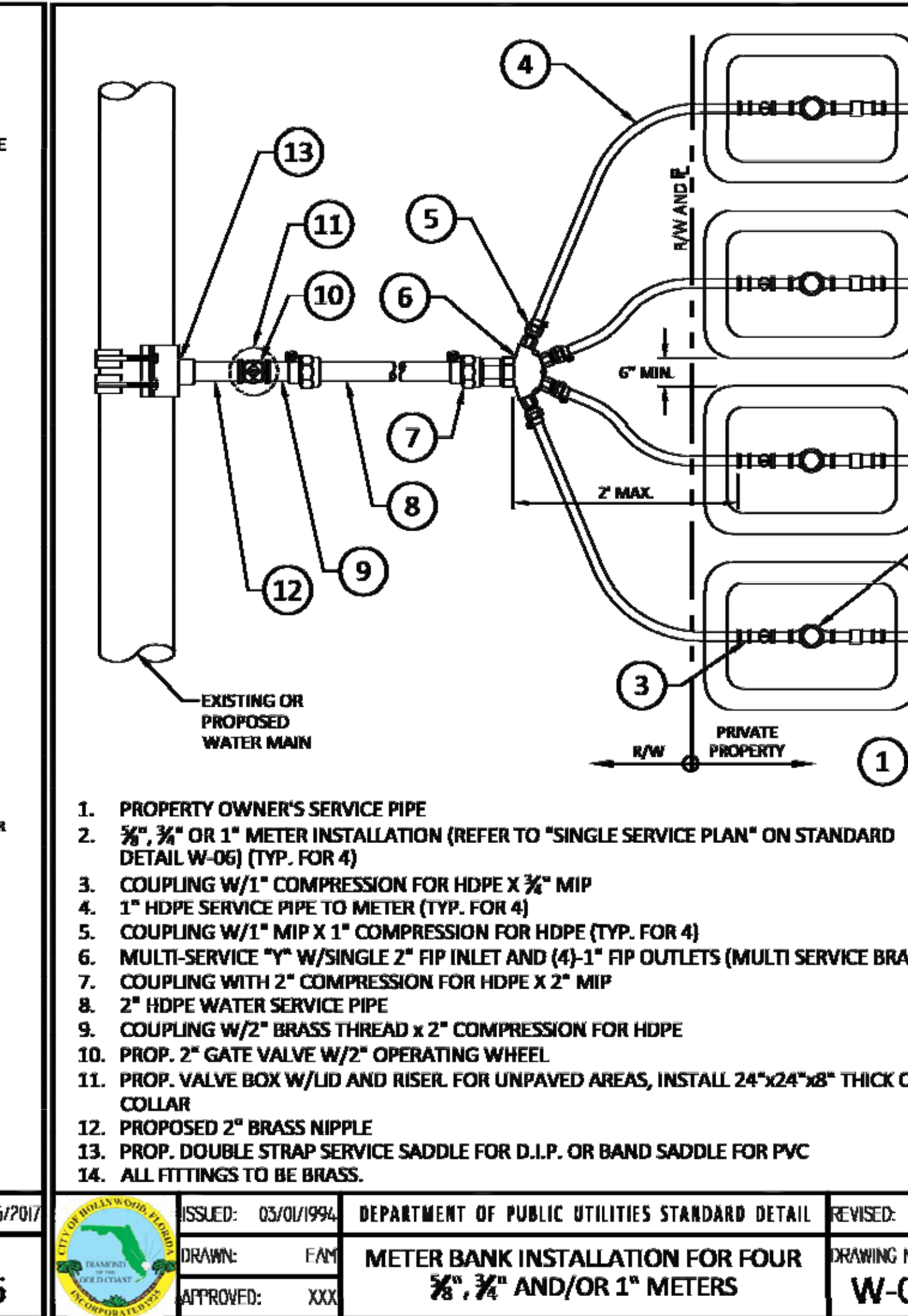
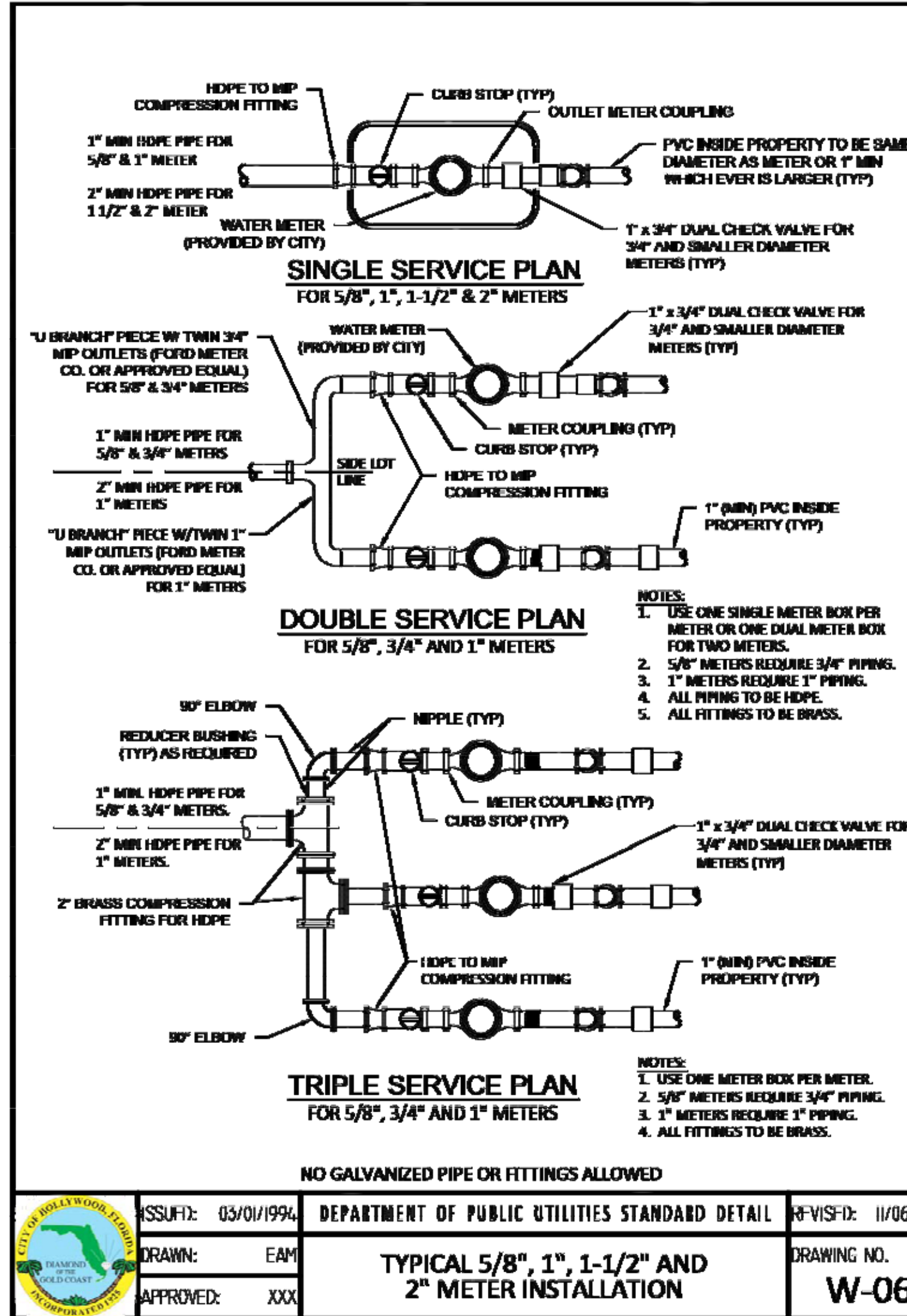
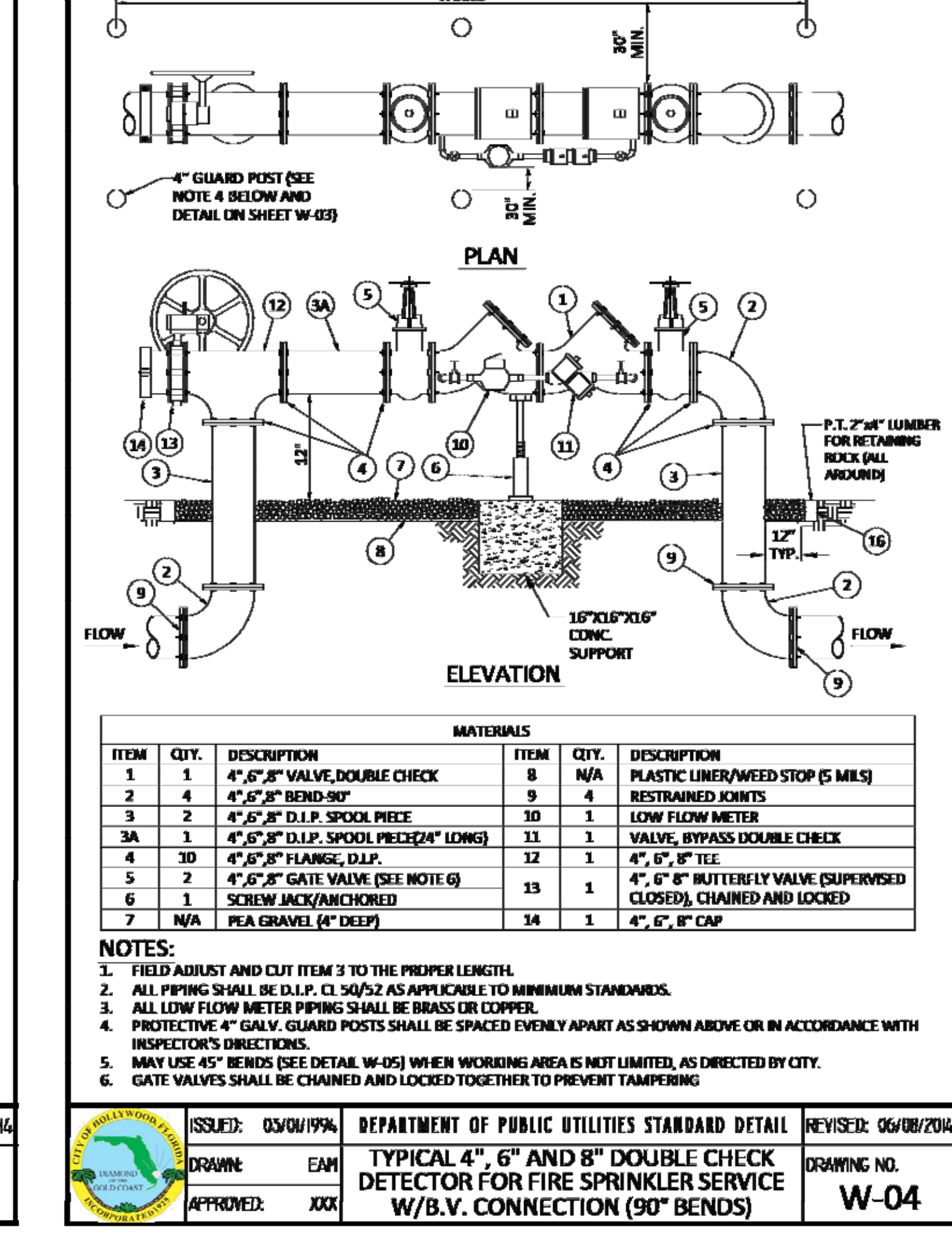
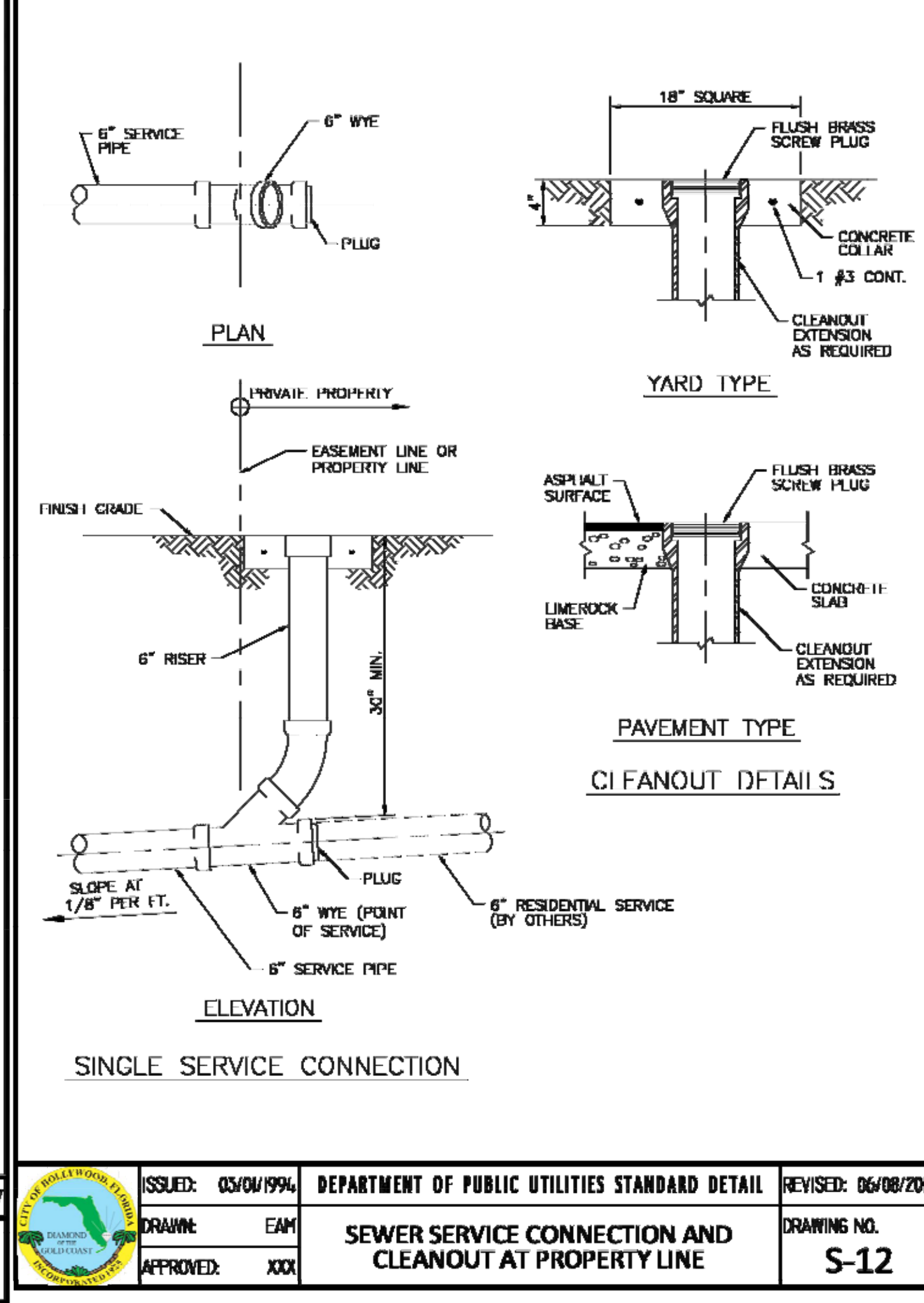
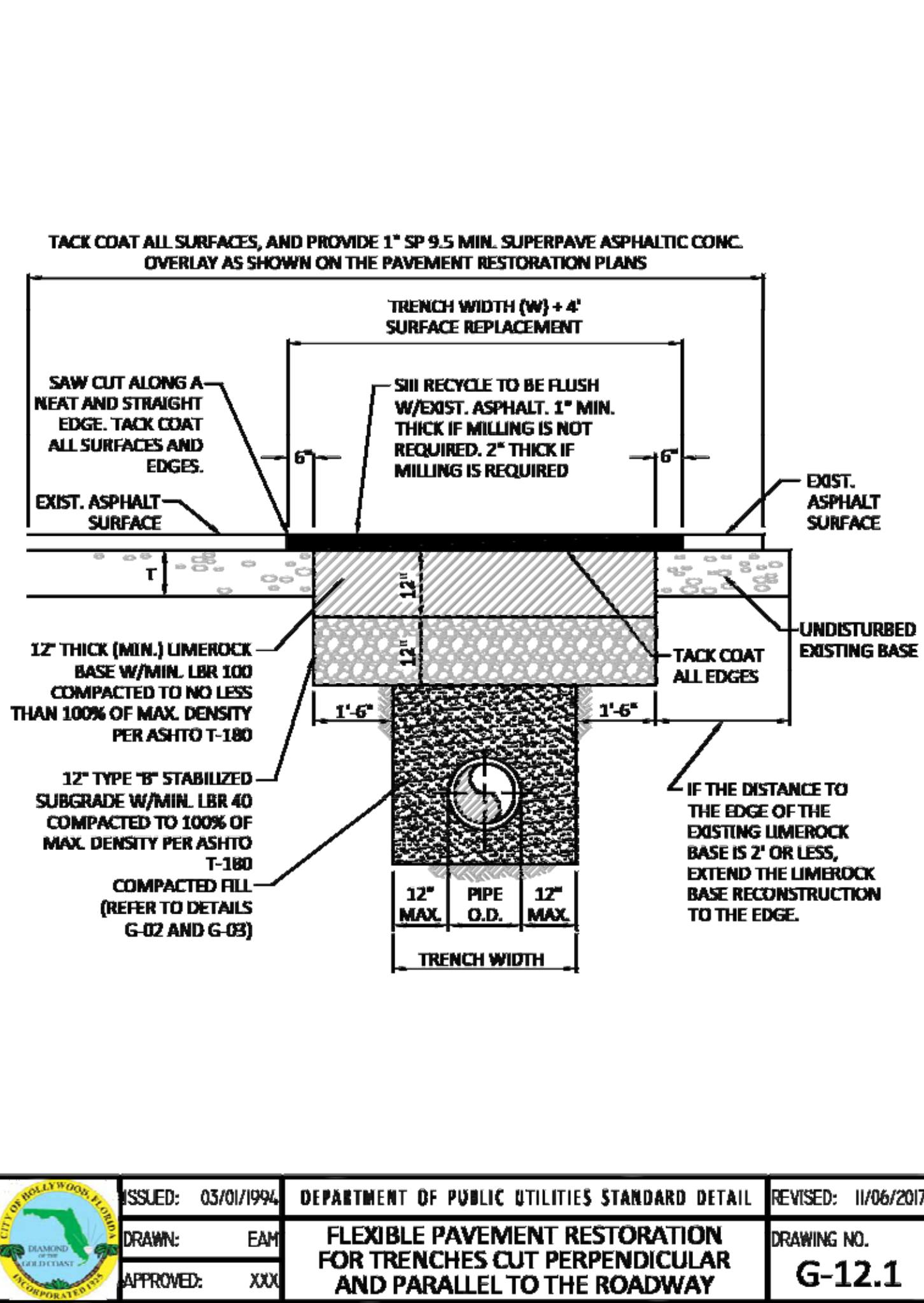
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C5

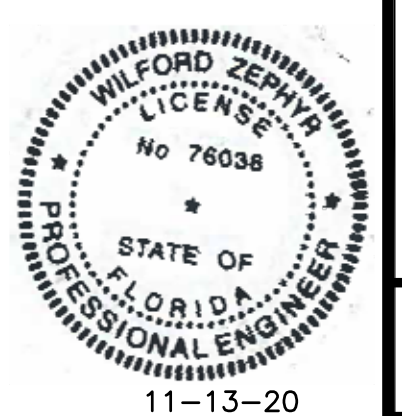
5 OF 7

PROJECT NO.: 20-70



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WATER & SEWER DETAILS I

SCALE: N.T.S.

REVISIONS

NO.	DATE	DESCRIPTION

ZEPHYR ENGINEERING

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wzephyr@gmail.com
CA#: 31158

WASHINGTON APARTMENTS

2323 WASHINGTON STREET

HOLLYWOOD, FL

P.E.#: 76036

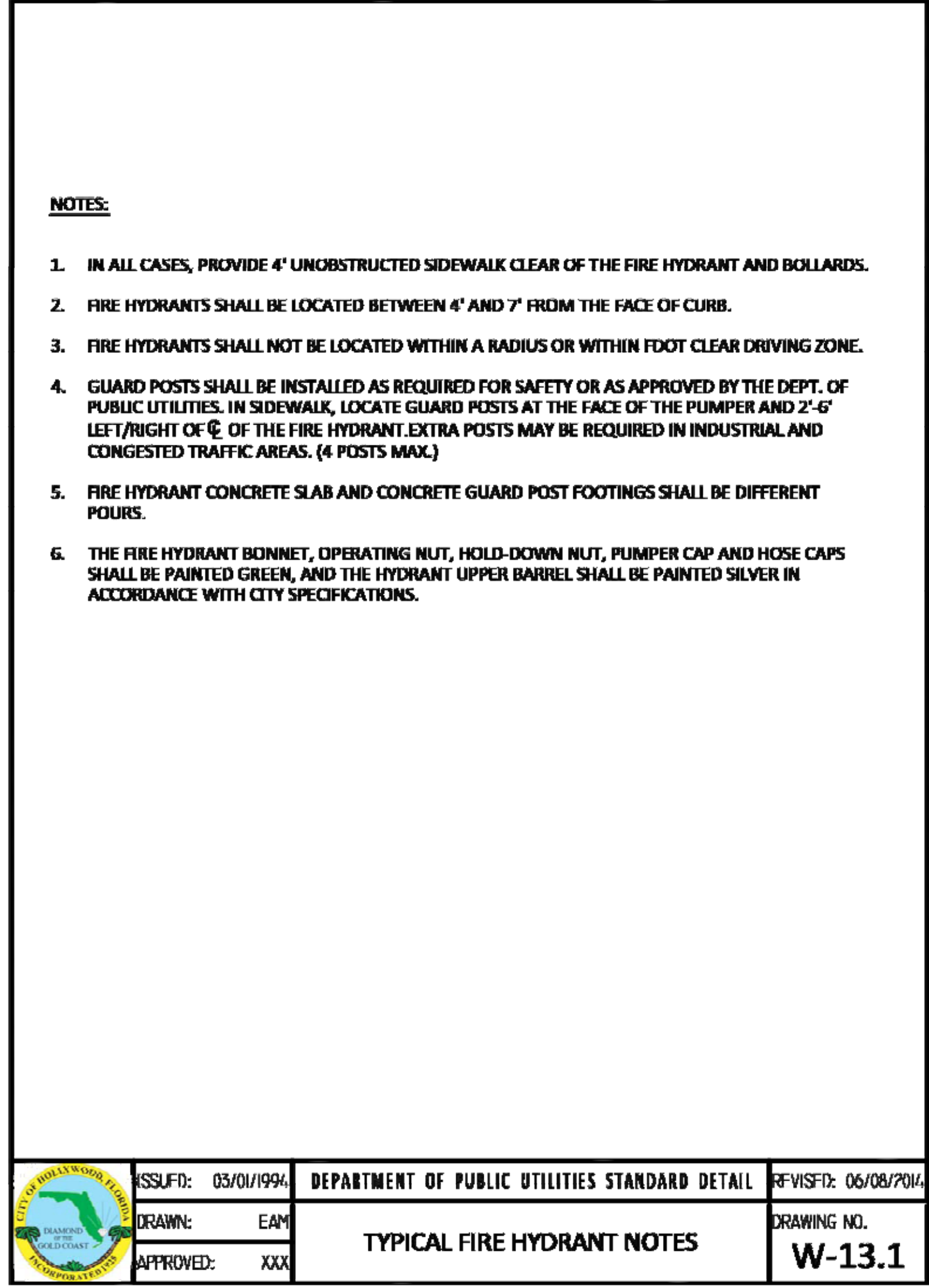
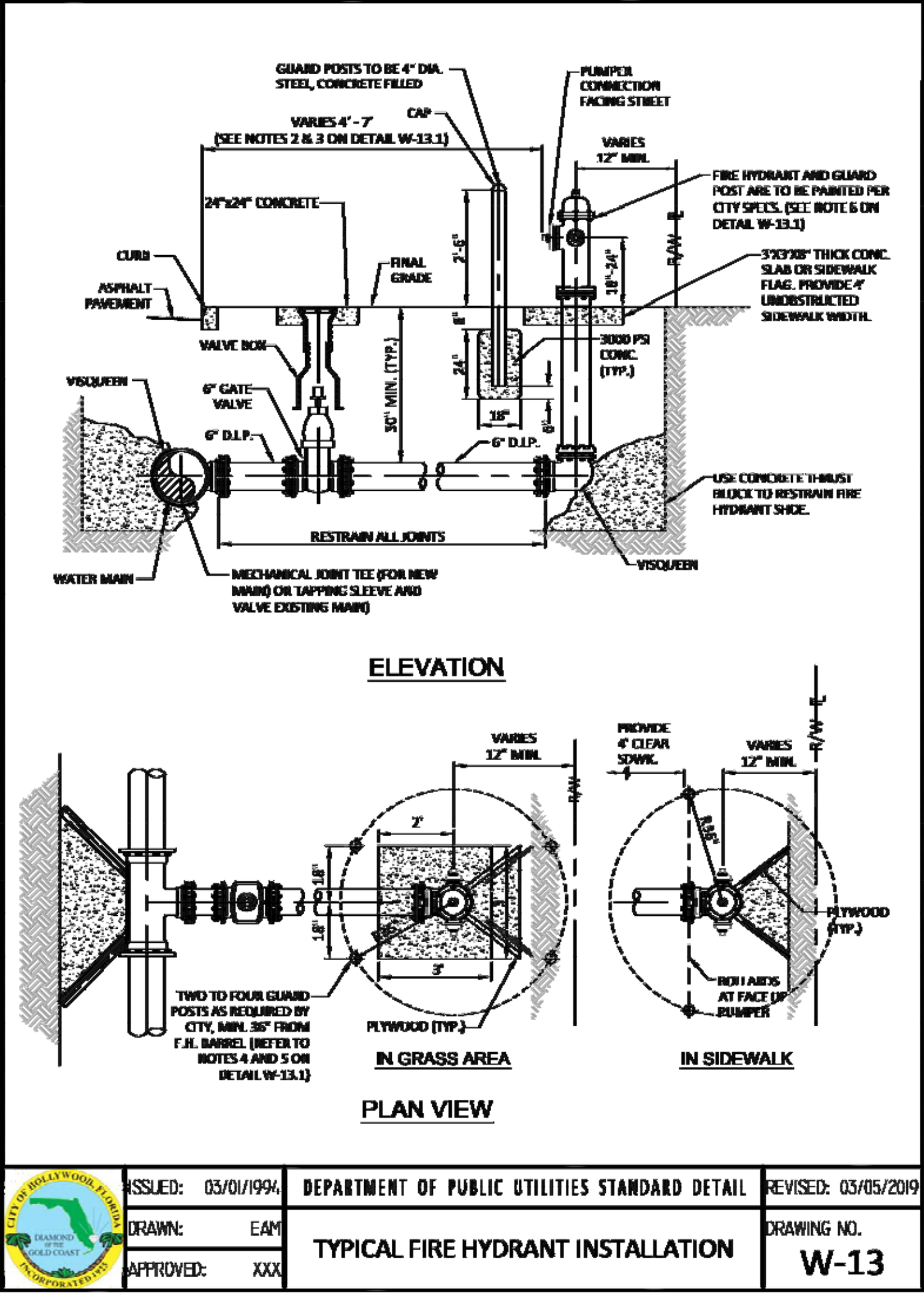
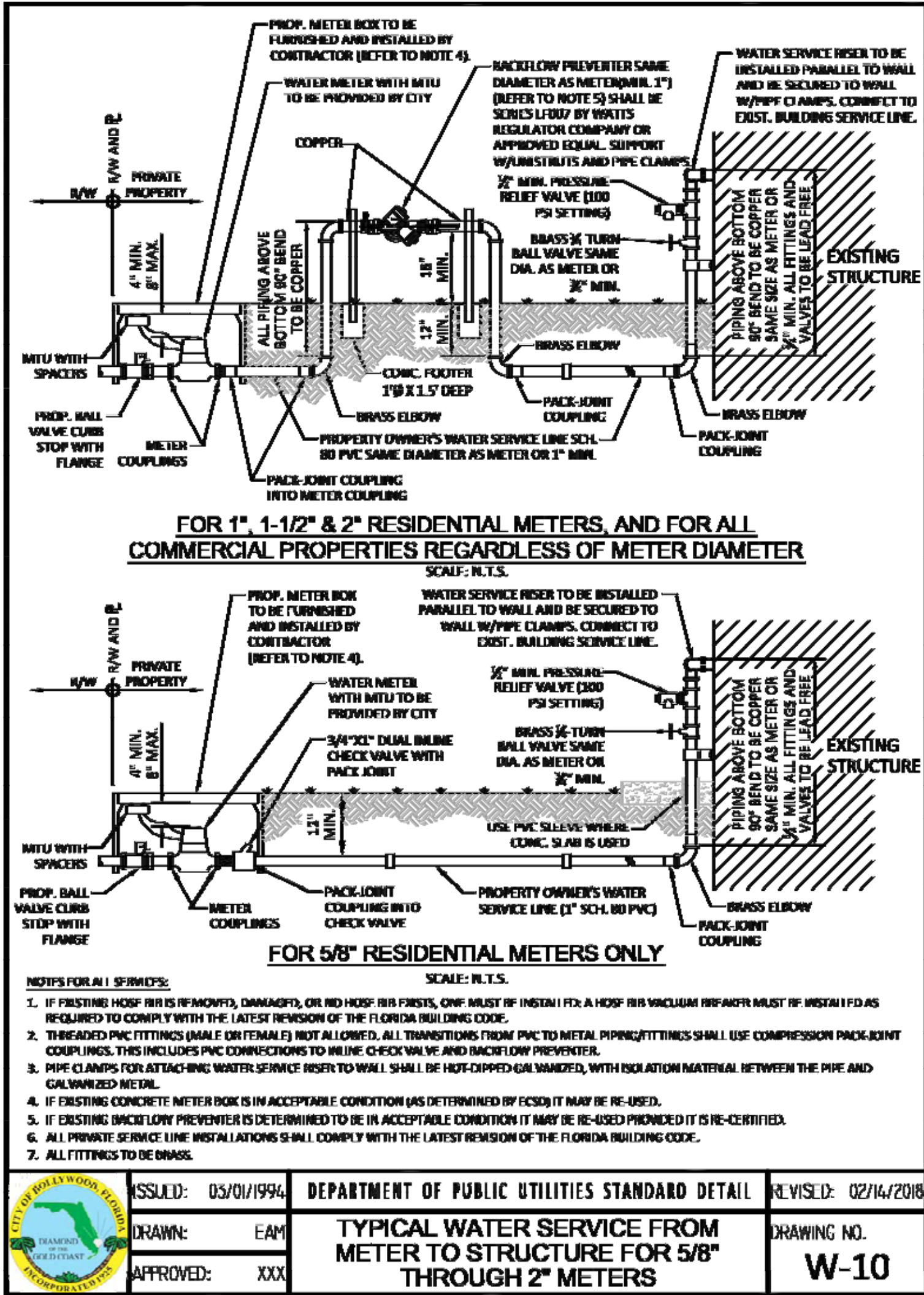
DATE: 11/3/20

SCALE: N.T.S.

SHEET NO.: C6

6 OF 7

PROJECT NO.: 20-70



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WATER & SEWER DETAILS II

SCALE: N.T.S.

REVISIONS	
NO.	DATE

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2323 WASHINGTON STREET
HOLLYWOOD, FL

P.E.#: 76036

DATE: 11/3/20

SCALE: N.T.S.

SHEET NO.: C7
7 OF 7

PROJECT NO.: 20-70



A Civil Engineering Firm
Tel: (786)302-7693 • Email: wilford@zephyrengineeringfl.com

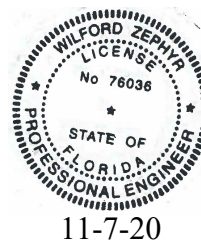
November 6, 2020

Drainage Calculations for **Washington Apartments** **2323 Washington Street** **Hollywood, FL 33020**

PEAK STAGES

STORM EVENT	PRE-DEVELOPMENT	POST-DEVELOPMENT
5 Year - 1 Hour	N/A	4.50' NAVD88
25 YEAR - 3 DAY	10.18' NAVD88	9.82' NAVD88
100 YEAR - 3 DAY	10.52' NAVD88	10.37' NAVD88

Prepared by:



Wilford Zephyr, P.E., LEED AP, CFM

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY WILFORD ZEPHYR ON THE DATE ADJACENT TO THE SEAL.

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Project Name: Washington Apartments
Project Address: 2323 Washington Street
Hollywood, FL 33020
ZE Project #: 2020-70

Date: 11/06/20
Designed by:

Wilford Zephyr, P.E.

Post Development

All Elevations are referenced to NAVD88 vertical datum

Site Data

Project Area:	0.486 AC	
Pavement Area:	0.318 AC	
Building Area:	0.038 AC	
Grass Area (Pervious):	0.13 AC	
Lake Area:	0 AC	
Total Pervious Area:	0.13 AC	26.75%
Total Impervious Area:	0.356 AC	73.25%

Design Parameters

Water Table Elevation:	1.50 ft
Exist. Crown of Road Elev.:	9.40 ft
Average Finished Grades:	8.00 ft
Prop. Finished Floor Elev.:	10.90 ft

C Factor

Pervious:	0.6
Impervious:	0.9

$$\text{C Factor (weighted)} = \frac{0.130 (0.60) + 0.318 (.90)}{0.448} = 0.81$$

Storm Event Information

3 year, 1 hour event:	2.5 inches (for retention/detention)
5 year, 1 hour event:	3.28 inches (for lowest parking lot pavement elevation)
25 year, 24 hour event:	10.50 inches
25 year, 72 hour event:	14.27 inches (Perimeter Control Elevation)
100 year, 24 hour event:	13 inches
100 year, 72 hour event:	17.67 inches (Finished Floor Elevation)

Soil Storage (S) & Curve Number (CN)

All Elevations are referenced to NAVD88

Cumulative Water Storage (CWS)

Design Water Table (WT) = 1.50 ft

Average Finished Grade = 8.00 ft

Average Depth to Water Table (DWT) = 6.50 ft

Cumulative Water Storage (CWS) = 8.18 IN

(from table below)

Cumulative Soil Moisture Storage

Cumulative Soil Moisture Storage

DWT	NAS	DAS
1.0 '	0.69 "	0.45 "
2.0 '	2.50 "	1.88 "
3.0 '	6.60 "	4.95 "
4.0 '	10.90 "	8.18 "

DWT=Depth to Water Table

NAS=Natural Available Storage

DAS=Developed Available Storage

Soil Storage (S in inches)

$S = CWS \times (\text{percentage of total pervious area}) =$

2.19

Curve Number (CN)

$CN = 1000 / (S + 10) =$ 82.05

Water Quality Retention/Detention Calculations

Water Quality Calculations

- A. For a wet detention system, size system for highest of first inch of runoff over the entire site or 2.5" times the % impervious area;
- B. For a dry detention system, size system for 75% of the volume required for a wet detention system
- C. For a retention system, size system for 50% of the volume required for a wet detention system

1 IN Over Entire Site

1 IN X 1 ft / 12 IN X = First 1" of runoff

1" X .486 acres = 0.486 acre-inches (0.041 acre-ft)

2.5 INCHES Times Percent Impervious

Total project area - roof area = 0.486 acres - 0.038 acres = 0.448 acres

0.448 acres - 0.130 acres (pervious area) = 0.318 acres

0.318 acres / 0.448 acres X 100% = 70.98% impervious

2.5" X 0.7098 = 1.775" to be treated

1.775" X 0.486 acres = 0.86 acre-inches (0.072 acre-feet)

0.075 acre-ft of storage required for water quality.

**Water quality storage provided in proposed
exfiltration trench system.**

Runoff (Q) & Runoff Volume (V) Calculations

All Elevations are referenced to NAVD88

$$Q = (P - 0.2S)^2 / (P + 0.8S) \qquad V = Q \times A \text{ (ft/ 12 in)}$$

Q = direct runoff (inches)

P = rainfall (inches)

S = soil storage (inches)

A = site area (acre)

V = Runoff Volume (ac-ft)

Finished Floor Elevation

P_{1 day}= 100 year, 24 hour event: 14 (inches)

P_{3 day}= 100 year, 72 hour event: 19.03 (inches)

S= 2.19 (inches)

A= 0.486 (acre)

Q = 16.63 (inches)

V = 0.67 (ac-ft)

Corresponding Stage = 10.37 ft

Set minimum finished floor elevation at 10.90' NAVD88.

Perimeter Control Elevation

P_{1 day}= 25 year, 24 hour event: 11 (inches)

P_{3 day}= 25 year, 72 hour event: 14.95 (inches)

S= 2.19 (inches) (see "Soil Storage" sheet

A= 0.486 (acre) for calculating "S")

Q = 12.61 (inches)

V = 0.51 (ac-ft)

Corresponding Stage = 9.82 ft

Runoff (Q) & Runoff Volume (V) Calculations

All Elevations are referenced to NAVD88

$$Q = (P - 0.2S)^2 / (P + 0.8S) \quad V = Q \times A \text{ (ft/ 12 in)}$$

Q = direct runoff (inches)

P = rainfall (inches)

S = soil storage (inches)

A = site area (acre)

V = Runoff Volume (ac-ft)

5 Year - 1 Hour Storm Event

$$\begin{aligned} P &= \text{5 year, 1 hour event:} & 3.28 \text{ (inches)} \\ S &= & 2.19 \text{ (inches)} \\ A &= & 0.486 \text{ (acre)} \end{aligned}$$

$$Q = 1.61 \text{ (inches)}$$

$$V = 0.07 \text{ (ac-ft)}$$

Corresponding Stage = 4.50 ft

Set minimum parking lot elevation at 8.50' NAVD88.

Stage Storage

All Elevations are referenced to NAVD88

Total Surface Storage Area = 0.448 AC

(0.130 AC)

(0.318 AC)

(Lin. 8.00'-9.00')

(Lin. from 8.50'-10.90')

Stage	Surface Storage (Landscape)	Surface Storage (Pavement)	Trench Storage	Total
2.00 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
2.50 '	0.000 AC-FT	0.000 AC-FT	0.013 AC-FT	0.01 AC-FT
3.00 '	0.000 AC-FT	0.000 AC-FT	0.026 AC-FT	0.03 AC-FT
3.50 '	0.000 AC-FT	0.000 AC-FT	0.039 AC-FT	0.04 AC-FT
4.00 '	0.000 AC-FT	0.000 AC-FT	0.052 AC-FT	0.05 AC-FT
4.50 '	0.000 AC-FT	0.000 AC-FT	0.065 AC-FT	0.07 AC-FT
5.00 '	0.000 AC-FT	0.000 AC-FT	0.078 AC-FT	0.08 AC-FT
5.50 '	0.000 AC-FT	0.000 AC-FT	0.091 AC-FT	0.09 AC-FT
6.00 '	0.000 AC-FT	0.000 AC-FT	0.104 AC-FT	0.10 AC-FT
6.50 '	0.000 AC-FT	0.000 AC-FT	0.117 AC-FT	0.12 AC-FT
7.00 '	0.000 AC-FT	0.000 AC-FT	0.130 AC-FT	0.13 AC-FT
7.50 '	0.000 AC-FT	0.000 AC-FT	0.130 AC-FT	0.13 AC-FT
8.00 '	0.000 AC-FT	0.000 AC-FT	0.130 AC-FT	0.13 AC-FT
8.50 '	0.033 AC-FT	0.000 AC-FT	0.130 AC-FT	0.16 AC-FT
9.00 '	0.065 AC-FT	0.080 AC-FT	0.130 AC-FT	0.28 AC-FT
9.50 '	0.130 AC-FT	0.159 AC-FT	0.130 AC-FT	0.42 AC-FT
10.00 '	0.195 AC-FT	0.239 AC-FT	0.130 AC-FT	0.56 AC-FT
10.50 '	0.260 AC-FT	0.318 AC-FT	0.130 AC-FT	0.71 AC-FT
11.00 '	0.325 AC-FT	0.414 AC-FT	0.130 AC-FT	0.87 AC-FT

Exfiltration Trench Length Calculation

All elevations are referenced to NAVD88 vertical datum.

Calculating H_2

Design Water Table (WT) = 1.50 ft
 Lowest Catch Basin Elevation = 8.50 ft
 Bottom of Exfiltration Trench = 2.00 ft
 Top of Exfiltration Trench = 7.00 ft
 $EL_{inv.} = N/A$

$H_2 = 6.50$ ft

Calculating Exfiltration Trench Length

$EL_{inv.}$ = invert elevation of lowest weir/bleeder allowing discharge from trench

L_R = length of trench required (ft)

L_P = length of trench provided (ft)

$V_{exft.}$ = volume in exfiltration trench (ac-in)

FS = factor of safety

K = hydraulic conductivity (cfs/ft² - ft head)

H_2 = head on saturated surface (ft)

W = trench width (ft)

D_U = unsaturated trench depth (ft)

D_S = saturated trench depth

$$L_R = \frac{FS(V_{exft.})}{K[H_2W + 2H_2D_U - D_U^2 + 2H_2D_S] + (1.39 \times 10^{-4})(WD_U)}$$

$V_{exft.} = 1.56$ (0.13 ac-ft)

FS = 2

$K = 0.00012$ (assumed value)

$H_2 = 6.5$

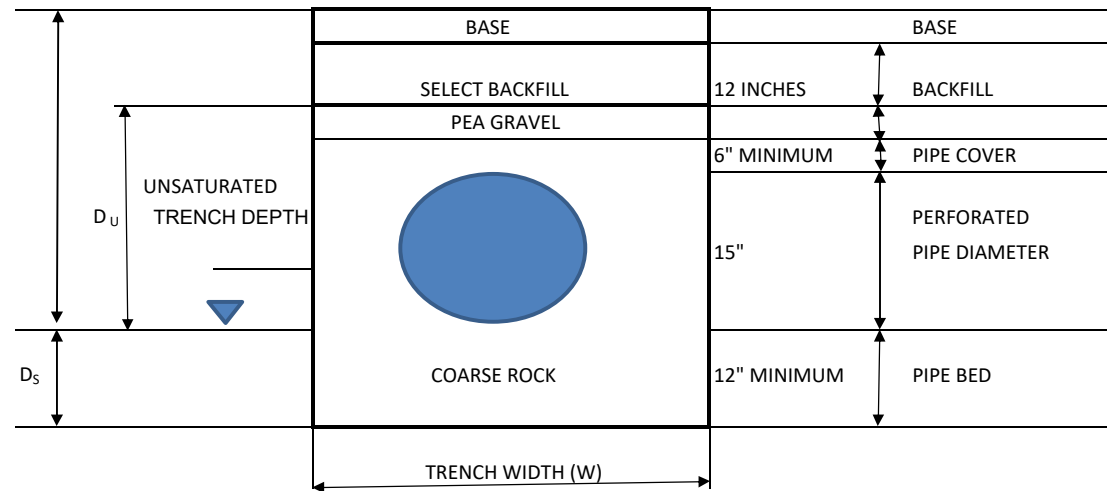
$W = 10$

$D_U = 5$

$D_S = 0$

$L_R = 159.59'$ of exfiltration trench required.

$L_P = 165'$ of exfiltration trench provided.



▲ : WATER TABLE

Project Name: Washington Apartments
Project Address: 2323 Washington Street
Hollywood, FL 33020
ZE Project #: 2020-70

Date: 11/06/20
Designed by:

Wilford Zephyr, P.E.

Pre Development

All Elevations are referenced to NAVD88 vertical datum

Site Data

Project Area:	0.486 AC	
Pavement Area:	0.02 AC	
Building Area:	0.045 AC	
Grass Area (Pervious):	0.421 AC	
Lake Area:	0 AC	
Total Pervious Area:	0.421 AC	86.63%
Total Impervious Area:	0.065 AC	13.37%

Design Parameters

Water Table Elevation:	1.50 ft
Exist. Crown of Road Elev.:	9.40 ft
Average Finished Grades:	8.75 ft
Exist. Finished Floor Elev.:	10.16 ft

C Factor

Pervious:	0.6
Impervious:	0.9

$$\text{C Factor (weighted)} = \frac{0.421 (0.60) + 0.020 (.90)}{0.441} = 0.81$$

Storm Event Information

3 year, 1 hour event:	2.5 inches (for retention/detention)
5 year, 1 hour event:	3.28 inches (for lowest parking lot pavement elevation)
25 year, 24 hour event:	10.50 inches
25 year, 72 hour event:	14.27 inches (Perimeter Control Elevation)
100 year, 24 hour event:	13 inches
100 year, 72 hour event:	17.67 inches (Finished Floor Elevation)

Soil Storage (S) & Curve Number (CN)

All Elevations are referenced to NAVD88

Cumulative Water Storage (CWS)

Design Water Table (WT) = 1.50 ft

Average Finished Grade = 8.00 ft

Average Depth to Water Table (DWT) = 6.50 ft

Cumulative Water Storage (CWS) = 8.18 IN

(from table below)

Cumulative Soil Moisture Storage

Cumulative Soil Moisture Storage

DWT	NAS	DAS
1.0 '	0.69 "	0.45 "
2.0 '	2.50 "	1.88 "
3.0 '	6.60 "	4.95 "
4.0 '	10.90 "	8.18 "

DWT=Depth to Water Table

NAS=Natural Available Storage

DAS=Developed Available Storage

Soil Storage (S in inches)

$S = CWS \times (\text{percentage of total pervious area}) =$

7.09

Curve Number (CN)

$CN = 1000 / (S + 10) =$ 58.53

Runoff (Q) & Runoff Volume (V) Calculations

All Elevations are referenced to NAVD88

$$Q = (P - 0.2S)^2 / (P + 0.8S) \qquad V = Q \times A \text{ (ft/ 12 in)}$$

Q = direct runoff (inches)

P = rainfall (inches)

S = soil storage (inches)

A = site area (acre)

V = Runoff Volume (ac-ft)

Finished Floor Elevation

P_{1 day}= 100 year, 24 hour event: 14 (inches)

P_{3 day}= 100 year, 72 hour event: 19.03 (inches)

S= 7.09 (inches)

A= 0.486 (acre)

Q = 12.56 (inches)

V = 0.51 (ac-ft)

Corresponding Stage = 10.52 ft

Set minimum finished floor elevation at 10.90' NAVD88.

Perimeter Control Elevation

P_{1 day}= 25 year, 24 hour event: 11 (inches)

P_{3 day}= 25 year, 72 hour event: 14.95 (inches)

S= 7.09 (inches) (see "Soil Storage" sheet

A= 0.486 (acre) for calculating "S")

Q = 8.88 (inches)

V = 0.36 (ac-ft)

Corresponding Stage = 10.18 ft

Stage Storage

All Elevations are referenced to NAVD88

Total Surface Storage Area = 0.441 AC

(0.421 AC)

(0.02 AC)

(Lin. 8.75'-10.00')

(Lin. from 8.75'-10.50')

Stage	Surface Storage (Landscape)	Surface Storage (Pavement)	Trench Storage	Total
2.00 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
2.50 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
3.00 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
3.50 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
4.00 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
4.50 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
5.00 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
5.50 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
6.00 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
6.50 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
7.00 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
7.50 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
8.00 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
8.50 '	0.000 AC-FT	0.000 AC-FT	0.000 AC-FT	0.00 AC-FT
9.00 '	0.053 AC-FT	0.003 AC-FT	0.000 AC-FT	0.06 AC-FT
9.50 '	0.158 AC-FT	0.008 AC-FT	0.000 AC-FT	0.17 AC-FT
10.00 '	0.263 AC-FT	0.013 AC-FT	0.000 AC-FT	0.28 AC-FT
10.50 '	0.474 AC-FT	0.023 AC-FT	0.000 AC-FT	0.50 AC-FT
11.00 '	0.684 AC-FT	0.033 AC-FT	0.000 AC-FT	0.72 AC-FT



A Civil Engineering Firm
Tel: (786)302-7693 • Email: wilford@zephyrengineeringfl.com

November 6, 2020

FIRE FLOW CALCULATIONS

Washington Apartments

2323 Washington Street
Hollywood, FL 33020

These calculations are for a four-story building, with a total area of 37,041 SF.

Fire Flow Area = 37,041 SF

Per NFPA 18.4, Fire Flow Requirements, the required fire flow for Type II (222) construction for the above-referenced fire flow area is 2,000 GPM.

Per NFPA 18.4.5.3.2, a reduction in required fire flow of 75% shall be permitted when the building is protected throughout by an approved automatic sprinkler system. The resulting fire flow may not be less than 1000 gpm.

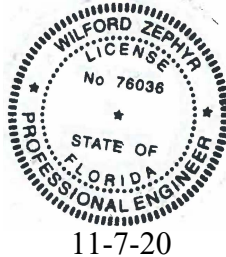
$(2,000 \text{ GPM}) \times 0.75 = 1,500 \text{ GPM}$ (fire flow credit for automatic sprinkler system)

$(2,000 \text{ GPM}) - (1,500 \text{ GPM}) = 500 \text{ GPM}$

Per NFPA 18.4.5.3.2, The resulting fire flow may not be less than 1,000 GPM

Therefore, fire flow required=1,000 GPM

Prepared by:



Wilford Zephyr, P.E., LEED AP, CFM

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Supply the necessary equipment and labor to transplant all trees and palms per plans and specifications to the designated on site areas to be determined by Project Manager (PM) and/or Landscape Architect (LA).

Extreme care should be exercised so as not to damage the root system.

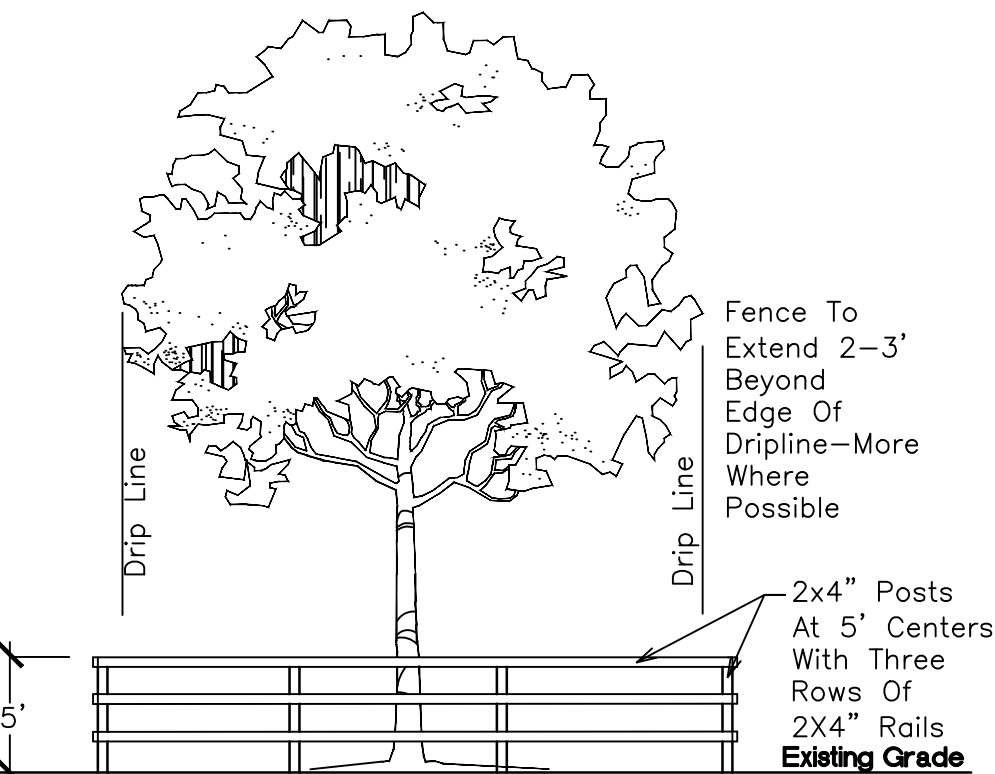
Water trees before the root pruning process. Root prune all canopy trees to 90 to 95% of the root system approximately 18" to 2' deep. This is to be done by hand with very sharp hand tools or a root pruning saw, depending on subsoil conditions. Trees are to be root pruned approximately 18" to 2' deep. The root pruning process is to be done 18" to 2' from the top of the root ball. Back fill with existing soil and peat moss. Water in thoroughly and treat with mycorrhizae and a low nitrogen fertilizer and brace using 5 layers of burlap minimum. No nail holes will be permitted directly into the tree bark. See bracing detail on the landscape plans. Fertilize and water and clean the surrounding areas daily. Check the irrigation system for leaks and replace if needed. The existing root system shall be kept in good daily working condition throughout the tree transplanting scope of work.

Holes created from the existing tree removals shall be filled in with a 50/50 topsoil / sand mixture and sod added to match existing sod. All surrounding damaged plant material shall be trimmed to remove all broken branches and disposed of daily off site and in a lawful manner.

DPEP personnel shall remove all staking of trees twelve (12) months after final date of transplanting completion.

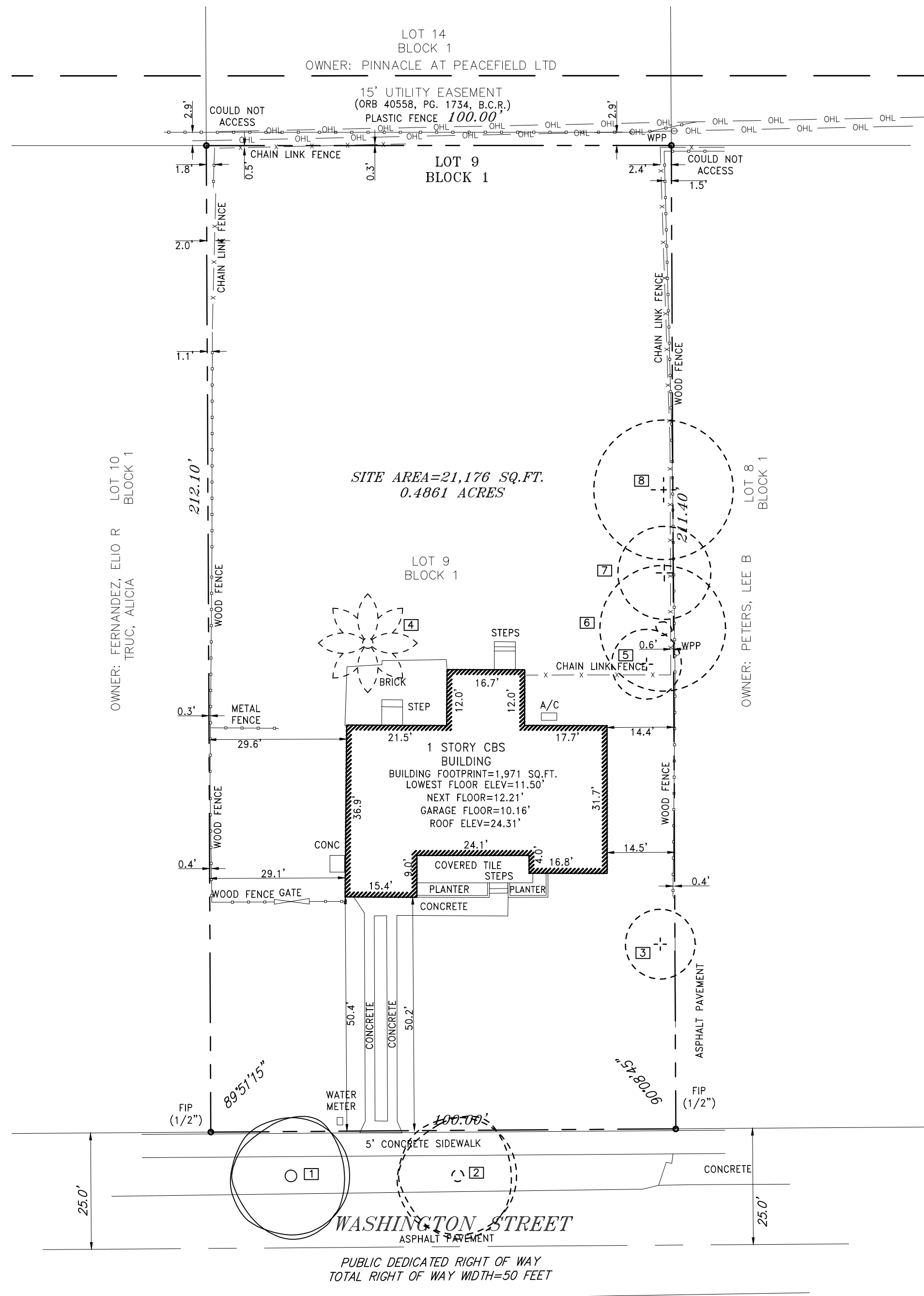
The contractor is responsible for locating all underground utilities 48 hours prior to the landscape contractor's work start date, and to schedule a review meeting to discuss the utility locations. Call Sunshine State One Call at 1-800-432-4770.

EXISTING TREE LIST								
	Scientific name	Common name	DBH (In Inches)	H/Ct	Canopy	Condition	TPZ	Recommendation
1	Quercus virginiana	Live oak	20	30'	40'	Good-Fair	15'	To Remain
2	Quercus virginiana	Live oak	25	30'	40'	Good-Fair		To Be Removed
3	Cupaniopsis anacardiopsis	Carrotwood	5	18'	15'	Poor		To Be Removed
4	Roystonea regia	Royal Palm	12	15'	25'	Good	12'	To Be Relocated
5	Delonix regia	Royal Poinciana	8	30'	20'	Very Poor		To Be Removed
6	Ficus aurea	Strangler Fig	36	30'	30'	Very Poor		To Be Removed
7	Delonix regia	Royal Poinciana	8	30'	20'	Very Poor		To Be Removed
8	Delonix regia	Royal Poinciana	22	50'	40'	Very Poor		To Be Removed



Contractor Shall Take Extra Care During Earthwork And Utility Operations To Protect All Existing Trees And Shall Be Responsible To Replace Any Damaged Trees During Construction.

NTS



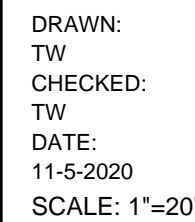
TRIMMING: Selectively trim the canopy removing dead limbs, cross branching over crowned areas, lower undesirable limbs and open up any unusually thick canopies. Tree crew must have at least one ISA Certified Arborist at the job site present at all times and supervising all non-certified tree trimmers. All trimming as per ISA and National Arborist Association ANSI-A300 pruning standards.

The water ring shall be hand watered and completely filled 4 times per week for 6 weeks depending on the ground percolation and rainfall. After six weeks, water ring can be filled 2 times per week for the remaining length of the construction project.

The contractor is responsible for locating all underground utilities prior to the landscape contractor's work start date. Call Sunshine State One Call at 1-800-432-4770.

REVISIONS

Tree Survey
ington Ap
23 Washington S
Hollywood, Florida 3300



GENERAL PLANTING REQUIREMENTS

The plan takes precedence over the plant list.

2 Full business days before digging, call toll free 1-800-432-4770 Sunshine State One Call of Florida, Inc. Notification Center. For City of Fort Lauderdale Utilities call 1-954-828-8000. Contractors are responsible for coordinating with the owners and appropriate public agencies to assist in locating and verifying all underground utilities prior to excavation. All existing utilities shown on the plans are to be considered approximate and should be verified by the contractor prior to the start of work operations..

General site and berm grading to +/- 1 inch (1") shall be provided by the general contractor. All finished site grading and final decorative berm shaping shall be provided by the landscape contractor.

All sizes shown for plant material on the plans are to be considered Minimum. All plant material must meet or exceed these minimum requirements for both height and spread. Any other requirements for specific shape or effect as noted on the plan(s) will also be required for final acceptance.

All plant material furnished by the landscape contractor shall be Florida #1 or better as established by Grades and Standards for Florida Nursery Trees and Plants.

All trees designated as single trunk shall have a single, relatively straight, dominant leader, proper structural branching and even branch distribution. Trees with bark inclusion, tipped branches, and co-dominant trunks will not be accepted. Trees with girdling, circling and/or plunging roots will be rejected.

All planting beds shall be free of all rocks 1/2" or larger, sticks, and objectionable material including weeds, weed seeds. All limerock shall be removed/cleaned down to the native soils. Planting soil 50/50 sand/topsoil mix shall be delivered to the site in a clean loose and friable condition and is required around the root ball of all trees and palms, the top 6" of all shrubs and ground cover beds. This soil can be tilled into the existing soil after the existing soil has been cleaned of all rocks, limestone and sticks. Recycled compost is encouraged as a soil amendment alternative. Sod 1.5-2" topsoil comes furnished.

All burlap, string, cords, wire baskets, plastic or metal containers shall be removed from the rootballs before planting. Remove all bamboo and metal nursery stakes. Remove all tagging tape.

All trees/palms shall be planted so the top of the root ball, root flare is slightly above final grade. Shrub material shall be planted such that the top of the plant ball is flush with the surrounding grade. It is the sole responsibility of the landscape contractor to insure that all new plantings receive adequate water during the installation and during all plant warranty periods. Deep watering of all new trees and palms and any supplemental watering that may be required to augment natural rainfall and site irrigation is mandatory to insure proper plant development and shall be provided as a part of this contract.

All trees/palms shall be staked using biodegradable material. No wire, black strapping, or other synthetic material shall be used. Nailing into trees and palms for any reason is prohibited and the material will be rejected. Please refer to the planting details

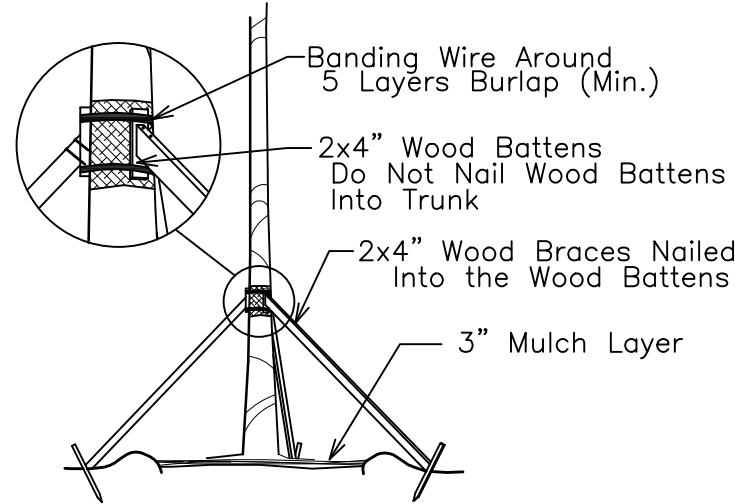
All landscape areas shall be irrigated by a fully automatic sprinkler system with a minimum 100% coverage with all heads adjusted to 50% overlap. Each system shall be installed with an operational rain sensor and rust inhibitor.

No fertilizers are required.

All landscape areas shall be covered with Pine Straw, Pine Bark, Eucalyptus or sterilized seed free Melaleuca mulch to a minimum depth of two inches (2") of cover when settled. Spread mulch to 1" thickness 3" away from the trunks/stems of all plant material. All trees in sodded areas shall have a clean cut 4" diameter mulch ring. The 5-6" height water ring shall be made from mulch, not soil. Certain areas may receive a thicker mulch cover where noted on plans. Cypress, red, gold and green mulch is prohibited.

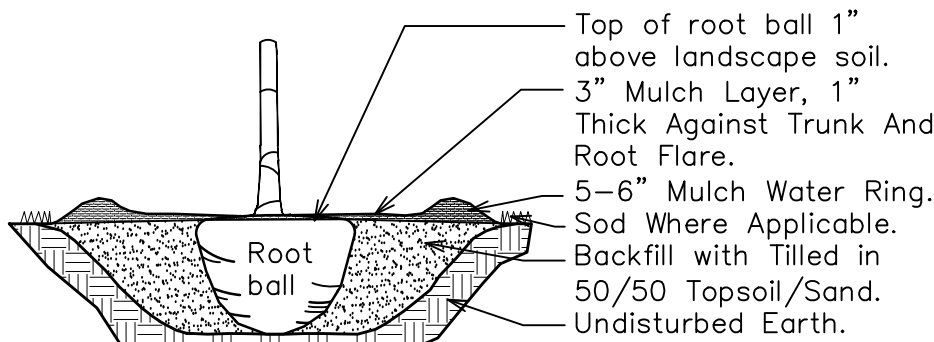
Please refer to the planting details for a graphic representation of the above notes.

All plant material as included herein shall be warranted by the landscape contractor for a minimum period as follows: All trees and palms for 12 months, all shrubs, vines, groundcovers and miscellaneous planting materials for 90 days after final acceptance by the owner or owner's representative.



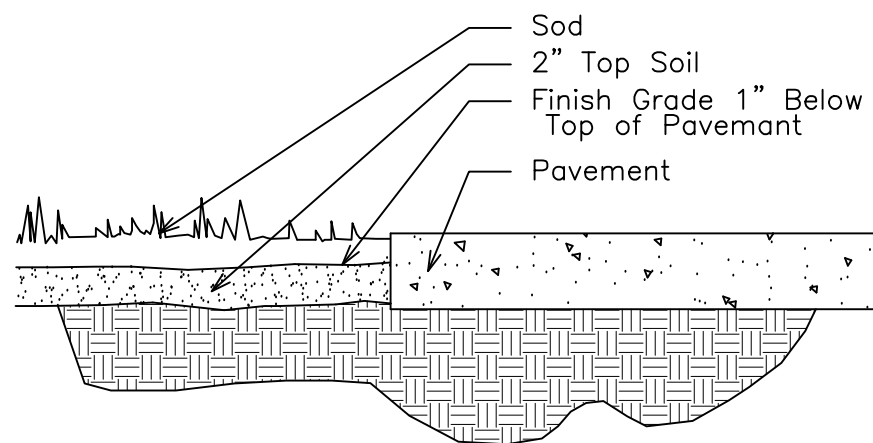
TREE/PALM BRACING DETAIL

NTS



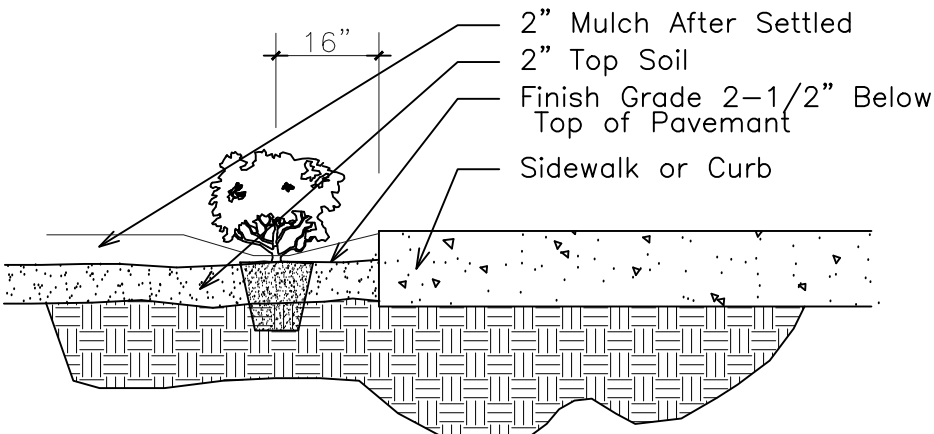
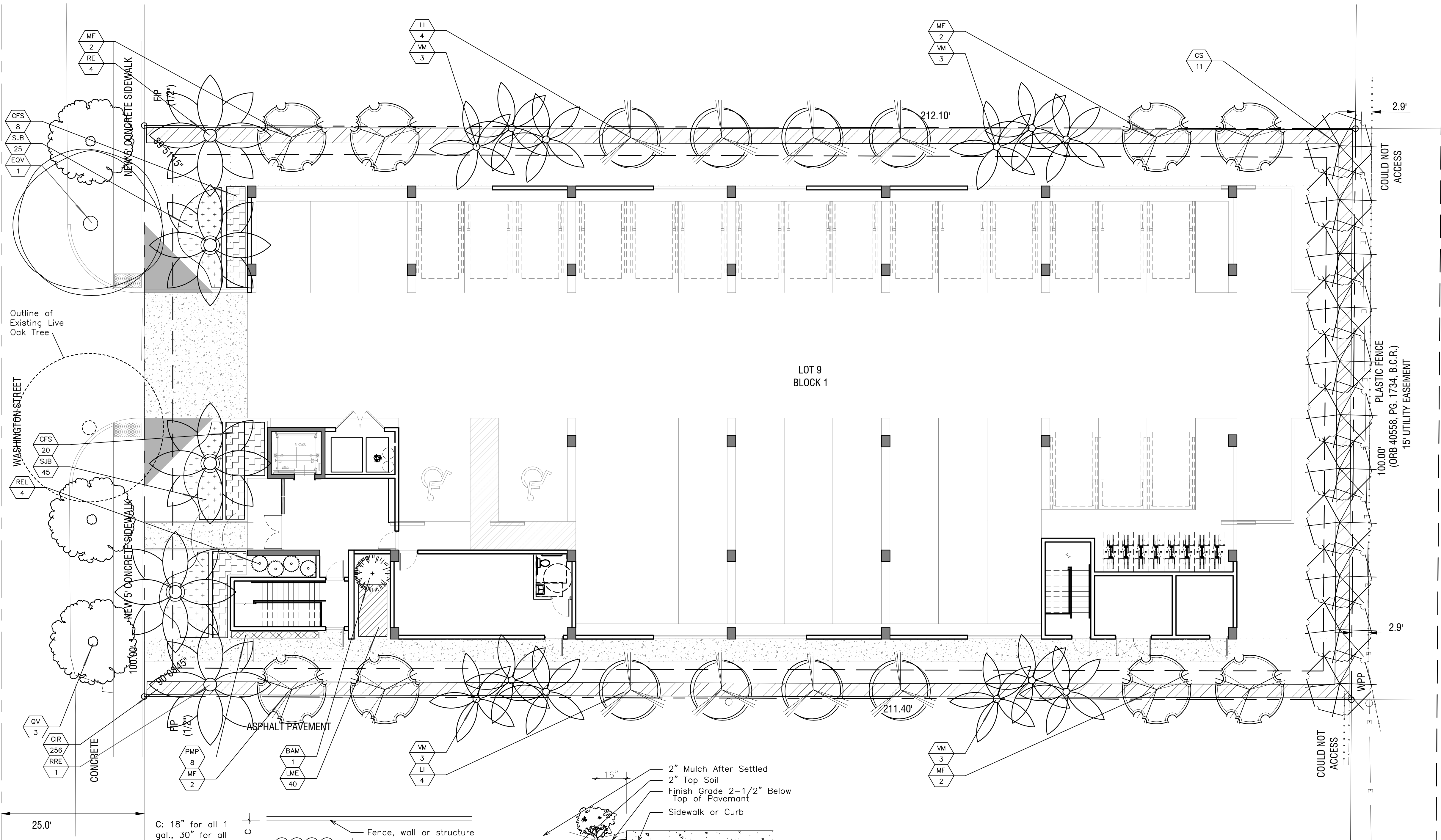
TREE/PALM PLANTING DETAIL

NTS



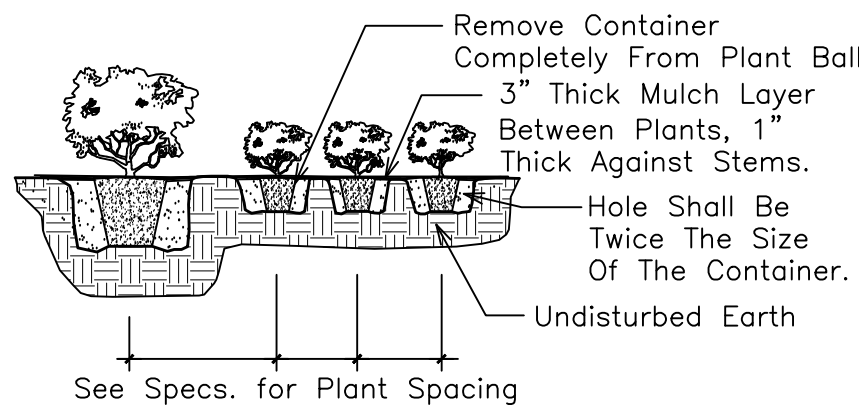
SOD INSTALLATION DETAIL

NTS



SHRUB INSTALLATION DETAIL

NTS



SHRUB PLANTING DETAIL

NTS

CITY OF HOLLYWOOD
SITE PLAN INFORMATION

Property Use: Dixie Highway Med Density				
Property Zoning: DH-2				
Gross Site Area:	21,176.0 Sq. Feet	=	0.49	Acres
Building Area:	13,495.0 Sq. Feet	=	63.73%	
Uncovered Parking:	680.0 Sq. Feet	=	3.12%	
Driveway/Walks:	1,261.0 Sq. Feet	=	5.95%	
Total Impervious Areas:	15,416.0 Sq. Feet	=	72.80%	
Landscape Area:	5,760.0 Sq. Feet	=	27.20%	
Total Pervious Areas:	5,760.0 Sq. Feet			

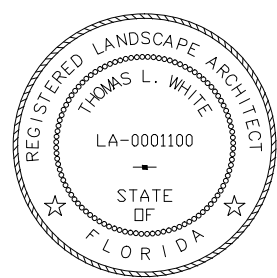
PLANT LIST

Code	Drought	QTY.	Botanical Name / Common Name	Specifications
EXISTING & RELOCATED TREES/PALMS				
EQV	(N)	V	1	Quercus virginiana / Live Oak (Street Tree)
RRE	(N)	V	1	Roystonea regia / Florida Royal Palm
PROPOSED TREES/PALMS				
CS	(N)	V	11	Cordia sebestena / Orange Geiger (Perimeter Trees)
LI	(N)	V	8	Lagerstroemia indica / Crape Myrtle
MF	(N)	V	8	Quercus virginiana / Live Oak (Street Trees)
QV	(N)	V	3	Quercus virginiana / Live Oak (Street Tree)
RE	(N)	V	4	Roystonea regia / Florida Royal Palm
VM		V	12	Veitchia montgomeryana / Montgomery Palm
			40	Total Site Trees/Palms (VM Counted 3:1)
			36	Native Trees
			90%	Native Trees
ACCENTS / SHRUBS / GROUND COVERS				
BAM		V	1	Bambusa ventricosa / Buddha's Belly Bamboo
CFS	(N)	V	28	Clusia flava / Small Leaf Clusia
CIR	(N)	V	256	Chrysobalanus icaco 'Red Tip' / Cocoplum
LME		V	40	Liriope muscari 'eg' / Liriope Evergreen Giant
PMP		V	8	Podocarpus macrophyllus / Podocarpus
REL		V	4	Rhapis excelsa / Lady Palm
SJB	(N)	V	70	Stachytarpheta jamaicensis / Native Blue Porterweed
			407	Total Shrubs
			354	Native Shrubs
			87%	Native Shrubs
SOD				
Sod		M	By GC S.F. Stenotaphrum secundatum / St. Augustine 'Palmetto'	Solid application - no gaps between seams

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REVISIONS

Landscape Permit Plan
Washington Apartments
2323 Washington Street
Hollywood, Florida 33020



DRAWN:
TW
CHECKED:
TW
DATE:
11-5-2020
SCALE: 1"=10'

Sheet No.

L-2

Sheet 2 Of 3