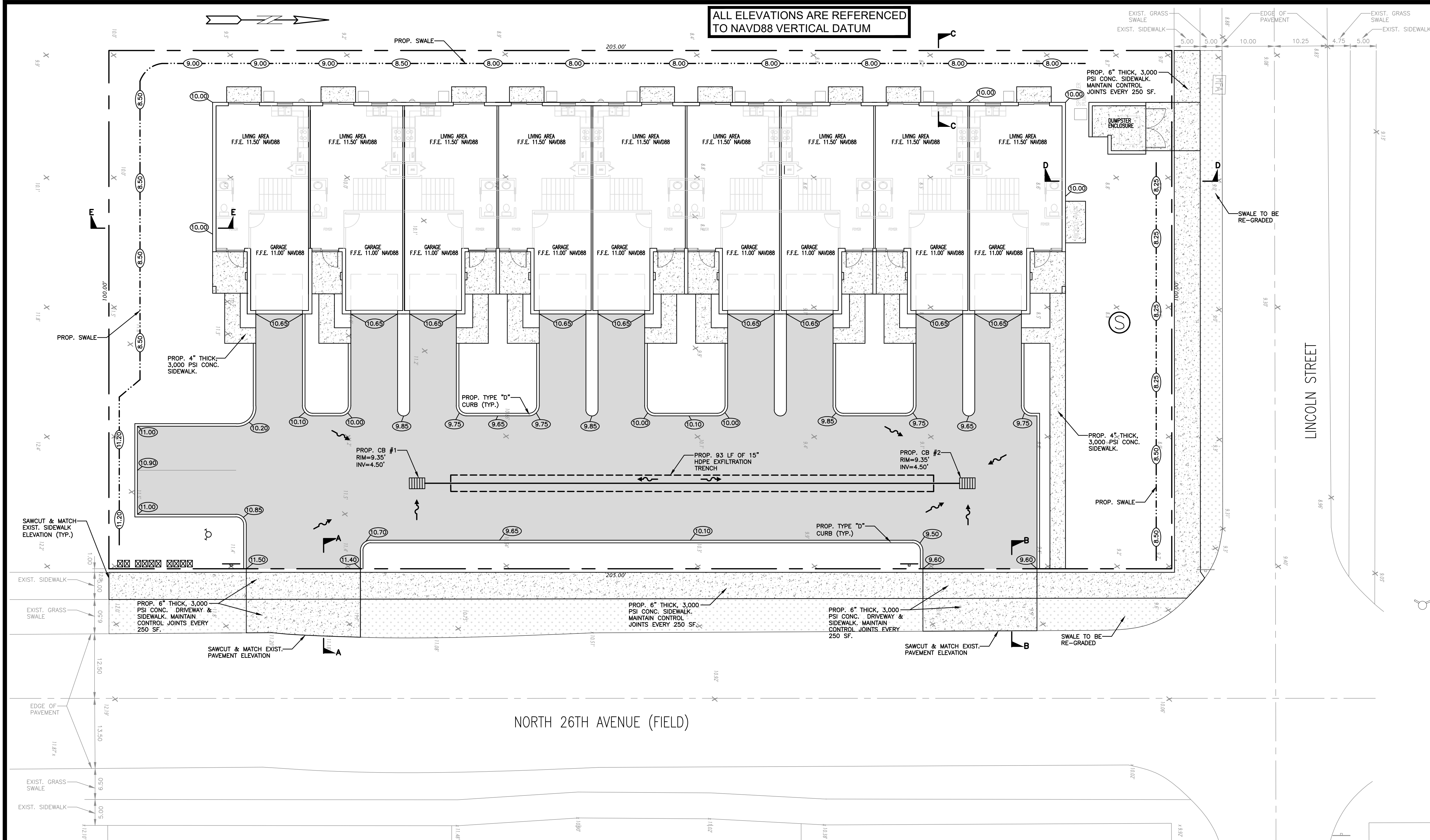


ALL ELEVATIONS ARE REFERENCED
TO NAVD88 VERTICAL DATUM



NOTES:

- 1) 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.
- 2) PRIOR TO CONSTRUCTION, CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL EXISTING ELEVATIONS.
- 3) 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.
- 4) 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.
- 5) ALL ROOF DRAINS MUST BE CONNECTED TO THE ONSITE DRAINAGE SYSTEM.
- 6) CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR SITE PLAN LAYOUT AND DIMENSIONS.
- 7) 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.

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



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

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

PAVING, GRADING & DRAINAGE PLAN

SCALE: 1"=10'

REVISIONS

NO.	DATE	DESCRIPTION

ZEPHYR ENGINEERING

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

ZE

9 UNIT TOWNHOMES
720 N 26th AVE
HOLLYWOOD, FL

P.E.#:76036

DATE: 12/21/23

SCALE: 1"=10'

SHEET NO.:

C2

2 OF 11

PROJECT NO.: 23-56

THE LOCATION OF EXISTING UTILITIES AND TOPOGRAPHY HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTING LOCATION OF ALL EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION.

PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO NOTIFY THE FOLLOWING COMPANIES & AGENCIES AND ANY OTHERS SERVING THE AREA:

FLORIDA POWER & LIGHT CO., CONSTRUCTION
BELLSOUTH
COMCAST
TECO
LOCAL CITY / COUNTY ENGINEERING & UTILITY DEPARTMENTS
FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), AS APPLICABLE
UNDERGROUND UTILITIES NOTIFICATION CENTER OF FLORIDA
(S.U.N.S.H.I.N.E.)

PAVING, GRADING & DRAINAGE NOTES:

1. ALL UNSUITABLE MATERIALS, SUCH AS MUCK, HARDPAN, ORGANIC MATERIAL & OTHER DELTERIOUS MATERIAL AS CLASSIFIED BY ASHTO M-145, FOUND WITHIN THE ROAD & GRADE LOT AREAS SHALL BE REMOVED DOWN TO ROCK OR SUITABLE MATERIAL, & REPLACED W/ THE SPECIFIED FILL MATERIAL IN MAXIMUM 12" LIFTS COMPACTED TO NOT LESS THAN 100% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE IN ACCORDANCE W/ ASHTO T-99. THICKNESS OF LAYERS MAY BE INCREASED TO PROVIDE THE EQUIPMENT & METHODS USED ARE PROVEN BY FIELD DENSITY TESTING TO BE CAPABLE OF COMPACTING THICK LAYERS TO SPECIFIED DENSITIES.

2. ALL AREAS SHALL BE COMPLETE & GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE THE THOROUGH REMOVAL & DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GAS WEEDS, RUBBISH & ALL OTHER OBSTRUCTION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXIST. GROUND TO A DEPTH OF 12". ITEMS DESIGNATED TO REMAIN OR TO BE RELOCATED OR ADJUSTED SHALL BE SO DESIGNATED ON THE DWGS.

3. ALL MATERIALS SHALL BE CLASSIFIED AS A-1, A-3 OR A-2.4 IN ACCORDANCE W/ ASHTO M-145 & SHALL BE FREE FROM VEGETATION & ORGANIC MATERIAL. NOT MORE THAN 12% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFICATE MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION OF THE PROJECT. TEST RESULTS MAY NOT INCLUDE BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE & LIME ROCK, UTILITIES, EXCAVATION, ASPHALT GRADATION REPORTS, CONC. CYLINDERS, ETC...

5. ALL INLETS & PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS & PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE TEMPORARY PLUG TO BE CLEAN OF DEBRIS PRIOR TO FINAL ACCEPTANCE.

6. WHERE NEW ASPHALT MEETS OR ABUTS EXIST. ASPHALT, THE EXIST. ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL ALSO BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE.

7. ALL PROPOSED GRADES (ELEVATIONS) REFER TO ASPHALT GRADES UNLESS INDICATED OTHERWISE.

8. SITE GRADING SHALL BE W/IN 0.1' OF THE REQUIRED ELEVATION & ALL AREAS SHALL BE GRADED TO DRAIN.

9. ALL SUBGRADE SHALL HAVE AN LBR OF 40 UNLESS OTHERWISE NOTED & SHALL BE COMPACTED TO 98% MAXIMUM DRY DENSITY PER ASHTO T-99.

10. ALL LIMEROCK SHALL BE COMPACTED TO 98% PER ASHTO T-180 & HAVE NOT LESS THAN 60% OF CARBONATES OF CALCIUM & MAGNESIUM UNLESS OTHERWISE DESIGNATED. ALL LIMEROCK SHALL BE PRIMED.

11. CONCRETE & ASPHALT THICKNESS SHALL BE OF TYPE DESIGNATED ON DWGS. (SEE SECTION 2)

12. PLASTIC FILL FABRIC SHALL BE MIRAFI, TYPAR OR EQUAL CONFORMING TO SECTION 905 OF FDOT STANDARD SPECIFICATIONS.

13. CONC. SIDEWALKS SHALL BE 4" THICK ON COMPACTED SUBGRADE W/ 1/2" EXPANSION JOINTS PLACED AT A MAXIMUM OF 75'. CRACK CONTROL JOINTS SHALL BE 5' ON CENTER. THE BACK OF SIDEWALK ELEVATION SHALL EQUAL THE CROWN OF ROADWAY, UNLESS SPECIFIED OTHERWISE BY LOCAL ORDINANCES OR INDICATED ON DWGS. ALL CONC. SIDEWALKS THAT CROSS DRIVEWAYS SHALL BE 6" THICK.

14. PIPE SPECIFICATIONS : THE MATERIAL TYPE IS SHOWN ON THE DRAWINGS BY ONE OF THE FOLLOWING DESIGNATIONS -

RCP = REINFORCED CONC. PIPE, ASHTO DESIGNATION C-76, TABLE III
CMF = CORRUGATED METAL (ALUM.), T.M. DESIGNATION M-196
CMP (SMOOTH LINED) CORRUGATED METAL (ALUM.), PIPE, ASHTO DESIGNATION M-196
SCP = SLOTTED CONC. PIPE, FDOT SECTIONS 941 & 942
PVC = POLYVINYLCHLORIDE PIPE
PCMP = PERFORATED CONC. PIPE, FDOT SECTION 945
DIP = DUCTILE IRON PIPE
HDPE = HIGH DENSITY POLYETHYLENE PIPE.

5. ASPHALT -

BITUMINOUS MATERIAL SHALL BE ASPHALT CEMENT, VISCOSITY GRADE AC-20, CONFORMING TO THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS, 1986 EDITION, SECTION 916-1.

PRIME COAT SHALL BE CUT BACK ASPHALT, GRADE RC-70 OR RC-250 CONFORMING TO THE REQUIREMENTS SPECIFIED IN ASHTO DESIGNATION M-81-75 (1982). RATE - 0.10 GALLONS/ SQ. YD. BACK COAT SHALL BE EMULSIFIED ASPHALT, GRADE RS-2 CONFORMING TO THE REQUIREMENTS SPECIFIED IN ASHTO DESIGNATION M-140-82. RATE - 0.02 TO 0.08 GALS./S.Y.

PAVEMENT MARKING & SIGNING STANDARD NOTES :

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 6' 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 PAVEMENT MARKINGS AND SIGNAGE IN THE ROAD RIGHT-OF-WAY SHALL BE THERMOPLASTIC & SHALL CONFORM TO MUTCD AND PBC TYPICAL T-P-06-001.

FOR PERFORATED PIPE, JOINTS ARE TO BE BANDED, BUT NOT GASKETED

FIN. GRADE

COMPACTED LIMEROCK BASE

PERFORATED HDPE

BALLAST ROCK

FDOT STD. NON-WOVEN CONT. FILAMENT POLYESTER FILTER FABRIC

SELECT FILL

5'-0"

NO DRAINFIELD ROCK IN THIS AREA

NO SLOTS OR PERFORATION ON THIS LENGTH OF PIPE

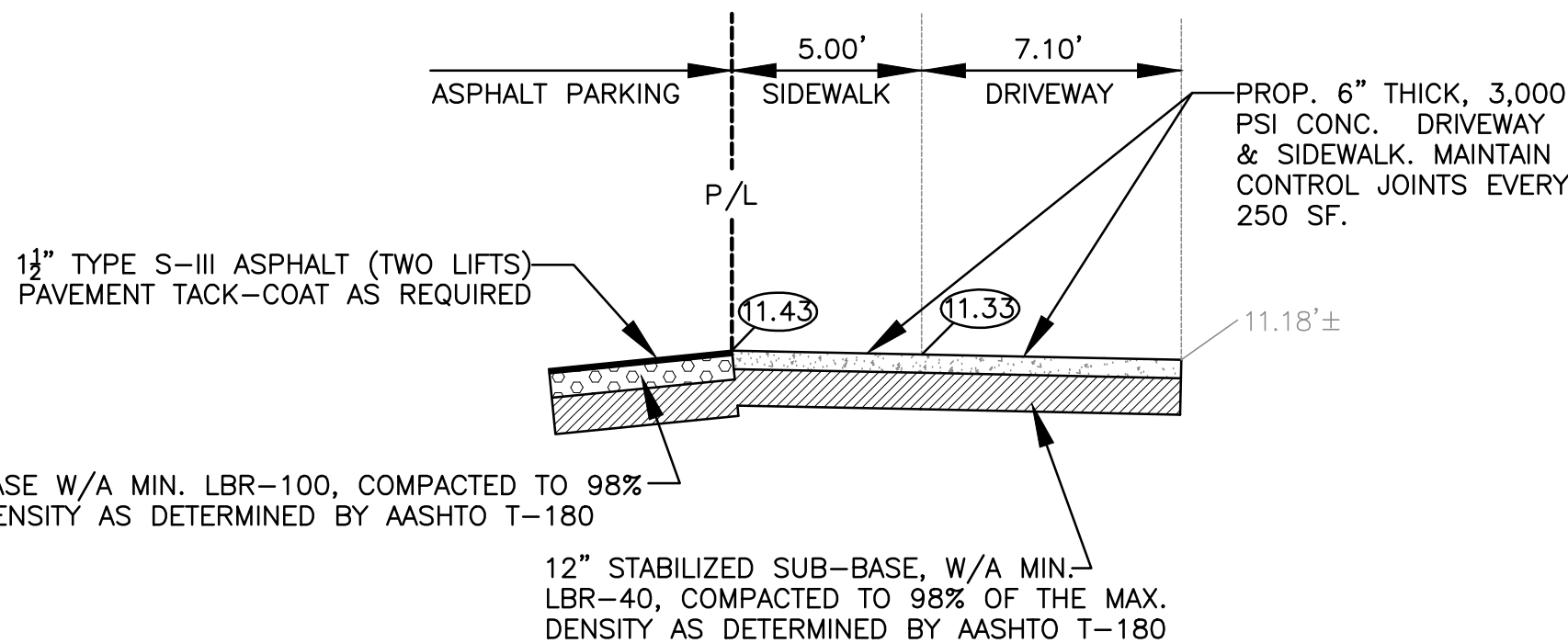
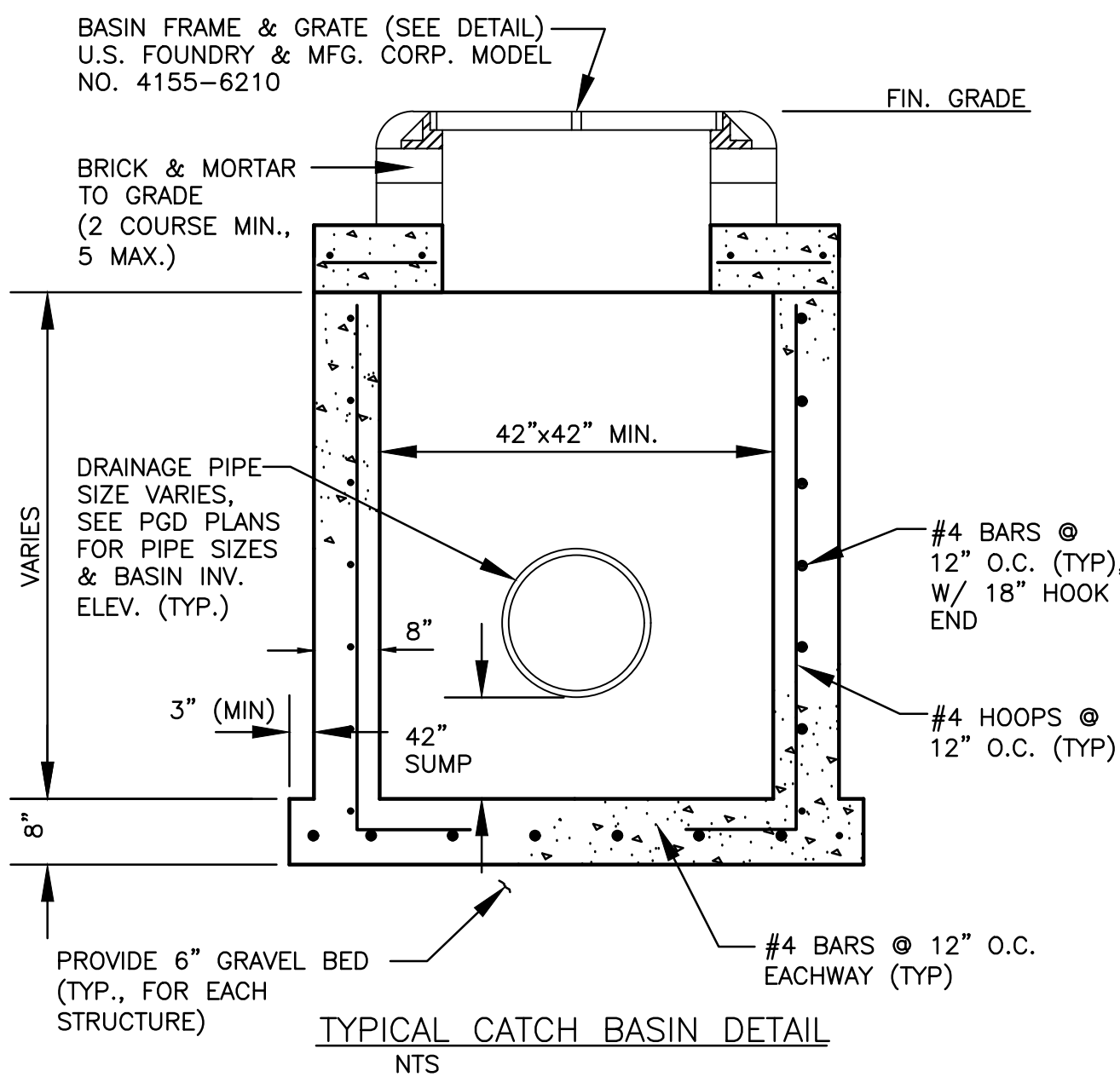
POLLUTION BAFFLE

18" MIN.

24" MIN.

NOTE: PROVIDE MINIMUM 18-INCHES FROM PIPE INVERT TO BOTTOM OF BAFFLE. PROVIDE MINIMUM 24-INCHES FROM BOTTOM OF BAFFLE TO BOTTOM OF CATCH BASIN

EXFILTRATION TRENCH DETAIL
N.T.S.



GENERAL NOTES :

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 SIDE (TYP.).
3. WELD, OR 2 1/2" S.S. THRU BOLTS
4. GRATING SHALL BE OFFSET IF STRUCTURE IS USED AS OVERFLOW.

BAFFLE DETAIL

Labels for Baffle Detail:

- WALL OF DRAINAGE STRUCTURE (TYP.)
- SOLID PLATE WELDED TO TOP OF BAFFLE
- WATERTIGHT NEOPRENE GASKET (ECH. BRACKET) & AROUND BAFFLE
- 2" MOUNTING BRACKET (4 REQ'D. PER BAFFLE)
- SEE GENERAL NOTE #1
- SEE NOTE #2

BRACKET DETAIL

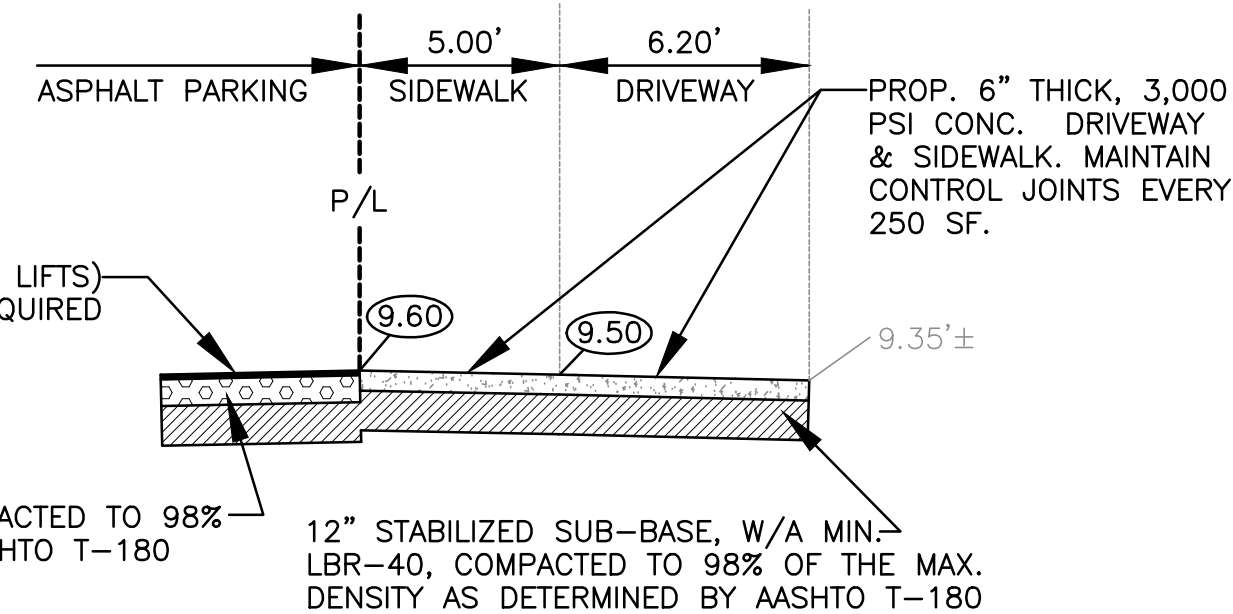
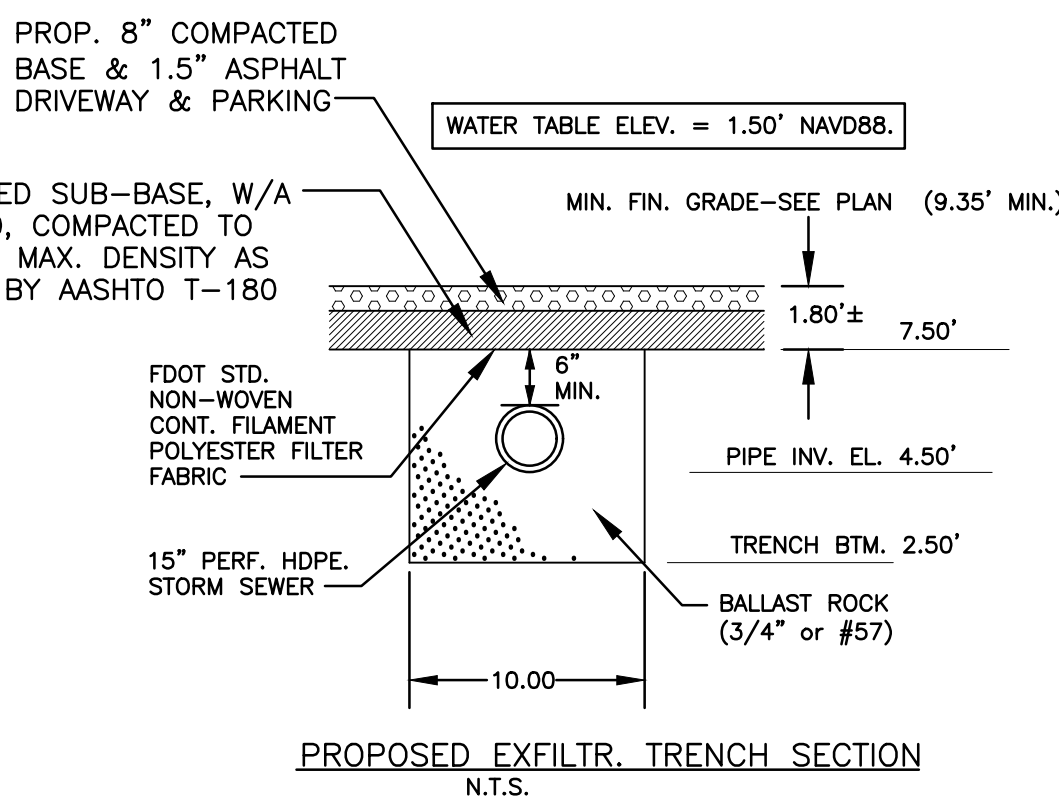
Labels for Bracket Detail:

- P.R. BAFFLE
- SEE NOTE #3

POLLUTION RETARDANT BAFFLE DETAIL

Additional dimensions shown in the bottom right corner:

- 1/1"
- 7/8" R.



PROPOSED 9 UNIT TOWNHOMES
F.F.E. 11.50' NAVD83

10.70'±

6.00

14.00


SWALE

P/L

10.00

PROPOSED

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

[illegible]

9 UNIT TOWNHOMES
720 N 26th AVE
HOLLYWOOD, FL

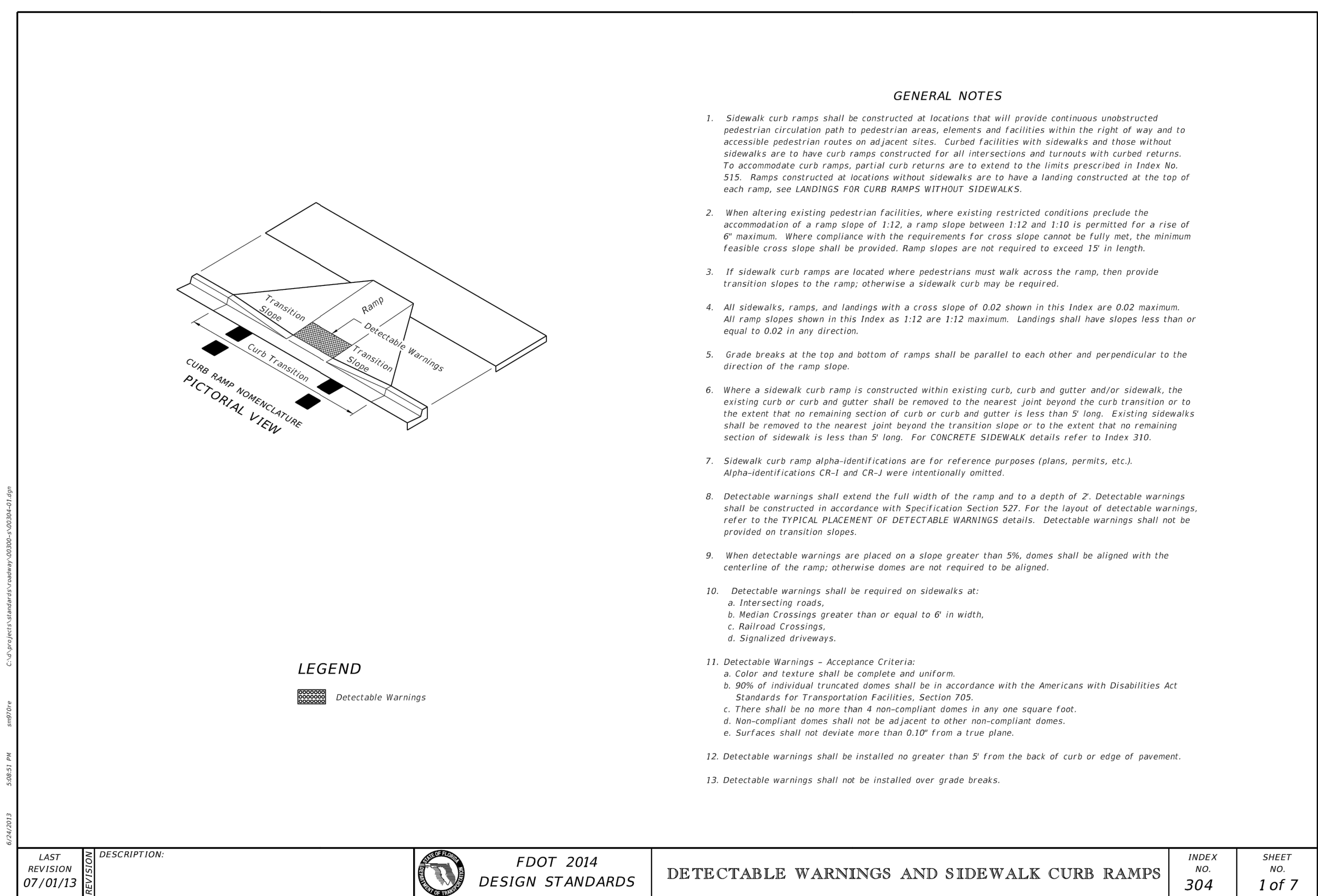
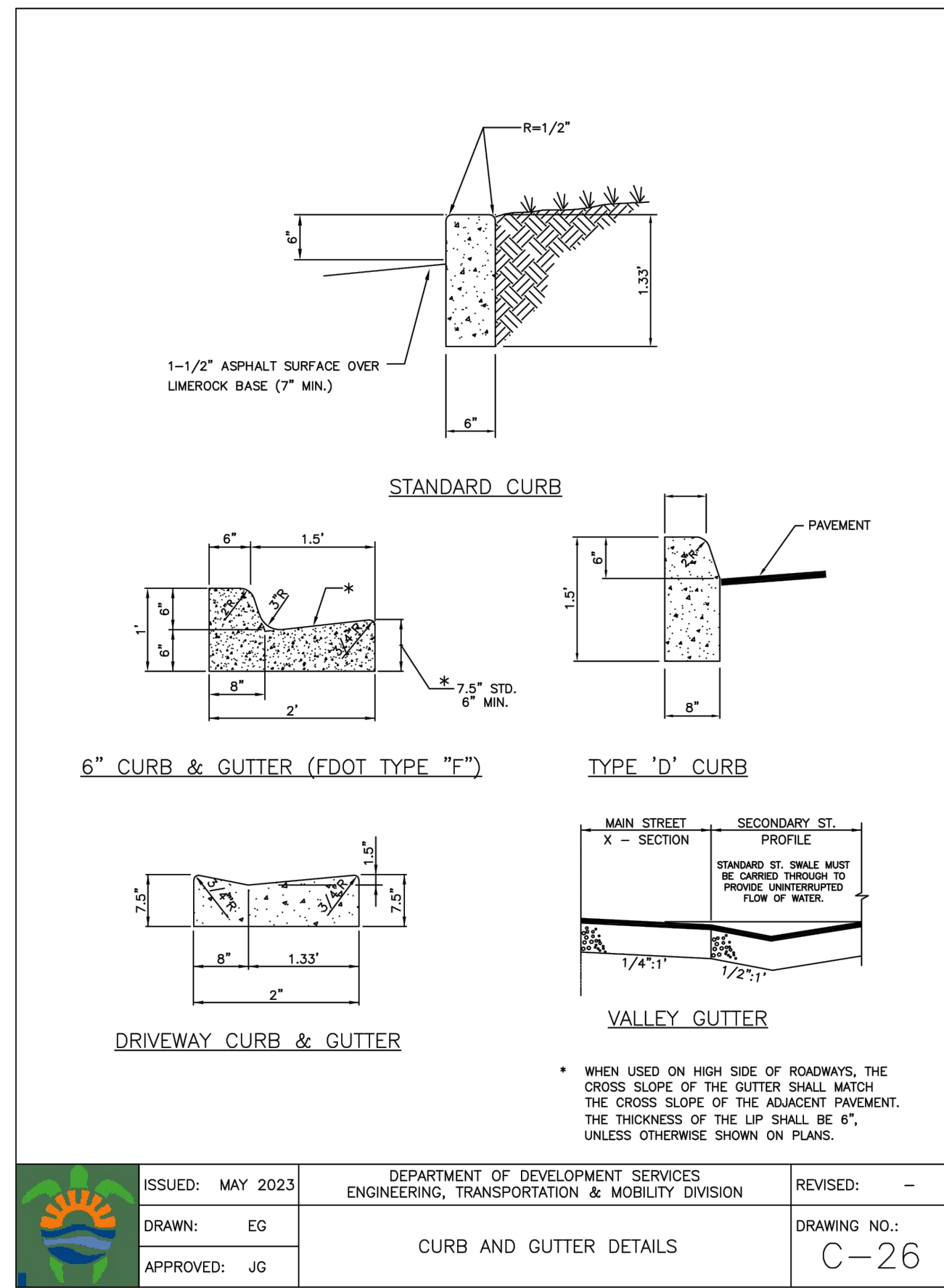
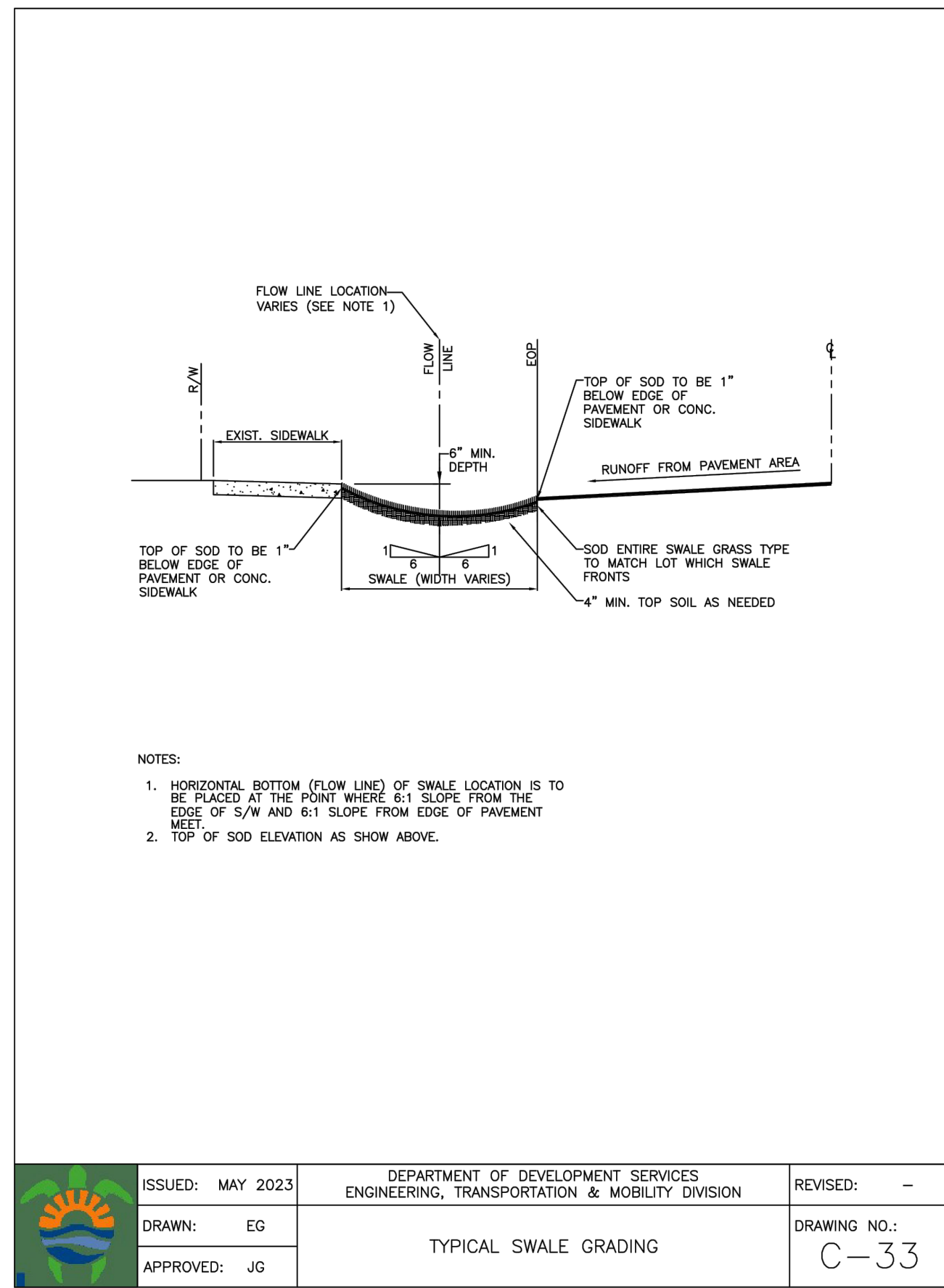
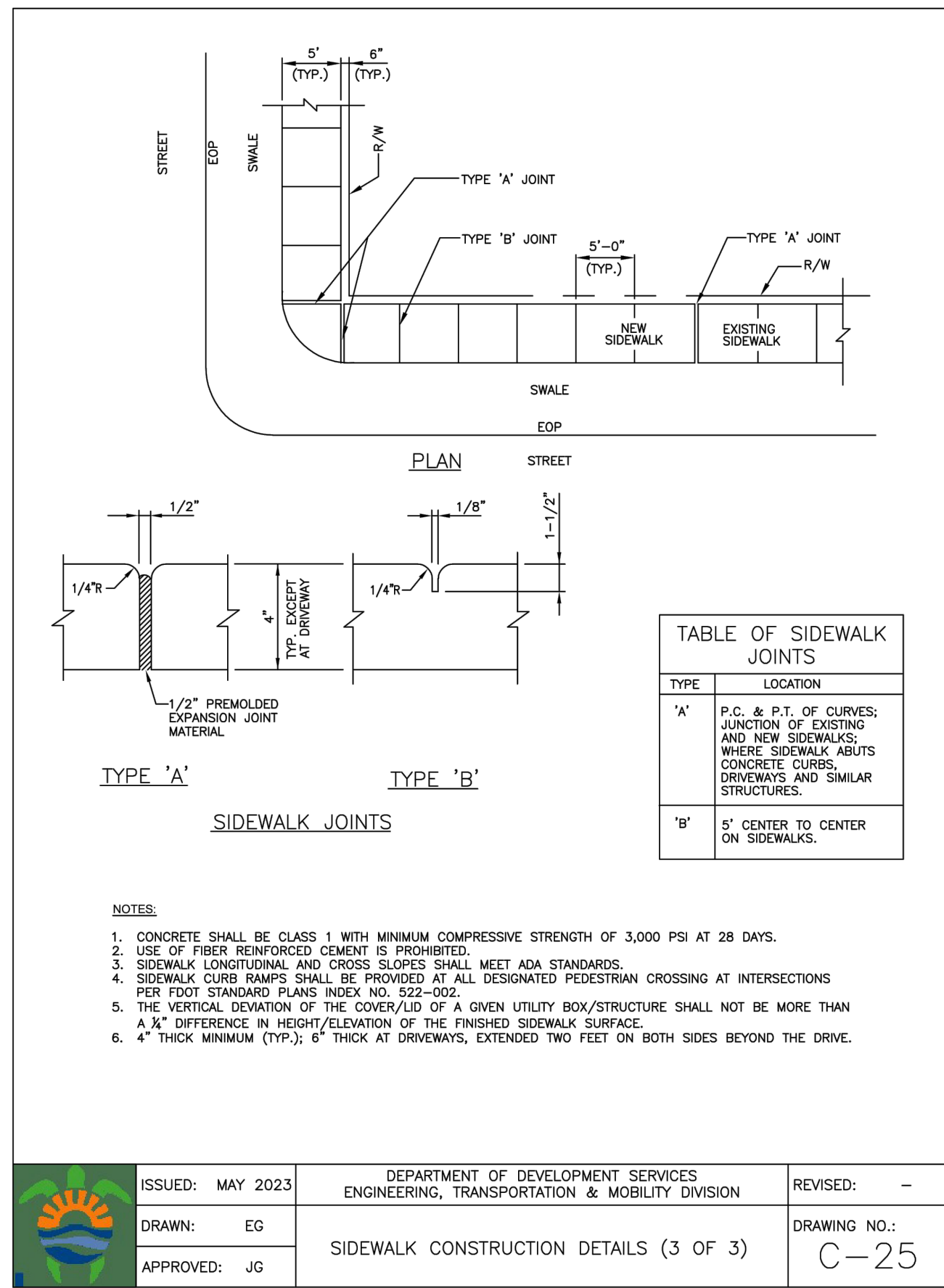
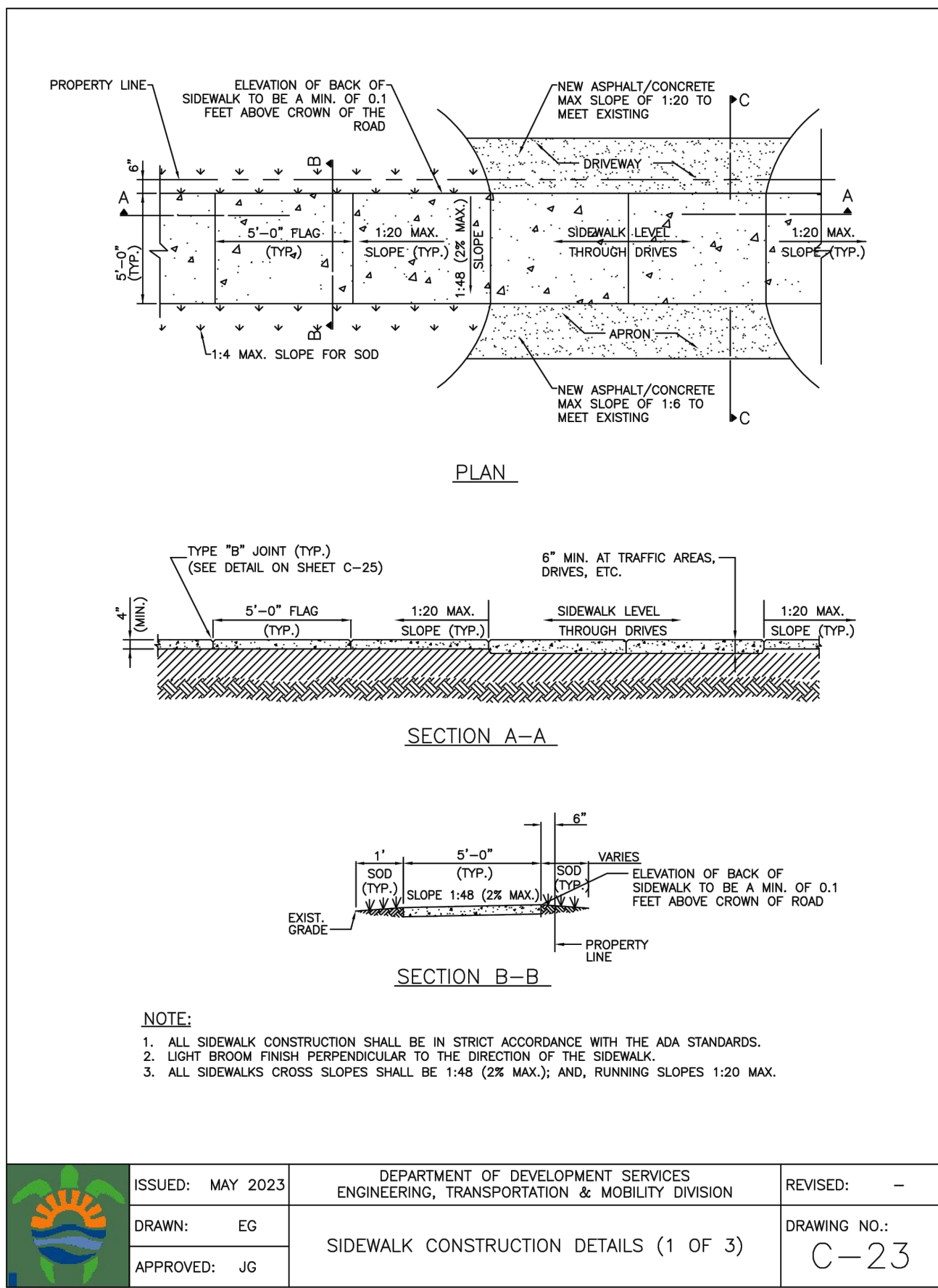
DATE: 12/21/23

SCALE: N.T.S.

SHEET NO.: 01

55

PROJECT NO.: 23-56



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

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CIVIL DETAILS II

SCALE: N.T.S.

REVISIONS

NO.	DATE	DESCRIPTION

ZEPHYR ENGINEERING

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

9 UNIT TOWNHOMES

720 N 26th AVE
HOLLYWOOD, FL

P.E.#: 76036

DATE: 12/21/23

SCALE: N.T.S.

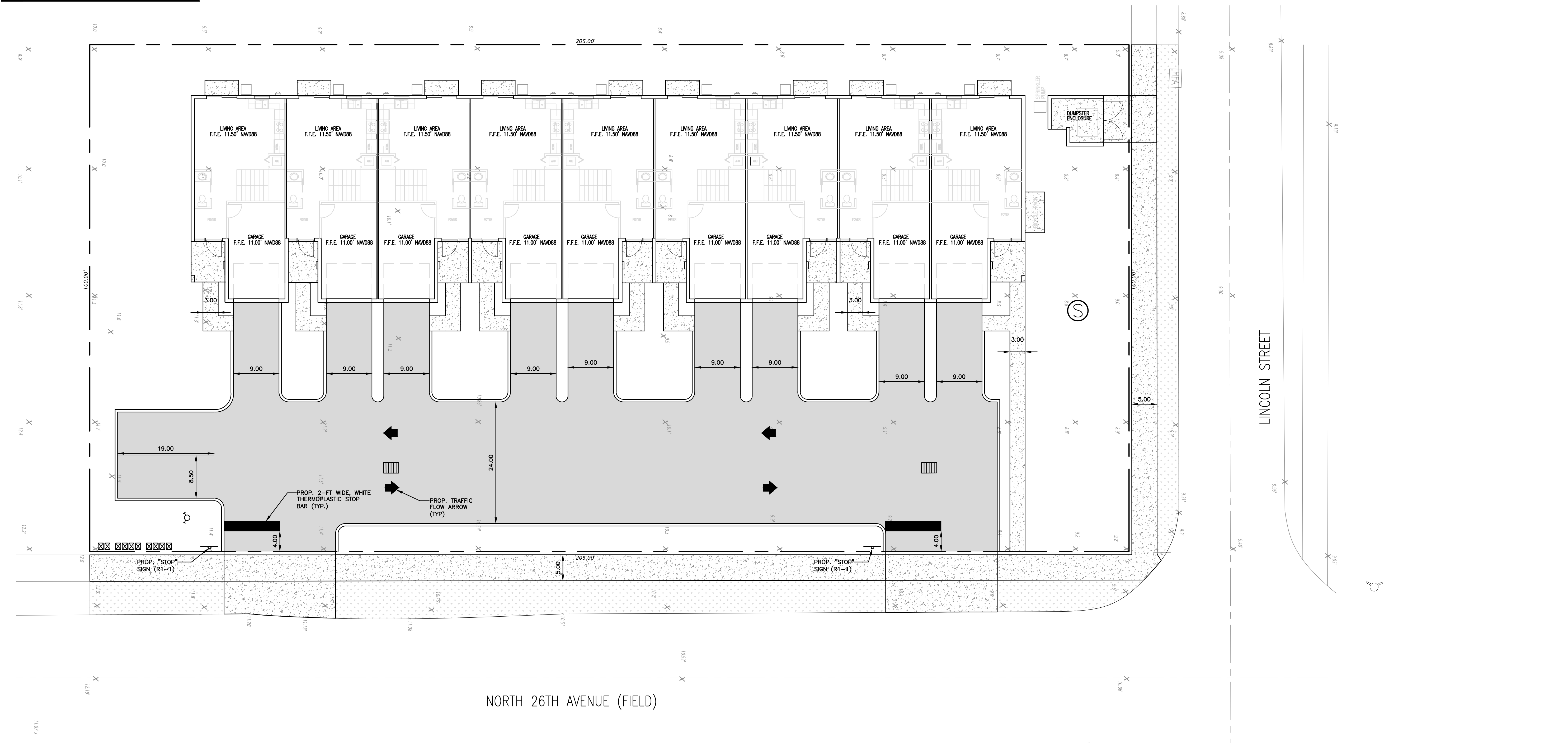
SHEET NO.: C4

4 of 11

PROJECT NO.: 23-56

ALL ELEVATIONS ARE REFERENCED
TO NAVD88 VERTICAL DATUM

BCTED NO. XXXXXXXX



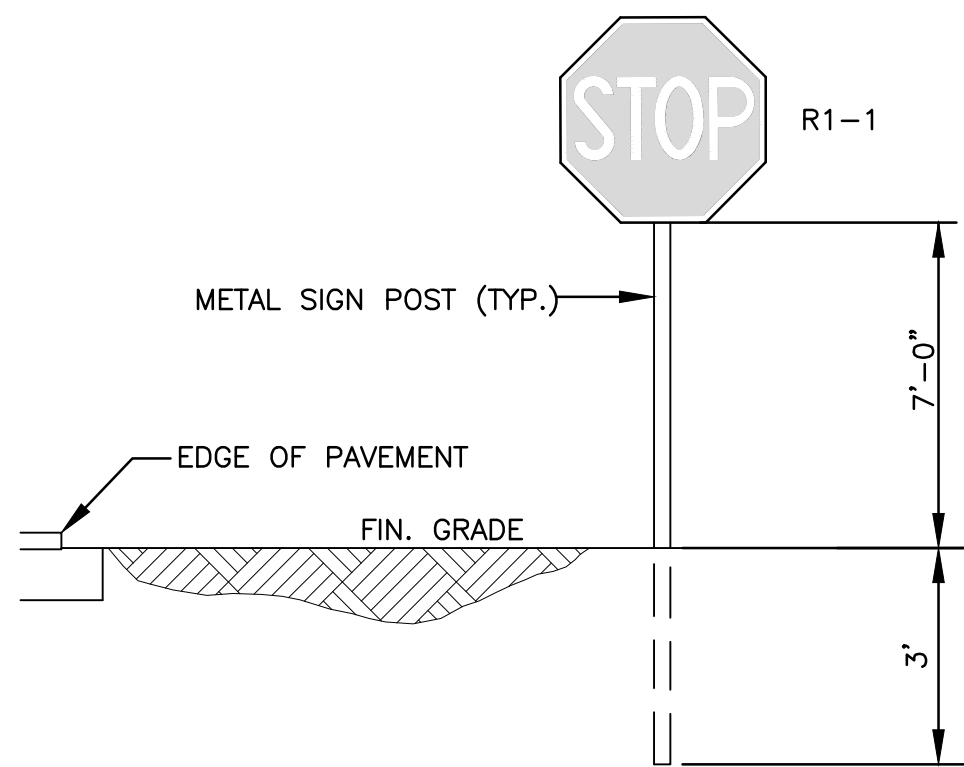
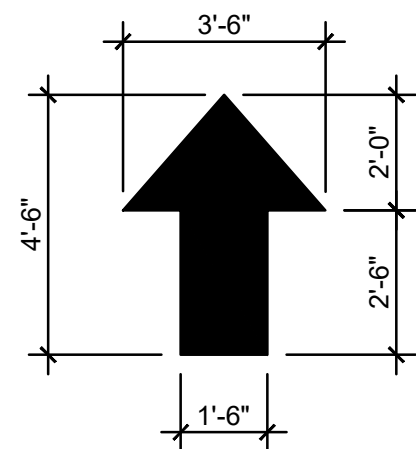
- LEGEND**
- PROPOSED CONCRETE
 - PROPOSED ASPHALT
 - PROPOSED GRADE
 - EXISTING ELEVATION
 - PROPOSED CATCH BASIN
 - EXISTING CATCH BASIN
 - PROPOSED WATER METER
 - EXISTING WATER METER
 - EXISTING WATER VALVE
 - PROPOSED BFP DEVICE
 - EXISTING SAN. SEWER MH
 - EXISTING FIRE HYDRANT

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.

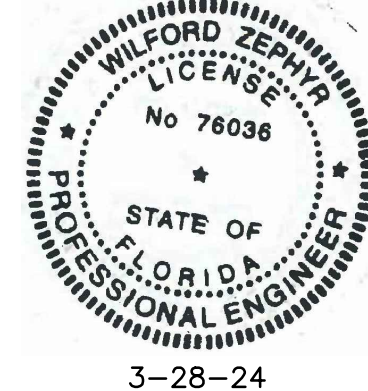
TRAFFIC CONTROL ARROWS DETAILS

NTS



TYPICAL SIGN INSTALLATION DETAIL

NTS



3-28-24

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

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

PAVEMENT MARKINGS & SIGNAGE PLAN

SCALE: 1"=10'

REVISIONS

NO.	DATE	DESCRIPTION

ZEPHYR ENGINEERING

ZE

9 UNIT TOWNHOMES
720 N 26th AVE
HOLLYWOOD, FL

P.E.#:76036

DATE: 12/21/23

SCALE: 1"=10'

SHEET NO.:

C5

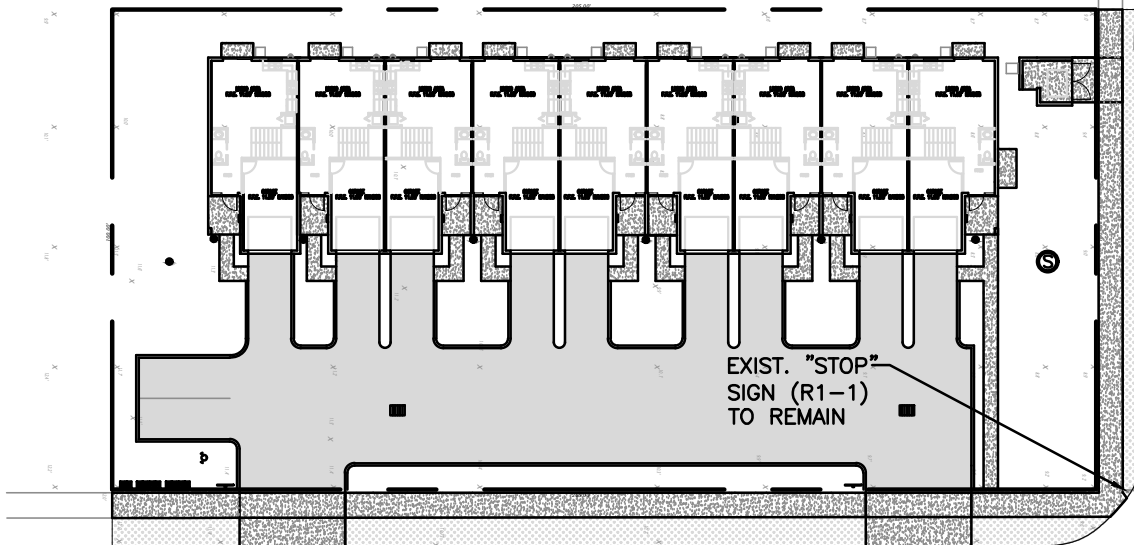
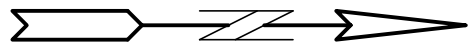
5 OF 11

PROJECT NO.: 23-56

ALL ELEVATIONS ARE REFERENCED
TO NAVD88 VERTICAL DATUM

BCTED NO. XXXXXXXX

MATCH LINE



LINCOLN STREET

EXIST. 50'-6" SOLID
DOUBLE YELLOW TO
REFURBISH
EXIST. 2'-FT WIDE, WHITE
THERMOPLASTIC STOP BAR
TO REFURBISH

NORTH 26TH AVENUE (FIELD)

EXIST. 6" WHITE (10'-30')
SKIP W/ W/R RPM's @
40' C.C. TO REFURBISH

EXIST. "STOP"
SIGN (R1-1)
TO REMAIN

EXIST. 2'-FT WIDE, WHITE
THERMOPLASTIC STOP BAR
TO REFURBISH

EXIST. 50'-6" SOLID
DOUBLE YELLOW TO
REFURBISH

LINCOLN STREET

703

709

715

2542

2534

2530

2522

2514

2551

807

815

2537

2535

2521

2513

2506

2466

2456

2450

2446

2440

2438

2434

2420

724

2418

619

EXIST. "DO NOT
ENTER" SIGN TO
REMAIN

EXIST. SCHOOL
CROSSING SIGN
TO REMAIN

EXIST. WHITE "SCHOOL"
THERMOPLASTIC PAVEMENT
MARKING TO REFURBISH

LINCOLN STREET

EXIST. 12" WIDE, WHITE
THERMOPLASTIC PAVEMENT
MARKING TO REFURBISH

2501

2463

2459

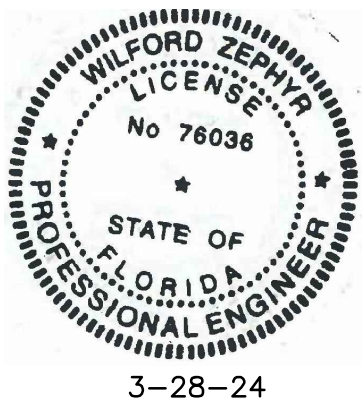
2151

2447

2435

2419

2417



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

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

R.O.W. PAVEMENT MARKINGS PLAN I

SCALE: 1"=40'

REVISIONS

NO.	DATE	DESCRIPTION

ZEPHYR ENGINEERING

ZE

9 UNIT TOWNHOMES
720 N 26th AVE
HOLLYWOOD, FL

P.E.#:76036

DATE: 12/21/23

SCALE: 1"=40'

SHEET NO.:

C6

6 OF 11

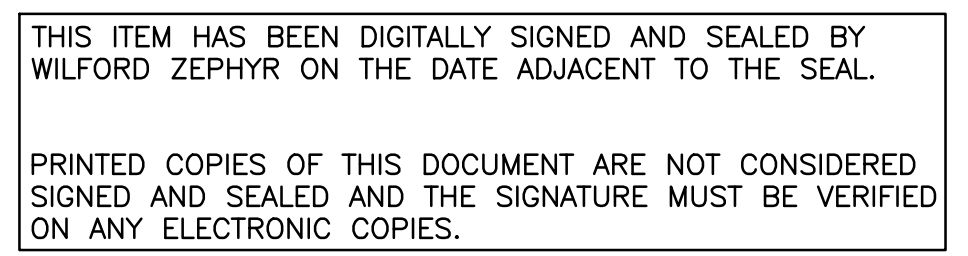
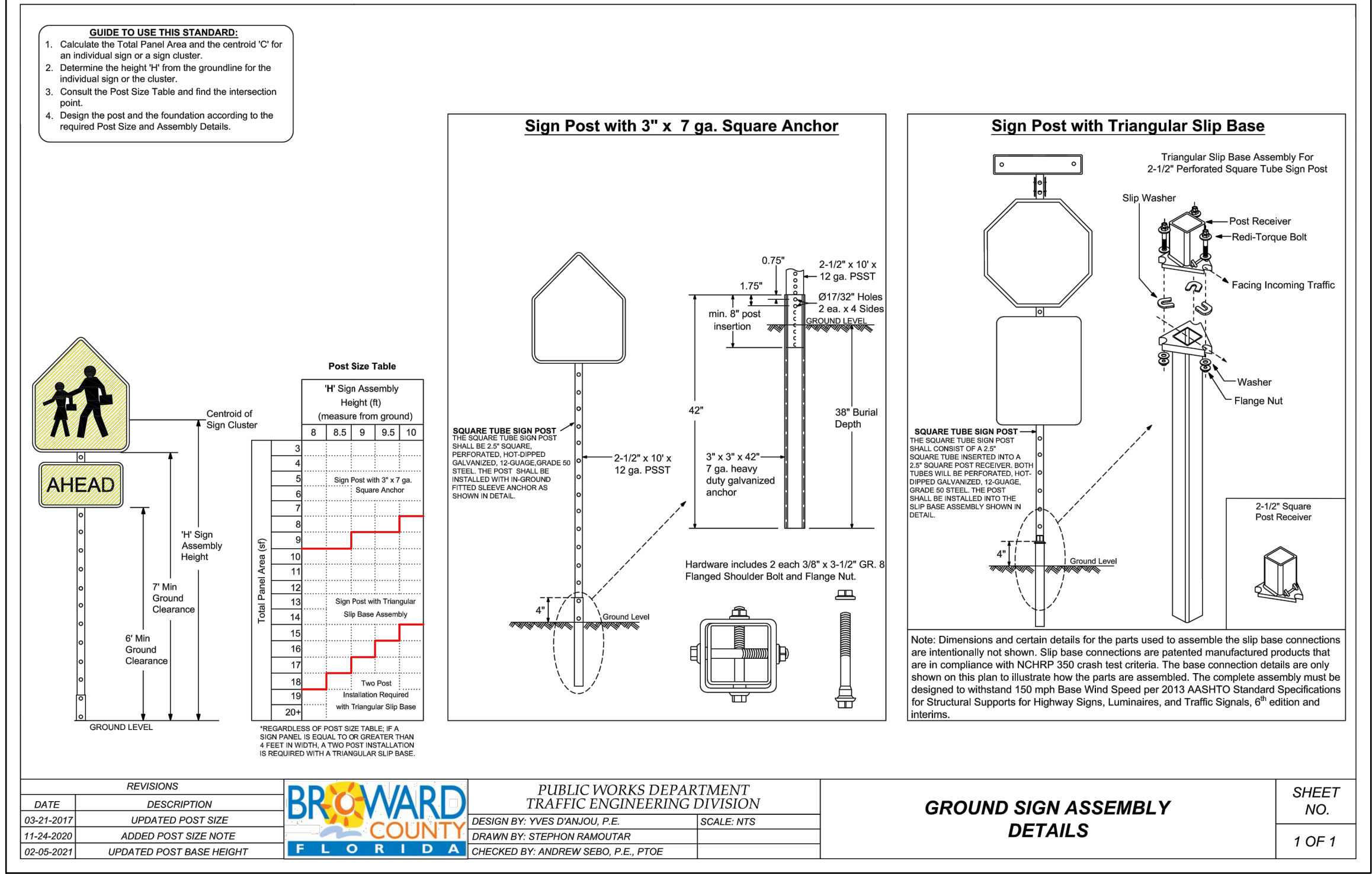
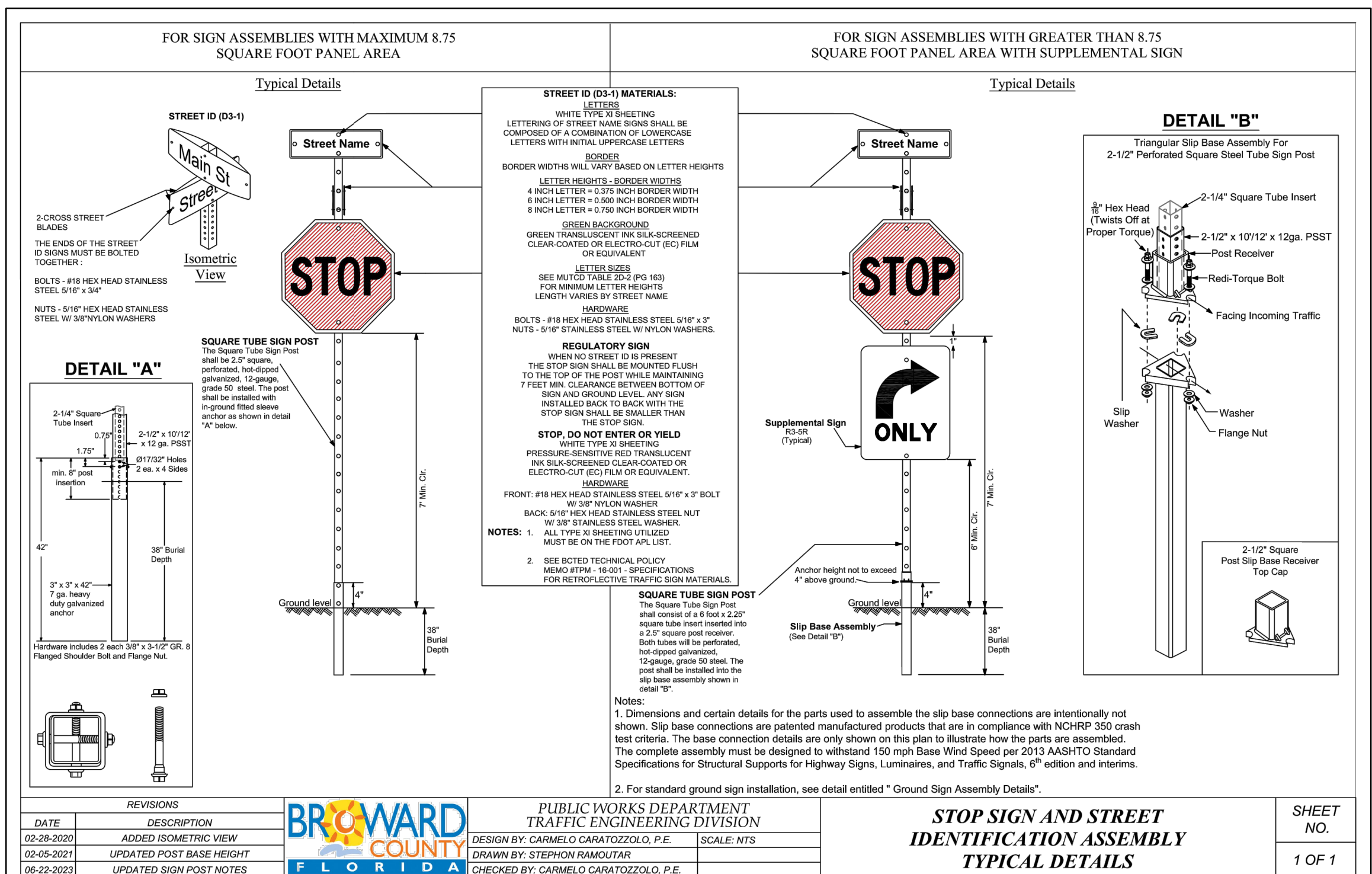
PROJECT NO.: 23-56

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

LEGEND

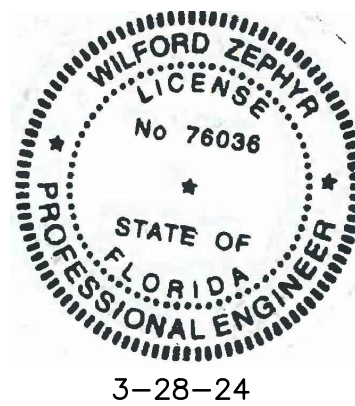
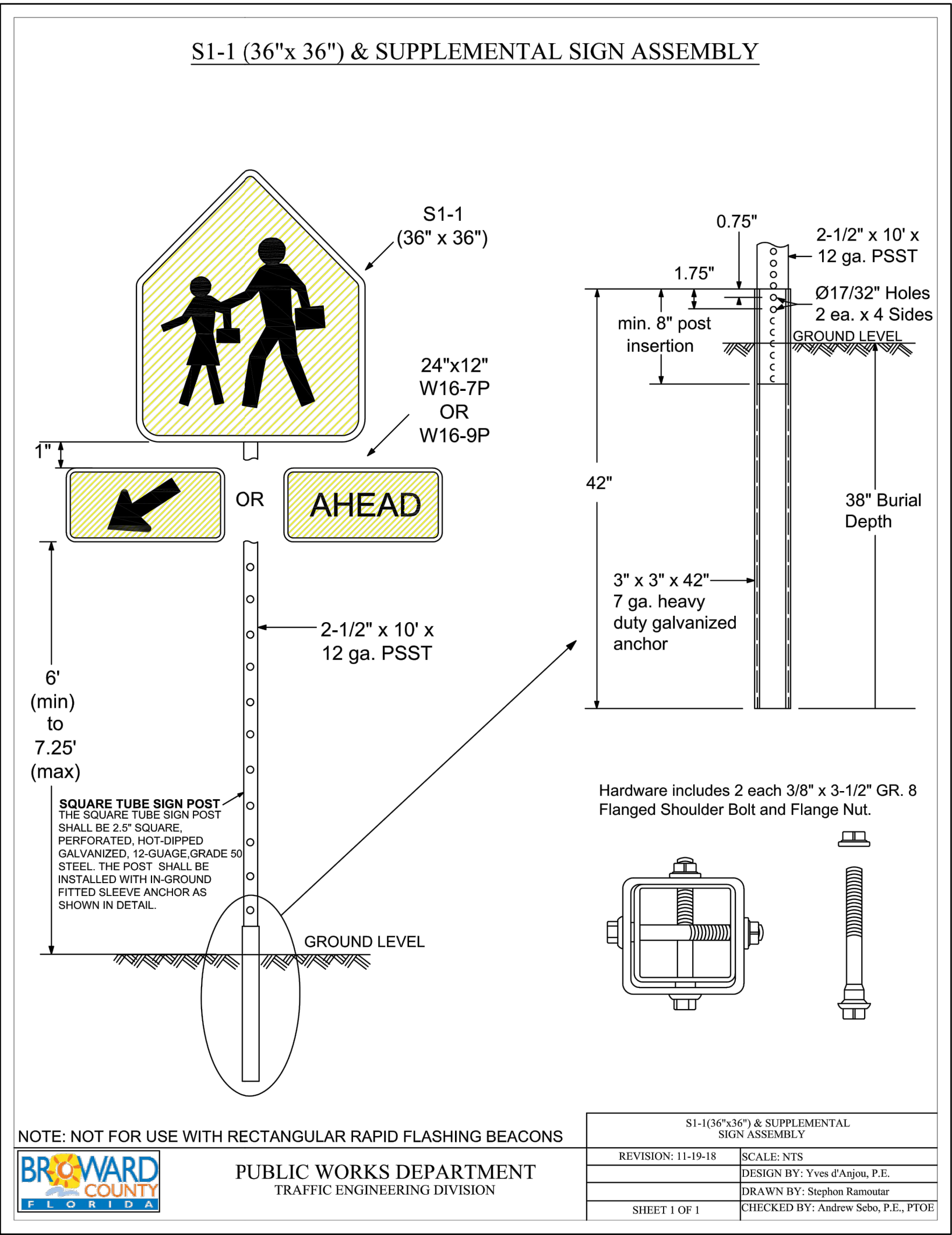
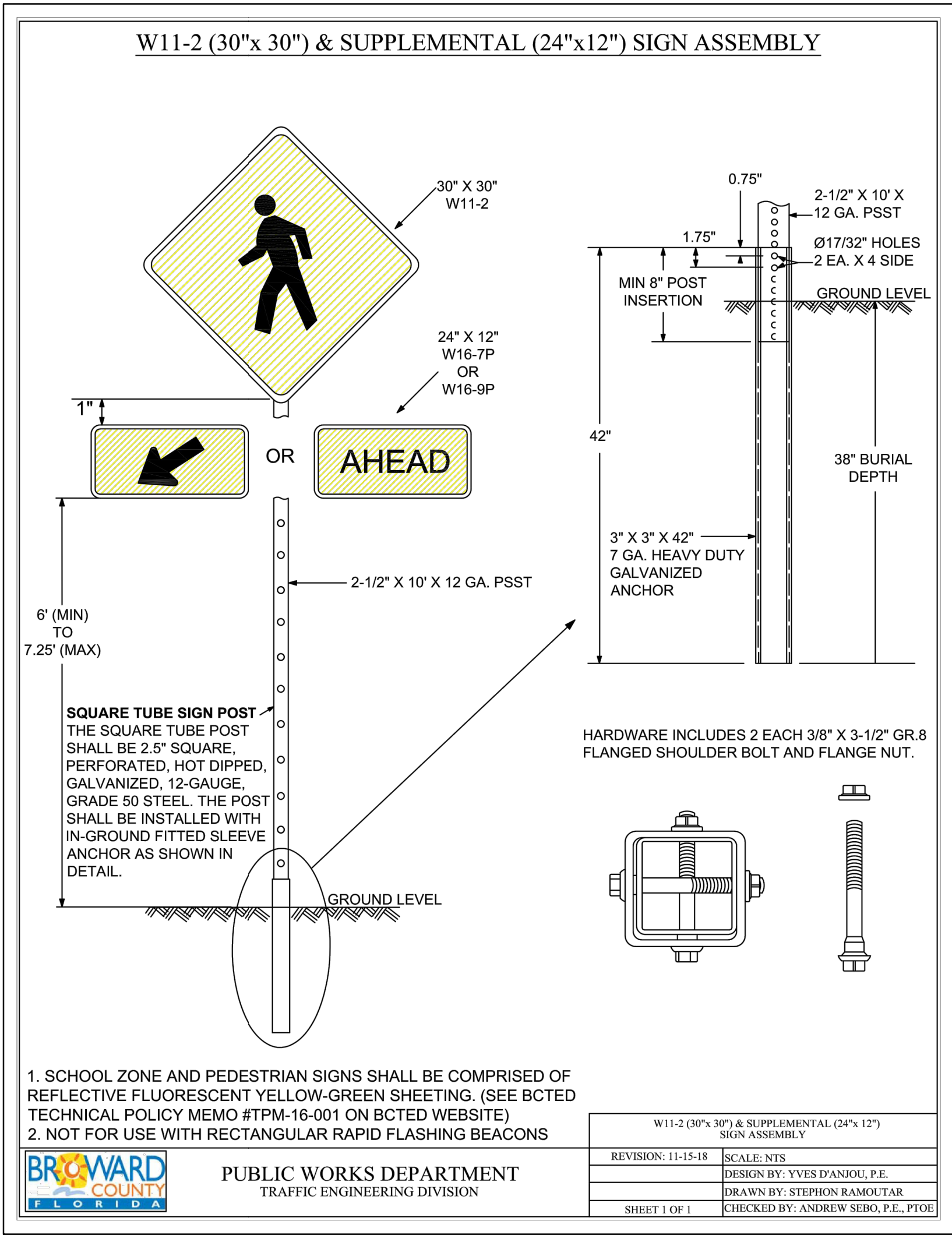
	PROPOSED CONCRETE		EXISTING WATER METER
	PROPOSED ASPHALT		EXISTING WATER VALVE
	PROPOSED GRADE		PROPOSED BFP DEVICE
	EXISTING ELEVATION		EXISTING SAN. SEWER MH
	PROPOSED CATCH BASIN		EXISTING FIRE HYDRANT
	EXISTING CATCH BASIN		
	PROPOSED WATER METER		

BCTED NO. XXXXXXXX



P.E.#:76036		9 UNIT TOWNHOMES		ZE		ZEPHYR ENGINEERING WILFORD ZEPHYR, P.E. HOLLYWOOD, FL (786)302-7693 wzephyreng@gmail.com CA#: 31158		REVISIONS	
DATE: 12/21/23								NO.	
SCALE: 1"=40'								DATE	
SHEET NO.: C7 7 OF 11								DESCRIPTION	
PROJECT NO.: 23-56									

P.E.#:76036
DATE: 12/21/23
SCALE: 1"=40'
SHEET NO.:
C7
7 OF 11
PROJECT NO.: 23-



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

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

R.O.W. PAVEMENT MARKINGS DETAILS

SCALE: N.T.S.

REVISIONS	
NO.	DESCRIPTION

ZEPHYR ENGINEERING

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

ZE

9 UNIT TOWNHOMES
720 N 26th AVE
HOLLYWOOD, FL

P.E.#: 76036

DATE: 12/21/23

SCALE: N.T.S.

SHEET NO.: C8

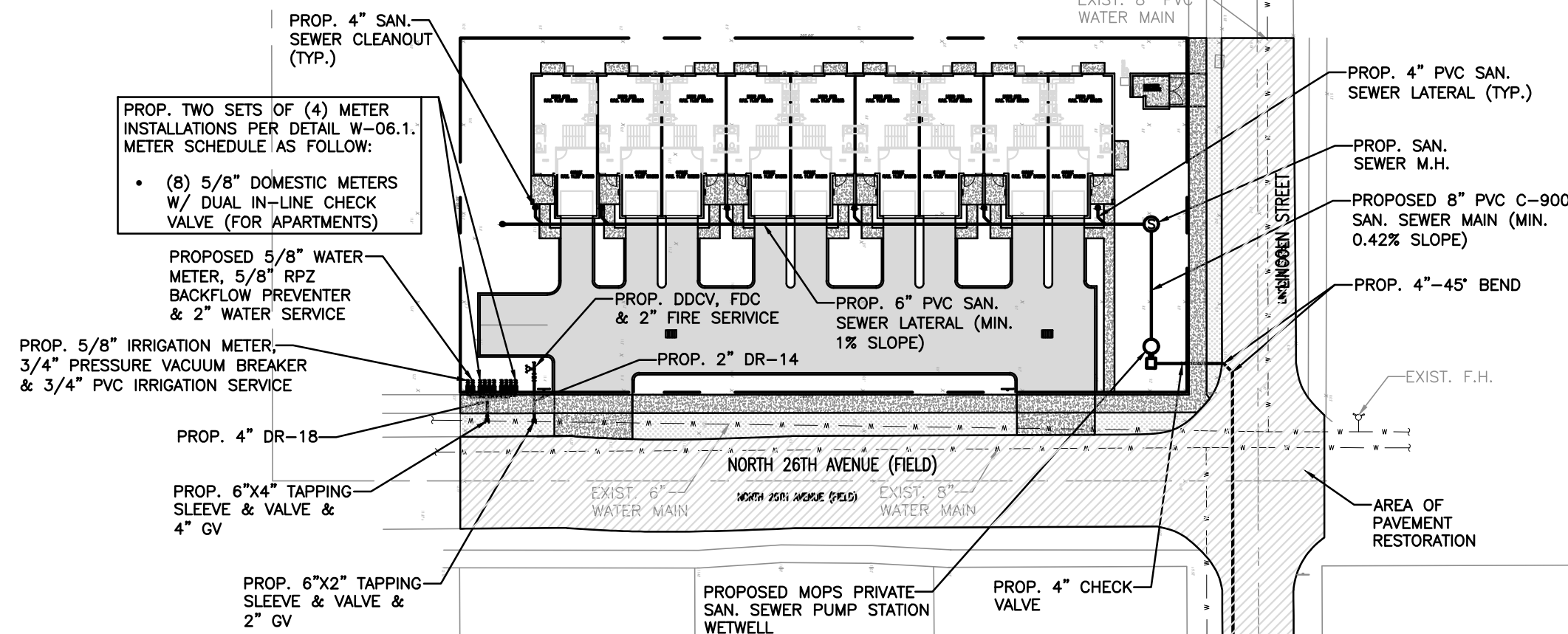
8 OF 11

PROJECT NO.: 23-56

ALL ELEVATIONS ARE REFERENCED
TO NAVD88 VERTICAL DATUM

MATCH LINE

NOTE:
FULL ROAD WIDTH PAVEMENT MILL AND
RESURFACING WILL BE REQUIRED FOR
ALL STREETS/ROADWAY ADJACENT TO
THE PROJECT SITE



R.O.W. RESTORATION AREAS:
MILLING & RESURFACING: 31,495 SF
NEW ASPHALT (OVER TRENCH): 9,662 SF
TRENCH: 9,662 SF
SWALE RESTORATION: 1,482 SF
SIDEWALK RESTORATION: 1,352 SF
DRIVEWAY RESTORATION: 514 SF

2537

2535

2521

2513

2506

2466

2456

2450

2446

2440

2438

2434

2420

724

2418

619

2501

2463

2459

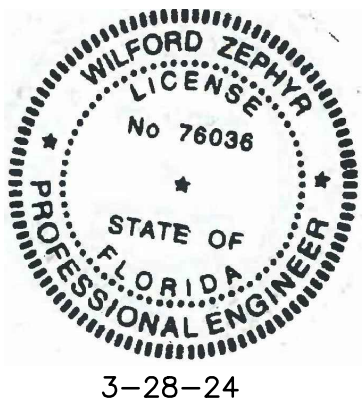
2151

2447

2435

2419

2417



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

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

WATER & SEWER PLAN & DETAILS I

SCALE: 1"=40'

REVISIONS

NO.	DATE	DESCRIPTION

ZEPHYR ENGINEERING

ZE

9 UNIT TOWNHOMES
720 N 26th AVE
HOLLYWOOD, FL

P.E.#:76036

DATE: 12/21/23

SCALE: 1"=40'

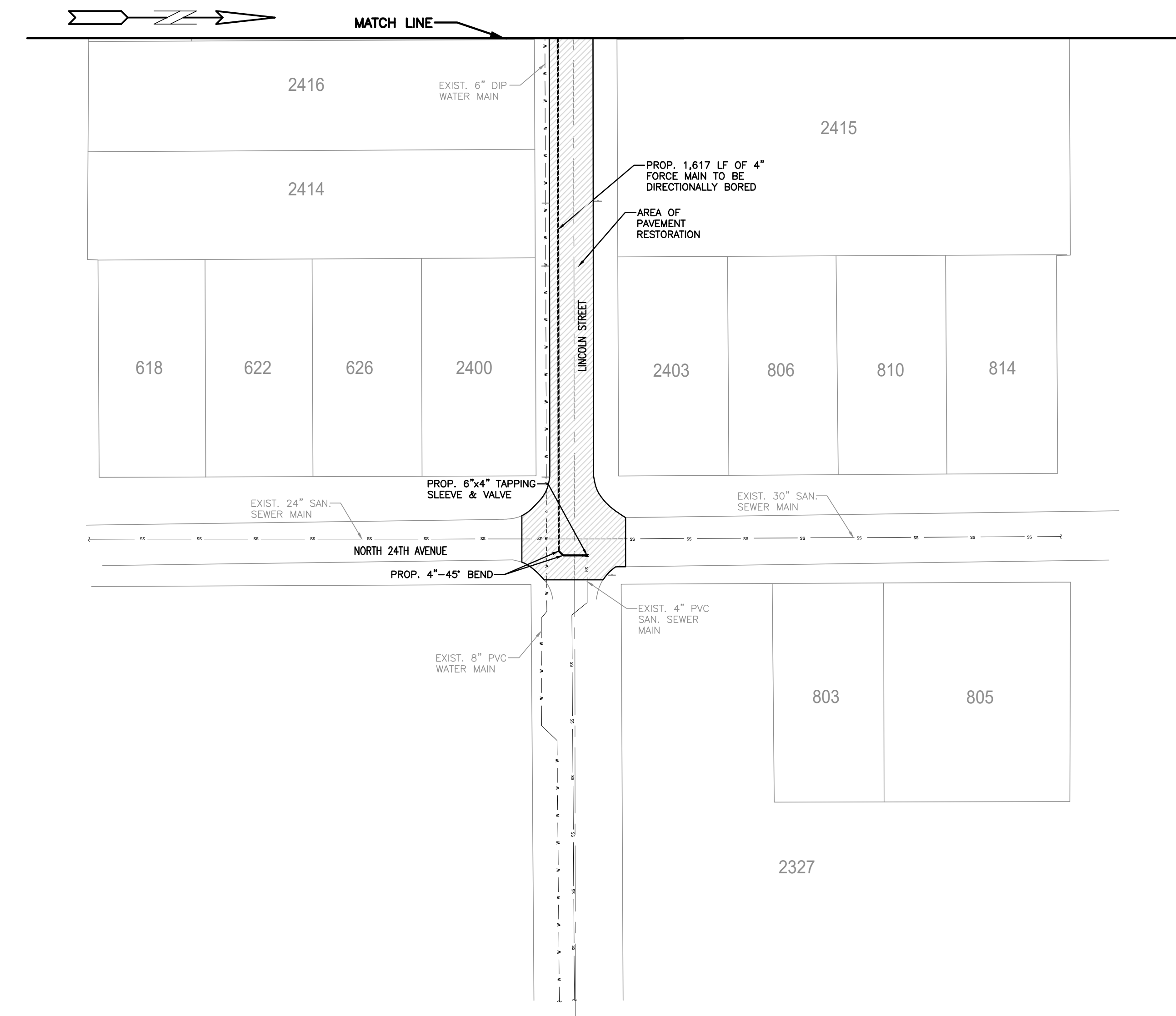
SHEET NO.:

C9

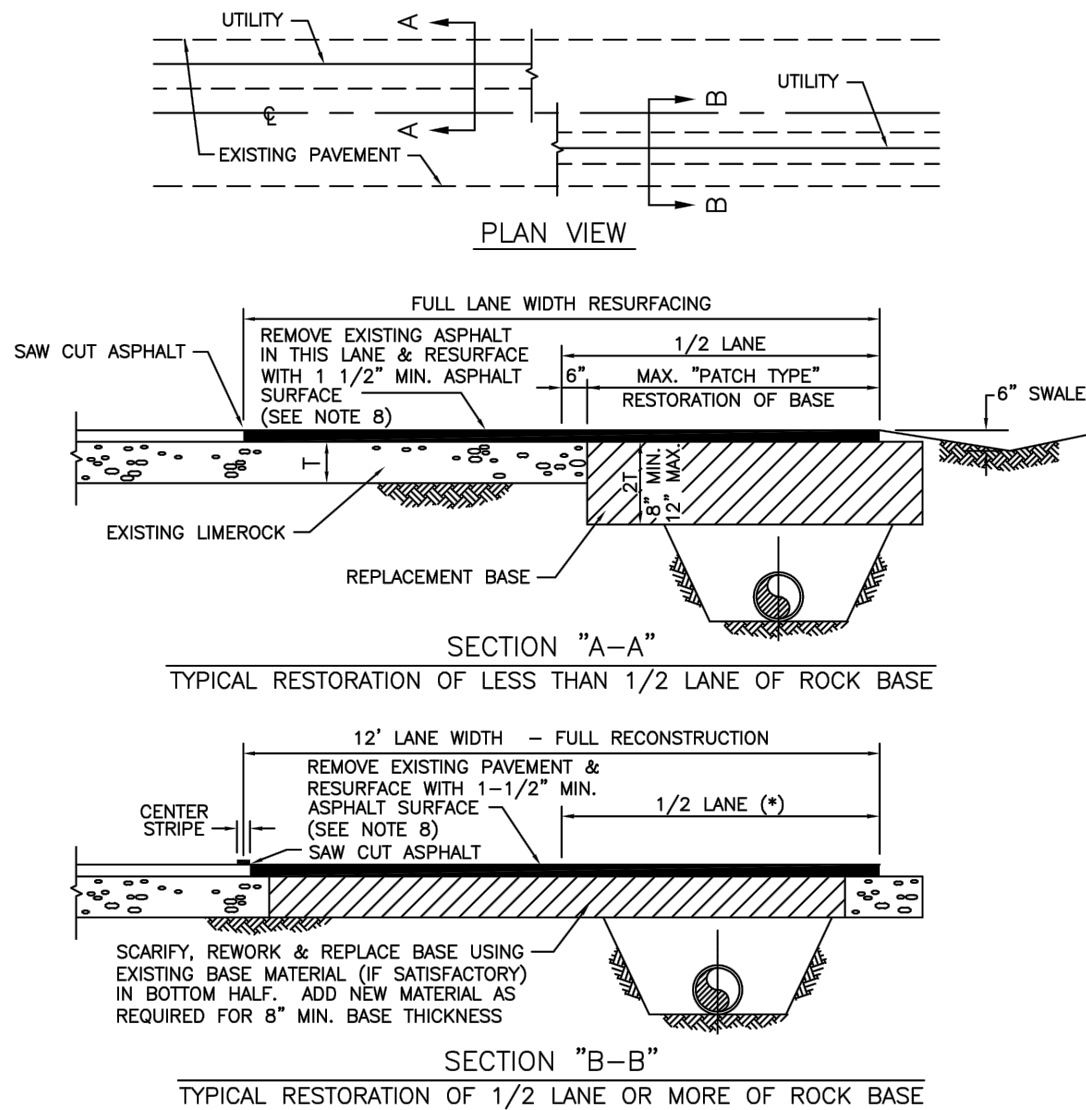
9 OF 11

PROJECT NO.: 23-04

ALL ELEVATIONS ARE REFERENCED
TO NAVD88 VERTICAL DATUM



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

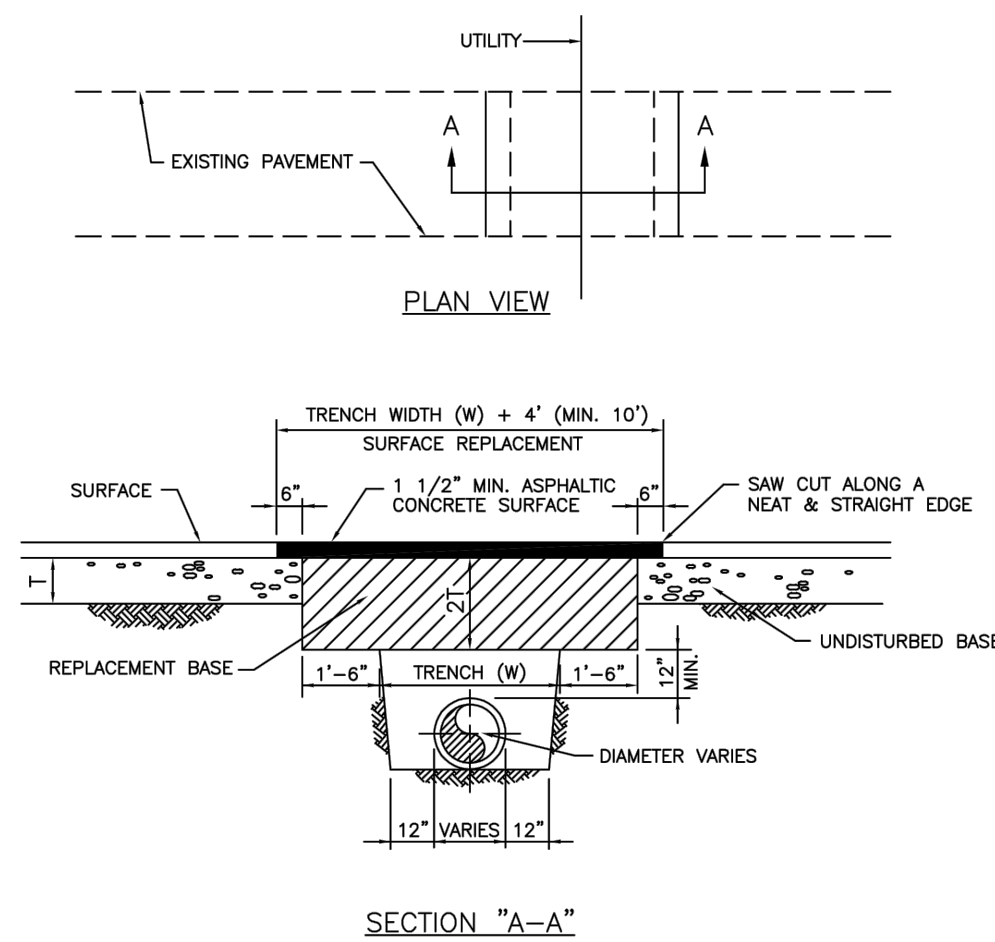


(*) IF TRENCH IMPACTS MORE THAN 1/2 A LANE WIDTH SECTION B-B SHALL BE USED.

NOTES:

1. BASE MATERIAL SHALL HAVE A MINIMUM L.B.R. OF 100 AND A MINIMUM CARBONATE CONTENT OF 70%.
2. BASE MATERIAL SHALL BE PLACED IN 6" MAXIMUM THICKNESS LAYERS WITH EACH LAYER COMPACTED AS REQUIRED AND TESTED PRIOR TO THE PLACEMENT OF THE SUCCEEDING LAYERS.
3. SUBGRADE MATERIAL SHALL BE GRANULAR AND SHALL HAVE A MINIMUM L.B.R. OF 40.
4. BACKFILL SHALL BE PLACED AND COMPACTED IN 8" LAYERS, BUT TESTING WILL BEGIN 12" ABOVE THE INSTALLED FACILITY.
5. ALL EDGES OF EXISTING ASPHALT PAVEMENT WHERE RESURFACING WILL ABUT SHALL BE SAW CUT TO STRAIGHT LINES, PARALLEL TO OR PERPENDICULAR TO THE ROADWAY, PRIOR TO THE RESURFACING.
6. RESURFACING MATERIAL SHALL BE OF THE SAME MIX AS THE EXISTING SURFACE AND SHALL BE APPLIED A MINIMUM OF 1-1 1/2" INCHES IN THICKNESS.
7. FULL ROAD WIDTH RESURFACING MAY BE REQUIRED. SEE PLANS.

	ISSUED: MAY 2023	DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING, TRANSPORTATION & MOBILITY DIVISION	REVISED: -
	DRAWN: EG	FLEXIBLE PAVEMENT RESTORATION PARALLEL UTILITY INSTALLATION	DRAWING NO.: C-30
	APPROVED: JG		



NOTES:

1. REPLACED BASE MATERIAL OVER TRENCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE, MINIMUM 12", MAXIMUM 18".
2. BASE MATERIAL SHALL BE PLACED IN 6" MAXIMUM (LOOSE MEASUREMENT) LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY, PER AASHTO T-180.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
4. SURFACE TREATED PAVEMENT JOINTS SHALL BE LAPPED AND FEATHERED.
5. SURFACE MATERIAL SHALL BE CONSISTENT WITH THE EXISTING SURFACE.
6. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM CARBONATE CONTENT OF 70%.
7. IF THE TRENCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" ASPHALTIC CONCRETE PATCH TO KEEP THE FULL MATERIAL FROM RAVELLING UNTIL REPLACED WITH A PERMANENT PATCH.
8. MINIMUM PAVEMENT RESTORATION WIDTH IS 10'.

	ISSUED: MAY 2023	DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING, TRANSPORTATION & MOBILITY DIVISION	REVISED: -
	DRAWN: EG	FLEXIBLE PAVEMENT RESTORATION PERPEND. UTILITY INSTALLATION	DRAWING NO.: C-31
	APPROVED: JG		

SEWER NOTES:

1. THE MINIMUM DEPTH OF COVER OVER D.I.P. SANITARY SEWER GRAVITY OR FORCE MAINS IS 30". THE MINIMUM DEPTH OF COVER OVER PVC SANITARY SEWER OR FORCE MAINS IS 36".
2. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. LEAKAGE TESTS AND ALIGNMENT (LAMPING) TESTS SHALL BE PERFORMED ON ALL NEW SEWER LINES UP TO THE CONNECTION POINT WITH THE EXISTING SEWER SYSTEM. THESE TESTS SHALL BE REQUESTED AND PAID FOR BY THE CONTRACTOR.
4. LAMPING TESTS SHALL BE PERFORMED ON GRAVITY SEWERS FROM MANHOLE TO MANHOLE UP TO AND INCLUDING THE POINT OF CONNECTION TO THE EXISTING SEWER SYSTEM.
5. LEAKAGE TESTS SHALL BE PERFORMED ON ALL SEGMENTS OF A GRAVITY SEWER SYSTEM, INCLUDING SERVICE LATERALS AND MANHOLES, FOR A CONTINUOUS PERIOD OF NO LESS THAN 2 HOURS. AT THE END OF THE TEST, THE TOTAL MEASURED LEAKAGE SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM, WITH ZERO ALLOWABLE LEAKAGE FOR LATERALS AND MANHOLES. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET ON THE SECTION BEING TESTED.
6. FORCE MAINS SHALL BE PRESSURE-TESTED IN ACCORDANCE WITH RULE 62-555.330 (FAC). THE PRESSURE TEST SHALL CONSIST OF HOLDING A TEST PRESSURE OF 150 PSI ON THE PIPELINE FOR A CONTINUOUS PERIOD OF 2 HOURS THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

$$L = \frac{5 \times D \times \sqrt{P}}{148,000}$$

WHERE:

L = ALLOWABLE LEAKAGE FOR SYSTEM IN GALLONS PER HOUR

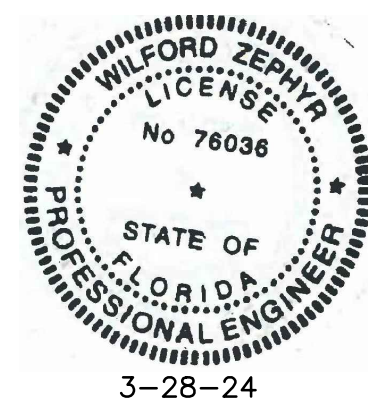
D = PIPE DIAMETER IN INCHES

S = LENGTH OF LINES IN LINEAL FEET

P = AVERAGE TEST PRESSURE IN PSI

7. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING CONFLICTS WITH FORCE MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, FORCE MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 12" MINIMUM SEPARATION FROM WATER MAINS AND 6" MINIMUM SEPARATION FROM OTHER UTILITIES. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.
8. 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: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
	DRAWN: EAM	SANITARY SEWER MAIN CONSTRUCTION NOTES	DRAWING NO. S-01
	APPROVED: XXX		



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

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

WATER & SEWER PLAN & DETAILS II

SCALE: 1"=40'

REVISIONS

NO.	DATE	DESCRIPTION

ZEPHYR ENGINEERING

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

ZE

9 UNIT TOWNHOMES

720 N 26th AVE
HOLLYWOOD, FL

P.E.#:76036

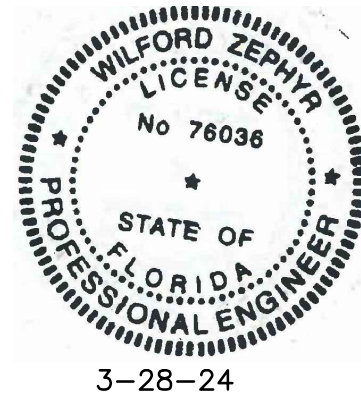
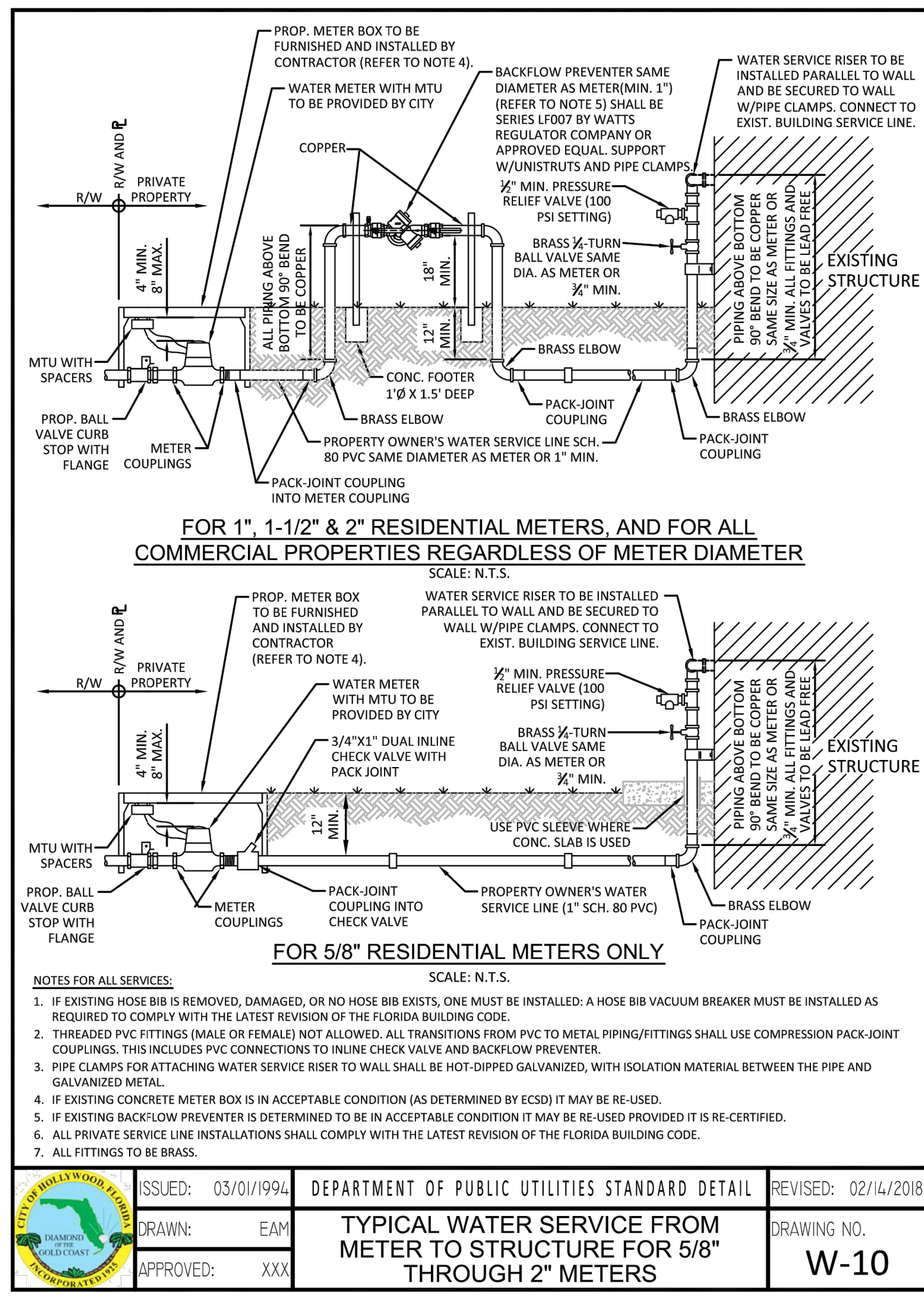
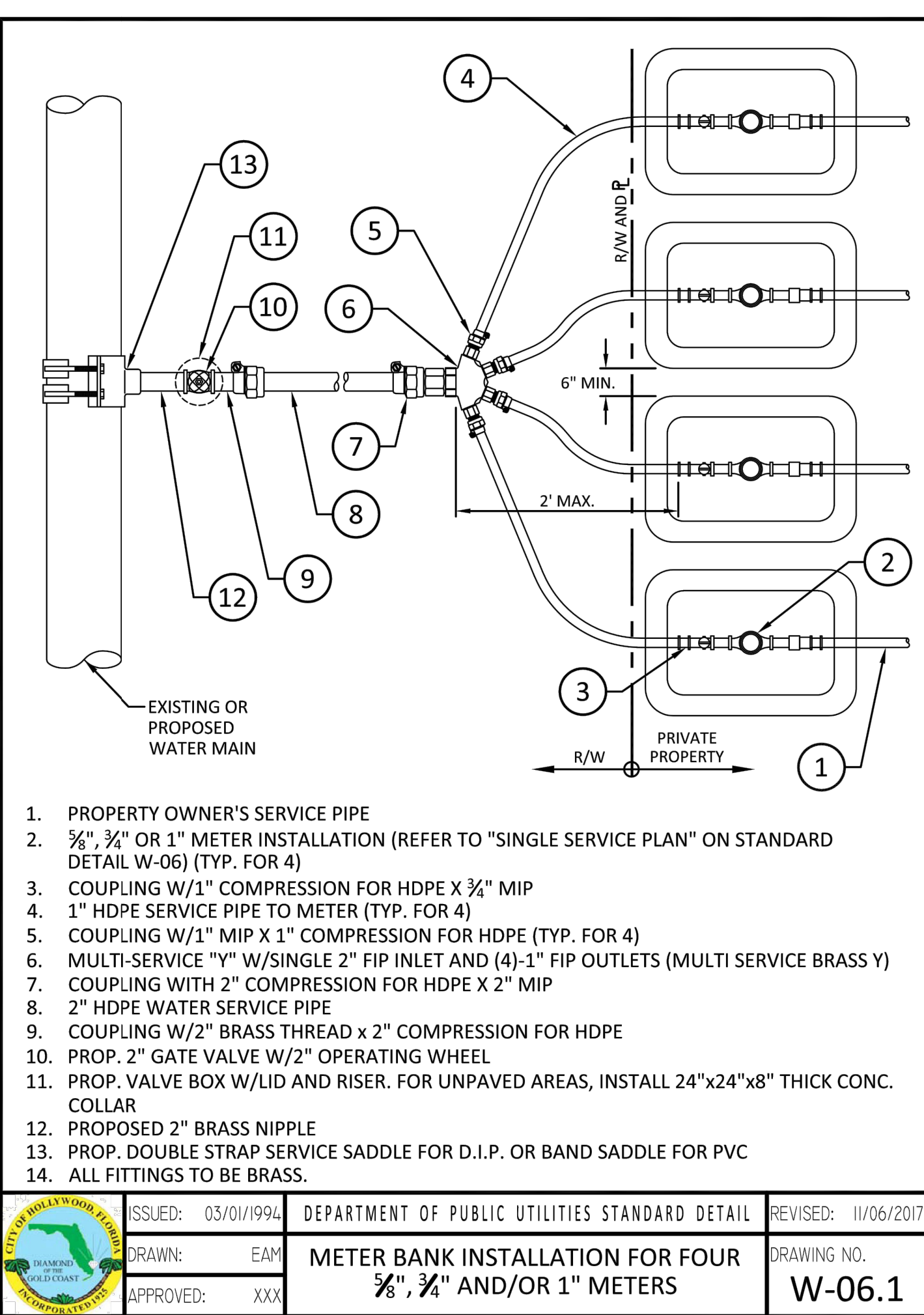
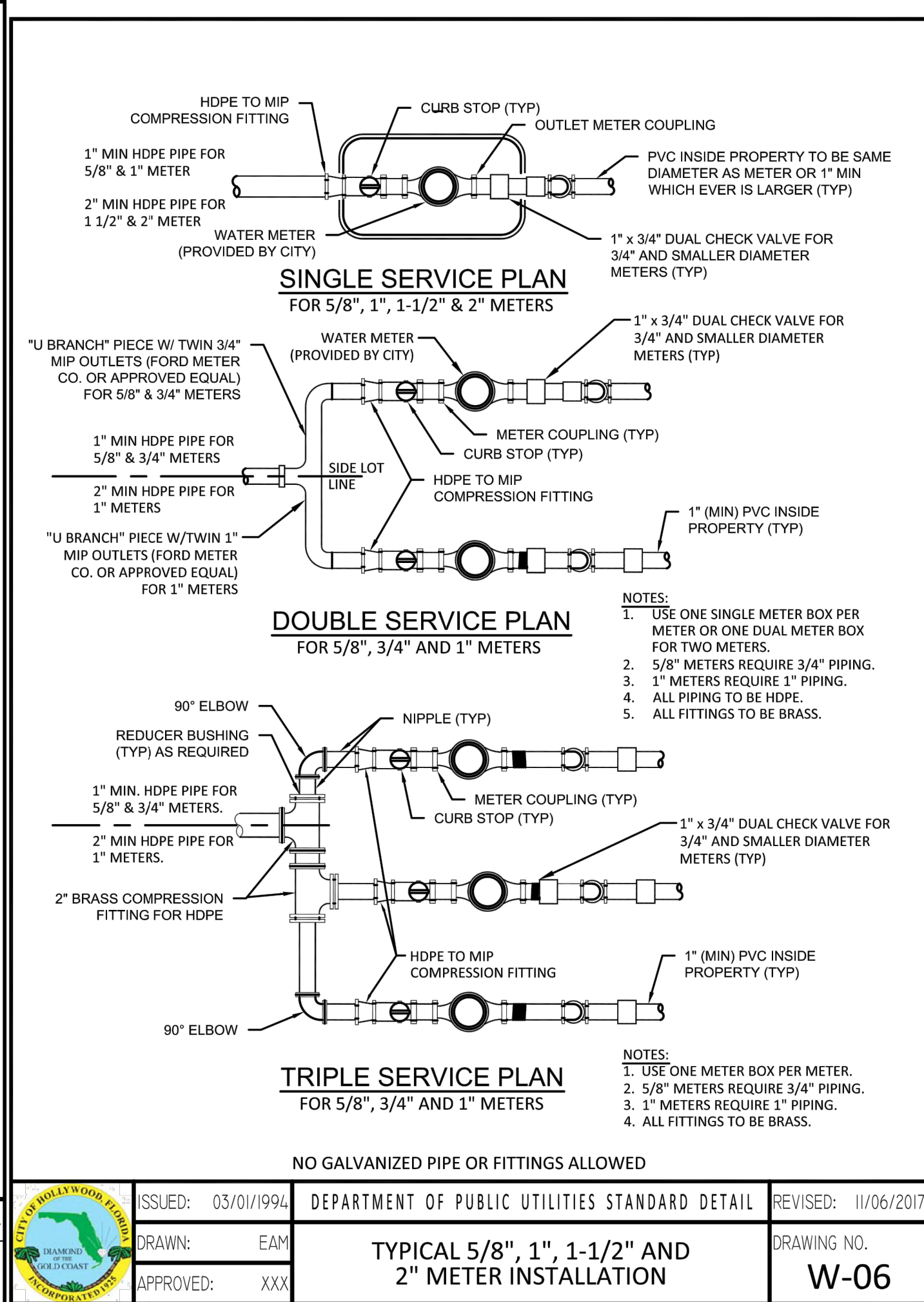
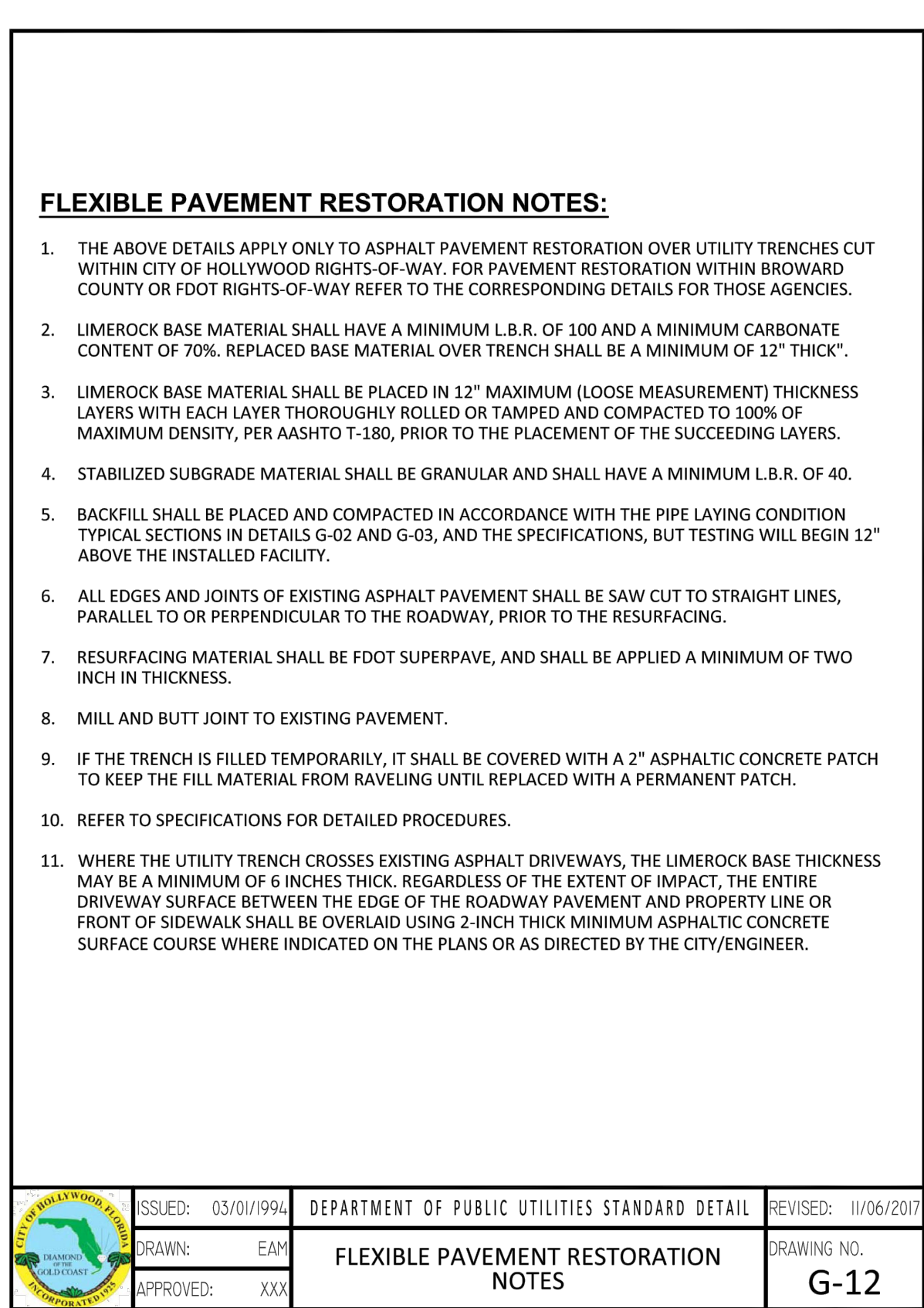
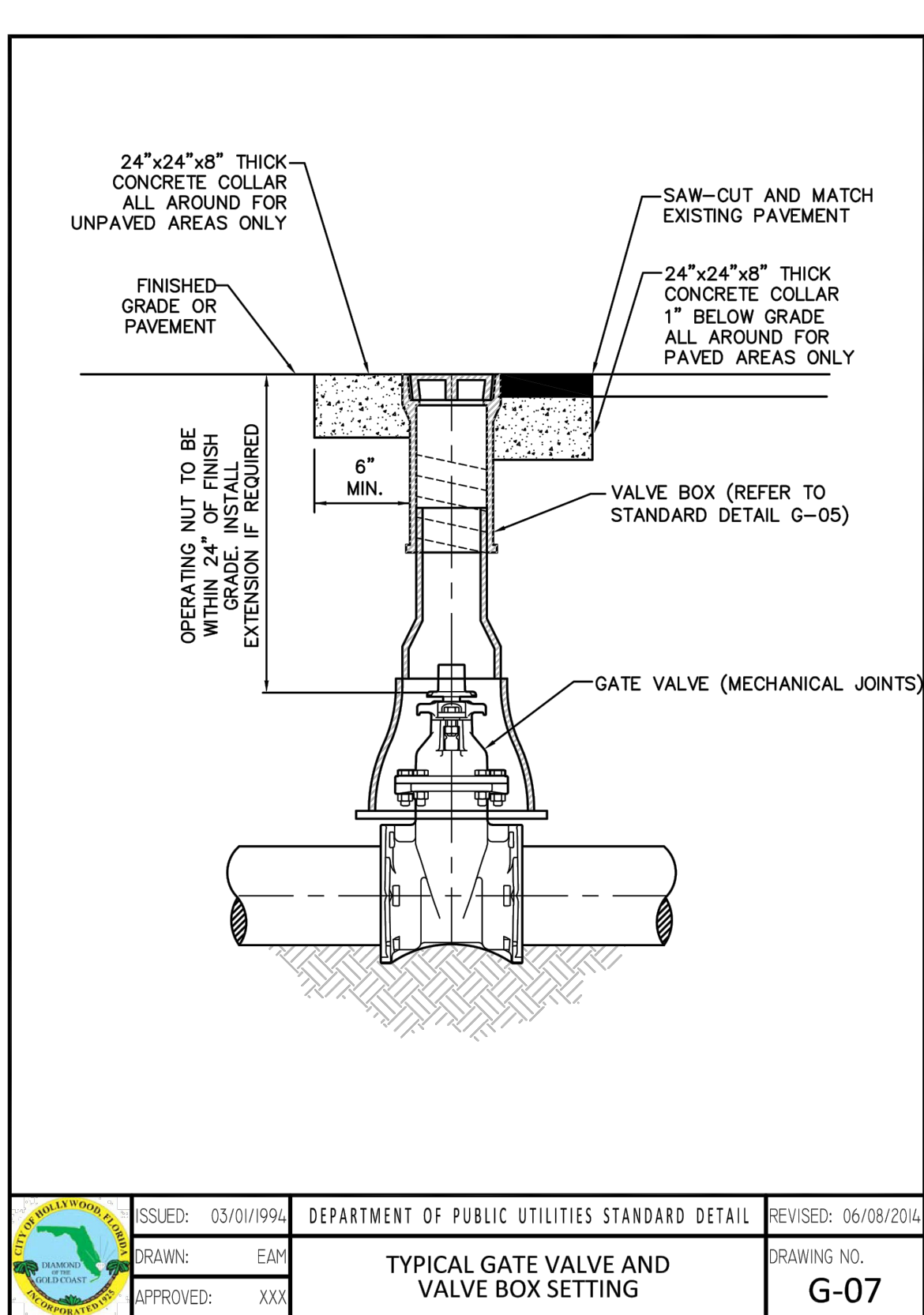
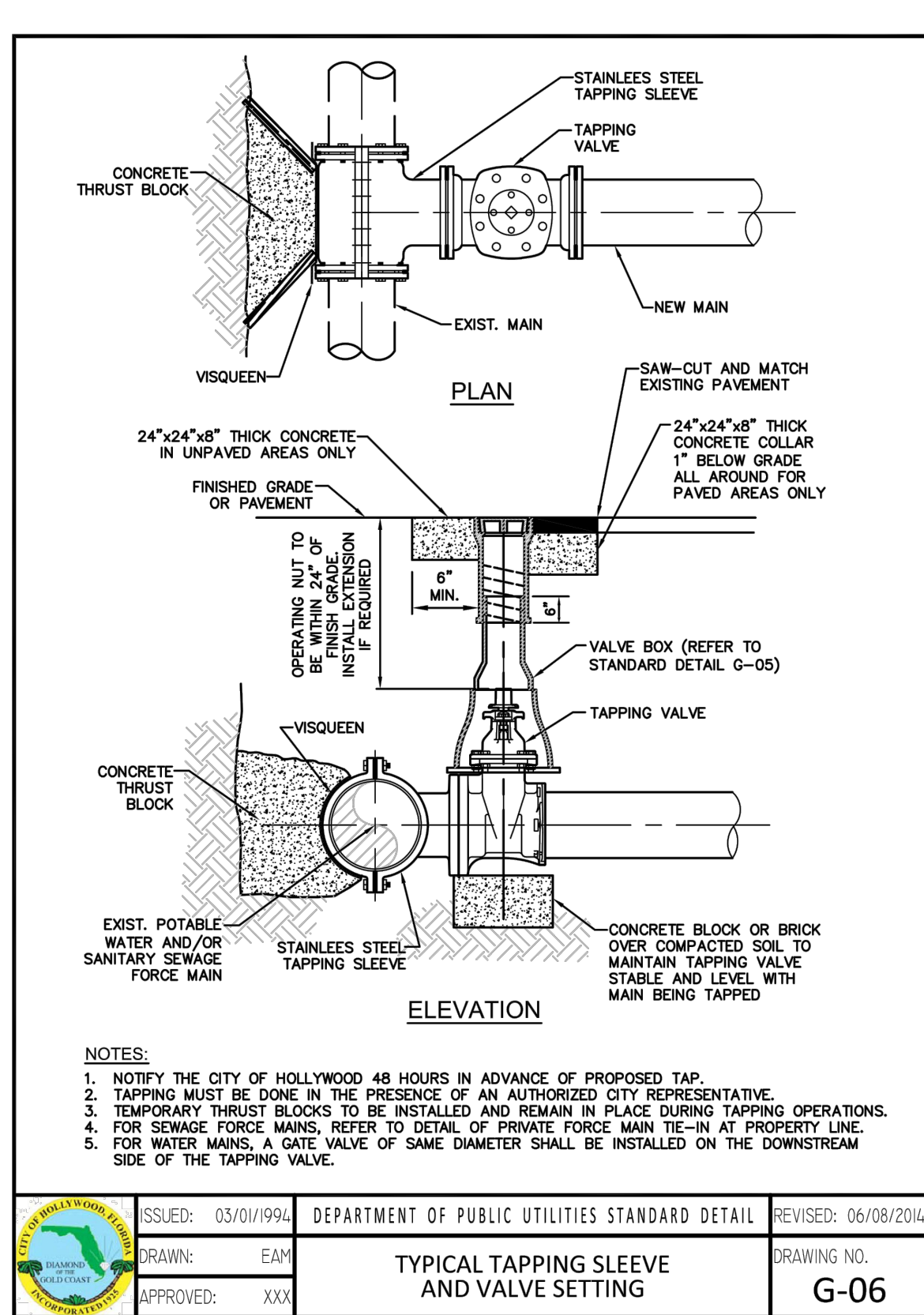
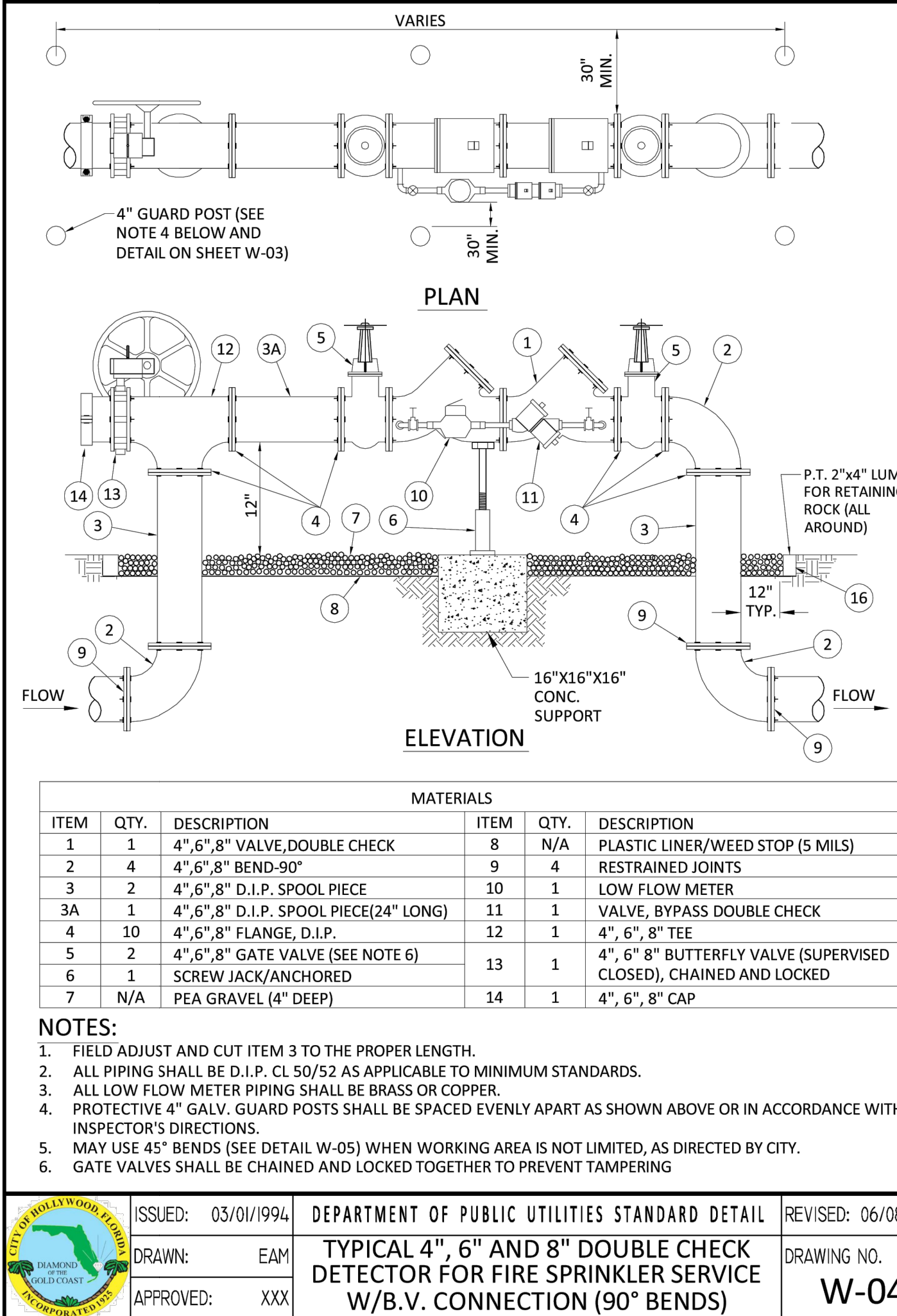
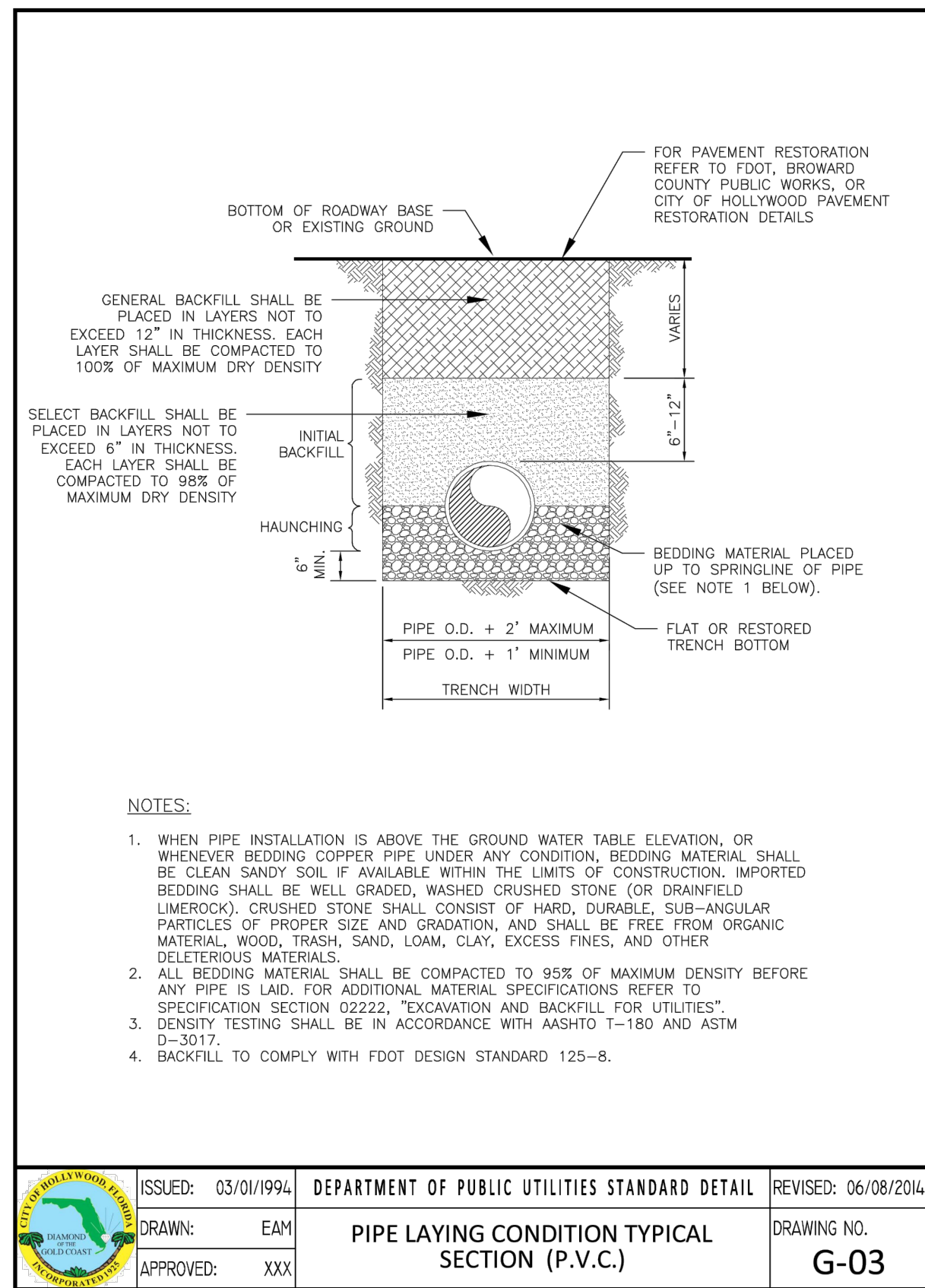
DATE: 12/21/23

SCALE: 1"=40'

SHEET NO.: C10

10 OF 11

PROJECT NO.: 23-04



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

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

UTILITIES DETAILS

SCALE: N.T.S.

REVISIONS

NO.	DATE	DESCRIPTION

ZEPHYR ENGINEERING

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

ZE

9 UNIT TOWNHOMES
720 N 26th AVE
HOLLYWOOD, FL

P.E.#:76036

DATE: 12/21/23

SCALE: N.T.S.

SHEET NO.:

C11

11 OF 11

PROJECT NO.: 23-56