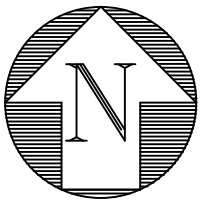
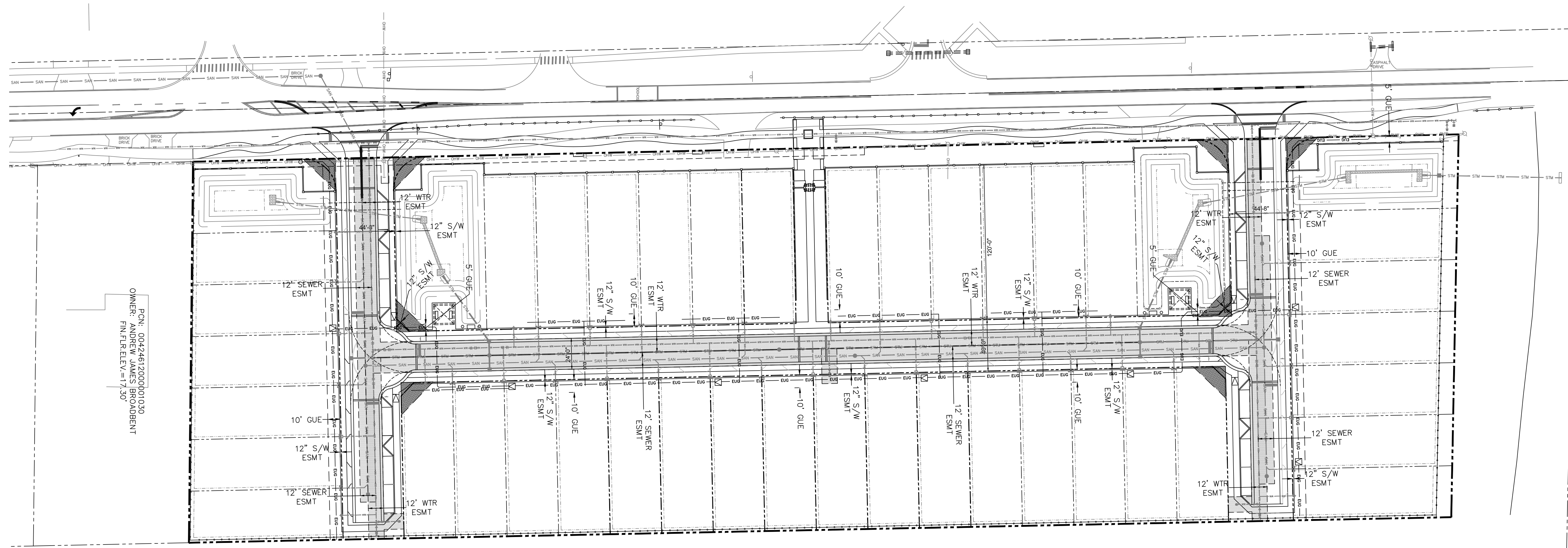
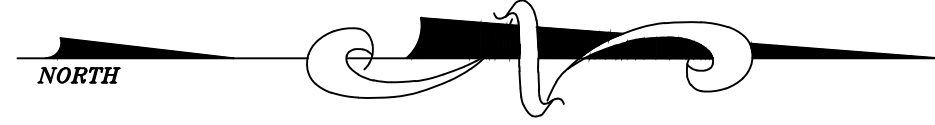


LOCATION MAP
N.T.S.



LEGEND:

- PROPERTY LINE
- STM --- PROPOSED STORM LINE
- SAN --- PROPOSED SANITARY SEWER LINE
- WTR --- PROPOSED WATER LINE
- STM --- EXISTING STORM LINE
- SAN --- EXISTING SANITARY SEWER LINE
- WTR --- EXISTING WATER LINE
- OHW --- EXISTING OVERHEAD LINES
- [Hatched Box] DENOTES AREA OF PROPOSED ASPHALT PAVING
- [Hatched Box] DENOTES AREA PROPOSED 1" MILL & OVERLAY
- [Hatched Box] DENOTES AREA OF PROPOSED BRICK PAVERS SEE DETAIL SHEET 2 - SEE LANDSCAPE PLANS FOR PATTERN
- [Hatched Box] DENOTES AREA OF PROPOSED POOL DECK BY OTHERS - SEE LANDSCAPE PLANS FOR SPECIFICATIONS
- [Hatched Box] DENOTES AREA OF EXISTING PAVEMENT AND BASE TO BE REMOVED & REPLACED WITH CLEAN FILL
- [Hatched Box] DENOTES AREA OF EXISTING PAVEMENT TRENCH REPAIR FOR UTILITY INSTALLATION - SEE DETAIL SHEET 2



PON: 0042461200001030
OWNER: ANDREW JAMES BROADBENT
FIN.FLT.ELEV.=17.50

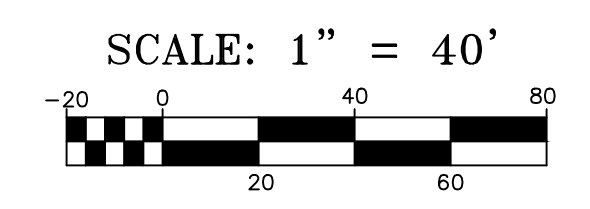
SEE SHEET 2 FOR PAVING & DRAINAGE
SEE SHEET 4 FOR WATER & WASTEWATER

SEE SHEET 3 FOR PAVING & DRAINAGE
SEE SHEET 5 FOR WATER & WASTEWATER

NOTE: CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL IMPROVEMENTS AT TIME OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENVIRODESIGN ASSOCIATES, INC.



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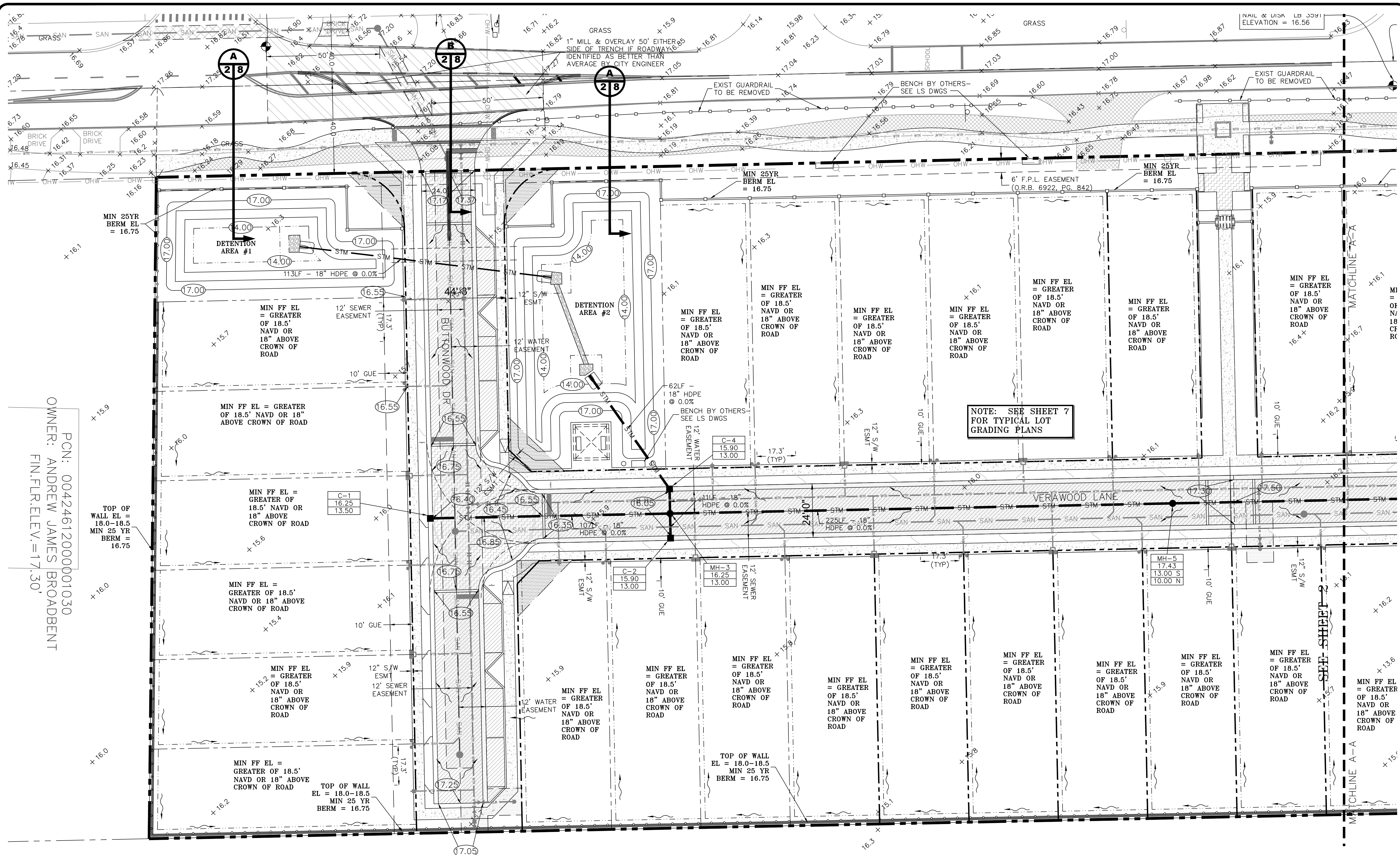
CIVIL SITE IMPROVEMENTS KEY PLAN FOR:
BANYAN COURT
BARWICK ROAD
DELRAY BEACH, FLORIDA

EnviroDesign Associates Inc.
www.envirodesign.com
ENGINEERS • ENVIRONMENTAL CONSULTANTS
FLORIDA CERTIFICATE OF AUTHORIZATION No. 6506
298 Pineapple Grove Way Delray Beach, Florida 33444
Phone: (561) 274-6500 Fax: (561) 274-8558

DRAWN:
B.A.B.
CHECKED:
J.A.P.
DATE:
8/26/20
JOB NO.
19007-ENG
SHEET NO.
1 OF 15



NO.	DATE	REVISIONS:
1	8/26/20	REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION
2	9/12/19	REVISE PER CITY COMMENTS
BY:		
BAB		



PCN: 00424612000001030
 OWNER: ANDREW JAMES BROADBENT
 FIN.FLR.ELEV.=17.30'

NOTE: SEE SHEET 7 FOR TYPICAL LOT GRADING PLANS

LEGEND:

- | | | |
|--|--|---|
| PROPERTY LINE | DENOTES AREA PROPOSED 1" MILL & OVERLAY | DENOTES AREA OF EXISTING PAVEMENT TRENCH REPAIR FOR UTILITY INSTALLATION - SEE DETAIL SHEET 2 |
| SECTION IDENTIFIER
PLAN PAGE DETAIL PAGE | DENOTES AREA OF PROPOSED BRICK PAVERS SEE DETAIL SHEET 2 - SEE LANDSCAPE PLANS FOR PATTERN | PROPOSED CATCH BASIN |
| PROPOSED ELEVATION | DENOTES AREA OF PROPOSED POOL DECK BY OTHERS - SEE LANDSCAPE PLANS FOR SPECIFICATIONS | STRUCTURE TYPE-NUMBER
RIM ELEVATION
INVERT ELEVATION |
| DIRECTION OF FLOW | DENOTES AREA OF EXISTING PAVEMENT AND BASE TO BE REMOVED & REPLACED WITH CLEAN FILL | RENINFORCED CONCRETE PIPE |
| EXISTING ELEVATION | | HIGH-DENSITY POLYETHYLENE PIPE |
| DENOTES AREA OF PROPOSED ASPHALT PAVING | | RETENTION AREA - # |

NOTE: CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL IMPROVEMENTS AT TIME OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENVIRODESIGN ASSOCIATES, INC.

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SCALE: 1" = 20'



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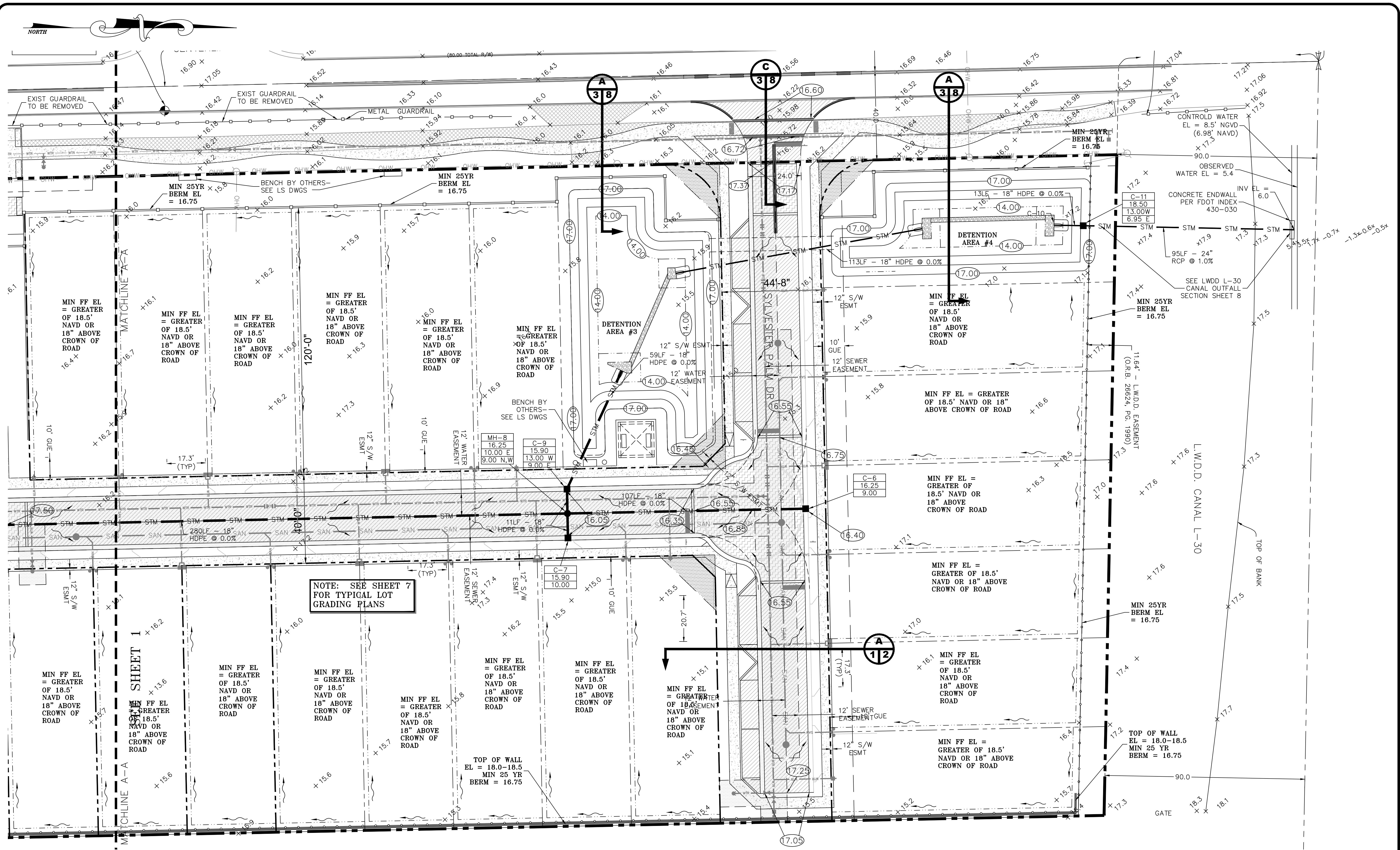
PAVING & DRAINAGE PLAN FOR:
BANYAN COURT
 BARWICK ROAD
 DELRAY BEACH, FLORIDA

ENVIRODESIGN ASSOCIATES, INC.
 ENVIRONMENTAL CONSULTANTS
 ENGINEERS
 FLORIDA CERTIFICATE OF AUTHORIZATION No. 6506
 298 Pineapple Grove Way Delray Beach, Florida 33444
 Phone: (561) 274-6500 Fax: (561) 274-8558

DRAWN: B.A.B.
 CHECKED: J.A.P.
 DATE: 8/26/20
 JOB NO. 19007-ENG
 SHEET NO. 2 OF 15

REVISIONS:
 NO. DATE REVISIONS
 1 9/12/19 REVISE PER CITY COMMENTS
 2 8/26/20 REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION BAB

NOT VALID WITHOUT ENGINEER'S SEAL



LEGEND:

- | | | | | | | | | |
|--|--|--|-----|-----------------------|------|---------------|------|------------------|
| PROPERTY LINE | DENOTES AREA PROPOSED 1" MILL & OVERLAY | DENOTES AREA OF EXISTING PAVEMENT TRENCH REPAIR FOR UTILITY INSTALLATION - SEE DETAIL SHEET 2 | | | | | | |
| SECTION IDENTIFIER
PLAN PAGE DETAIL PAGE | DENOTES AREA OF PROPOSED BRICK PAVERS SEE DETAIL SHEET 2 - SEE LANDSCAPE PLANS FOR PATTERN | PROPOSED CATCH BASIN | | | | | | |
| PROPOSED ELEVATION | DENOTES AREA OF PROPOSED POOL DECK BY OTHERS - SEE LANDSCAPE PLANS FOR SPECIFICATIONS | <table border="1"> <tr><td>C-1</td><td>STRUCTURE TYPE-NUMBER</td></tr> <tr><td>6.00</td><td>RIM ELEVATION</td></tr> <tr><td>3.50</td><td>INVERT ELEVATION</td></tr> </table> | C-1 | STRUCTURE TYPE-NUMBER | 6.00 | RIM ELEVATION | 3.50 | INVERT ELEVATION |
| C-1 | STRUCTURE TYPE-NUMBER | | | | | | | |
| 6.00 | RIM ELEVATION | | | | | | | |
| 3.50 | INVERT ELEVATION | | | | | | | |
| DIRECTION OF FLOW | DENOTES AREA OF EXISTING PAVEMENT AND BASE TO BE REMOVED & REPLACED WITH CLEAN FILL | RCP RENINFORCED CONCRETE PIPE | | | | | | |
| EXISTING ELEVATION | | HDPE HIGH-DENSITY POLYETHYLENE PIPE | | | | | | |
| DENOTES AREA OF PROPOSED ASPHALT PAVING | | RA-1 RETENTION AREA - # | | | | | | |

NOTE: CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL IMPROVEMENTS AT TIME OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENVIRODESIGN ASSOCIATES, INC.



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SCALE: 1" = 20'

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PAVING & DRAINAGE PLAN FOR:
BANYAN COURT
 BARWICK ROAD
 DELRAY BEACH, FLORIDA

ENVIRODESIGN ASSOCIATES, INC.
 ENVIRONMENTAL CONSULTANTS
 FLORIDA CERTIFICATE OF AUTHORIZATION No. 6506
 298 Pineapple Grove Way Delray Beach, Florida 33444
 Phone: (561) 274-6500 Fax: (561) 274-8558

DRAWN: B.A.B.
CHECKED: J.A.P.
DATE: 8/26/20
JOB NO.: 19007-ENG
SHEET NO.: 3 OF 15

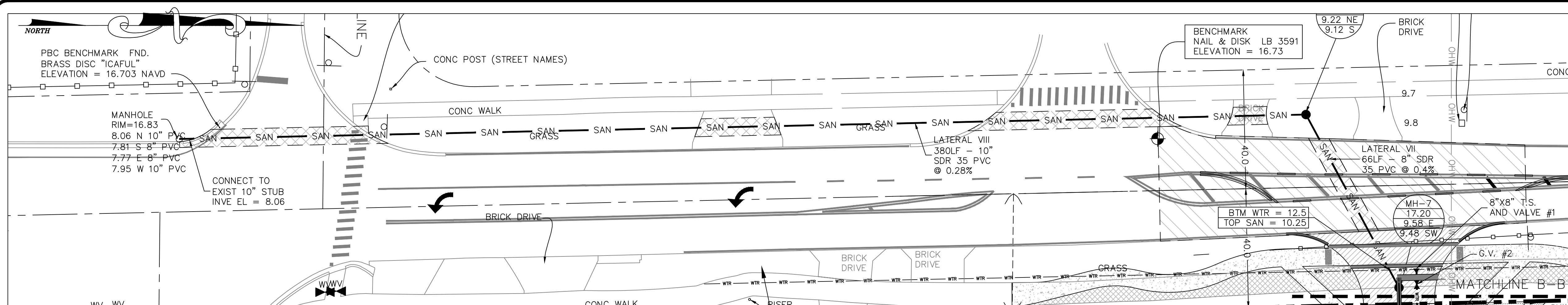
REVISIONS:

NO.	DATE	REVISIONS
1	9/12/19	REVISE PER CITY COMMENTS
2	2/20/20	REVISE PER LWD COMMENTS OF 2/3/20
3	8/26/20	REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION

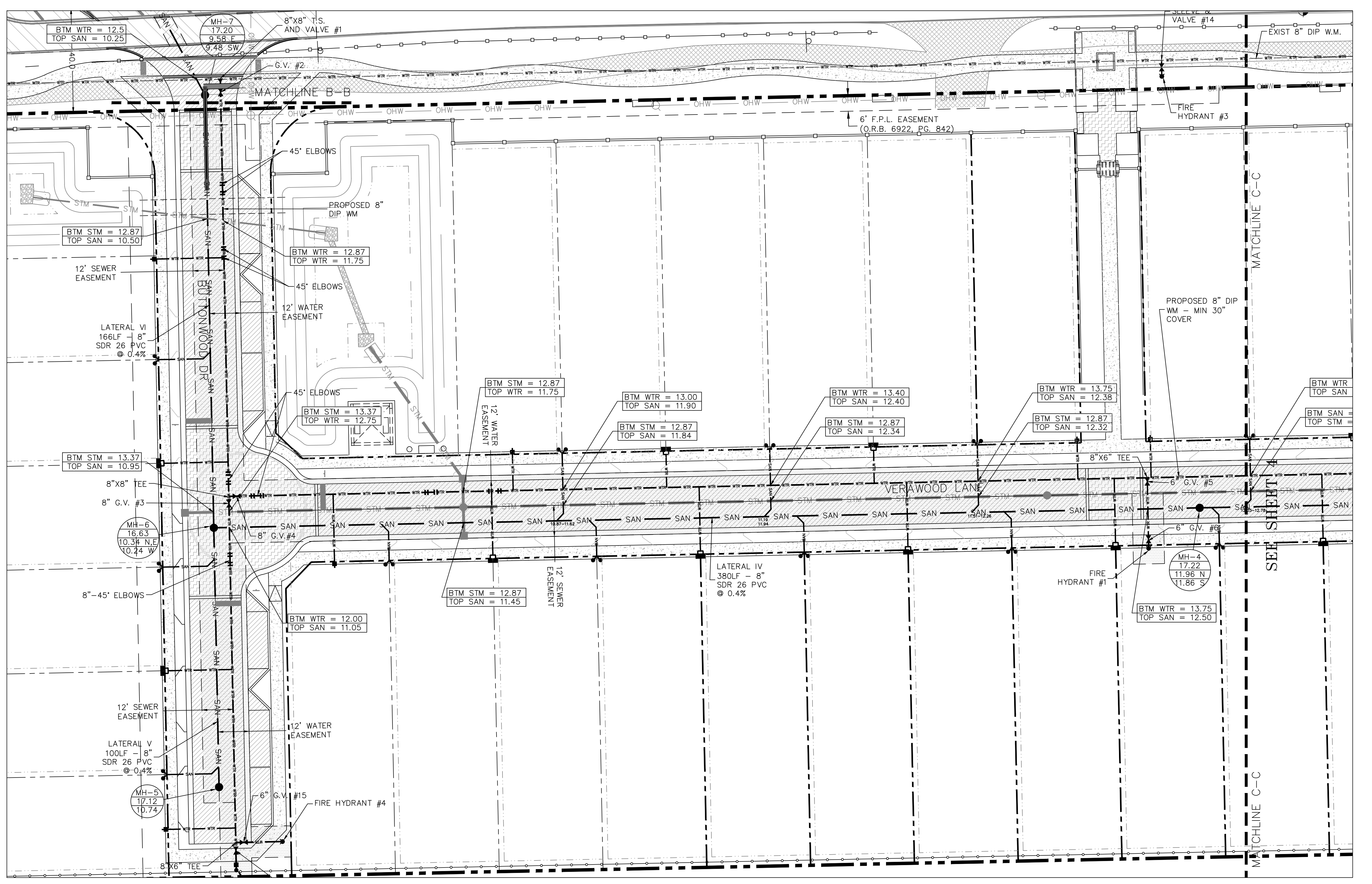
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STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 No. 12576
 Joseph A. Pappalardo

0:\2019\19007-Barwick Court-Banyan Estates-Stellar-DWG\19007-ENG.dwg, 8/26/2020 2:43:31 PM, ARCH full bleed D (24.00 x 36.00 inches)



- LEGEND:**
- PROPERTY LINE
 - ⊥ PROPOSED WATER METER
 - ⊥ PROPOSED WATER METER WITH BACKFLOW PREVENTER
 - ◆ PROPOSED FIRE HYDRANT
 - ⊥ PROPOSED GATE VALVE
 - ⊥ EXISTING GATE VALVE
 - EXISTING MANHOLE
 - SANITARY SEWER CLEANOUT
 - SINGLE SANITARY SERVICE WITH CLEANOUT
 - EXISTING MANHOLE
 - RIM ELEVATION
 - INV EL & DIRECTION
 - INV EL & DIRECTION
 - MANHOLE NUMBER
 - RIM EL
 - INV EL

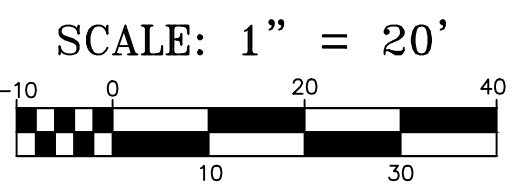


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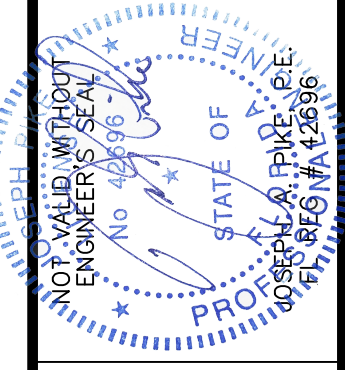
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BY:	DATE:	REVISIONS:
BAB	9/12/19	REVISE PER CITY COMMENTS
BAB	8/26/20	REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION

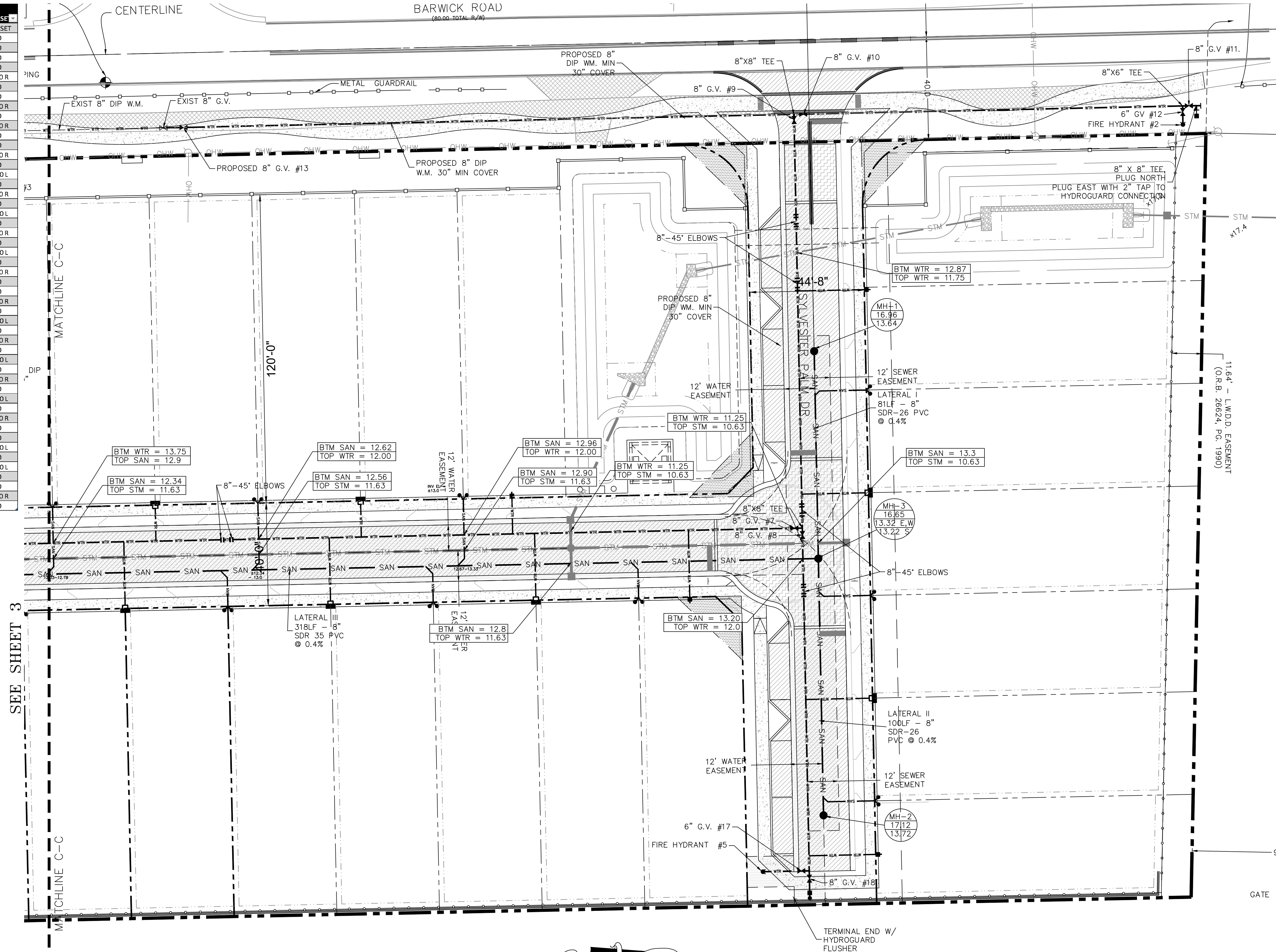


WATER & WASTEWATER PLAN FOR:
BANYAN COURT
BARWICK ROAD
DELRAY BEACH, FLORIDA

EnviroDesign Associates Inc.
www.envirodesign.com
ENGINEERS • ENVIRONMENTAL CONSULTANTS
FLORIDA CERTIFICATE OF AUTHORIZATION No. 6506
298 Pineapple Grove Way Delray Beach, Florida 33444
Phone: (561) 274-8558 Fax: (561) 274-8558

DRAWN: B.A.B.
CHECKED: J.A.P.
DATE: 8/26/20
JOB NO. 19007-ENG
SHEET NO. **4 OF 15**

WATER APPURTENANCES			SEWER APPURTENANCE		
ITEM	STATION	OFFSE	ITEM	STATION	OFFSE
8" X 8" T.S.	14+43.7	8.1 L	EXISTING MANHOLE	10+00	0
8" T.V. #1	14+44.6	7.5 L	MH-8	13+80.0	0
8" G.V. #2	16+19.0	167.8 L	MH-7	14+46.2	0
SERVICE SADDLE	15+09.0	6.0 L	WYE	15+47.8	0
SINGLE SERVICE	15+09.0	20.0 R	DOUBLE SERVICE	15+47.8	20.0 R
SERVICE SADDLE	15+87.7	6.0 L	MH-6	16+13.0	0
DOUBLE SERVICE	15+87.7	18.7 R	WYE	5+14.7	0
8" ELBOW	15+92.2	6.0 L	DOUBLE SERVICE	5+14.7	20.0 R
8" ELBOW	15+96.3	6.0 L	WYE	5+94.7	0
8"X8" TEE	16+01.0	6.0 L	DOUBLE SERVICE	5+94.7	20.0 R
8" G.V. #3	16+03.8	6.0 L	MH-5	6+00.0	0
8" G.V. #4	16+01.0	9.1 L	WYE	16+80.3	0
8" ELBOW	16+28.2	12.0 L	DOUBLE SERVICE	16+80.3	14.0 R
8" ELBOW	16+31.8	12.0 L	WYE	17+47.8	0
SERVICE SADDLE	16+59.2	12.0 L	DOUBLE SERVICE	17+47.8	26.0 L
SINGLE SERVICE	16+59.2	14.0 R	WYE	17+60.3	0
8" ELBOW	16+95.5	12.0 L	DOUBLE SERVICE	17+60.3	14.0 R
8" ELBOW	16+98.8	12.0 L	WYE	18+27.8	0
8" ELBOW	17+19.8	12.0 L	DOUBLE SERVICE	18+27.8	26.0 L
SERVICE SADDLE	17+20.3	12.0 L	WYE	18+40.3	0
DOUBLE SERVICE	17+20.3	12.7 R	DOUBLE SERVICE	18+40.3	14.0 R
8" ELBOW	17+23.3	12.0 L	WYE	19+07.8	0
SERVICE SADDLE	17+28.6	12.0 L	DOUBLE SERVICE	19+07.8	26.0 L
SINGLE SERVICE	17+28.6	26.0 L	WYE	19+20.3	0
SERVICE SADDLE	17+87.8	12.0 L	DOUBLE SERVICE	19+20.3	14.0 R
DOUBLE SERVICE	17+87.8	24.7 L	WYE	19+93.0	0
SERVICE SADDLE	18+00.3	12.0 L	DOUBLE SERVICE	20+00.3	0
DOUBLE SERVICE	18+00.3	12.7 R	DOUBLE SERVICE	20+00.3	14.0 R
SERVICE SADDLE	18+67.8	12.0 L	WYE	20+12.8	26.0 L
DOUBLE SERVICE	18+67.8	24.7 R	DOUBLE SERVICE	20+80.3	0
SERVICE SADDLE	18+80.3	12.0 L	DOUBLE SERVICE	20+80.3	14.0 R
DOUBLE SERVICE	18+80.3	12.7 R	WYE	20+92.8	0
SERVICE SADDLE	19+46.3	12.0 L	DOUBLE SERVICE	20+92.8	26.0 L
SINGLE SERVICE	19+46.3	26.0 L	WYE	21+60.3	0
SERVICE SADDLE	19+60.3	12.0 L	DOUBLE SERVICE	21+60.3	14.0 R
DOUBLE SERVICE	19+60.3	12.7 R	WYE	21+72.8	0
8"X6" TEE	19+73.0	12.0 L	DOUBLE SERVICE	21+72.8	26.0 L
6" G.V. #5	19+73.0	10.5 L	WYE	22+40.3	0
6" G.V. #6	19+73.0	11.7 R	DOUBLE SERVICE	22+40.3	14.0 R
FIRE HYDRANT #1	19+73.0	15.2 R	MH-3	23+10.6	0
SERVICE SADDLE	20+40.3	12.0 L	WYE	30+14.7	0
SINGLE SERVICE	20+40.3	12.7 R	DOUBLE SERVICE	30+14.7	20.0 L
SERVICE SADDLE	20+52.8	12.0 L	WYE	30+94.7	0
DOUBLE SERVICE	20+52.8	24.7 L	DOUBLE SERVICE	30+94.7	20.0 L
8" ELBOW	20+78.7	12.0 L	MH-2	31+00	0
8" ELBOW	20+82.2	12.0 L	WYE	23+75.8	0
SERVICE SADDLE	21+20.3	12.0 L	DOUBLE SERVICE	23+75.8	20.0 R
DOUBLE SERVICE	21+20.3	12.7 R	MH-1	23+91.4	0
SERVICE SADDLE	21+32.8	12.0 L			
DOUBLE SERVICE	21+32.8	24.7 L			
SERVICE SADDLE	21+91.8	12.0 L			
SINGLE SERVICE	21+91.8	26.0 L			
SERVICE SADDLE	22+00.3	12.0 L			
DOUBLE SERVICE	22+00.3	12.7 R			
SERVICE SADDLE	22+60.2	12.0 L			
SINGLE SERVICE	22+60.2	14.0 R			
8" G.V. #7	23+22.6	9.1 L			
8"X8" TEE	23+22.6	6.0 L			
8" G.V. #8	23+19.9	6.0 L			
8" ELBOW	23+27.29	6.0 L			
8" ELBOW	23+31.4	6.0 L			
SERVICE SADDLE	23+35.8	6.0 L			
DOUBLE SERVICE	23+35.8	18.7 R			
SERVICE SADDLE	24+14.9	6.0 L			
SINGLE SERVICE	24+14.9	20.0 R			
8" ELBOW	24+15.7	6.0 L			
8" ELBOW	24+19.2	6.0 L			
8" ELBOW	24+40.6	6.0 L			
8" ELBOW	24+44.1	6.0 L			
8" G.V. #9	24+81.5	6.0 L			
8"X8" TEE	24+83.8	6.0 L			
8" G.V. #10	24+83.8	2.3' R			
8"X6" TEE	24+83.8	145.5 R			
8" G.V. #11	24+83.8	142.3 R			
6" G.V. #12	24+81.5	145.5 R			
FIRE HYDRANT #2	24+76.6	145.5 R			
8"X8" TEE	24+83.8	150.9 R			
8" PLUG	24+83.8	16.2 R			
FLUSHING DEVICE	24+79.8	150.9 R			
8" G.V. #13	20+66.8	172.8 L			
EXIST 8" G.V.	20+59.0	172.8 L			
8"X8" T.S.	19+81.8	172.8 L			
8" T.V. #14	19+81.8	170.1 L			
FIRE HYDRANT #3	19+81.8	166.6 L			
8" ELBOW	5+10.6	6.0 L			
8" ELBOW	5+14.2	6.0 L			
SERVICE SADDLE	5+54.7	6.0 L			
DOUBLE SERVICE	5+54.7	18.7 R			
SERVICE SADDLE	6+15.9	6.0 L			
SINGLE SERVICE	6+15.9	20.0 R			
8"X6" TEE	6+21.5	6.0 L			
6" G.V. #15	6+21.5	9.1 L			
FIRE HYDRANT #4	6+21.5	24.0 L			
6" G.V. #16	6+24.6	6.0 L			
FLUSHING DEVICE	6+32.1	6.0 L			
8" ELBOW	30+10.6	6.0 R			
8" ELBOW	30+14.2	6.0 R			
SERVICE SADDLE	30+54.8	6.0 R			
DOUBLE SERVICE	30+54.8	18.7 L			
SERVICE SADDLE	31+15.6	6.0 R			
SINGLE SERVICE	31+15.6	20.0 L			
8"X6" TEE	31+21.5	6.0 R			
6" G.V. #17	31+21.5	9.1 R			
FIRE HYDRANT #5	31+21.5	24.0 R			
8" G.V. #18	31+24.6	6.0 R			
FLUSHING DEVICE	31+32.1	6.0 R			



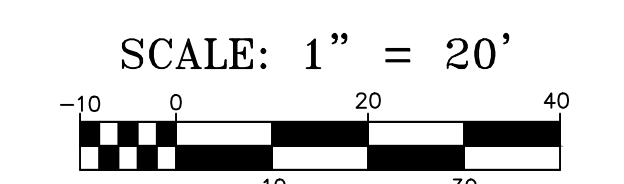
LEGEND:

---	PROPERTY LINE	C.O.	SANITARY SEWER CLEANOUT
↑	PROPOSED WATER METER	○	SINGLE SANITARY SERVICE WITH CLEANOUT
↑	PROPOSED WATER METER WITH BACKFLOW PREVENTER	○	EXISTING MANHOLE
◆	PROPOSED FIRE HYDRANT	○	RIM ELEVATION
⊗	PROPOSED GATE VALVE	○	INV EL & DIRECTION
⊗	EXISTING GATE VALVE	○	INV EL & DIRECTION
○	EXISTING MANHOLE	○	MANHOLE NUMBER
		○	RIM EL
		○	INV EL

NOTE: CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL IMPROVEMENTS AT TIME OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENVIRODESIGN ASSOCIATES, INC.



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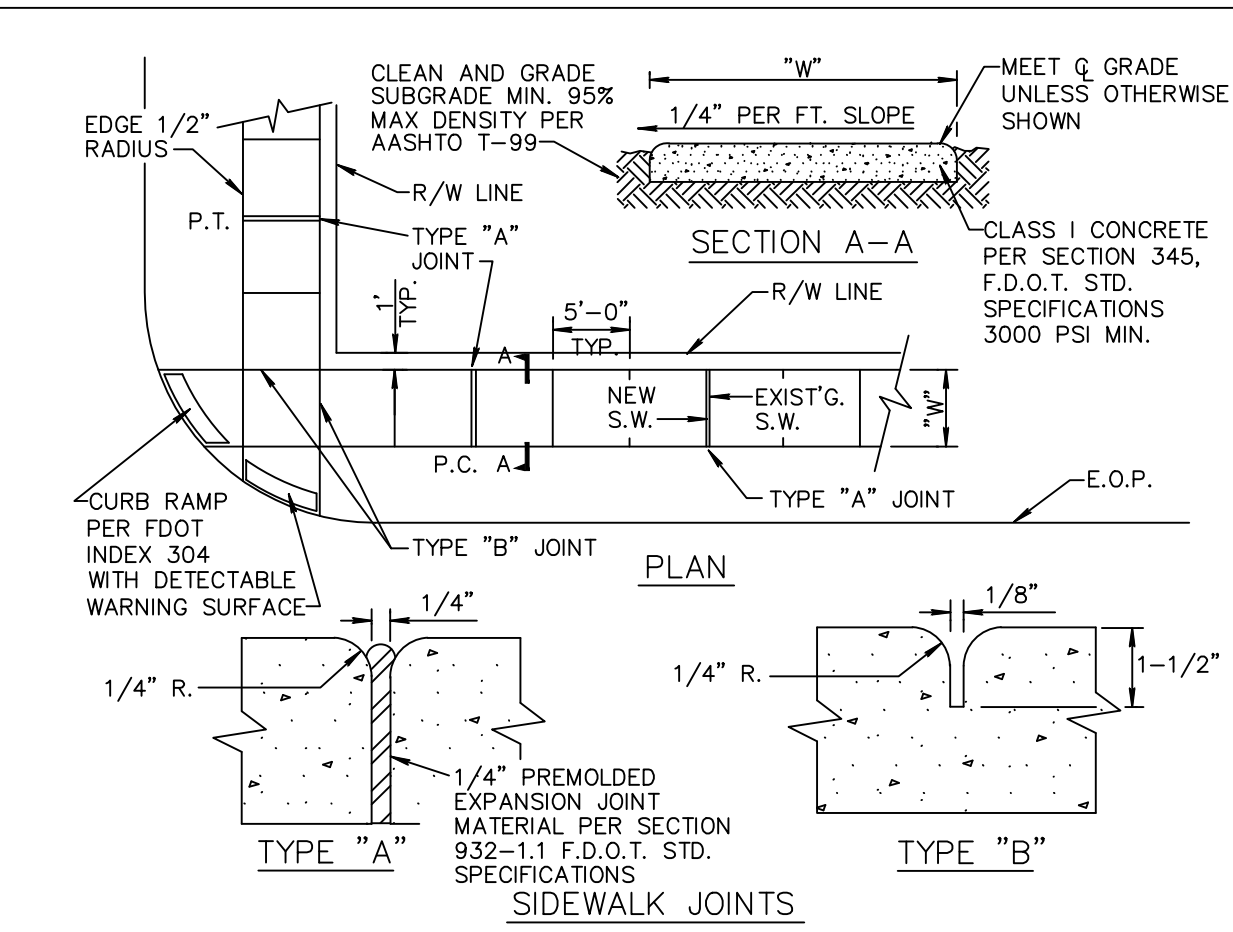
WATER & WASTEWATER PLAN FOR:
BANYAN COURT
BARWICK ROAD
DELRAY BEACH, FLORIDA

ENVIRODESIGN ASSOCIATES, INC.
www.envirodesign.com
ENGINEERS • ENVIRONMENTAL CONSULTANTS
FLORIDA CERTIFICATE OF AUTHORIZATION No. 6506
298 Pineapple Grove Way Delray Beach, Florida 33444
Phone: (561) 274-6500 Fax: (561) 274-8558

DRAWN: B.A.B.
CHECKED: J.A.P.
DATE: 8/26/20
JOB NO.: 19007-ENG
SHEET NO.: 5 OF 15

REVISIONS:
NO. DATE REVISIONS
1 9/12/19 REVISE PER CITY COMMENTS
2 8/26/20 REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION

NOT VALID WITHOUT ENGINEER'S SEAL
STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER
NO. 12486
ENVIRODESIGN ASSOCIATES, INC.

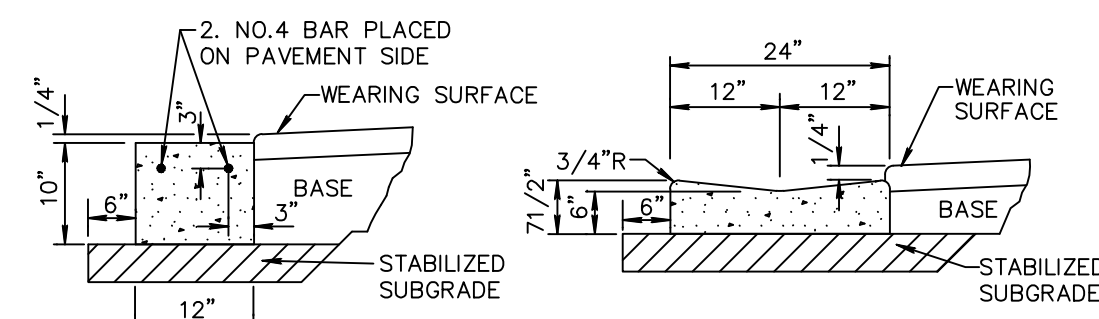


NOTE: 1. ALL SIDEWALKS SHALL BE CONSTRUCTED THRU DRIVEWAYS.
2. ALL SIDEWALKS SHALL INCLUDE ADA COMPLIANT RAMPS @ INTERSECTIONS.
3. ALL SIDEWALKS SHALL INCLUDE CROSS SLOPE AND RUNNING SLOPE IN ACCORDANCE WITH ADA REQUIREMENTS.
4. CURB RAMP DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH OF THE RAMP AND 24" DEEP

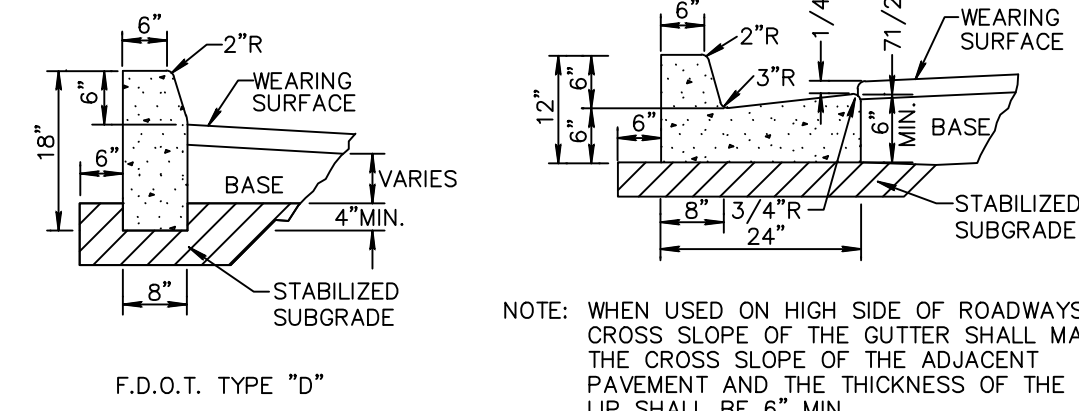
TABLE OF SIDEWALK THICKNESS - "T"	
RESIDENTIAL AREAS	4"
WITHIN 10' OF CROSS-STREETS, AT DRIVEWAYS & OTHER AREAS	6", 9" @ E.O.P.
TABLE OF SIDEWALK WIDTHS - "W"	
SINGLE-FAMILY AREAS	5'
MULTI-FAMILY AREAS	5'
OTHER AREAS AS SPECIFIED BY THE CITY ENGINEER.	

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	P.C. AND P.T. OF CURVES JUNCTION OF EXISTING & NEW SIDEWALKS & EVERY 30'
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS SCORED DURING PLACEMENT OR SAWCUT WITHIN 24 HOURS OF PLACEMENT.
"A"	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES.

SIDEWALK CONSTRUCTION RT 5.1

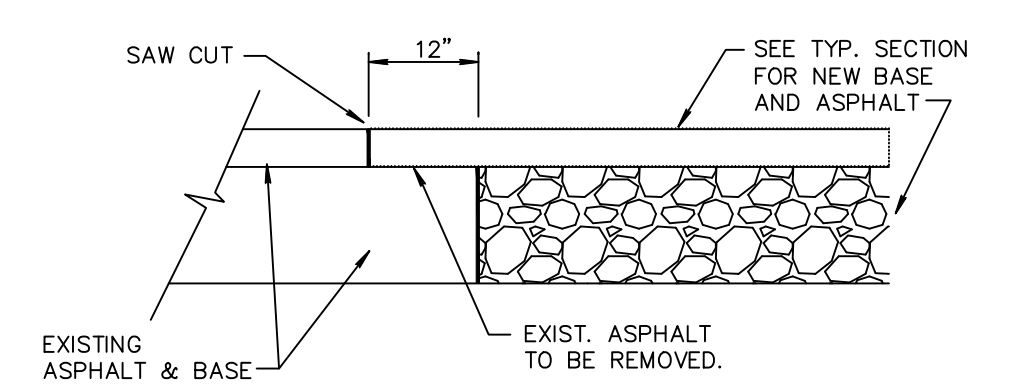


NOTE: SAWCUTS REQUIRED AT 10' CENTERS.



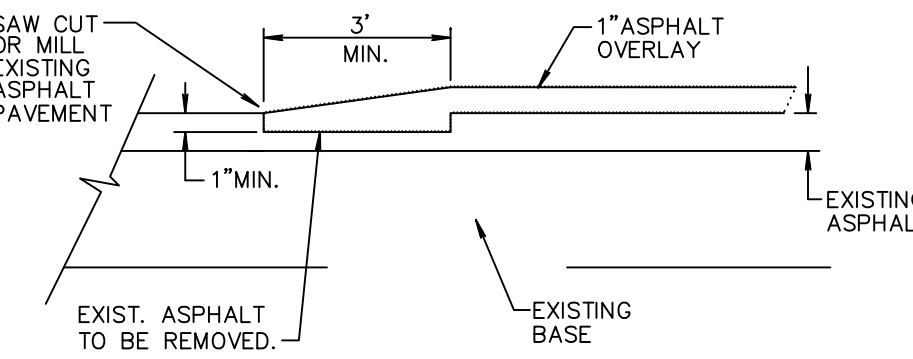
NOTES: 1. ROADWAY SUBGRADE SHALL IN ALL CASES EXTEND BELOW CURBING.
2. SAWCUTS AT 10' CENTERS SHALL BE MADE WITHIN 24 HOURS OF CONCRETE PLACEMENT.

CURB AND GUTTER SECTIONS RT 6.1



NOTE:

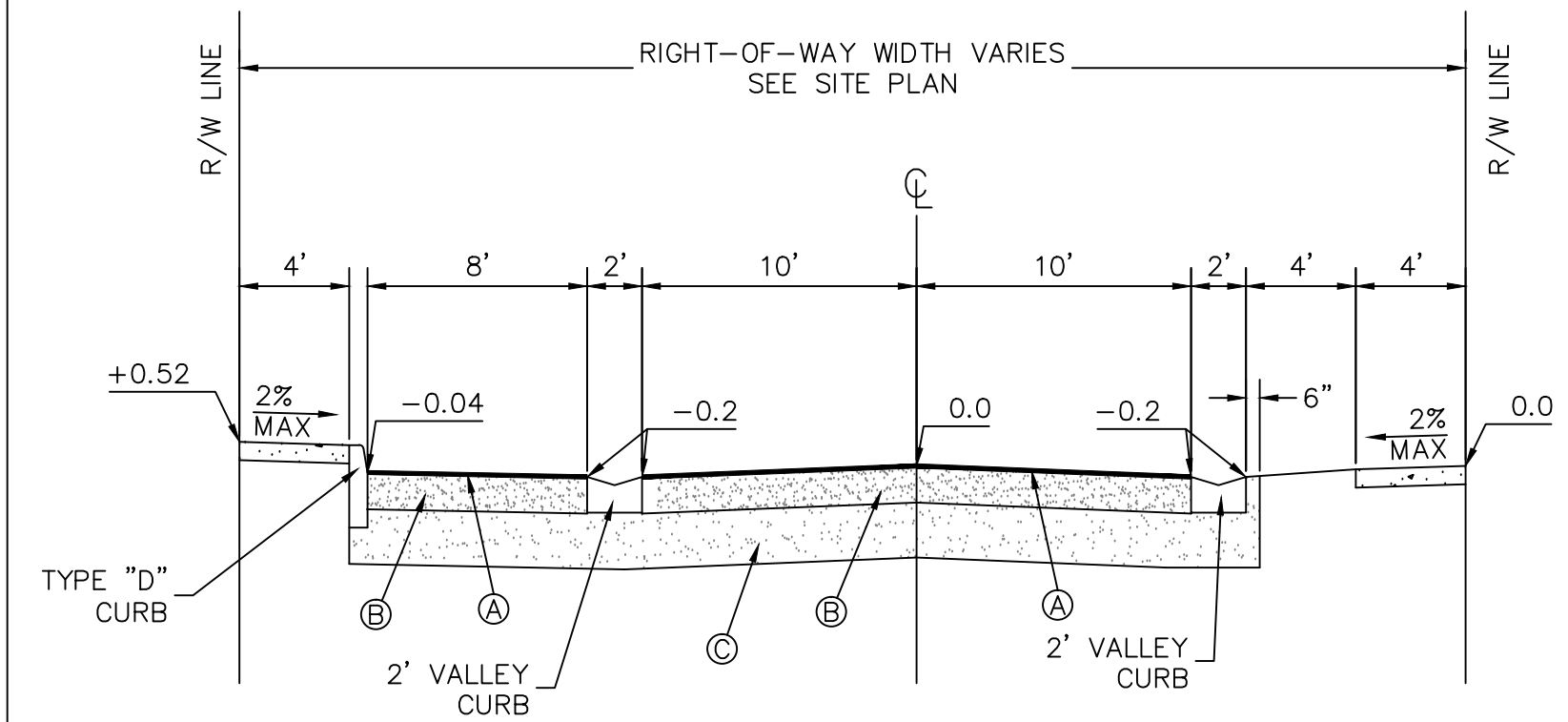
THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT AND BASE WILL BE CONNECTED TO EXISTING PAVEMENT AND BASE.



NOTE:

THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT WILL BE CONNECTED TO EXISTING PAVEMENT.

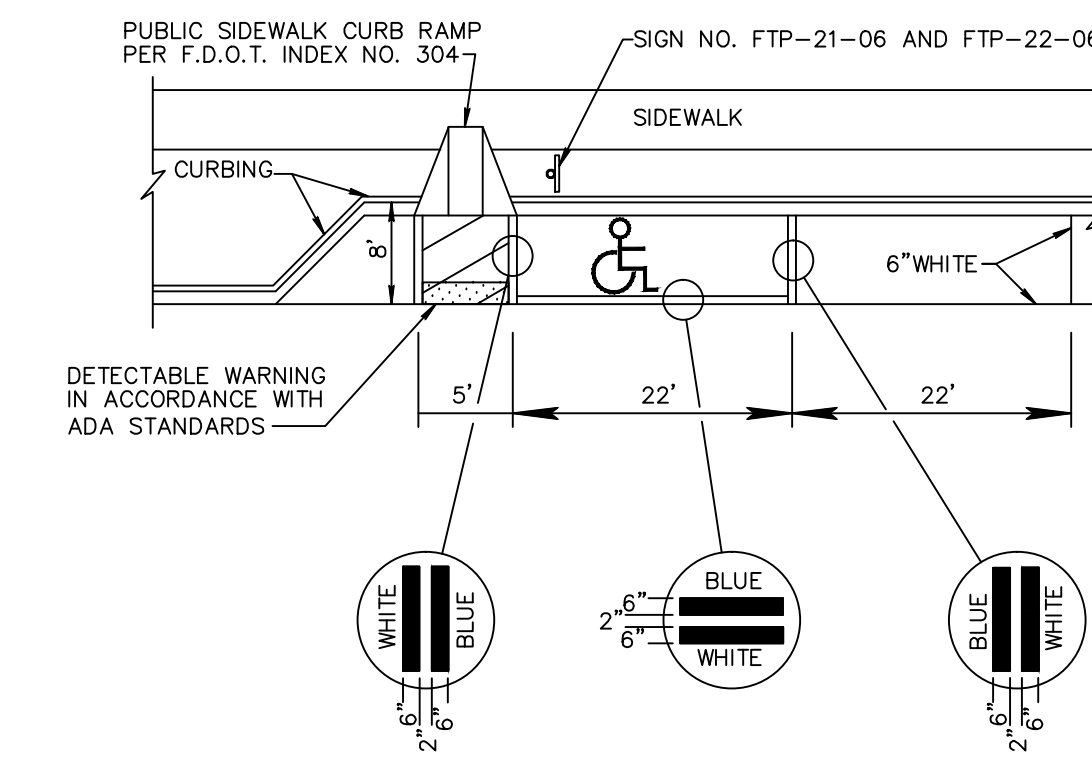
PAVEMENT JOINT DETAIL RT 7.1



- Ⓐ 1 1/2" TYPE SIII ASPHALT (2 LIFTS)
- Ⓑ 8" LIMEROCK BASE COMPACTED TO 98% MAX COMPACTION PER AASHTO T-180. PRIME & TACK COAT PER FDOT SECTION 300.
- Ⓒ 12" STABILIZED SUBGRADE (75 psi FBV) COMPACTED TO 98% MAX DENSITY PER AASHTO T-180.

NOTE: 12" STABILIZED SUBGRADE CAN BE SUBSTITUTED FOR 12" COMPACTED SUBGRADE WITH AN ADDITIONAL 5.5" OF LIMEROCK BASE

TYPICAL RIGHT-OF-WAY SECTION NOT-TO-SCALE



NOTE:

1. HANDICAPPED PARKING SPACE MUST BE FIRST OR LAST PARALLEL PARKING SPACE IN THE ROW, ADJACENT TO LANDSCAPE ISLAND. IF SPACE IS AT THE FRONT OF PARKING ROW ACCESS PANEL MUST BE IN FRONT OF CAR AND IF SPACE IS AT THE END OF PARKING ROW ACCESS PANEL MUST BE AT THE REAR OF CAR.
2. WHEN PARKING SPACE IS ADJACENT TO LANDSCAPE ISLAND SPACE MAYBE REDUCED TO 20' FROM THE STANDARD 22' LENGTH.

TYPICAL PARKING SPACES (3 OF 3) DETAIL RT 4.2c

PAVEMENT MARKING SPECIFICATIONS

All Pavement markings to be installed per these typicals, plans and specifications, and as directed by the City Engineer and shall conform to the requirements of F.D.O.T. and the manual on uniform traffic control devices (MUTCD).

PERMANENT MARKINGS

- Installation:**
- All markings shall be installed by the extruded method.
 - Markings shall be free of weaves, bows, drips, drops, and other degrading items.
 - Chalk shall be used for all layout markings
- Materials:**
- All materials shall be alkyl or hydrocarbon thermoplastic meeting all FDOT specifications.
- Thickness:**
- All markings shall be installed to yield 90 mils of material measured above the pavement surface.
- Spheres:**
- Reflective glass spheres are to be applied to all stripes and markings per FDOT specifications.
- Alternate Material:**
- STAYMARK marking tape, or equivalent may be used, as approved or directed by the City Engineer.
- Layout:**
- Layout shall be made using marking chalk.
 - It is recommended that marking layout be inspected by the City Engineer prior to the placement of final markings.

TEMPORARY MARKINGS

- Temporary markings may be used only as specified in this section, or as approved or directed by the City Engineer.
- Final Pavement Surface:**
- Only foil backed marking tape is allowed.
 - All tape shall be totally removed concurrent with permanent marking placement.
- Other Pavement Surfaces:**
- Intermediate pavement surfaces may be marked with FDOT approved materials, designs, and specifications.

PAVEMENT MARKING SPECIFICATIONS RT 8.1a (Sheet 1 of 2)

ALL PAVEMENT MARKINGS

All paved surfaces shall be properly marked prior to the hours of darkness.

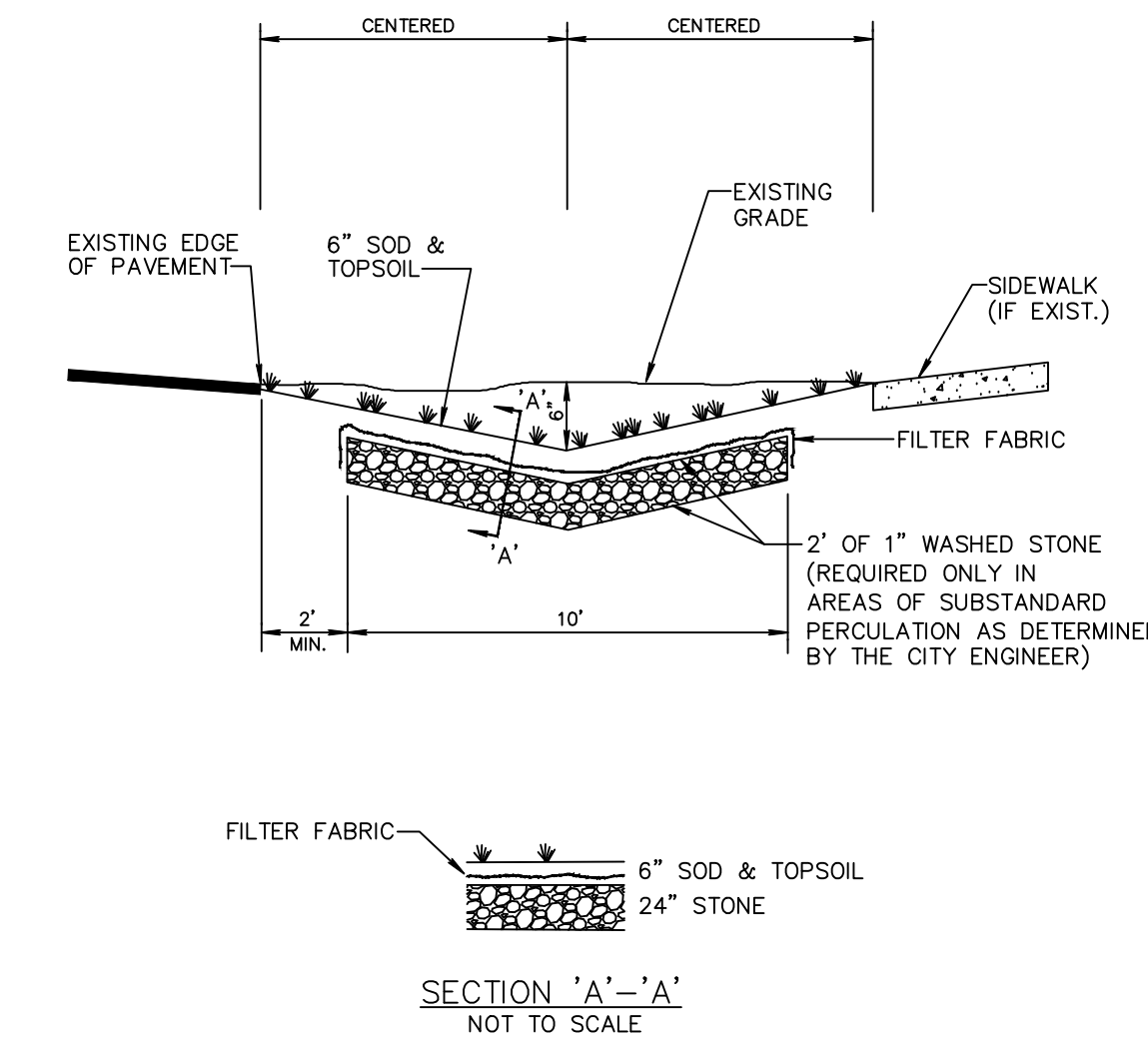
RAISED PAVEMENT MARKERS

- R.P.M.s shall be installed on all lane lines and centerlines, spaced at 20' or 40'.
- R.P.M.s shall be a 4 x 4 type class "B" marker meeting F.D.O.T. specifications and shall be approved by the City Engineer prior to use.
- R.P.M.s shall be installed using alkyl thermoplastic on asphalt and epoxy on concrete.

OTHER NOTES

- All Materials within right-of-way shall be thermoplastic and per F.D.O.T. specifications.
- Pavement marking within private parking lots may be painted according to F.D.O.T. specifications, except for all stop bars adjacent to public right-of-way.

PAVEMENT MARKING SPECIFICATIONS RT 8.1b (Sheet 2 of 2)



NOTE:

1. CONTRACTOR TO REPLACE ALL IRRIGATION, TREES & SHRUBBERY IN SWALES DAMAGED DURING CONSTRUCTION.

SWALE REPLACEMENT DETAIL D10.1

PAVING & DRAINAGE DETAILS FOR:
BANYAN COURT
BARWICK ROAD
DELRAY BEACH, FLORIDA

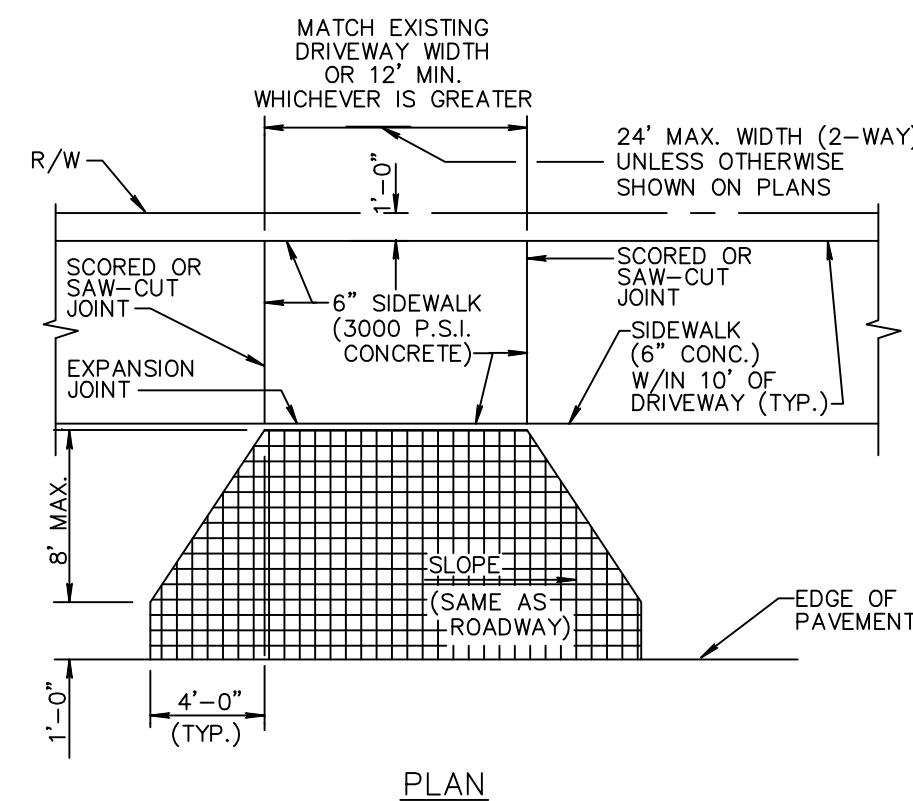
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298 Pineapple Grove Way Delray Beach, Florida 33444
Phone: (561) 274-6500 Fax: (561) 274-8558

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CHECKED:
J.A.P.
DATE:
8/26/20
JOB NO.
19007-DTL
SHEET NO.
6 OF 15

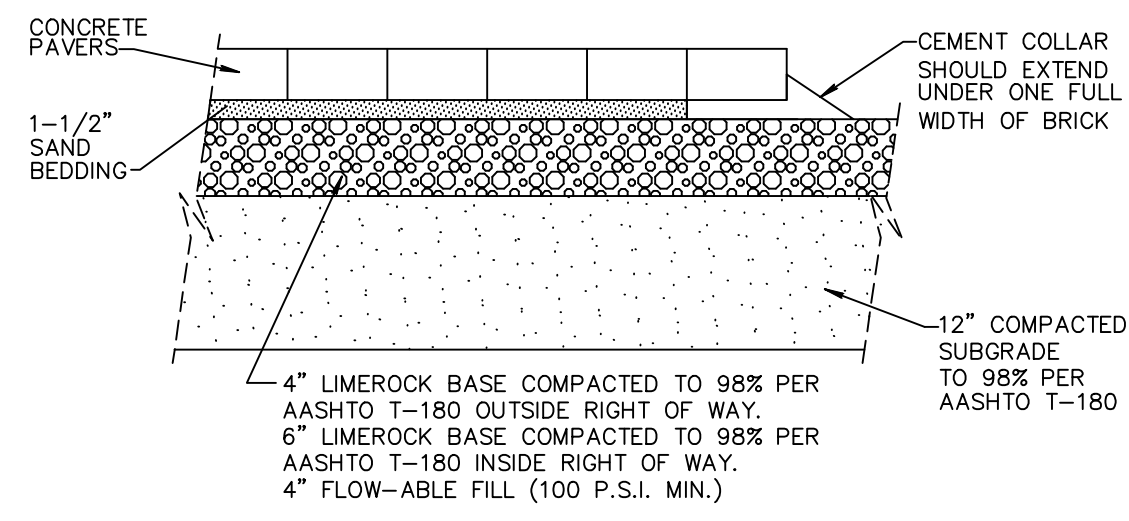


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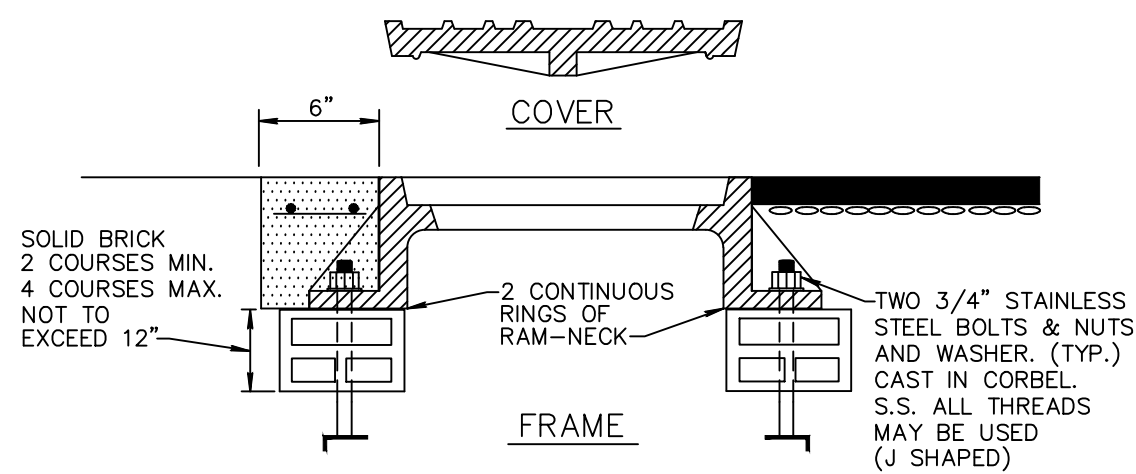
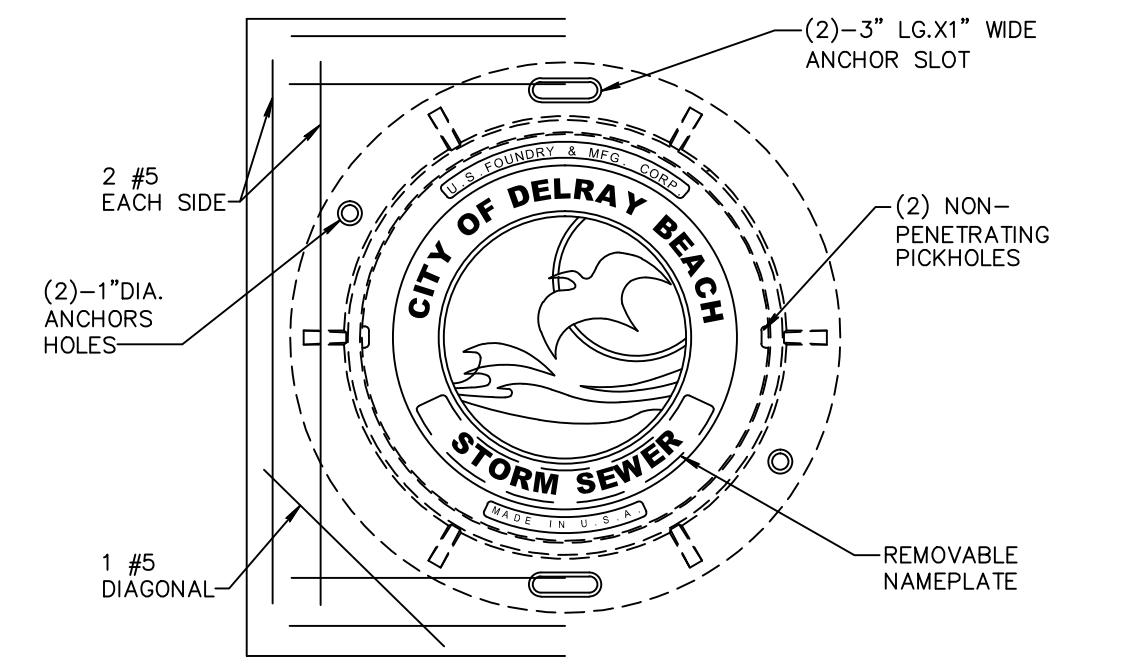
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NOTE: SIDEWALK SHALL BE CONSTRUCTED THROUGH DRIVEWAY.

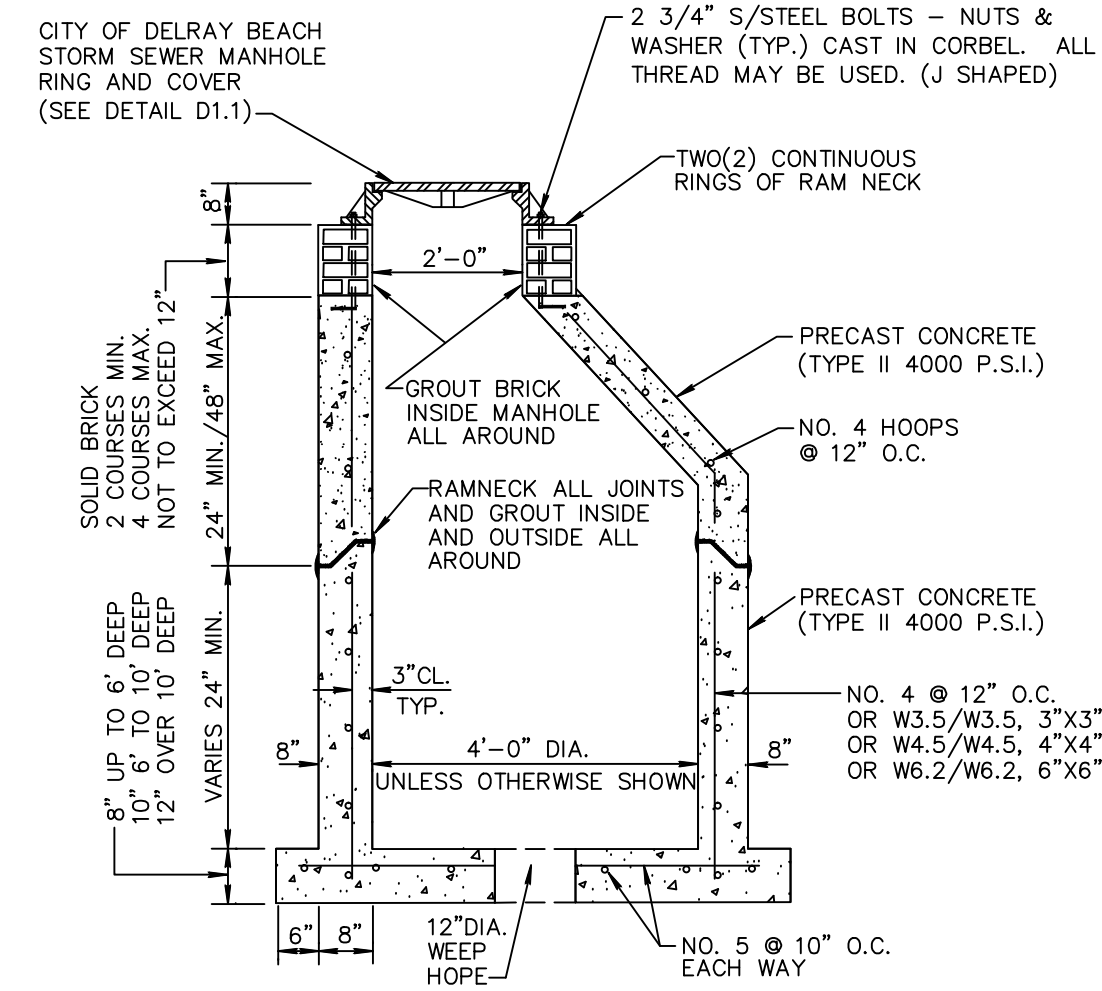


PAVER DRIVEWAY APRON TYPICAL DETAIL RT10.2



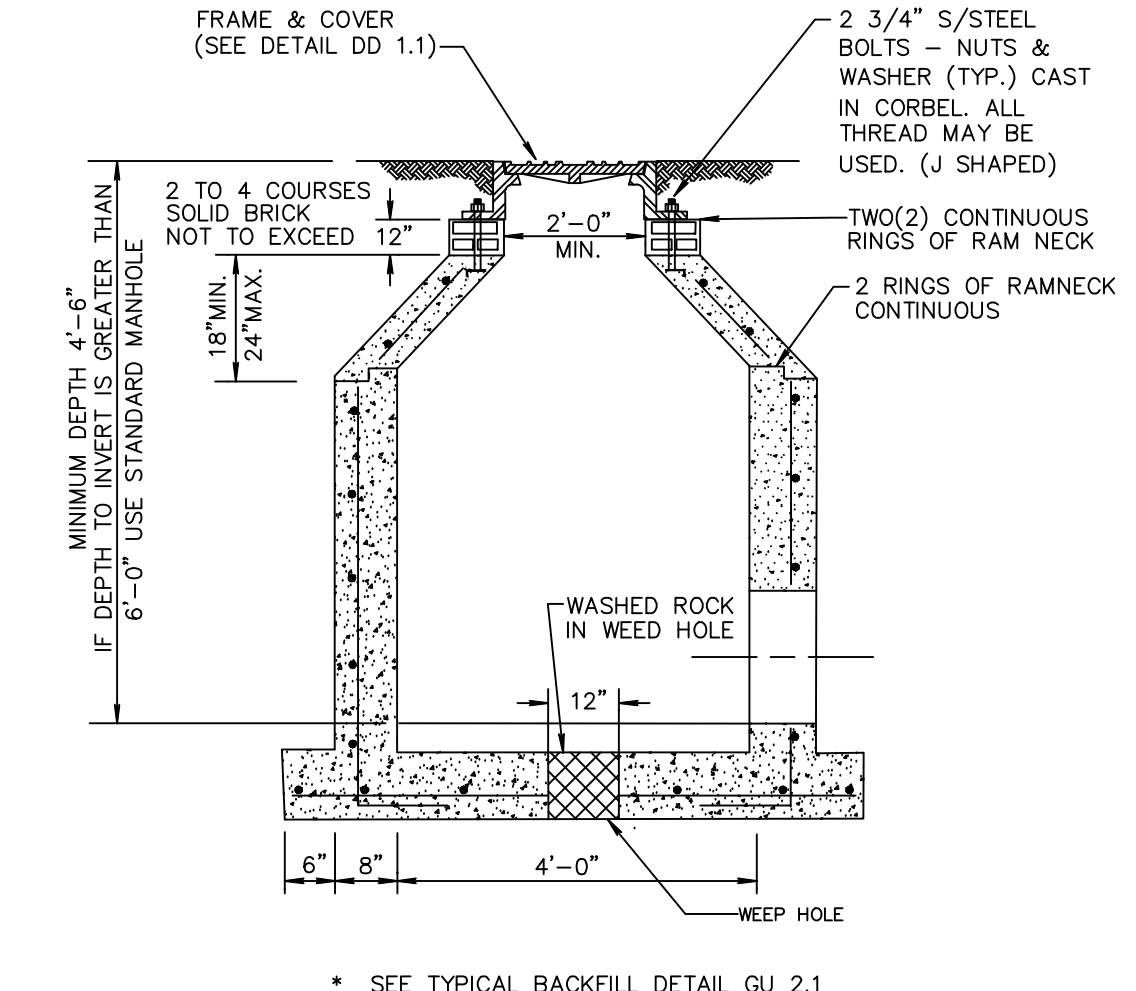
NOTES:
 1. COLLAR IS REQUIRED ONLY WHEN MANHOLE IS OUT OF PAVEMENT.
 2. FRAME AND COVER SHALL BE U.S. FOUNDRY MR-ORS AND RING SHALL BE USF 576
 3. MANHOLE ADJUSTING RINGS SHALL BE CAST IRON, USF TYPE B.
 4. CITY LOGO LID TO BE USED ON CITY MAINTAINED STORM SEWER ONLY. STANDARD NO. 576BH IS TO BE USED ON PRIVATELY MAINTAINED STORM SEWER.

STORM SEWER MANHOLE FRAME & COVER DETAIL D 1.1



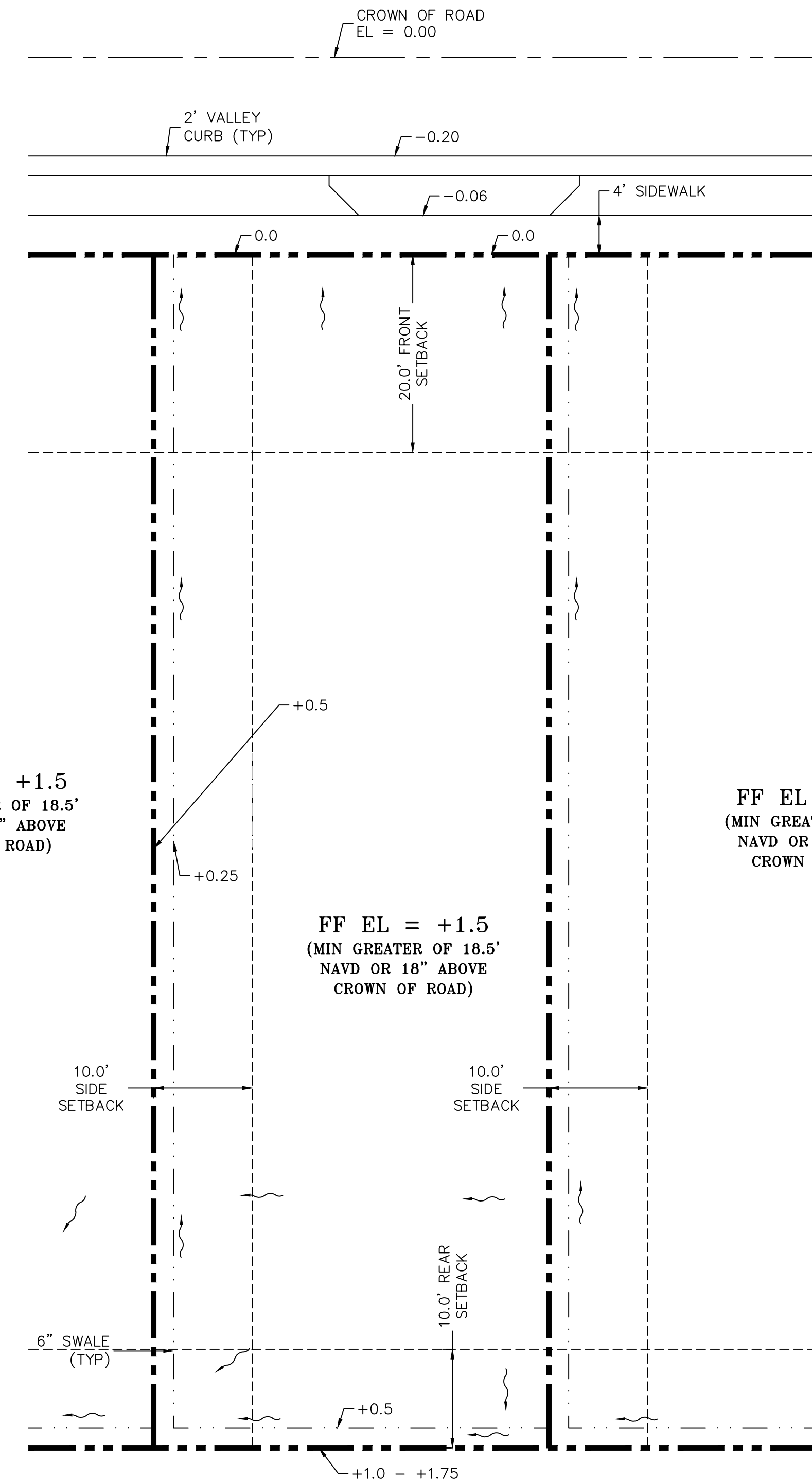
NOTES:
 1. FOR PIPES UP TO 36" R.C.P.
 2. 12" DIA. WEEP HOLE REQUIRED ON ALL STRUCTURES WHICH HAVE BOTTOM ELEVATIONS ABOVE THE WATER TABLE. HARDWARE CLOTH SHALL BE PROVIDED ABOVE BEDDING ROCK AND UNDER WEEP HOLE, EXCEPT IN WELL FIELDS.
 3. 18" SUMP REQUIRED ON ALL STRUCTURES.
 4. IF THE STRUCTURE IS INSTALLED IN WATER TABLE MUST HAVE BEDDING. (SEE DETAIL BEDDING D 3.1)

STORM SEWER MANHOLE DETAIL D 2.1a

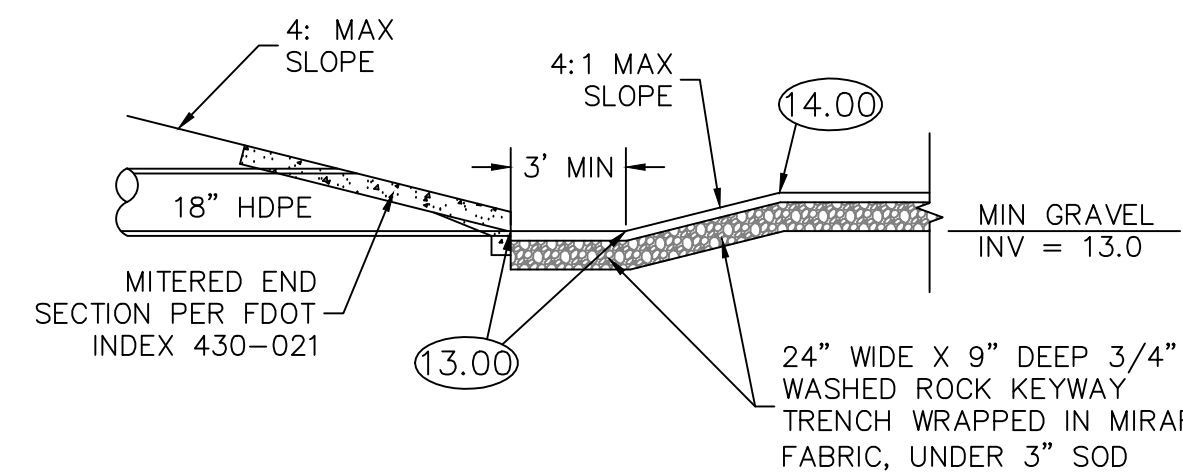


NOTE:
 1. ALL STANDARD MANHOLE NOTES AND DETAILS ARE APPLICABLE. (SEE DETAIL D 2.1a)
 2. IF THE STRUCTURE IS INSTALLED IN WATER TABLE MUST HAVE BEDDING. (SEE DETAIL BEDDING D 3.1)

SHALLOW MANHOLE DETAIL D 2.1b



TYPICAL LOT GRADING PLAN NOT-TO-SCALE



MITERED ENDWALL/KEYWAY GRAVEL DITCH DETAIL NOT-TO-SCALE

NO.	DATE	REVISIONS
1	7/23/19	ADD TYP LOT DETAIL AND MITERED END/KEY DITCH
2	8/26/20	REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION

PAVING & DRAINAGE DETAILS FOR:
BANYAN COURT
BARWICK ROAD
DELRAY BEACH, FLORIDA

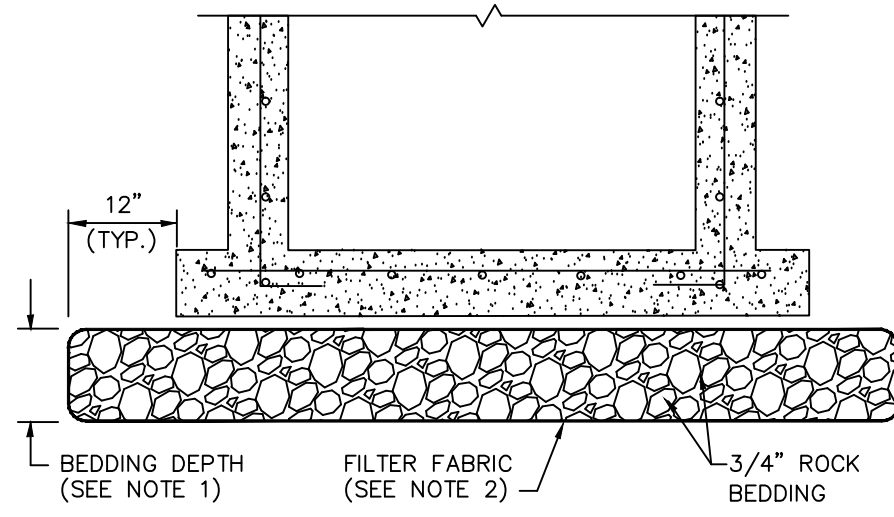
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CHECKED: J.A.P.
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SHEET NO. 7 OF 15



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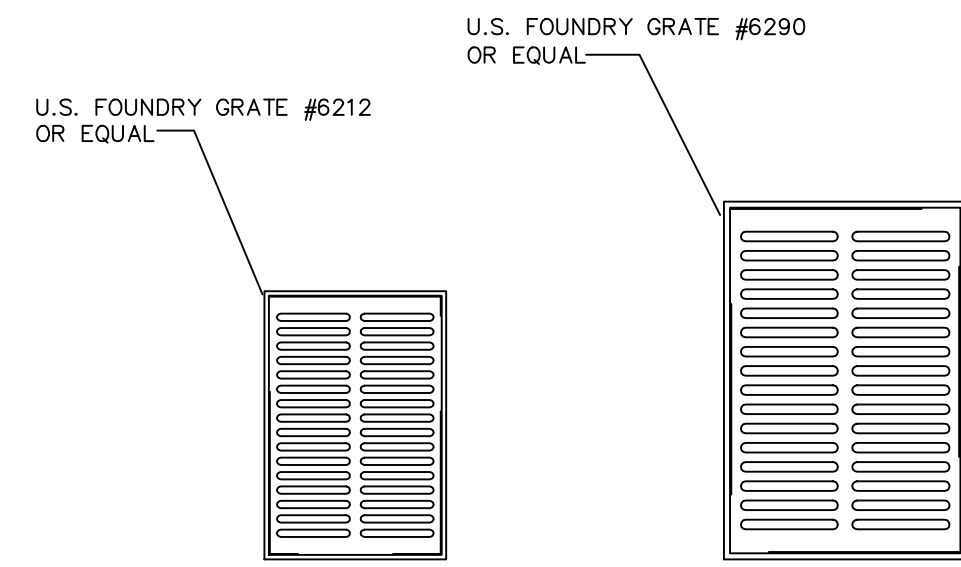


NOTES:

1. BEDDING DEPTH SHALL BE 10" UNDER DRAINAGE STRUCTURES AND 18" UNDER SANITARY STRUCTURES.
2. ROCK SHALL BE WRAPPED IN FILTER FABRIC THAT MEETS THE REQUIREMENTS OF F.D.O.T. SPECIFICATION SECTION 985.

STANDARD BEDDING D 3.1

INLET TYPE	DIMENSIONS		GRATE TYPE	MAX. PIPE SIZE	
	A	B		WALL A	WALL B
'C'	2'-0"	3'-1"	U.S. FOUNDRY No. 6212	15" R.C.P.	24" R.C.P.
'E'	3'-0"	4'-5"	U.S. FOUNDRY No. 6290	24" R.C.P.	36" R.C.P.



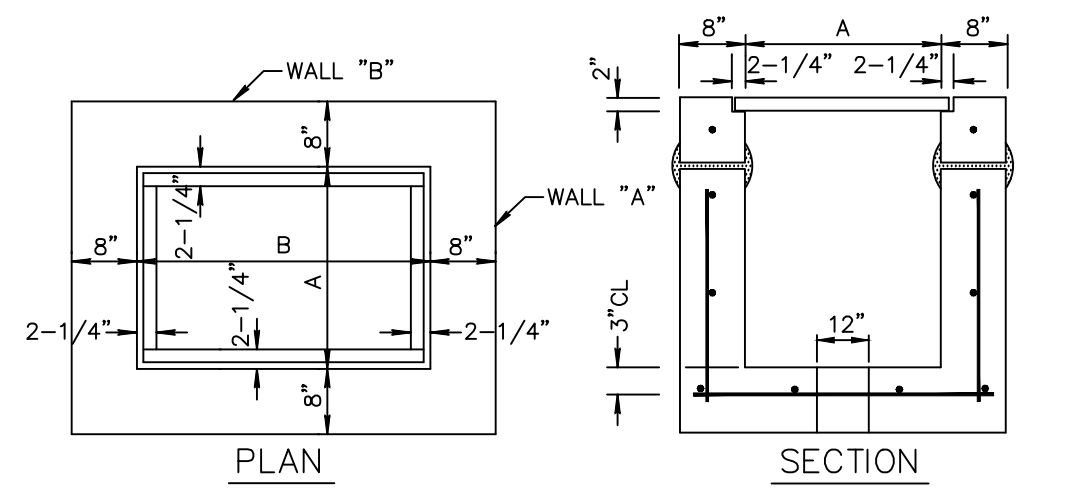
TYPE "C"

TYPE "E"

NOTES:

1. ALL GRATES SHALL BE SUITABLE FOR H-20 LOADING (HIGHWAY TRAFFIC LOADS)
2. WHEN INSTALLED IN PAVEMENT OR WITHIN 6' OF PAVEMENT USE U.S.F. 4160-6210

TYPE C & E INLET GRATE DETAIL D 6.1

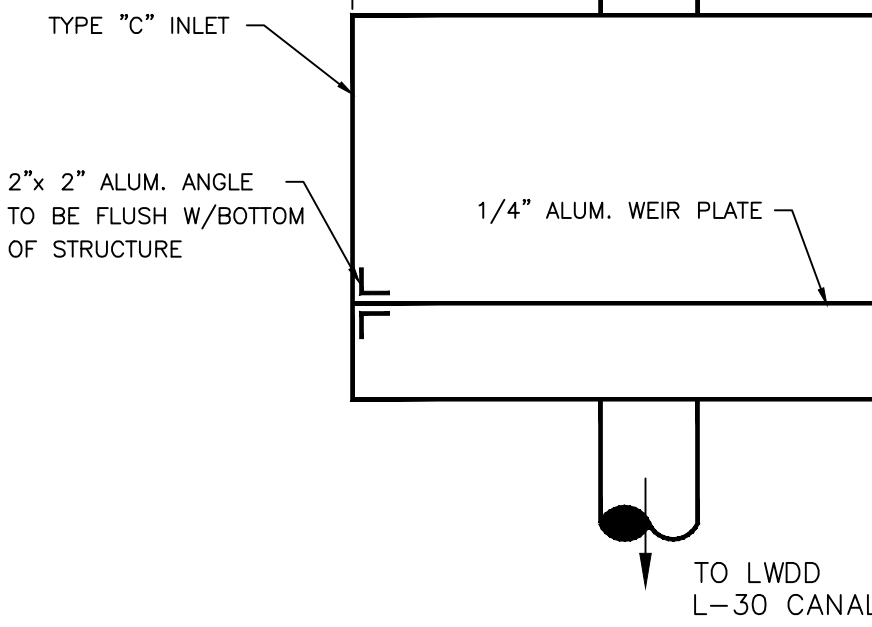
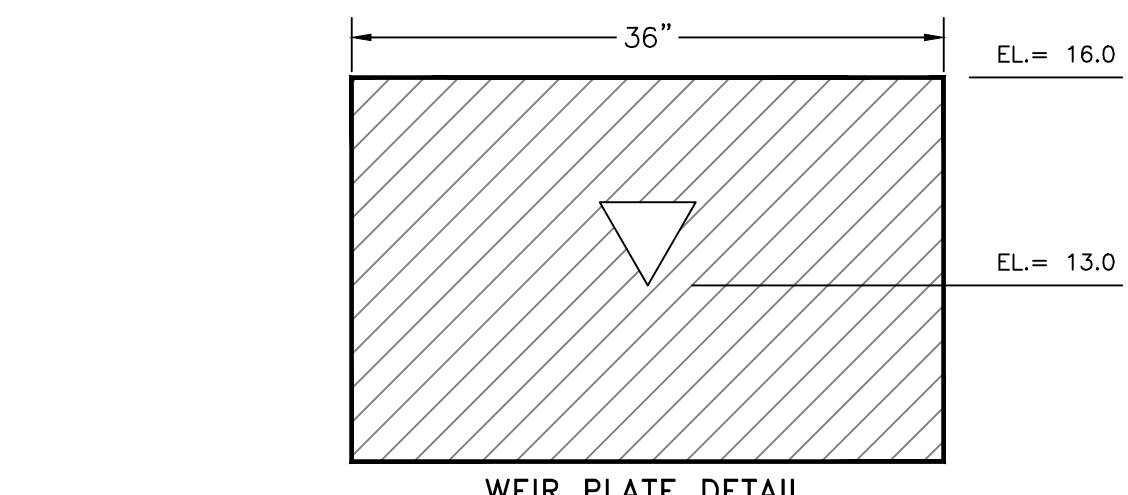


INLET TYPE	DIMENSIONS		GRATE TYPE	MAX. PIPE SIZE	
	A	B		WALL A	WALL B
'C'	2'0"	3'1"	U.S. FOUNDRY NO. 6212	15" R.C.P.	24" R.C.P.
'E'	3'0"	4'6"	U.S. FOUNDRY NO. 6290	24" R.C.P.	36" R.C.P.

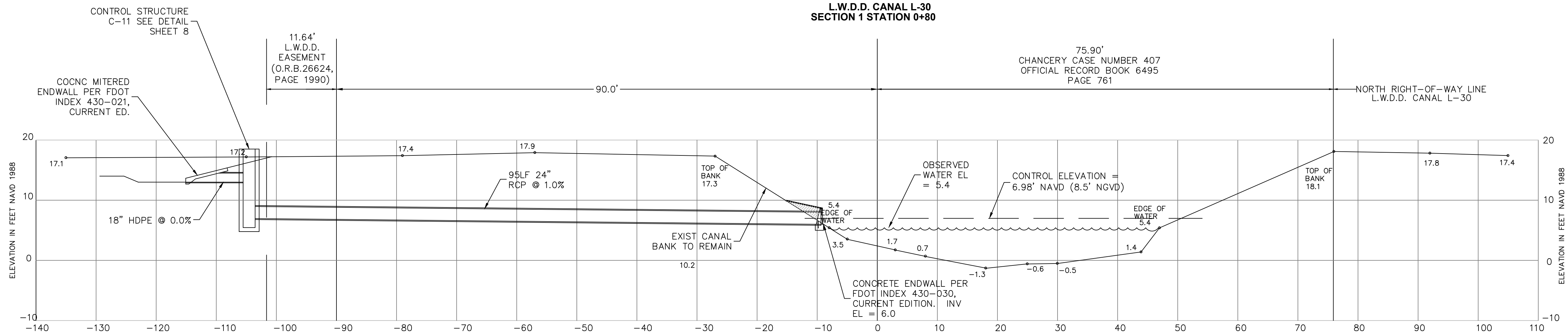
NOTES:

1. INLET TO BE PRECAST WITH CLASS 'A' 4000 P.S.I. CONCRETE.
2. ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4".
3. 12" DIA. WEEP HOLE REQUIRED ON ALL STRUCTURES WHICH HAVE A BOTTOM ELEVATION ABOVE THE WATER TABLE EXCEPT IN WELLFIELDS.
4. 18" SUMP REQUIRED IN ALL DRAINAGE STRUCTURES.
5. SEE BEDDING DETAIL D 3.1
6. ALL STRUCTURES TO BE 4 SIDED ANGLE SHOULDERS.

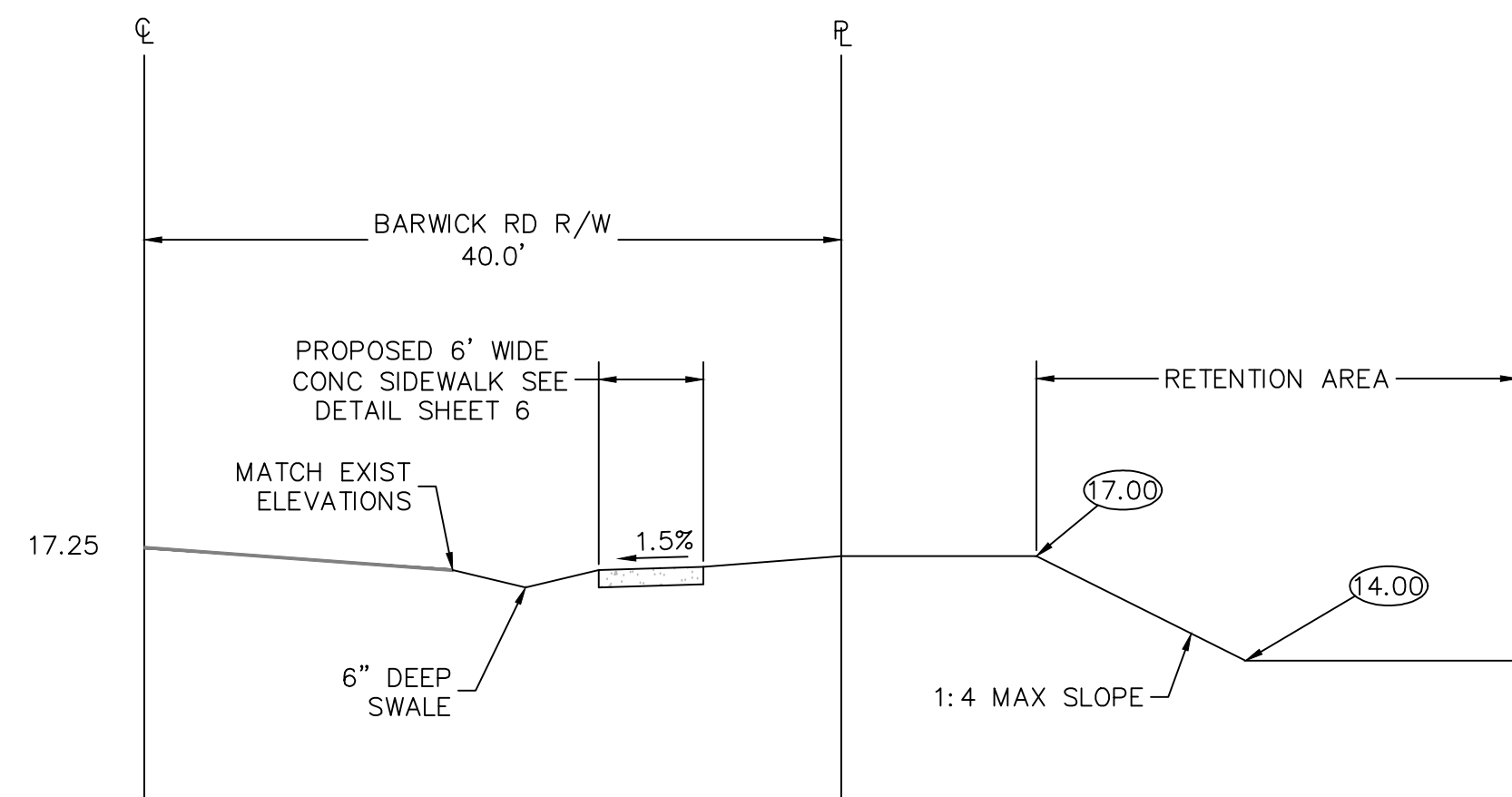
TYPE C & E INLET DETAIL D 7.1



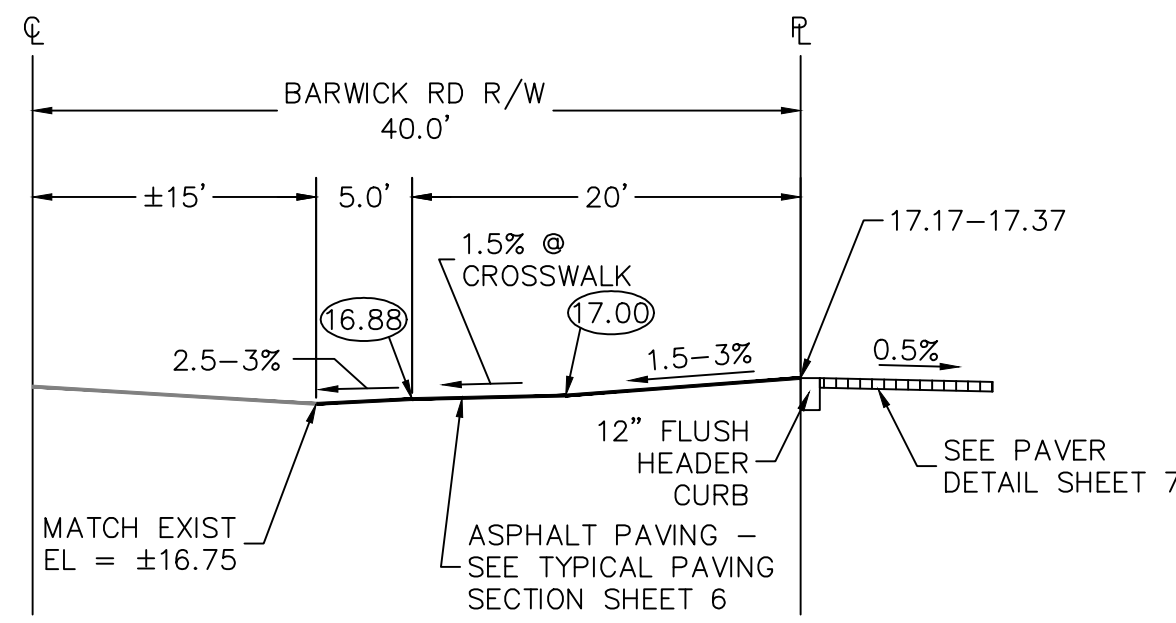
CONTROL STRUCTURE C-11
N.T.S.



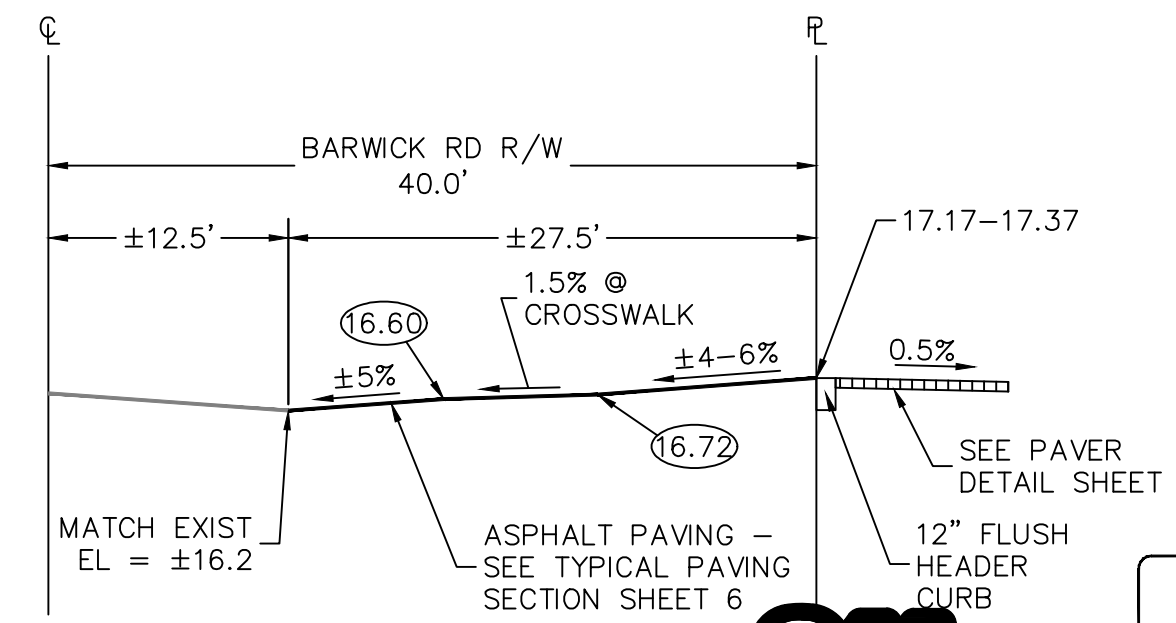
LWDD L-30 CANAL OUTFALL SECTION
SCALE: 1"=10'



A BARWICK/RETENTION SECTION
NOT-TO-SCALE



B BUTTONWOOD DR DRIVEWAY SECTION
NOT-TO-SCALE



C SYLVESTER PALM DR DRIVEWAY SECTION
NOT-TO-SCALE



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BY:	DATE:	REVISIONS:
BAB	2/20/20	ADD CONTROL STRUCTURE DETAIL
BAB	8/26/20	REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION

PAVING & DRAINAGE DETAILS FOR:
BANYAN COURT
BARWICK ROAD
DELRAY BEACH, FLORIDA

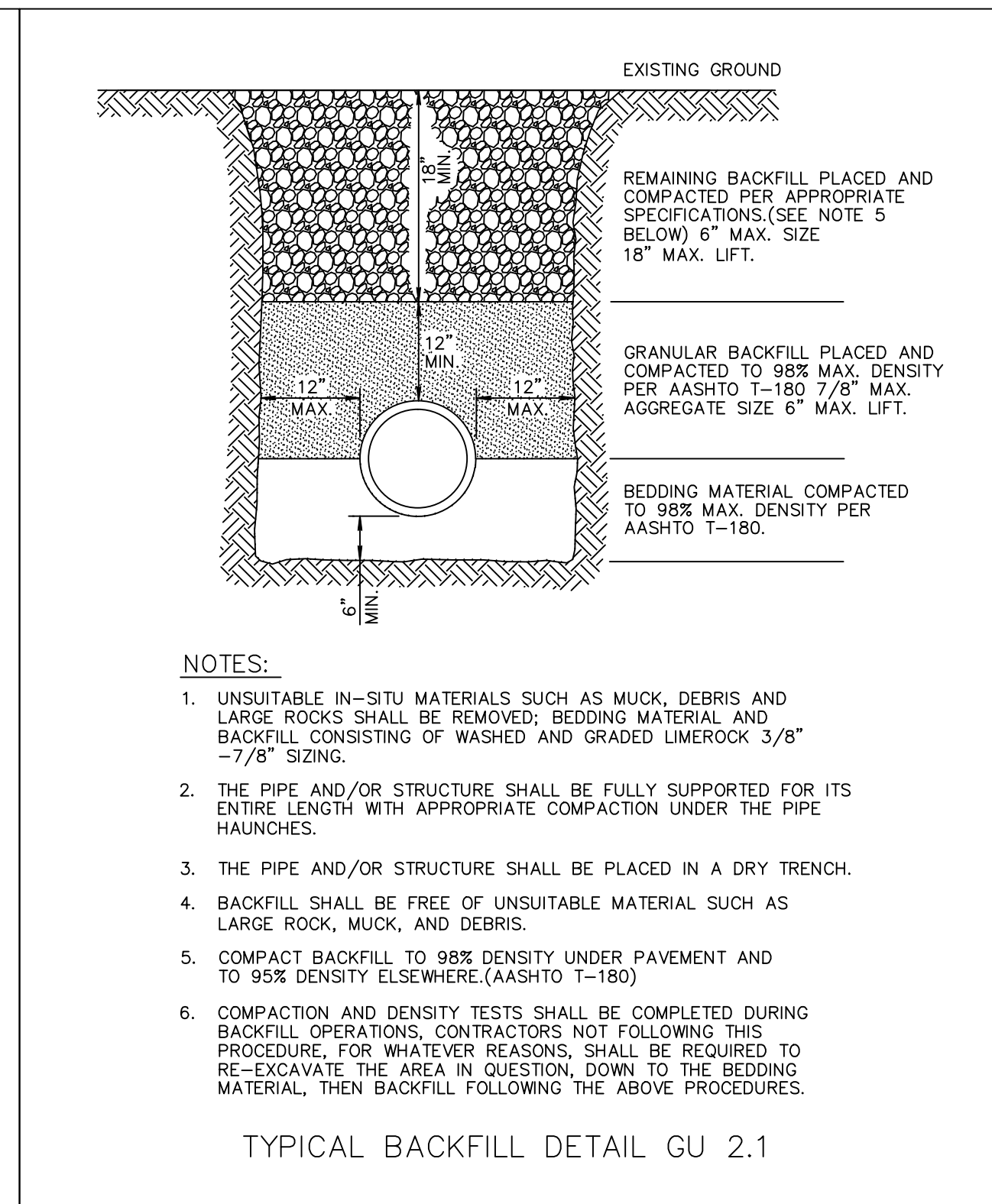
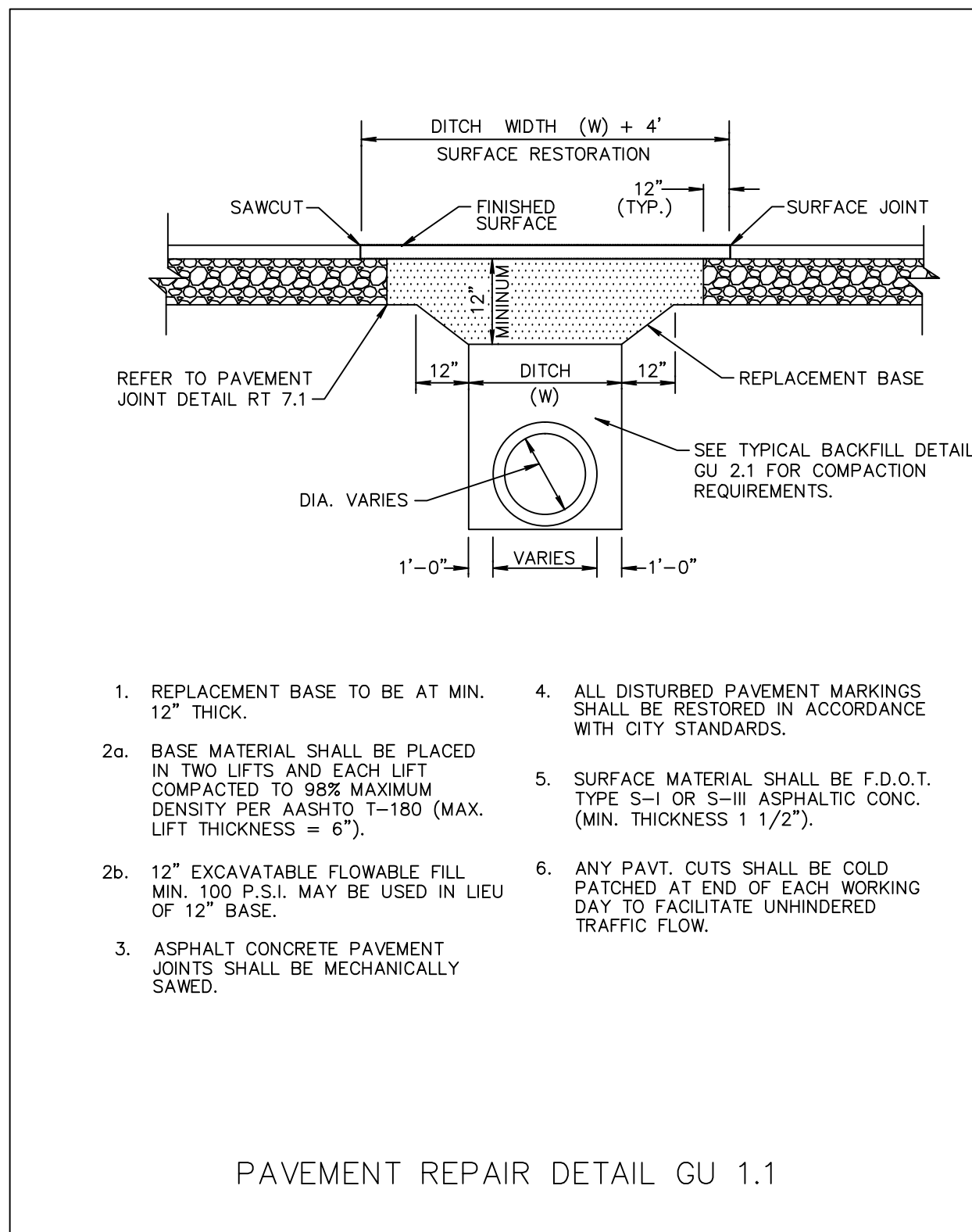
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SHEET NO.
8 OF 15

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PAVING, GRADING AND DRAINAGE NOTES

- ALL PAVING AND DRAINAGE WORK IN THE PALM BEACH COUNTY (PBC) RIGHT-OF-WAY SHALL BE CONSTRUCTED IN FULL ACCORDANCE WITH THE PBC LATEST STANDARDS. ALL PAVING AND DRAINAGE WORK IN THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT-OF-WAY SHALL BE CONSTRUCTED IN FULL ACCORDANCE WITH THE FDOT LATEST STANDARDS.
- COMPACTED SUBGRADE SHALL BE COMPACTED AND MEET THE DENSITY REQUIREMENTS AS DETERMINED BY THE AASHTO T-180 SPECIFICATIONS. SUBGRADE SHALL EXTEND 12 INCHES BEYOND THE PROPOSED EDGE OF PAVEMENT AND/OR 6" BEYOND VALLEY GUTTER, TYPE "F" CURB & GUTTER, OR TYPE "D" CURB. SUBGRADE SHALL BE 12 INCHES THICK COMPACTED TO 98% ACCORDING TO AASHTO T-180. ALL MUCK, STUMPS, ROOTS OR OTHER DELETERIOUS MATTER ENCOUNTERED IN THE PREPARATION OF THE SUBGRADE SHALL BE REMOVED COMPLETELY FROM THE CENTERLINE OF THE ROADWAY TO A WIDTH OF TEN FEET BEYOND THE EDGE OF PAVEMENT. IF SUBGRADE IS REQUIRED TO BE STABILIZED, THE REQUIRED BEARING VALUE DETERMINATIONS SHALL BE MADE BY THE FLORIDA BEARING TEST, TEST METHOD "C" OF AASHTO T-180 SPECIFICATIONS.
- SHELLROCK BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 250 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. THE THICKNESS OF THE SHELLROCK BASE SHALL BE AS SHOWN ON THE DETAIL DRAWINGS AND SHALL BE COMPACTED TO A DENSITY OF 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. THE SHELLROCK SHALL HAVE A MINIMUM OF 40% CARBONATES OF CALCIUM AND MAGNESIUM IN THE MATERIAL.
- LIMEROCK BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 200 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. THE THICKNESS OF THE LIMEROCK BASE SHALL BE AS SHOWN ON THE DETAIL DRAWINGS AND SHALL BE COMPACTED TO A DENSITY OF 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- MUCK AND PEAT - IF MUCK AND/OR PEAT ARE ENCOUNTERED IN THE ROAD OR PARKING AREA, THEY WILL BE REMOVED COMPLETELY TO A WIDTH OF TEN FEET BEYOND THE EDGE OF PAVEMENT AND SHALL BE BACKFILLED WITH GRANULAR MATERIAL. IF HARDPAN IS ENCOUNTERED IN THE SWALE AREA, IT WILL BE REMOVED TO A WIDTH OF TWO FEET AT THE SWALE INVERT AND REPLACED WITH GRANULAR MATERIAL.
- WHERE SOD IS DESIRED, LOWER THE GRADE 2 INCHES BELOW THE FINISHED GRADE TO ALLOW FOR THE THICKNESS OF THE SOD.
- CLEARING AND GRUBBING - WITHIN THE LIMITS OF CONSTRUCTION ALL VEGETATION AND ROOT MATERIAL SHALL BE REMOVED.
- GUMBO - WHERE GUMBO OR OTHER PLASTIC CLAYS ARE ENCOUNTERED, THEY SHALL BE REMOVED WITHIN THE ROADWAY AND PARKING AREAS ONE FOOT BELOW THE SUBGRADE EXTENDING HORIZONTALLY TO THE OUTSIDE EDGE OF THE SHOULDER AREA.
- PRIME COAT SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. PRIME COAT SHALL BE RC-70 OR ASPHALT EMULSION PRIME (AEP). PRIME COAT SHALL BE APPLIED AT A RATE OF APPLICATION NOT LESS THAN 0.10 GALLONS PER SQUARE YARD FOR LIMEROCK BASES AND NOT LESS THAN 0.15 GALLONS PER SQUARE YARD FOR SHELL ROCK OR COQUINA SHELL BASES.
- TACK COAT - BITUMINOUS TACK COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FDOT SPECIFICATIONS, LATEST EDITION AND SHALL BE APPLIED AT THE RATE OF 0.08 GALLONS PER SQUARE YARD, UNLESS A VARIATION IS APPROVED BY THE ENGINEER.
- ASPHALTIC CONCRETE SURFACE COURSE SHALL BE IN ACCORDANCE WITH SECTION 334 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. THE THICKNESS OF THE SURFACE COURSE SHALL BE AS SHOWN ON THE DETAILED DRAWINGS.
- ALL CONCRETE SHALL DEVELOP 2500 p.s.i. (MINIMUM) 28 DAY COMPRESSIVE STRENGTH OR GREATER WHERE NOTED ON PLANS. CLASS I CONCRETE SHALL CONFORM WITH THE FDOT SPECIFICATIONS, LATEST EDITION. CLASS I CONCRETE USED AS PAVING SHALL DEVELOP 3000 p.s.i. (MINIMUM) 28 DAYS COMPRESSIVE STRENGTH.
- PAVEMENT TRAFFIC STRIPES AND MARKINGS SHALL BE IN ACCORDANCE WITH CITY OF DELRAY BEACH CURRENT STANDARDS AND/OR MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND/OR PALM BEACH COUNTY TRAFFIC DEPARTMENT TYPICAL T-P-17, WHERE APPLICABLE.
- SEQUENCE OF CONSTRUCTION - THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND THAT ARE BENEATH THE PAVEMENT, SHALL BE IN PLACE AND HAVE PROPER DENSITY PRIOR TO THE CONSTRUCTION AND COMPACTION OF THE SUBGRADE.
- INLETS AND MANHOLES - ALL INLETS AND MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FDOT SPECIFICATIONS, LATEST EDITION, AND ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION, AND PBC STANDARDS LATEST EDITION, WHERE APPLICABLE.
- GRATE ELEVATIONS REFER TO THE FLOWLINE OF THE GRATE.
- GRADES SHOWN ARE FINISHED GRADES.
- MINIMUM ROAD CROWN ELEVATION SHALL BE EL. 14.50' N.A.V.D.
- REINFORCED CONCRETE PIPE - THE PIPE SHALL CONFORM WITH THE REQUIREMENTS OF CLASS III OF ASTM C-76 AND WITH THE FDOT SPECIFICATIONS, LATEST EDITION. THE FIRST JOINT OF PIPE ENTERING OR LEAVING A MANHOLE OR INLET SHALL BE WRAPPED WITH FILTER FABRIC PER FDOT SPECIFICATIONS.
- CORRUGATED ALUMINUM PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M196 AND SECTIONS 125, 430 AND 943 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- MEASUREMENT OF THE LENGTH OF PIPE SHALL BE FROM THE CENTER OF THE STRUCTURE TO THE CENTER OF THE STRUCTURE.
- PIPE BACKFILL - REQUIREMENTS FOR PIPE BACKFILL CROSSING ROADS OR PARKING AREAS SHALL BE DEFINED IN THE FDOT SPECIFICATIONS, LATEST EDITION. PIPELINE BACKFILL SHALL BE PLACED IN SIX INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR (AASHTO) T-99 SPECIFICATIONS.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THREE (3) CERTIFIED COPIES OF A CHEMICAL AND SIEVE ANALYSIS OF THE SHELL ROCK BY A STATE OF FLORIDA CERTIFIED LAB WHEN CONSTRUCTING A SHELL ROCK BASE FOR ROADWAY.
- PRIOR TO CERTIFICATION OF THE DRAINAGE SYSTEM, THE CONTRACTOR MUST PUMP DOWN AND LAMP THE DRAINAGE SYSTEM FOR INSPECTION BY THE ENGINEER AFTER FINISHED ROCK FOR THE ROADWAYS HAS BEEN INSTALLED.



CITY OF DELRAY BEACH GENERAL NOTES

- DEFINITIONS
- CITY - THE CITY OF DELRAY BEACH
 - CONTRACTOR - UTILITY CONTRACTOR AND ALL UTILITY SUBCONTRACTORS
 - ENGINEER - ENGINEER RESPONSIBLE FOR INSPECTION AND CERTIFICATION
- PROCEDURE
- A PRE-CONSTRUCTION MEETING IS TO BE HELD PRIOR TO DELIVERY OF MATERIALS AND INITIATION OF ANY WATER AND SEWER CONSTRUCTION. THE MEETING SHALL BE ATTENDED BY THE CITY, CONTRACTOR, SUBCONTRACTORS, ENGINEER AND OTHER INTERESTED PARTIES.
 - ANY REVISIONS TO THE APPROVED PLANS MUST BE APPROVED BY THE CITY PRIOR TO THE PRE-CONSTRUCTION MEETING.
 - A MINIMUM OF THREE (3) COPIES OF THE CURRENT APPROVED PRODUCT LIST AND ALL NECESSARY SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO SCHEDULING THE PRE-CONSTRUCTION MEETING. ALL PIPE MANUFACTURERS SHALL SUBMIT THREE (3) COPIES OF AN AFFIDAVIT THAT THE PIPE AND COATINGS WERE MANUFACTURED IN ACCORDANCE WITH AWWA C151/A21.51-91.
 - ALL APPLICABLE PERMITS MUST BE OBTAINED WITH COPIES PROVIDED TO THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES.
 - ALL MATERIALS SUPPLIED SHALL CONFORM TO PRODUCT LIST AND SHOP DRAWINGS AS APPROVED BY THE CITY PRIOR TO CONSTRUCTION. ALL REQUESTS FOR MATERIAL SUBSTITUTION SHALL BE APPROVED PRIOR TO DELIVERY OF THESE MATERIALS TO THE JOB SITE.
 - THE LOCATION OF THE EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF OTHER UTILITIES (NOT SHOWN ON THE PLAN) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE CITY AND NOTIFY THE RESPECTIVE UTILITY OWNER TO RESOLVE THE UTILITY CONFLICTS AND THE UTILITY ADJUSTMENTS AS REQUIRED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY, AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATIONS OF ALL OTHER UTILITY FACILITIES.
 - THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS WITH THE CITY A MINIMUM OF 24 HOURS IN ADVANCE.
 - CONTRACTOR SHALL NOT DISTURB EXISTING CITY MAINS OR STRUCTURES WITHOUT THE PRESENCE OF A CITY INSPECTOR. CITY UTILITY SYSTEM VALVES AND APPURTENANCES MAY ONLY BE OPERATED BY CITY PERSONNEL.
 - FACILITIES PROPOSED HEREIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. DEVIATIONS FROM THE APPROVED PLANS MUST BE APPROVED IN ADVANCE BY THE CITY.
 - UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE OF THE WORK, A FINAL INSPECTION SHALL VERIFY PROPER ADHERENCE TO ALL FACETS OF THE PLANS AND SPECIFICATIONS.
 - PAVING, DRAINAGE AND TRAFFIC CONSTRUCTION SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND DESIGN STANDARDS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND PALM BEACH COUNTY TYPICAL T-P-17 (LATEST REVISION) UNLESS SHOWN OTHERWISE.
 - AS-BUILT DRAWINGS SHALL BE PREPARED BY A REGISTERED LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, AND SUBMITTED BY THE CONTRACTOR TO THE CITY.
 - PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553-851 FOR PROTECTION OF UNDERGROUND GAS PIPE LINES.
 - CONTRACTOR SHALL NOTIFY SUNSHINE STATE ONE (1-800-432-4770) 48 HOURS IN ADVANCE OF CONSTRUCTION.
18. GRADES SHOWN ON PLANS ARE FINISHED GRADES. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST EXISTING SANITARY SEWER MANHOLE TOPS AND VALVE BOX COVERS TO FINISHED GRADE.
19. CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES DURING CONSTRUCTION AND SHALL BE REQUIRED TO PROVIDE ALL BARRICADES, LIGHTING, SIGNAGE AND FLAGMEN AS NECESSARY TO PROVIDE FOR THE SAFETY OF THE PUBLIC IN THE WORK AREA. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC MAINTENANCE PLAN PRIOR TO CONSTRUCTION.
20. EXISTING BASE MATERIAL THAT IS REMOVED DURING CONSTRUCTION SHALL NOT BE USED IN THE CONSTRUCTION OF NEW LIMEROCK BASE.
21. ALL VEGETATION, DEBRIS, CONCRETE OR OTHER UNSUITABLE MATERIAL SHALL BE LEGALLY DISPOSED OF OFF-SITE IN AN AREA AT THE CONTRACTORS EXPENSE.
22. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES, SUCH AS TURBIDITY SCREENS, CURTAINS AND FLOATING SILT BARRIERS WHERE NECESSARY IN ORDER TO COMPLY WITH ALL STATE AND LOCAL WATER QUALITY STANDARDS.
23. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
24. ALL PAVED SURFACES SHALL BE PROPERLY MARKED PRIOR TO HOURS OF DARKNESS. PERMANENT PAVEMENT MARKING STALLS SHALL BE LAID OUT USING MARKING CHALK. LAYOUT TO BE REVIEWED BY THE CITY PRIOR TO PLACEMENT OF FINAL MARKING.
25. EMBANKMENT (FILL) AND EXCESS MATERIAL REQUIRED FOR ROADWAY RECONSTRUCTION AND UTILITY INSTALLATIONS SHALL BE SUPPLIED AND/OR DISPOSED OF BY THE CONTRACTOR. ALL COSTS ASSOCIATED WITH EARTHWORK REQUIREMENTS TO COMPLETE THE ROADWAY RECONSTRUCTION AND UTILITY IMPROVEMENTS SHALL BE INCLUDED IN THE COSTS OF OTHER APPROPRIATE PAY ITEMS.
26. CONTINUITY OF WATER AND SEWER SERVICE TO CITY UTILITY CUSTOMERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THIS PROJECT. IF A BREAK IN SERVICE IS UNAVOIDABLE TO ACCOMMODATE CONNECTION OF NEW FACILITIES, IT SHALL BE SCHEDULED FOR OFF PEAK HOURS WITH THE CITY. DETERMINATION OF SERVICE BREAK REQUIREMENT WILL BE MADE BY THE CITY.
27. SITE INFORMATION BASED ON A SURVEY PREPARED BY: CAULFIELD & WHEELER, INC.
28. THE EXTENT OF ROAD CONSTRUCTION WORK TO BE COMPLETED BY THE CONTRACTOR, WITHIN THE RAILROAD RIGHT-OF-WAY SHALL BE DETERMINED BY THE CITY AND COORDINATED WITH THE FLORIDA EAST COAST RAILWAY COMPANY AT THE TIME OF CONSTRUCTION.
29. RELOCATION OF UTILITY POLES AND GAS PIPE LINES SHALL BE COORDINATED BY THE CONTRACTOR WITH FLORIDA POWER AND LIGHT, AND FLORIDA PUBLIC UTILITIES, RESPECTIVELY. EACH UTILITY HAS BEEN NOTIFIED THAT THEY WILL BE REQUIRED TO RELOCATE THEIR UTILITIES.
30. ALL CITY OF DELRAY BEACH STANDARD DETAILS INCLUDED IN THE CIVIL PLANS PREPARED BY ENVIRODESIGN ASSOCIATES, INC. HAVE NOT BEEN MODIFIED FROM THEIR ORIGINAL CONTENT.
31. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENVIRODESIGN ASSOCIATES, INC.
32. NO PROPOSED IMPROVEMENTS, BUILDINGS OR ANY KIND OF CONSTRUCTION CAN BE PLACED ON OR WITHIN ANY WATER, SEWER OR DRAINAGE EASEMENTS, UNLESS APPROVED BY THE CITY OF DELRAY BEACH CITY ENGINEER.
33. NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10-FEET FROM ANY EXISTING OR PROPOSED WATER, SEWER OR DRAINAGE FACILITIES, UNLESS APPROVED BY THE CITY OF DELRAY BEACH CITY ENGINEER.
34. NOTE: ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS, THEY SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS; LD 1.1 & LD 1.2
35. ALL SIDEWALKS TO BE CONSTRUCTED IN ACCORDANCE WITH ADA REQUIREMENTS. ALL SIDEWALKS NOT TO EXCEED 1:48 CROSS-SLOPE AND 1:20 RUNNING SLOPES. ALL RAMPS NOT TO EXCEED 1:48 CROSS-SLOPE AND 1:12 RUNNING SLOPES WITH MAXIMUM RISE AND RUNS PER ADA REQUIREMENTS WITH RAILINGS WHERE NEEDED. LANDINGS WITH 1:48 CROSS- AND RUNNING-SLOPES ARE TO BE PROVIDED AT TOPS AND BOTTOMS OF ALL RAMPS.
36. CITY OF DELRAY BEACH UTILITY DIVISION MUST BE CONTACTED AT LEAST 48 HOURS PRIOR TO ANY SHUTDOWN AND/OR REMOVAL OF EXISTING WATER MAIN OR SANITARY SEWER LINES AT 561-243-7312.
37. THE EXISTING SANITARY SEWER LINE MUST BE TELEVIEWED PRIOR TO AND AFTER ANY SANITARY SEWER SERVICE CONNECTION, REMOVAL AND/OR ABANDONMENT.
38. UPON APPROVAL AND RECEIPT OF PERMIT, THE CONTRACTOR SHALL CONTACT THE CITY OF DELRAY BEACH DEPUTY DIRECTOR OF CONSTRUCTION AT 361-243-7320 TO SCHEDULE A PRECONSTRUCTION MEETING PRIOR TO STARTING ANY SITE WORK.
39. ALL WATER METER SIZES TO BE DETERMINED BY PLUMBING ENGINEERING OF RECORD AND SHALL BE CHECKED AND AUTHORIZED BY CITY OF DELRAY BEACH UTILITIES DIVISION.
40. ALL CITY OF DELRAY BEACH 2016 STANDARD DETAILS INCLUDED IN THIS SET OF PLANS AND DETAILS HAVE NOT BEEN MODIFIED FROM THEIR ORIGINAL CONTENT.

GENERAL NOTES

- CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID SURVEY MARKERS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF PERMANENT REFERENCE MONUMENTS DISTURBED DURING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE PLANS. UTILITIES SHOWN ON THE PLANS ARE FOR REFERENCE ONLY AND MAY NOT DEPICT ACTUAL LOCATIONS. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES FOR LOCATION AND DEPTH OF THEIR LINES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND PAY FOR THE DEENERGIZING OF POWER LINES AND/OR HOLDING POWER POLES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND PAY FOR THE REPLACEMENT OF TRAFFIC LOOPS IF DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- ALL ELEVATIONS REFER TO N.A.V.D. 1988. MINIMUM FINISHED FLOOR ELEVATION FOR ANY RESIDENTIAL STRUCTURE SHALL BE SET AT OR ABOVE ELEVATION 18.50' (WHICH IS ABOVE THE 100-YEAR FREQUENCY STORM).
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OR INSTALLATION AS REQUIRED BY THE ENGINEER OR BY THE APPROPRIATE GOVERNING AGENCIES.
- CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AND PAY FOR, AT NO ADDITIONAL COST TO THE OWNER, ALL NECESSARY PERMITS, FEES AND LICENSES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR GIVING THE REQUIRED NOTICES AND COMPLYING WITH ALL PERMIT(S) CONDITIONS.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND PAY FOR THE HOLDING OF OTHER UTILITY POLES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- ALL CONCRETE SHALL DEVELOP 2500 p.s.i. (MINIMUM) 28 DAY COMPRESSIVE STRENGTH OR GREATER WHERE NOTED ON PLANS. CLASS I CONCRETE SHALL CONFORM WITH THE FDOT SPECIFICATIONS, LATEST EDITION. CLASS I CONCRETE USED AS PAVING SHALL DEVELOP 3000 p.s.i. (MINIMUM) 28 DAYS COMPRESSIVE STRENGTH.
- ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL UTILITY.
- ENVIRODESIGN ASSOC. INC. SHALL NOT BE RESPONSIBLE FOR THE SAFETY OF THE WORKERS OR THE GENERAL PUBLIC. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFETY TO THE WORKERS IN ACCORDANCE WITH OCCUPATIONAL SAFETY & HEALTH ADMINISTRATIONS (OSHA) REQUIREMENTS AND THE SAFETY OF THE GENERAL PUBLIC.
- ALL MATERIALS AND WORKMANSHIP MUST BE IN ACCORDANCE WITH THE LOCAL UTILITY STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL CALL SUNSHINE 1-800-432-4770 48 HOURS BEFORE DIGGING FOR FIELD LOCATIONS OF UNDERGROUND UTILITIES.
- CORRUGATED ALUMINUM PIPE USED BENEATH PAVEMENT SHALL BE IN CONFORMANCE WITH SEC. 8.24.E.5.i
- ALL CONSTRUCTION ACTIVITY, INCLUDING TRENCHING, IS TO BE A MINIMUM OF SIX FEET FROM THE BASE OF ANY TREE THAT IS DESIGNATED TO REMAIN.
- ALL LIMEROCK AND BASE MATERIALS SHALL BE REMOVED FROM THE PLANTER AREAS/ISLANDS AND REPLACED WITH APPROPRIATE PLANTING SOIL PRIOR TO THE LANDSCAPING OF THE SITE.
- THE REMOVAL OF ANY TREE ON THE SITE IS PROHIBITED WITHOUT THE REQUIRED PERMITS.
- ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM (LATEST ED.).
- LANE CLOSURES WITHIN THE FDOT RIGHT-OF-WAY SHALL BE LIMITED TO THE HOURS OF 9AM-3PM, MONDAY-FRIDAY EXCLUDING GOVERNMENTAL HOLIDAYS. MAINTENANCE OF TRAFFIC SHALL BE PROVIDED IN ACCORDANCE WITH INDEX 613 OF THE FDOT DESIGN STANDARDS (LATEST ED.)

CALL 48 HOURS BEFORE YOU DIG.

IT'S THE LAW
1-800-432-4770

SUNSHINE STATE ONE CALL OF FLORIDA, INC.



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BY: BAB

REVISIONS: REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION

DATE: 8/26/20

NO. 1

NOT VALID WITHOUT ENGINEER'S SEAL

STATE OF FLORIDA

PROFESSIONAL ENGINEER

JOSEPH A. P. JR.

298 Pineapple Grove Way Delray Beach, Florida 33444

Phone: (561) 274-6500 Fax: (561) 274-8558

GENERAL NOTES FOR:
BANYAN COURT
BARWICK ROAD
DELRAY BEACH, FLORIDA

ENGINEERS • ENVIRONMENTAL CONSULTANTS

EnviroDesign Associates Inc.
www.envirodesign.com

FLORIDA CERTIFICATE OF AUTHORIZATION No. 6506
298 Pineapple Grove Way Delray Beach, Florida 33444

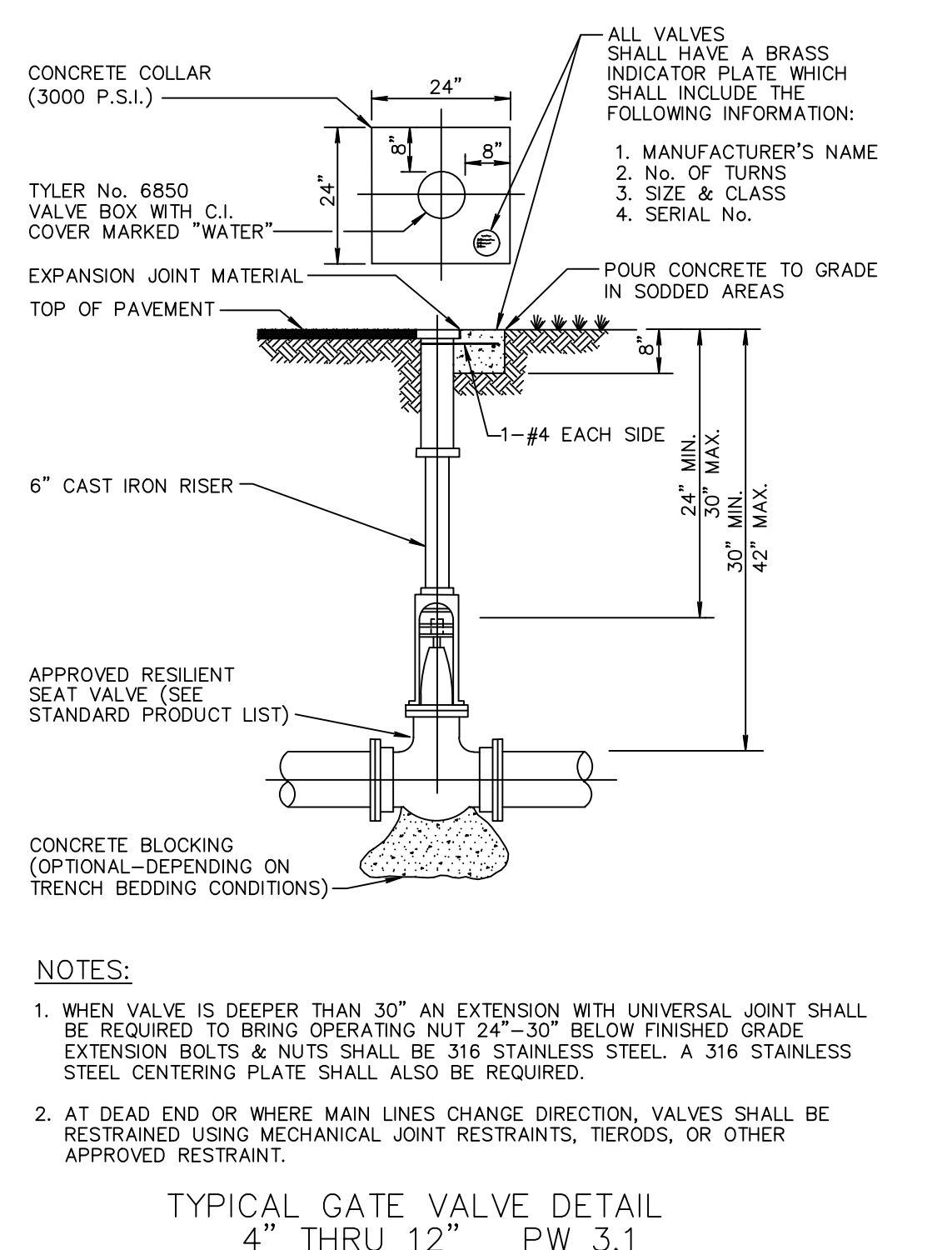
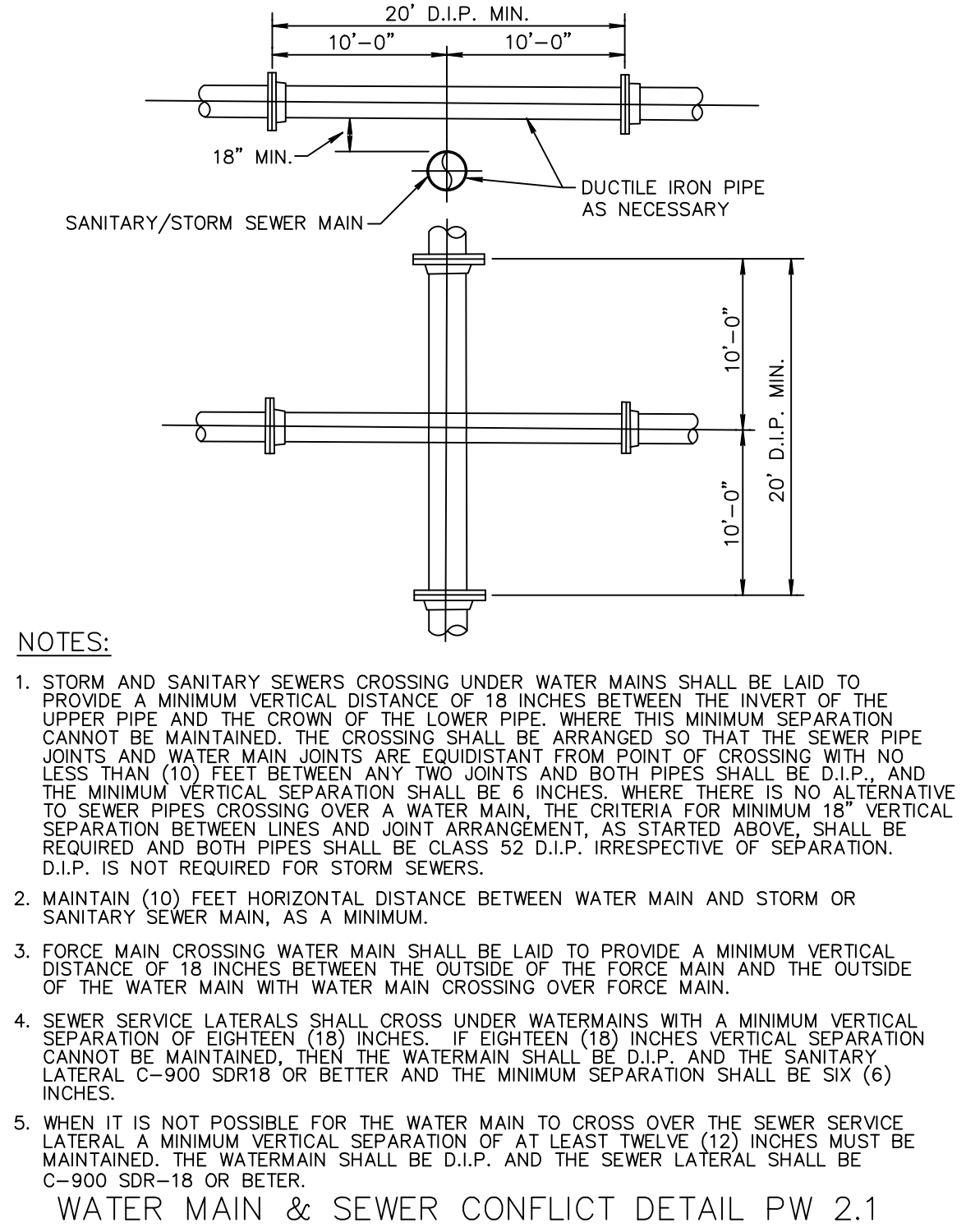
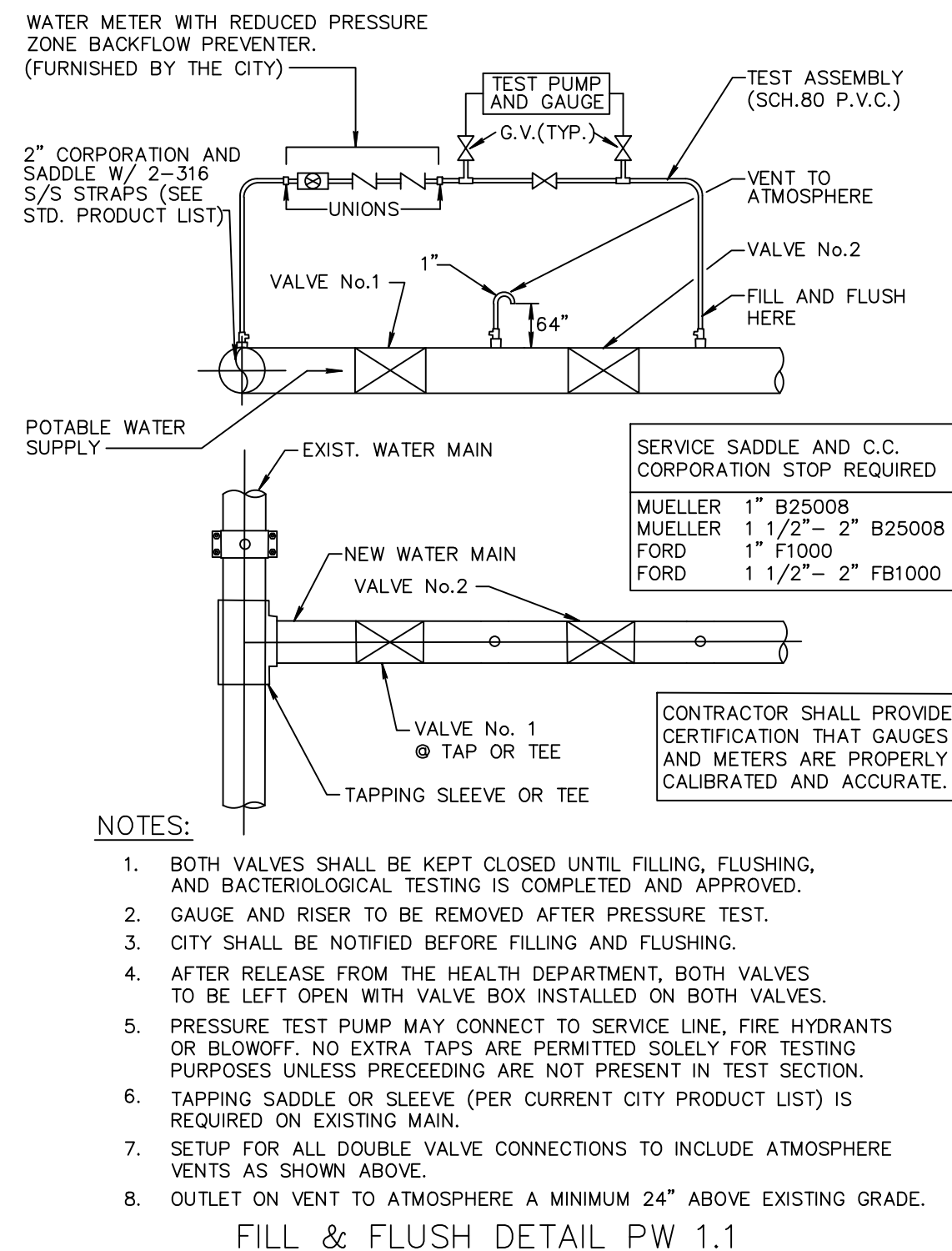
DRAWN: B.A.B.

CHECKED: J.A.P.

DATE: 8/26/20

JOB NO. 19007-DTL

SHEET NO. 9 OF 15



ITEM	BOX COMPLETE EXTENSION IN INCHES	WT.	TOP SECTION W/LID LENGTH	WT.	BOTTOM LENGTH	WT.	PIECES PER PKG.
481-S	19-22	60	10	35	15	25	..
482-S	23-26	70	10	35	24	35	..
582-S	27-37	80	16	45	24	35	..
583-S	33-43	16	16	45	24	40	..
584-S	39-50	90	16	45	36	45	..
585-S	45-55	100	16	45	40	45	..
684-S	39-60	110	26	65	36	45	..
685-S	45-65	120	26	65	40	45	..
686-S	51-71	135	26	65	**48	70	..
687-S	57-77	145	26	65	**60	80	..

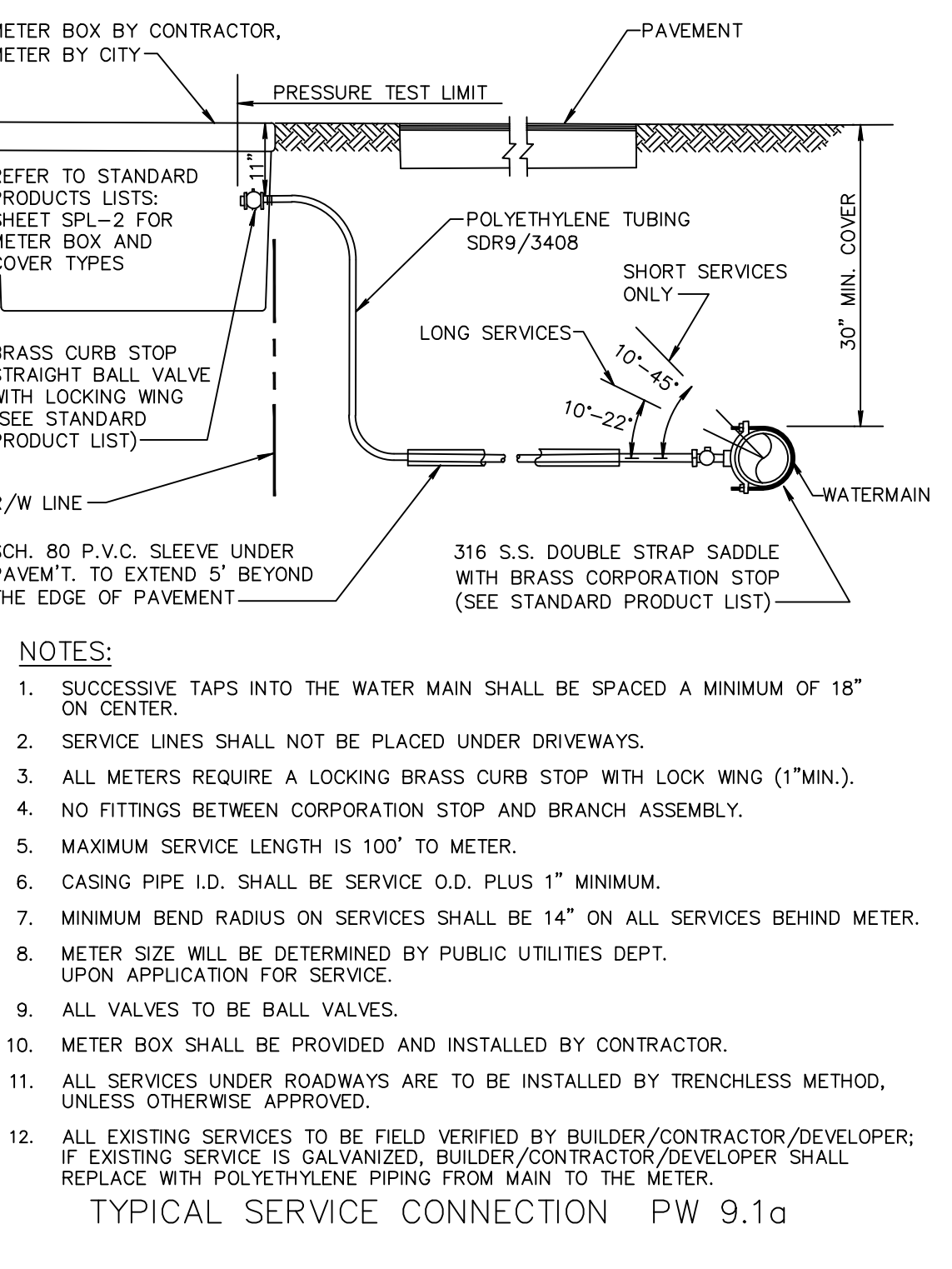
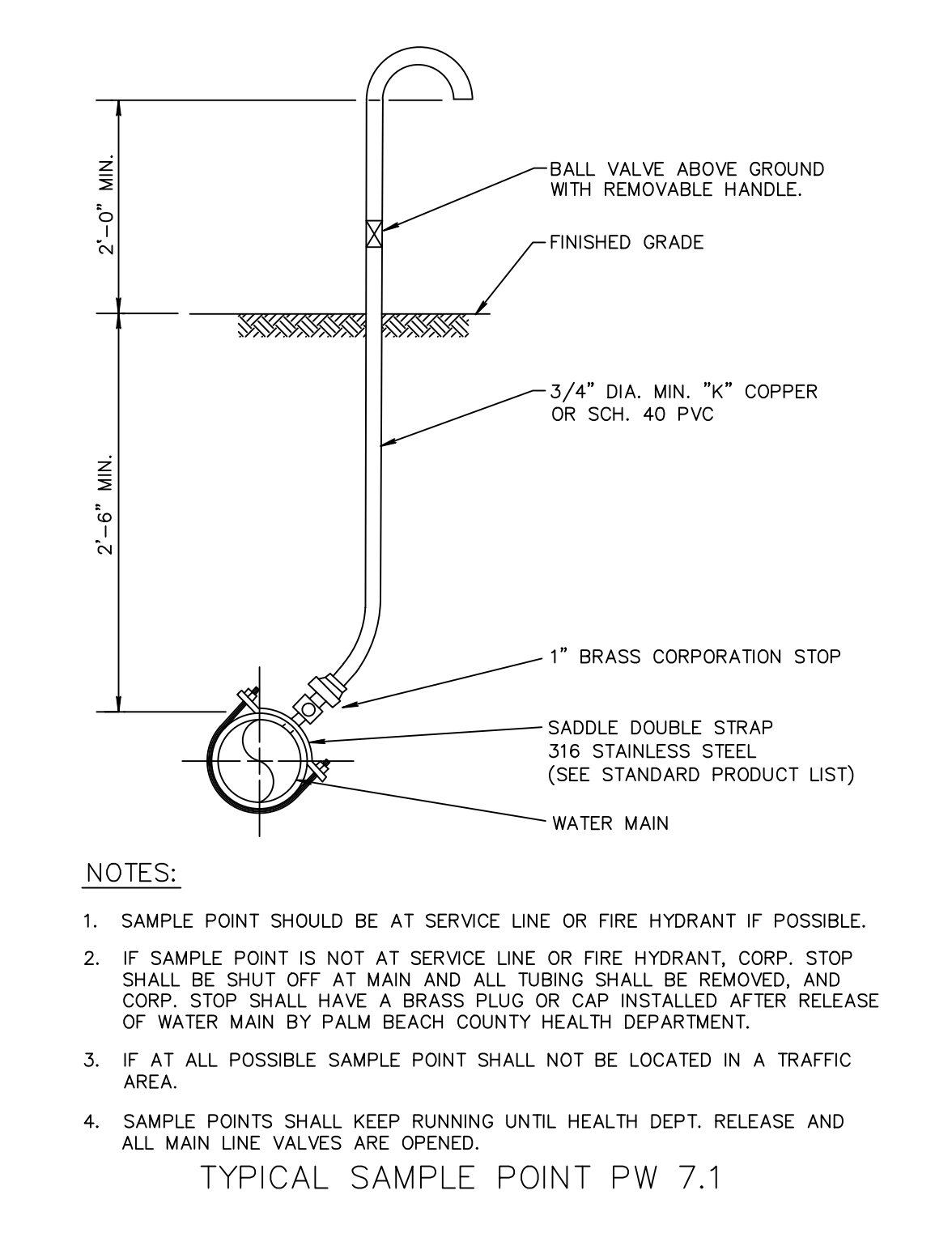
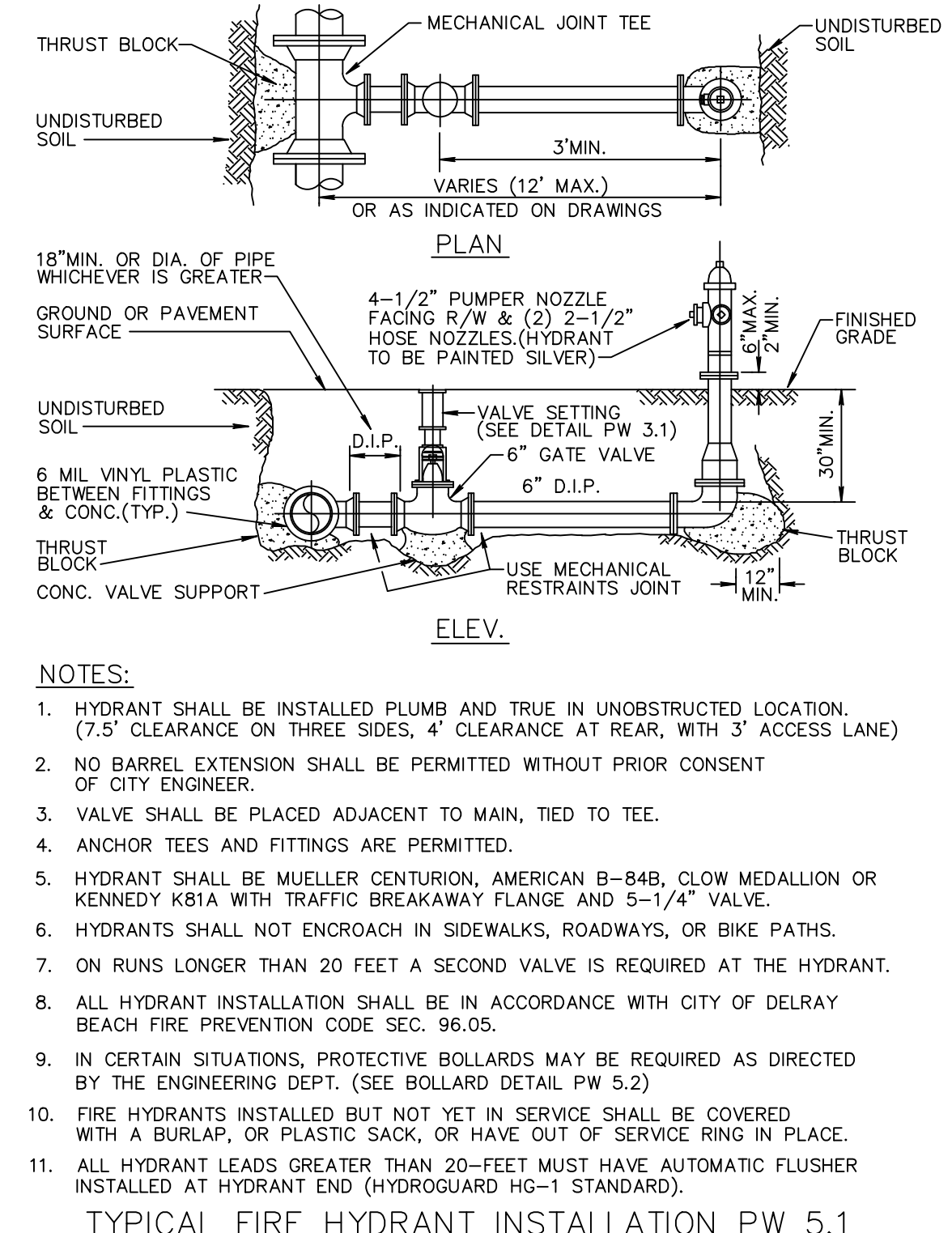
**MAY BE FURNISHED IN TWO PIECES SCREWED TOGETHER TO MAKE THE LENGTH REQUIRED.

BOX COMPLETE TOP

BOX COMPLETE BOTTOM

NOTE: LOCKING LIDS WILL NOT BE ACCEPTED.

CAST IRON VALVE BOXES, TWO-PIECE PW 3.2



PRESSURE PIPE NOTES:

- THERE SHALL BE 30" MINIMUM COVER FROM FINISHED GRADE TO TOP OF PIPE. FOR PIPE SIZE 10" AND LARGER THERE SHALL BE 36" MINIMUM COVER.
- DUCTILE IRON PIPE (DIP) FOR FORCE MAINS SHALL BE CLASS 350 EPOXY LINED IN ACCORDANCE WITH AWWA C550.
- DUCTILE IRON PIPE (DIP) FOR WATER MAINS SHALL BE CLASS 350 IN ACCORDANCE WITH AWWA C151 (ANSI A21.51), AND SHALL HAVE AN INTERNAL LINING OF CEMENT MORTAR IN ACCORDANCE WITH AWWA C104/ A21.4.
- C-900 PVC PRESSURE PIPE MAY BE USED IN LIEU OF DIP WATER MAIN METAL TAPE ABOVE C-900
- ALL FITTINGS SHALL BE CLASS 350 DUCTILE IRON WITH MECHANICAL JOINTS AND EPOXY LINING.
- WATER MAIN AND SEWAGE FORCE MAIN VALVES 12 INCHES AND SMALLER SHALL BE RESILIENT WEDGE GATE VALVES IN ACCORDANCE WITH AWWA C509. WATER MAIN VALVES LARGER THAN 12 INCHES SHALL BE BUTTERFLY VALVES IN ACCORDANCE WITH AWWA C504. SEWAGE FORCE MAIN VALVES LARGER THAN 12 INCHES SHALL BE RESILIENT WEDGE GATE VALVES IN ACCORDANCE WITH AWWA C515
- ALL TRENCHING, PIPE-LAYING, BACKFILL, PRESSURE TESTING, AND DISINFECTION MUST COMPLY WITH CITY AND HEALTH DEPARTMENT STANDARDS.
- WATER AND FORCE MAINS SHALL BE PIGGED, AS WELL AS, PRESSURE TESTED FOR A PERIOD OF NOT LESS THAN TWO HOURS AT 150 PSI IN ACCORDANCE WITH ANSI/AWWA C600 LATEST STANDARDS. ALLOWABLE LEAKAGE SHALL BE DETERMINED AS FOLLOWS:

$$L = \frac{(S)(D)(P)}{148,000} \times (50)$$

WHERE:

- L = ALLOWABLE LEAKAGE (GALLONS PER HOUR)
- S = PIPE LENGTH (FEET)
- D = NOMINAL DIAMETER OF PIPE (INCHES)
- P = AVERAGE TEST PRESSURE (PSI)

- RESTRAINTS SHALL BE PROVIDED AT ALL FITTINGS AS SHOWN ON PP.2.1
- PRIOR TO ANY TESTING UNDER FUTURE PAVEMENT, ROCK SHALL BE FINISHED & PRIMED OR 1ST LIFT OF ASPHALT PLACED.
- PIG SIZE SHALL BE PIPE DIA. PLUS 2" OR NEXT LARGER DIA.
- NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10- FEET FROM ANY EXISTING OR PROPOSED WATER MAINS, OR FORCE MAINS.
- LINE STOPS SHALL BE INSTALLED A MINIMUM OF 3 PIPE LENGTHS FROM LOCATION OF PIPE REMOVED, OTHERWISE, PROVIDE NECESSARY JOINT RESTRAINTS.

PRESSURE PIPE NOTES PP 1.1

BY: BAB

REVISIONS: REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION

DATE: 8/26/20

NO. 1

NOT VALID WITHOUT ENGINEER'S SEAL

STATE OF FLORIDA

PROFESSIONAL ENGINEER

WATER & WASTEWATER DETAILS FOR:
 BANYAN COURT
 BARWICK ROAD
 DELRAY BEACH, FLORIDA

EnviroDesign Associates Inc.
 www.envirodesign.com

ENGINEERS • ENVIRONMENTAL CONSULTANTS

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DRAWN: B.A.B.

CHECKED: J.A.P.

DATE: 8/26/20

JOB NO. 19007-DTL

SHEET NO. 10 OF 15



CALL 48 HOURS BEFORE YOU DIG.

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

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MINIMUM LENGTHS OF PIPE (FT) TO BE RESTRAINED

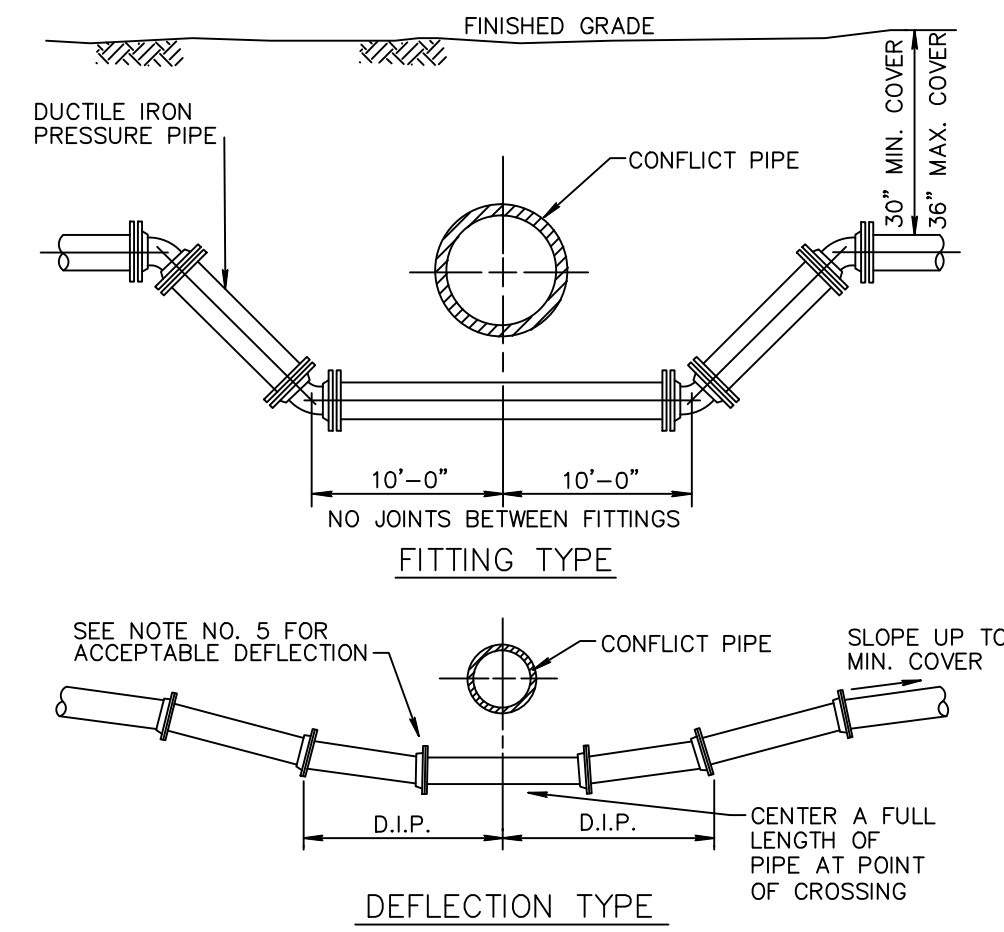
FITTING TYPE	PIPE SIZE									
	4"	6"	8"	10"	12"	16"	20"	24"		
90° HORIZ. BEND	14	20	25	30	35	45	54	62		
45° HORIZ. BEND	6	8	11	13	15	19	22	26		
22.5° HORIZ. BEND	3	4	5	6	7	9	11	12		
11.25° HORIZ. BEND	1	2	3	3	4	4	5	6		
90° VERT. OFFSET	UPPER BEND	55	79	103	125	147	189	228	266	
	LOWER BEND	22	38	49	59	69	88	106	123	
45° VERT. OFFSET	UPPER BEND	22	32	42	51	60	77	93	109	
	LOWER BEND	10	14	19	23	28	35	43	50	
22.5° VERT. OFFSET	UPPER BEND	7	12	17	21	26	34	42	49	
	LOWER BEND	2	4	6	8	10	14	17	21	
11.25° VERT. OFFSET	UPPER BEND	3	4	6	9	11	15	19	22	
	LOWER BEND	1	1	1	2	3	5	7	8	
PLUG (DEAD END)	32	45	59	70	83	107	129	151		
INLINE VALVE	4"X0	23								
	6"X0	21	35							
	8"X0	18	34	47						
	10"X0	16	32	46	58					
	12"X0	13	30	44	57	69				
	16"X0	7	26	41	55	67	90			
	20"X0	1	21	38	52	65	88	109		
TEE (BRANCH RESTRAINT)	4"X0	23								
	6"X0	21	35							
	8"X0	18	34	47						
	10"X0	16	32	46	58					
	12"X0	13	30	44	57	69				
	16"X0	7	26	41	55	67	90			
REDUCER (LARGER PIPE RESTRAINT)	4"X0	23								
	6"X0	21	35							
	8"X0	18	34	47						
	10"X0	16	32	46	58					
	12"X0	13	30	44	57	69				

RESTRAIN PIPE ONE BELL PAST MINIMUM DISTANCE
PIPE RESTRAINT TABLE FOR PRESSURE PIPE
PP 2.1A
(SHEET 1 OF 2)

NOTES:

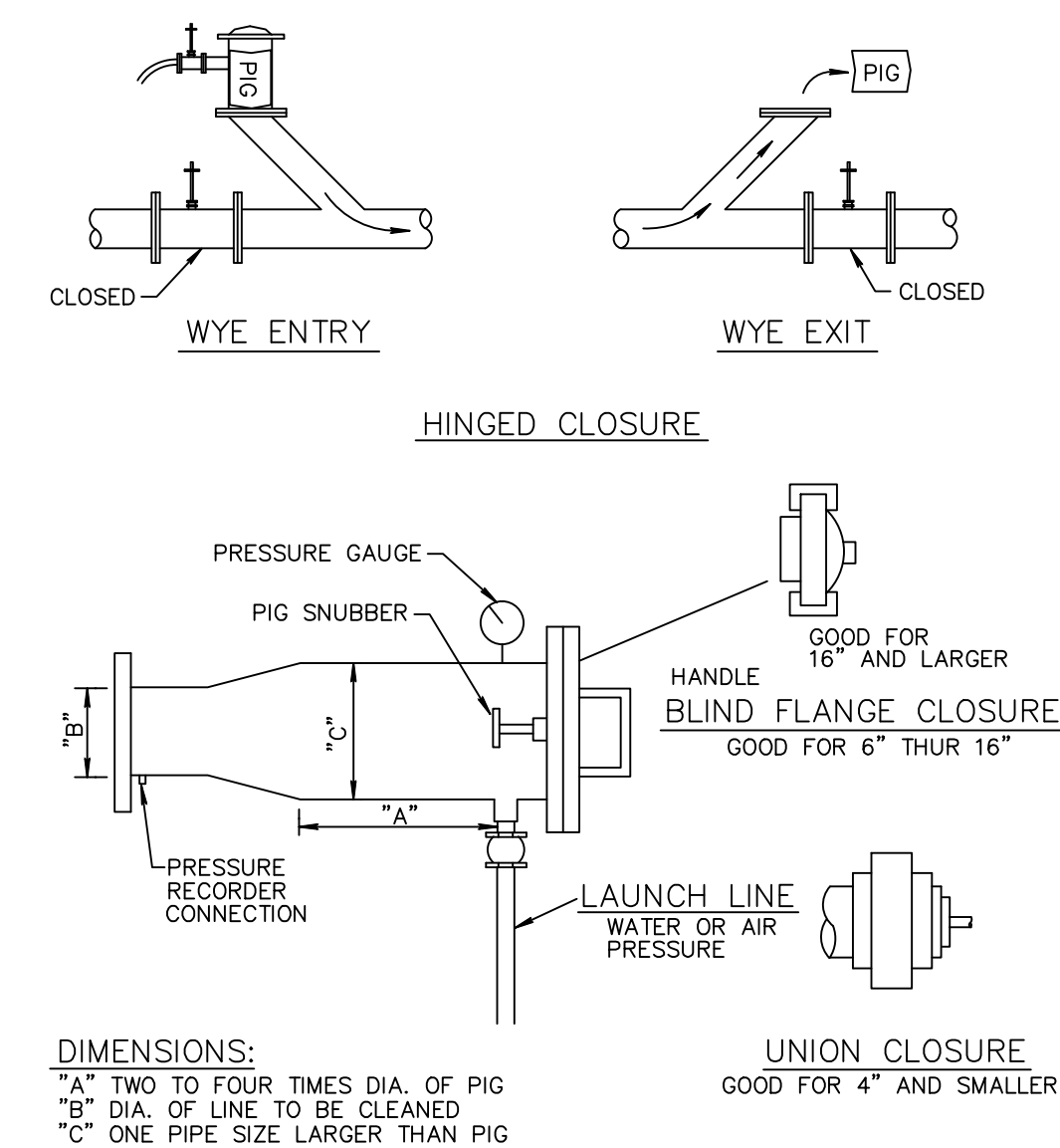
- THE DATA IN THE PREVIOUS TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:
SOIL TYPESAND
TEST PRESSURE150 PSI, 200 PSI FOR PIPES LARGER THAN 24"
DEPTH OF BURY3'
TRENCH TYPE3'
SAFETY FACTOR1.5
VERTICAL OFF-SET3'
MINIMUM PIPE LENGTHS ALONG TEE RUN5'
- THE RESTRAINED PIPE LENGTHS APPLY TO DUCTILE IRON PIPE AND PVC PIPE.
- ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
- RESTRAINED PIPE LENGTHS FOR VALVES APPLY TO PIPE ON BOTH SIDES OF VALVES
- THE PREVIOUS TABLE SHALL SERVE AS A GENERAL DESIGN GUIDE ONLY. IT IS THE ENGINEER OF RECORD'S RESPONSIBILITY TO JUSTIFY AND DOCUMENT ANY DEVIATIONS FROM THE PIPE LENGTHS SPECIFIED IN THE PREVIOUS TABLE.
- SOURCES: EBAA IRON RESTRAINT LENGTH CALCULATION PROGRAM FOR PVC PIPE, RELEASE 3.1 AND DIPRA THRUST RESTRAINT FOR DUCTILE IRON PIPE, RELEASE 3.2.
- RESTRAINT JOINTS SHALL EXTEND ONE JOINT BEYOND MIN. LENGTH REQUIRED.

PIPE RESTRAINT TABLE FOR PRESSURE PIPE
PP 2.1B
(SHEET 2 OF 2)



- DEFLECTION TYPE
- SEE NOTE NO. 5 FOR ACCEPTABLE DEFLECTION
- CONFLICT PIPE
- SLOPE UP TO MIN. COVER
- D.I.P.
- D.I.P.
- CENTER A FULL LENGTH OF PIPE AT POINT OF CROSSING
- NOTES:
- THERE SHALL BE IN ALL CASES A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN WATER MAINS AND FORCE MAINS.
 - WHEREVER POSSIBLE WATER MAINS SHALL PASS OVER FORCE MAINS OR STORM SEWERS.
 - FITTINGS SHALL BE RESTRAINED WITH MECHANICAL JOINT RESTRAINTS.
 - THE DEFLECTION TYPE CROSSING IS PREFERRED.
 - DO NOT EXCEED 75% OF MANUFACTURERS RECOMMENDED MAXIMUM JOINT DEFLECTION.
 - REFER TO TYPICAL RESTRAINING DETAIL PP 2.1

PRESSURE PIPE CONFLICT DETAIL PP 3.1



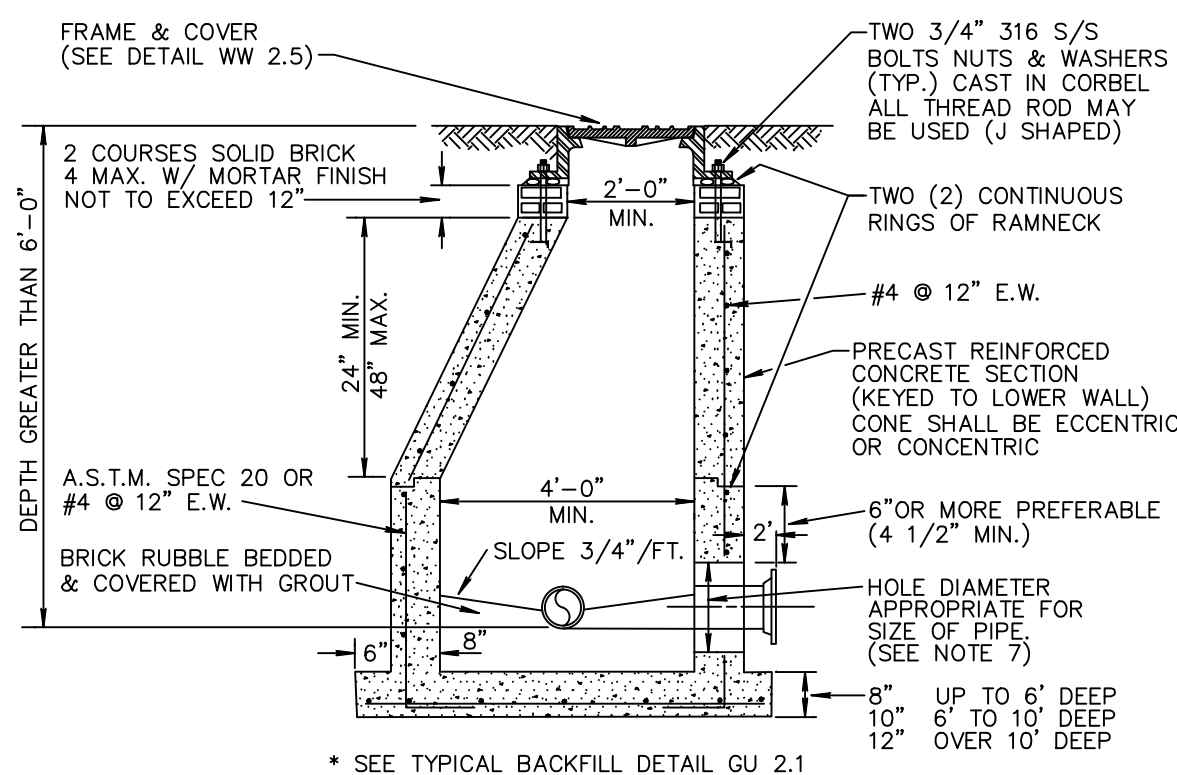
- WYE ENTRY
- WYE EXIT
- HINGED CLOSURE
- PRESSURE GAUGE
- PIG SNUBBER
- PRESSURE RECORDER CONNECTION
- LAUNCH LINE WATER OR AIR PRESSURE
- UNION CLOSURE
- GOOD FOR 16" AND LARGER
- HANDLE
- BLIND FLANGE CLOSURE
- GOOD FOR 6" THRU 16"
- DIMENSIONS:
- "A" TWO TO FOUR TIMES DIA. OF PIG
- "B" DIA. OF LINE TO BE CLEANED
- "C" ONE PIPE SIZE LARGER THAN PIG
- NOTE:
- ALL NEWLY INSTALLED WATER PRESSURE PIPE SHALL BE "PIGGED" DURING THE FILLING AND FLUSHING OPERATION. WASTEWATER PRESSURE PIPE SHALL BE "PIGGED" PRIOR TO FINAL ACCEPTANCE BY THE CITY. PIG SIZE SHALL BE PIPE DIA. PLUS 2" OR NEXT LARGER DIA.

PIG LAUNCHER DETAIL PP 5.1

GRAVITY SEWER NOTES

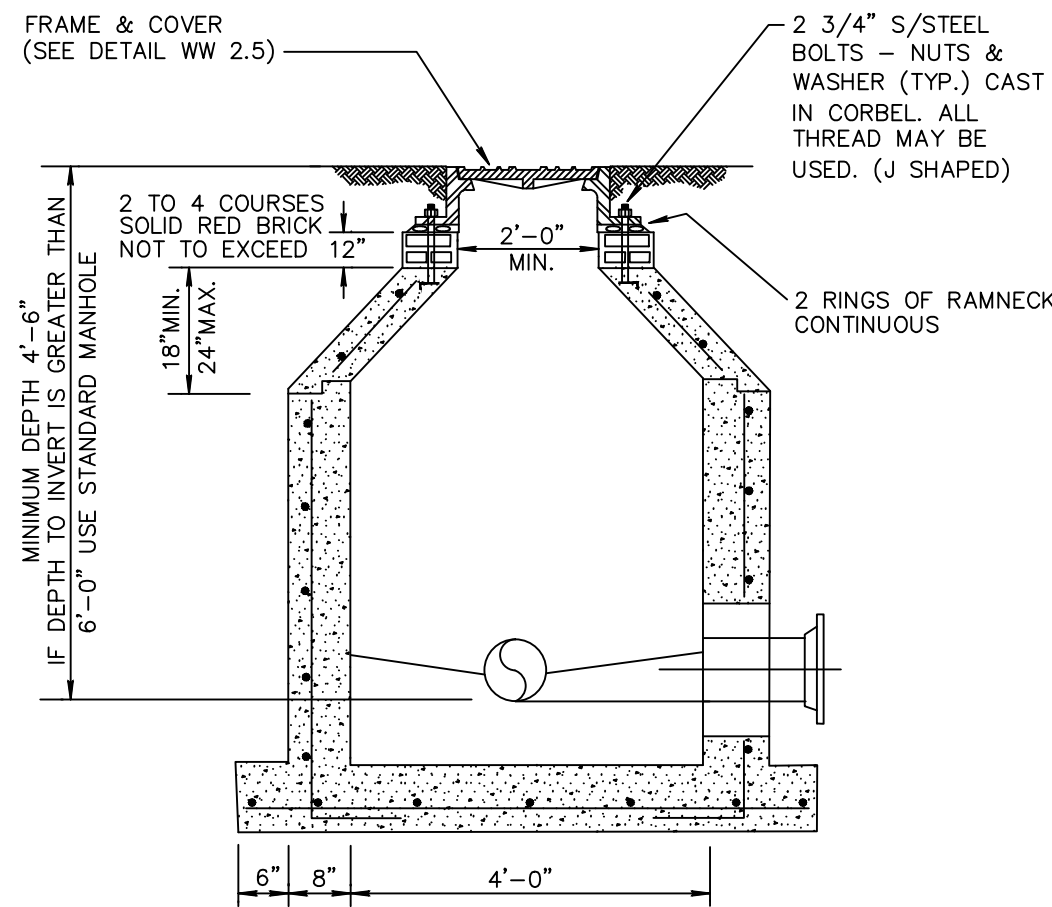
- MANHOLES SHALL BE INSPECTED BY THE ENGINEER BEFORE PLACEMENT AND SURFACE TREATMENT.
- ALL OPENINGS IN PRECAST MANHOLES SHALL BE CAST AT TIME OF MANUFACTURE. CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE ENTRY ONLY.
- ALL MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE.
- (PVC) GRAVITY SEWER PIPE SHALL CONFORM TO ASTM D 3034, SDR 35, LATEST REVISIONS, WITH PUSH ON RUBBER GASKET JOINTS.
- (DIP) GRAVITY SEWER PIPE SHALL BE CLASS 350, EPOXY LINED OR AS OTHERWISE APPROVED BY ENVIRONMENTAL SERVICES DEPARTMENT.
- NO SERVICE CONNECTIONS, WYES, SERVICES OR VALVES WILL BE PERMITTED IN RESIDENTIAL DRIVEWAYS.
- MANHOLE FRAMES SHALL BE ATTACHED TO THE PRECAST STRUCTURE WITH A MINIMUM OF TWO 3/4" 316 STAINLESS STEEL BOLTS, NUTS AND WASHERS. FRAMES SHALL BE SEALED WITH A MINIMUM OF TWO 1/2" BEADS OF RAM-NEK CAULKING.
- TRENCHES SHALL BE DE-WATERED TO ENABLE PIPE AND APPURTENANCES TO BE INSTALLED FREE OF WATER ON UNDISTURBED SOIL IF UNSUITABLE SUBSURFACE MATERIAL IS ENCOUNTERED, EXCAVATE EXTRA 6" AND BACKFILL WITH 3/4" GRAVEL.
- PVC SHALL BE LAID IN STRICT CONFORMANCE TO MANUFACTURER'S SPEC (JOHN'S MANVILLE RING TITE PVC PIPE INSTALLATION GUIDE OR EQUAL). BACKFILLING OF UTILITY TRENCHES WILL NOT BE ALLOWED UNTIL INSPECTED BY THE ENGINEER.
- BACKFILL MATERIAL FOR SEWER MAIN AND LINES SHALL BE NON-COHESIVE, NON PLASTIC MATERIAL FREE OF ALL DEBRIS, LUMPS AND ORGANIC MATTER. BACKFILL MATERIAL PLACED WITHIN ONE (1) FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO (2) INCHES IN DIAMETER (1" FOR PVC PIPE) AND NO STONES LARGER THAN SIX (6) INCHES IN DIAMETER WILL BE PERMITTED IN ANY BACKFILL.
- ALL EXCAVATION IN EXISTING RIGHT OF WAY SHALL BE BACKFILLED AND STABILIZED AT THE END OF EACH DAY TO PERMIT PEDESTRIAN AND VEHICULAR TRAFFIC PRIOR TO THE CONTRACTOR LEAVING THE SITE.
- WHERE SEWER IS NOT WITHIN PUBLIC R/W, IT IS TO BE LOCATED IN A 12' UTILITY EASEMENT. CITY MAINTENANCE RESPONSIBILITY IS MANHOLE TO MANHOLE ONLY.
- UPON COMPLETION OF THE WORK AND PRIOR TO PLACEMENT OF ASPHALT A VISUAL INSPECTION BY THE ENGINEER SHALL BE MADE OF THE COMPLETED SYSTEM ALONG WITH A LOW PRESSURE AIR TEST, AFTER ROCK BASE FINISHED & PRIMED, OR 1ST LIFT OF ASPHALT PLACED. AFTER ALL OTHER TESTING HAS BEEN COMPLETED, A CD VIDEO RECORDING SHALL BE MADE BY THE CONTRACTOR AND APPROVED BY THE ENGINEER, BEFORE THE LENGTHS ARE ACCEPTED FOR MAINTENANCE.
- EACH LINE SEGMENT SHALL BE LAMPED TO DETERMINE PROPER ROUNDNESS.
- COMPLETE "AS BUILT" INFORMATION RELATIVE TO MANHOLES, VALVES, SERVICES FITTINGS, PIPE LENGTHS, INVERTS AND SLOPES SHALL BE ACCURATELY RECORDED & SUBMITTED TO THE ENGINEER CITY SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR.
- AT THE END OF THE ONE (1) YEAR WARRANTY PERIOD THE DEVELOPER/CONTRACTOR WILL T.V. INSPECT, AIR TEST EVERY JOINT, AND CHECK MANHOLE JOINTS AND CONNECTIONS TO DETERMINE IF REPAIRS ARE NECESSARY BEFORE THE WARRANTY BOND IS RELEASED.
- NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10- FEET FROM ANY EXISTING OR PROPOSED SANITARY SEWER FACILITY.
- ANY PIPE INTRODUCED INTO AN EXISTING MANHOLE MUST HAVE CARBOLINE BITUMASTIC 300M OR APPROVED EQUAL APPLIED EXTERNALLY WITHIN A MINIMUM 2-FOOT RADIUS OF OPENING AND THE ENTIRE MANHOLE MUST HAVE SEWPER COAT OR APPROVED EQUAL APPLIED INTERNALLY.
- ANY REHABILITATION TO AN EXISTING MANHOLE MUST BE INTERNALLY STRIPPED AND LINED WITH SEWPER COAT OR APPROVED EQUAL.

GRAVITY SEWER NOTES WW 1.1



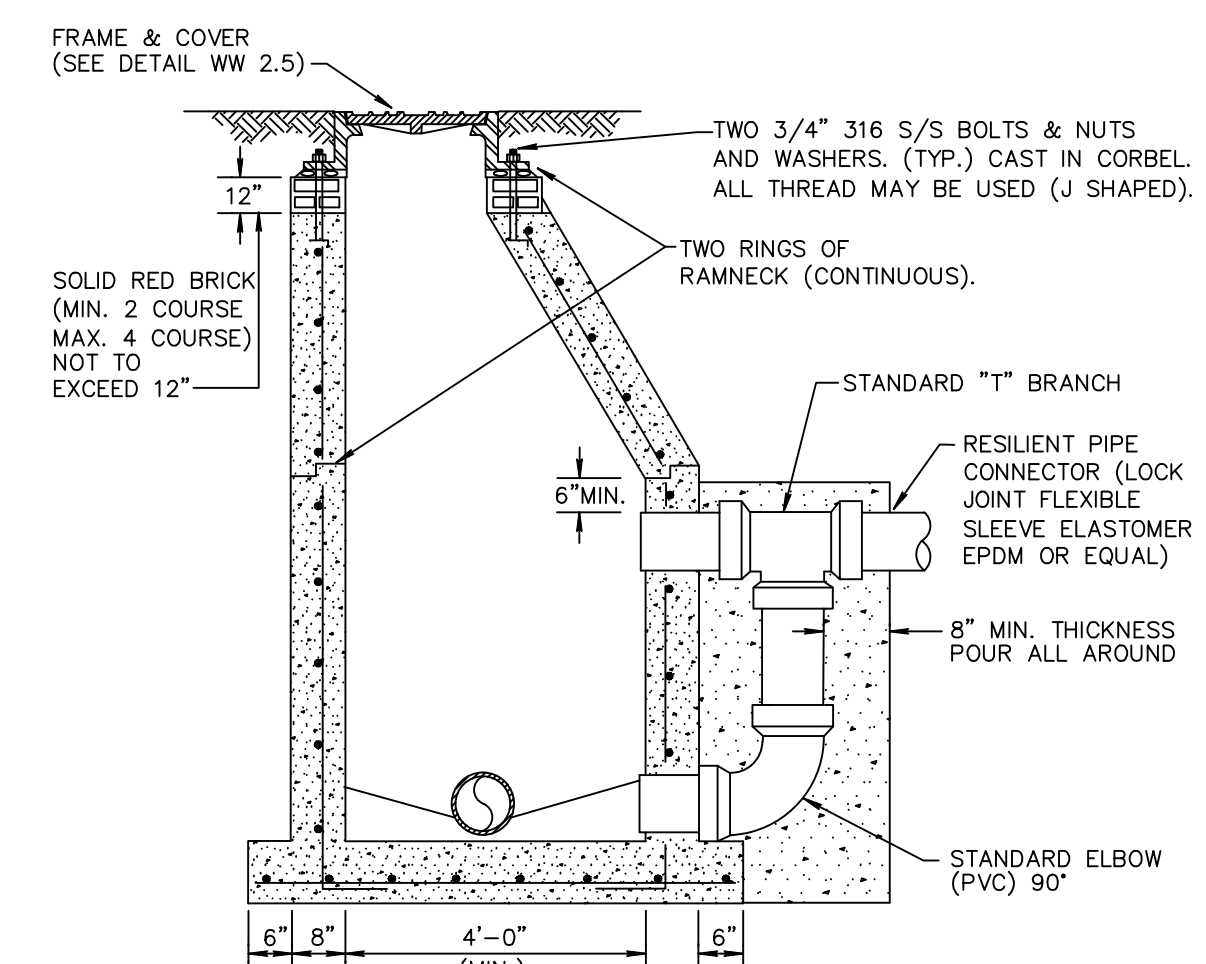
- FRAME & COVER (SEE DETAIL WW 2.5)
- TWO 3/4" 316 S/S BOLTS NUTS & WASHERS (TYP.) CAST IN CORBEL ALL THREAD ROD MAY BE USED (J SHAPED)
- TWO (2) CONTINUOUS RINGS OF RAMNEK
- PRECAST REINFORCED CONCRETE SECTION (KEYED TO LOWER WALL) CONE SHALL BE ECCENTRIC OR CONCENTRIC
- #4 @ 12" E.W.
- 6" OR MORE PREFERABLE (4 1/2" MIN.)
- HOLE DIAMETER APPROPRIATE FOR SIZE OF PIPE (SEE NOTE 7)
- UP TO 6" DEEP
- 6" TO 10" DEEP
- 12" OVER 10" DEEP
- NOTES:
- PRECAST CONCRETE TYPE II 4000 P.S.I.
 - RAMNEK AT ALL RISER JOINTS WITH GROUT ON INSIDE AND OUTSIDE AT ALL RISER JOINTS.
 - ALL OPENINGS SHALL BE SEALED WITH A WATERPROOF NON-SHRINKING GROUT.
 - FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM.
 - LIFT HOLES SHALL BE FILLED WITH EXPANDABLE GROUT
 - ALL PIPE HOLES SHALL BE PRECAST.
 - CAST IN PLACE FLEXIBLE PIPE-TO MANHOLE CONNECTOR (LOCK JOINT FLEXIBLE SLEEVE ELASTOMER EPDM OR RUBBER GASKET WITH GLASS FIBER REINFORCED NYLON 6/6 INTERNAL EXPANSION RING) INSTALLED PER MANUFACTURER.
 - PAINT MANHOLE INSIDE AND OUTSIDE WITH ONE (1) COAT RED CARBOLINE BITUMASTIC 300M THEN ONE (1) COAT BLACK OR APPROVED EQUAL, TO 8-10 MILS D.F.T./COAT, FIRST COAT RED THEN BLACK.
 - MANHOLE FABRICATION SHALL BE IN ACCORDANCE W/ ASTM C-478, LATEST STANDARD.
 - IF THE STRUCTURE IS INSTALLED IN WATER TABLE MUST HAVE BEDDING. (SEE DETAIL BEDDING WW6.1)

STANDARD MANHOLE DETAIL WW 2.1



- FRAME & COVER (SEE DETAIL WW 2.5)
- 2 3/4" S/STEEL BOLTS - NUTS & WASHER (TYP.) CAST IN CORBEL ALL THREAD MAY BE USED. (J SHAPED)
- 2 RINGS OF RAMNEK CONTINUOUS
- RESILIENT PIPE CONNECTOR (LOCK JOINT FLEXIBLE SLEEVE ELASTOMER EPDM OR EQUAL)
- 8" MIN. THICKNESS POUR ALL AROUND
- MINIMUM DEPTH 4'-6"
- IF DEPTH TO INVERT IS GREATER THAN 6'-0" USE STANDARD MANHOLE
- 2 TO 4 COURSES SOLID RED BRICK NOT TO EXCEED 12"
- 2'-0" MIN.
- 18" MIN.
- 24" MAX.
- 6" 8" 4'-0" 6"
- NOTE:
- ALL STANDARD MANHOLE NOTES AND DETAILS ARE APPLICABLE (DETAIL WW 2.1).

SHALLOW MANHOLE DETAIL WW 2.2



- FRAME & COVER (SEE DETAIL WW 2.5)
- TWO 3/4" 316 S/S BOLTS & NUTS AND WASHERS. (TYP.) CAST IN CORBEL ALL THREAD MAY BE USED (J SHAPED).
- TWO RINGS OF RAMNEK (CONTINUOUS).
- STANDARD "T" BRANCH
- RESILIENT PIPE CONNECTOR (LOCK JOINT FLEXIBLE SLEEVE ELASTOMER EPDM OR EQUAL)
- 8" MIN. THICKNESS POUR ALL AROUND
- STANDARD ELBOW (PVC) 90°
- NOTES:
- ALL DETAILS AND SPECIFICATIONS FOR STANDARD MANHOLES ARE APPLICABLE EXCEPT FOR REFERENCES TO DROP ASSEMBLY.
 - DROP CONNECTIONS SHALL BE REQUIRED WHENEVER AN INFLUENT INVERT IS LOCATED 2.0 FEET OR MORE ABOVE THE MAIN INVERT CHANNEL.
 - NO INSIDE DROP SHALL BE ALLOWED.

DROP MANHOLE DETAIL WW 2.3



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BY: BAB

REVISIONS: REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION

NO. DATE: 8/26/20

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STATE OF FLORIDA

REGISTERED PROFESSIONAL ENGINEER

NO. 12498

WATER & WASTEWATER DETAILS FOR:
BANYAN COURT
BARWICK ROAD
DELRAY BEACH, FLORIDA

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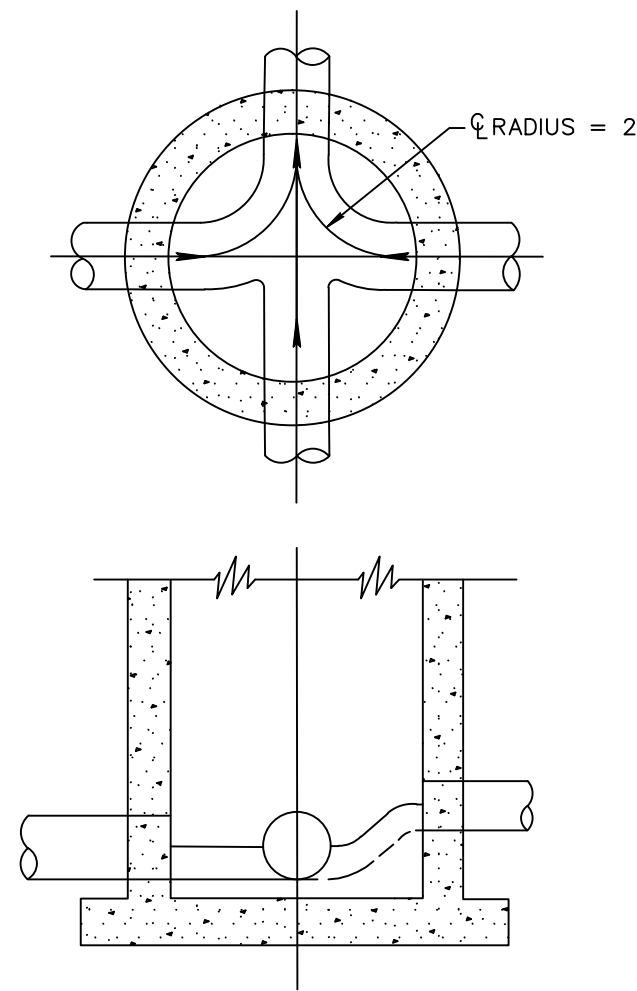
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DATE: 8/26/20

JOB NO. 19007-DTL

SHEET NO. 11 OF 15

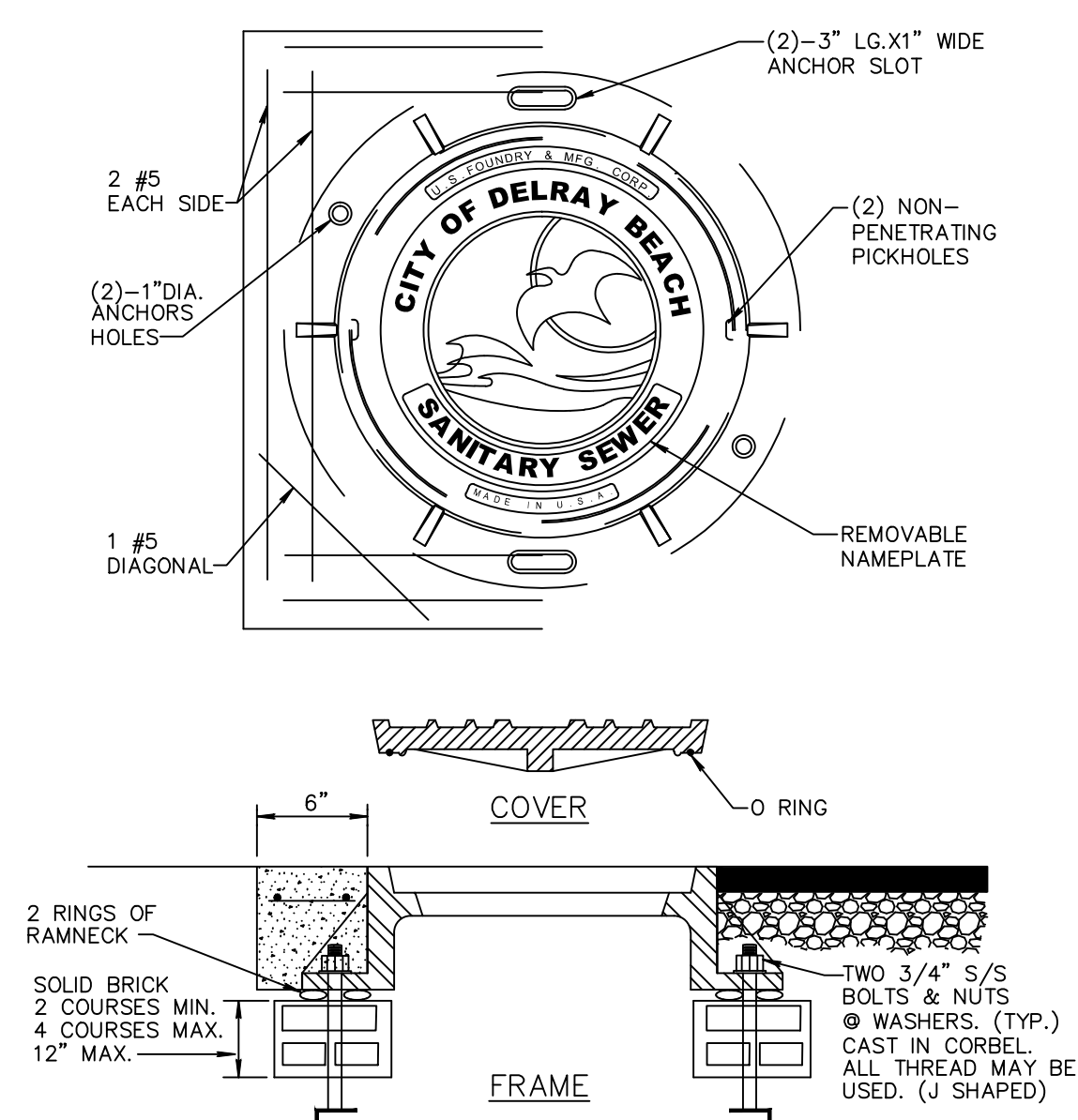
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NOTES:

1. ALL INVERT CHANNELS ARE TO BE CONSTRUCTED FOR SMOOTH FLOW WITHOUT OBSTRUCTION OR TURBULENCE.
2. PROPERLY SHAPED SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS TO PROVIDE FOR SMOOTH FLOWS.
3. SERVICE LATERALS SHALL NOT ENTER MANHOLES.
4. 2500 PSI CONCRETE ONLY PERMITTED AS FLOW CHANNEL BUILDUP.

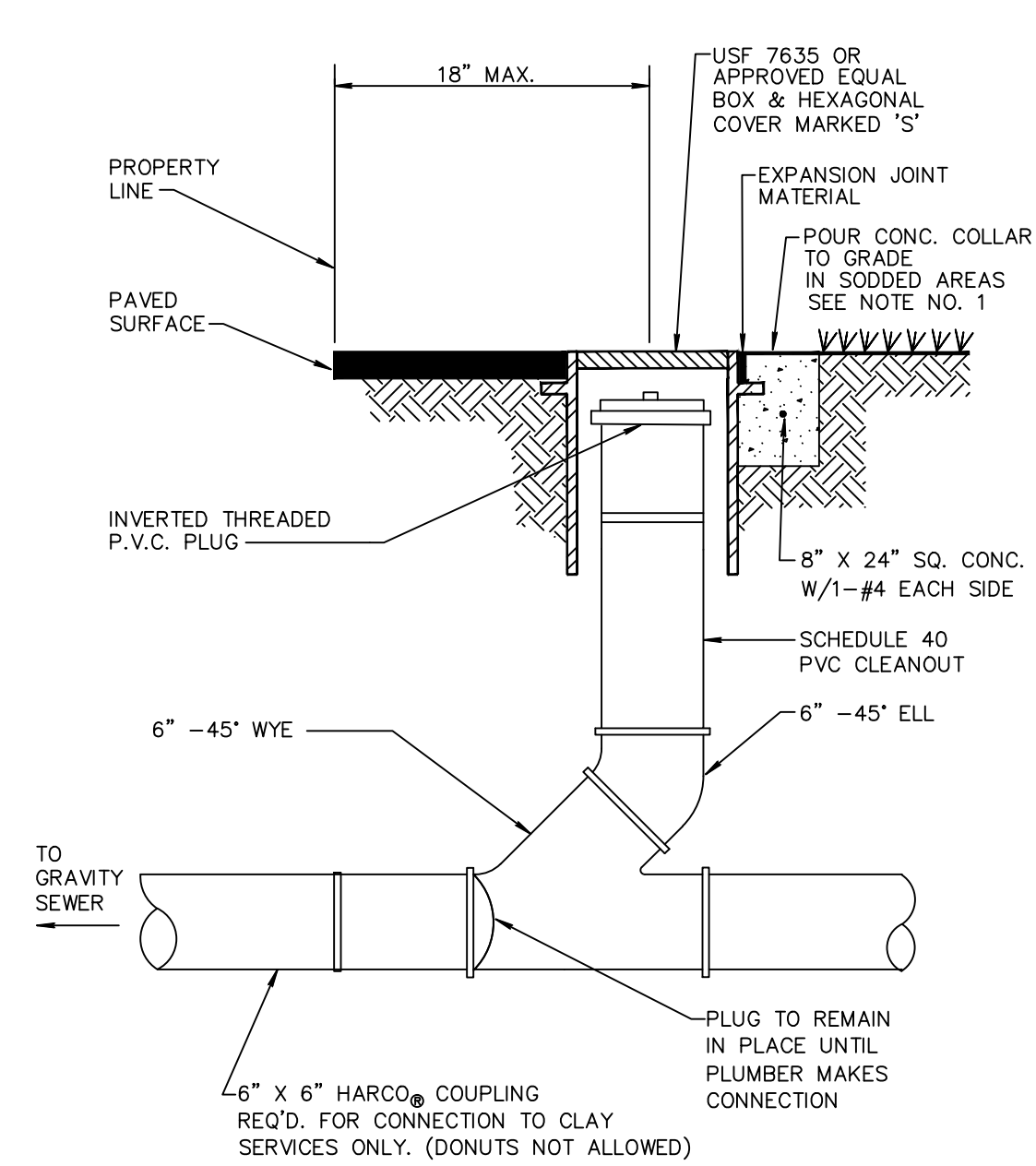
INVERT FLOW CHANNELS WW 2.4



NOTES:

1. COLLAR IS REQUIRED ONLY WHEN MANHOLE IS OUT OF PAVEMENT.
2. COVER SHALL BE U.S. MR-ORS AND RING SHALL BE USF 576 RING WITH BITUMASTIC COAL TAR.
3. MANHOLE ADJUSTING RINGS SHALL BE CAST IRON, USF TYPE B.

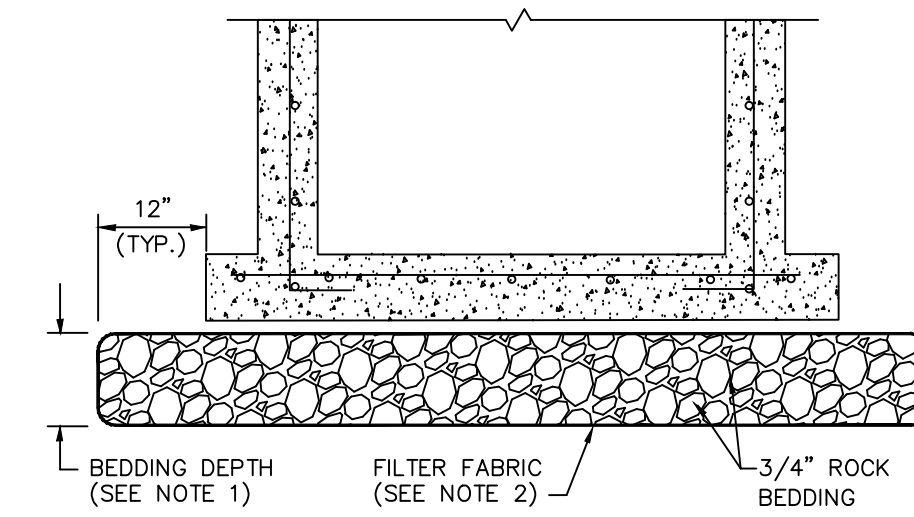
SANITARY SEWER MANHOLE FRAME AND COVER WW 2.5



NOTE:

1. INVERTED BRASS CAP SHALL BE USED IN GRASS AREAS IN LIEU OF CASTING AND CONE COLLAR.
2. MINIMUM DEPTH OF SERVICE LATERAL SHALL BE 3 FEET.

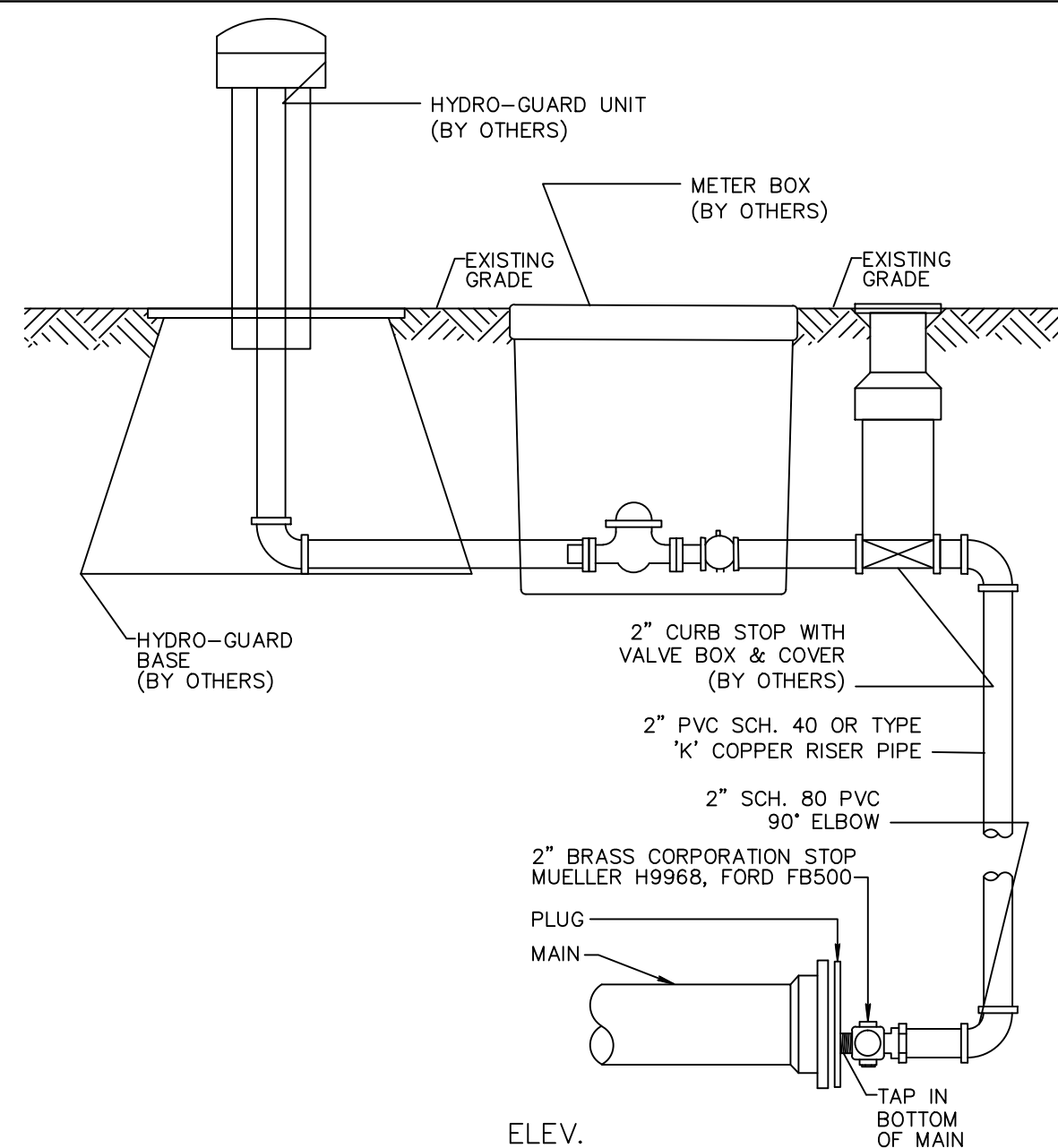
TYPICAL COMMERCIAL CLEANOUT WW 5.2



NOTES:

1. BEDDING DEPTH SHALL BE 10" UNDER DRAINAGE STRUCTURES AND 18" UNDER SANITARY STRUCTURES.
2. ROCK SHALL BE WRAPPED IN FILTER FABRIC THAT MEETS THE REQUIREMENTS OF F.D.O.T. SPECIFICATION SECTION 985.

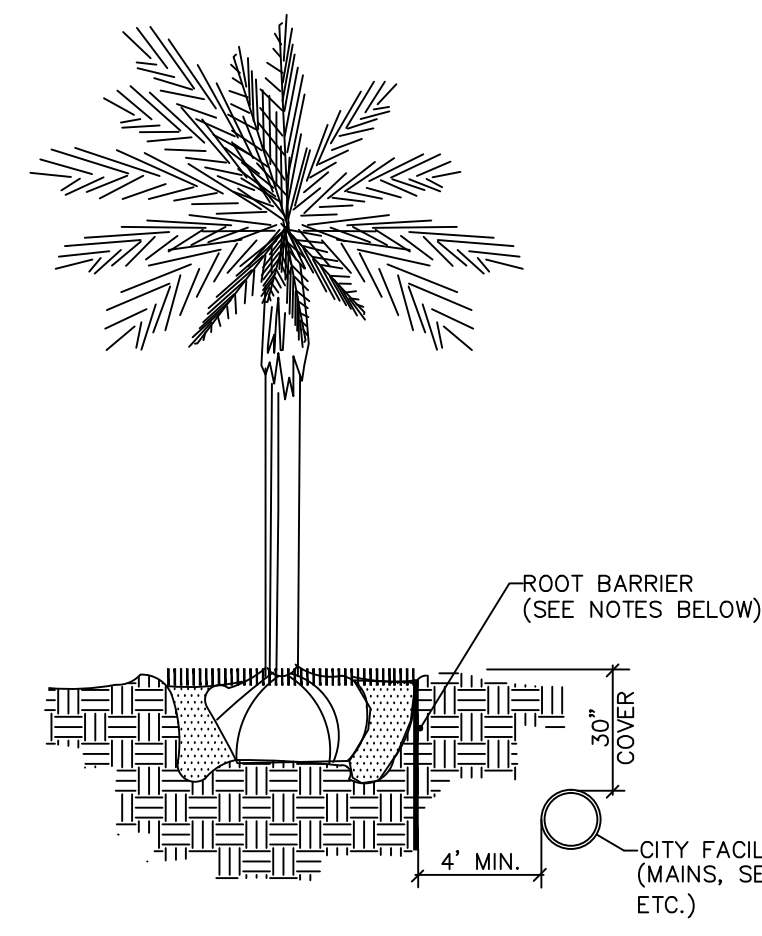
STANDARD BEDDING DETAIL



NOTES:

1. GALVANIZED PIPING AND FITTINGS SHALL NOT BE USED.
2. JOINT RESTRIANTS TO BE INSTALLED MIN. TWO JOINTS BEFORE DEAD END.
3. HYDRO-GUARD IS TO BE USED AT ALL PERMANENT DEAD ENDS.

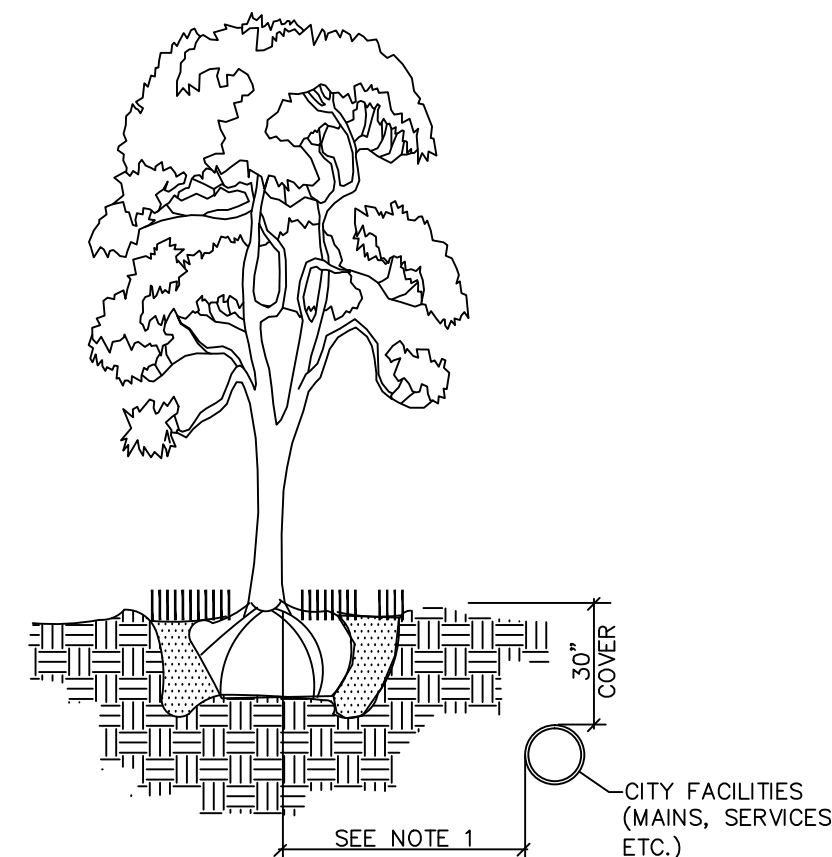
TYPICAL 2" TERMINAL BLOW-OFF FOR PERMANENT DEAD ENDS PW 6.1b



NOTES:

1. ALL ROOT BARRIERS SHALL BE 4" MINIMUM FROM ALL CITY FACILITIES.
2. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH CITY AND INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.
3. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.
4. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

TYPICAL TREE WITH ROOT BARRIER LD 1.1

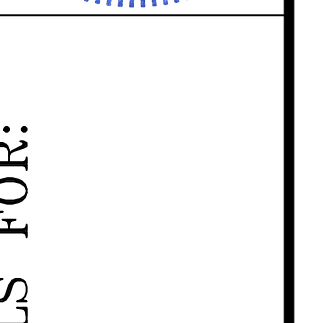


NOTES:

1. THIS DISTANCE SHALL BE 10" MINIMUM FROM ALL CITY FACILITIES IF NO ROOT BARRIER IS USED.

TYPICAL TREE WITHOUT ROOT BARRIER LD 1.2

BY:	REVISIONS:
BAB	ADD TERMINAL END FLUSHING DETAIL
BAB	REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION
BAB	
NO.	DATE:
1	7/23/19
2	8/26/20



WATER & WASTEWATER DETAILS FOR:
BANYAN COURT
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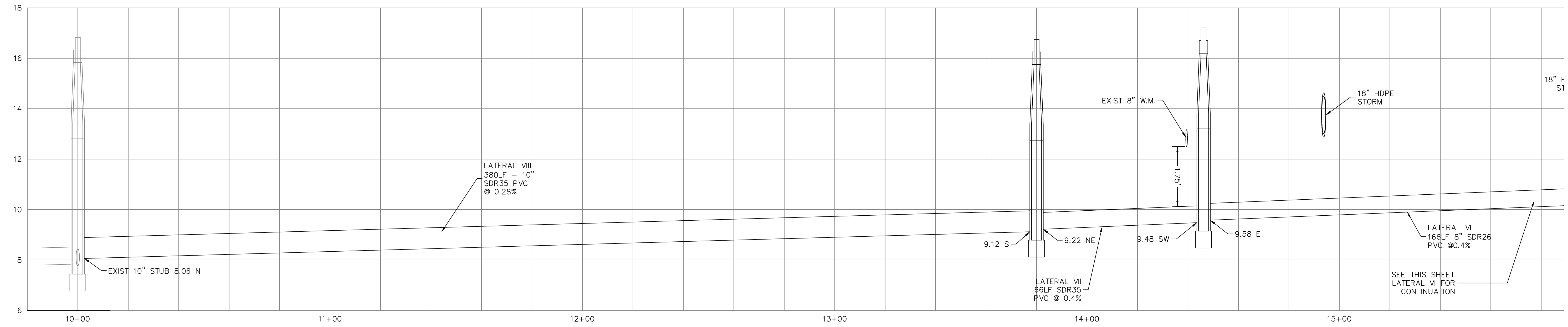
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EXIST	16.83
8.06 N	
7.81 S	
7.77 E	
7.95 W	

MH-8	16.75
9.22 NE	
9.12 S	

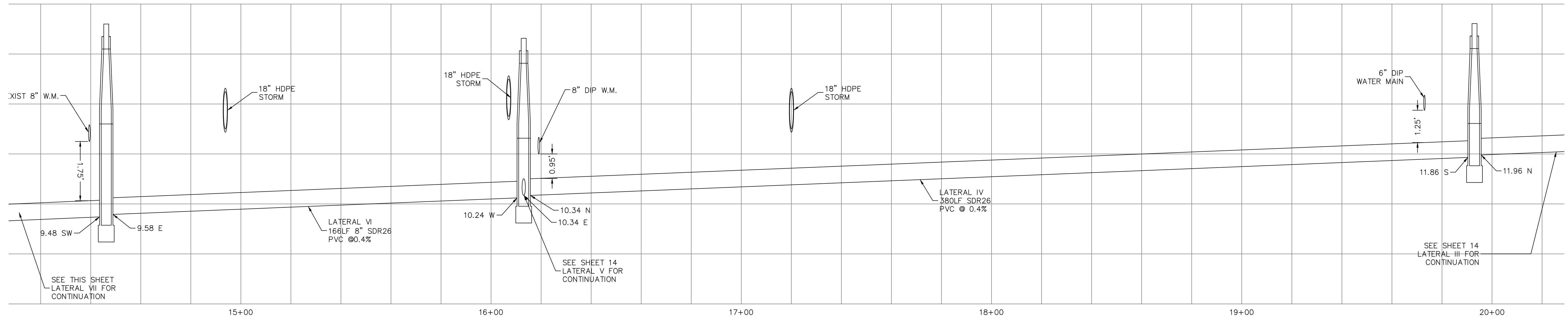
MH-7	17.20
9.58 E	
9.48 SW	



MH-7	17.20
9.58 E	
9.48 SW	

MH-6	16.63
10.34 N,E	
10.24 W	

MH-4	17.22
11.96 N	
11.86 S	



SANITARY SEWER PROFILES
 VERTICAL SCALE: 1" = 2'
 HORIZONTAL SCALE: 1" = 20'



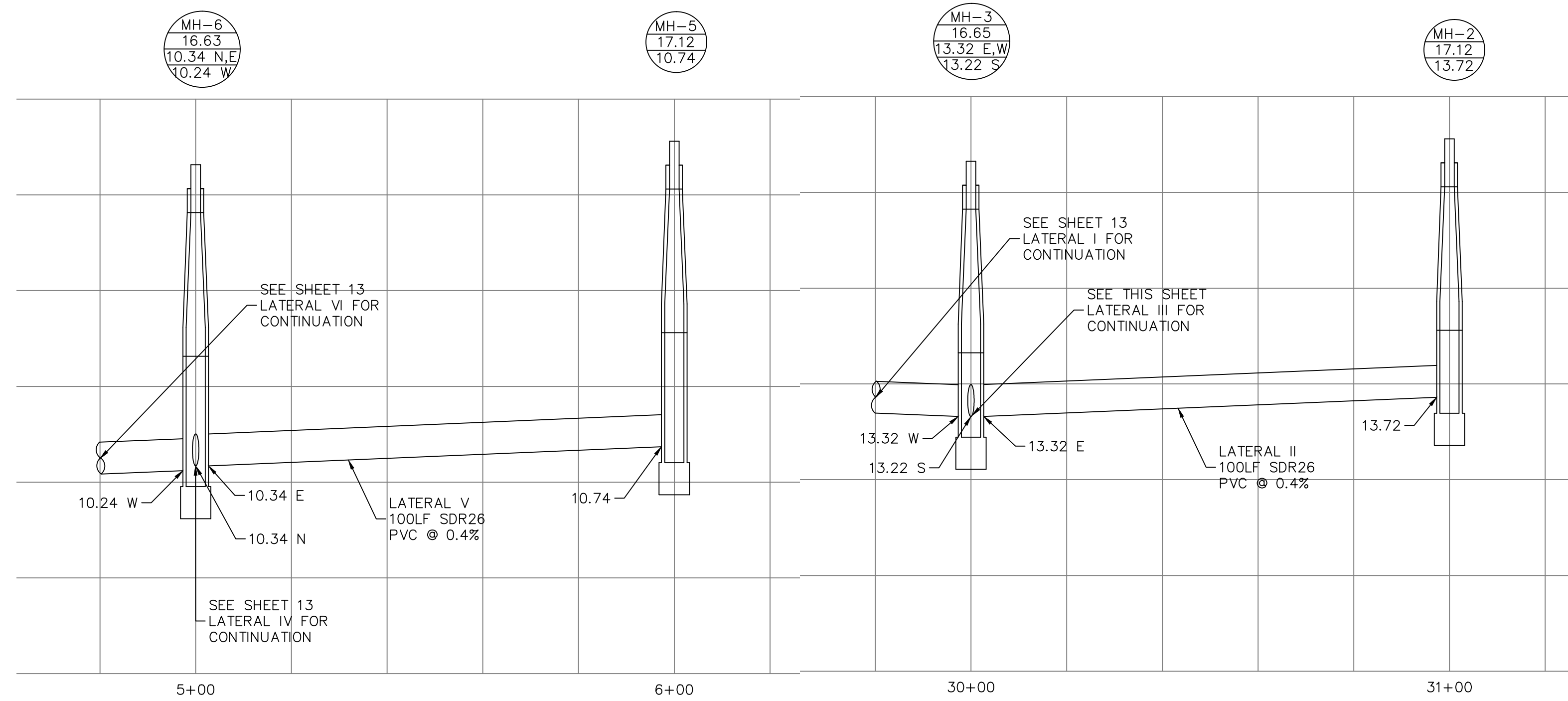
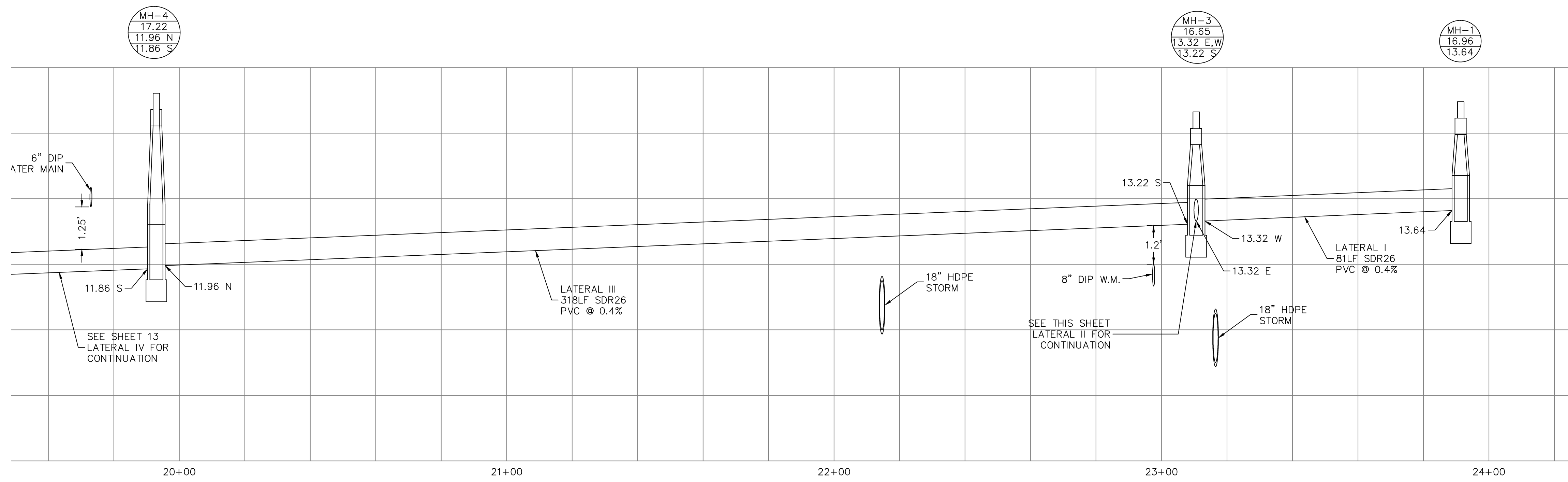
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NO.	Δ
DATE:	8/26/20
NO.	
DATE:	
NO.	
DATE:	
NO.	
DATE:	
NO.	
DATE:	

WATER & WASTEWATER DETAILS FOR:
BANYAN COURT
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SANITARY SEWER PROFILES

VERTICAL SCALE: 1" = 2'
 HORIZONTAL SCALE: 1" = 20'

NO.	DATE	REVISIONS
1	8/26/20	REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION

BY: BAB

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STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 No. 12466
 JOSEPH A. PACE, P.E.
 S.S. 5834, A-1986

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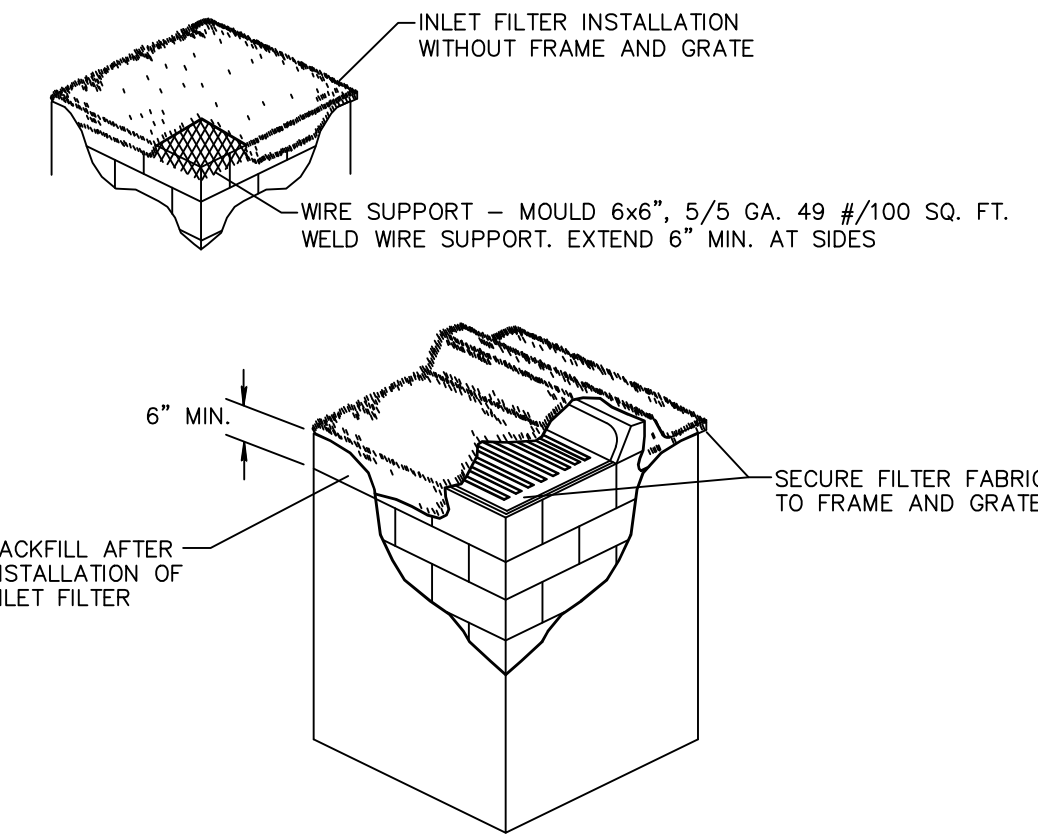
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NOTES:

- CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
- CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

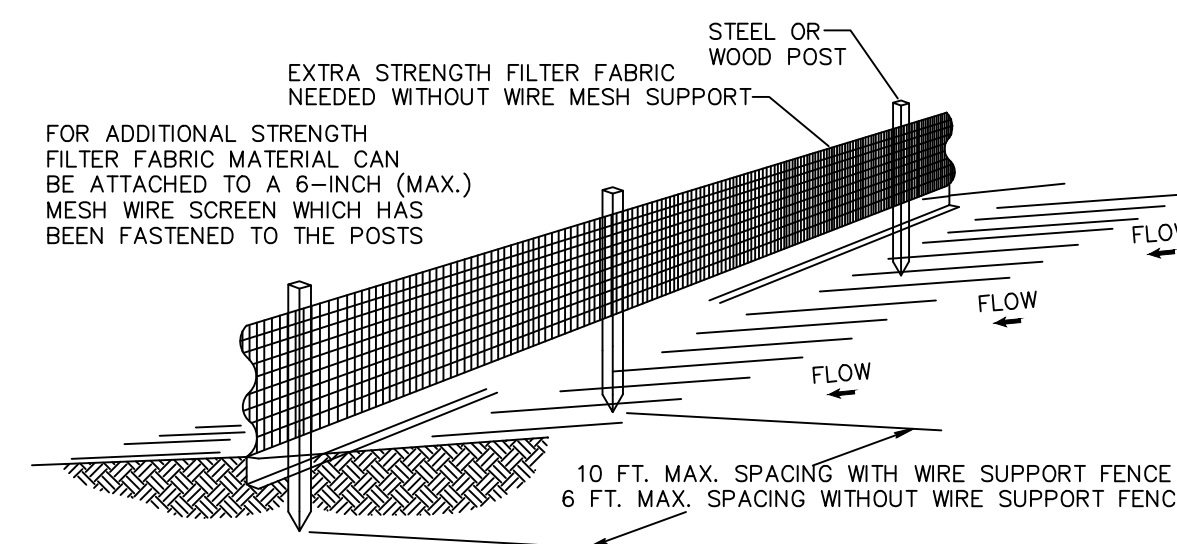
A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

INLET FILTER DETAIL D 8.1

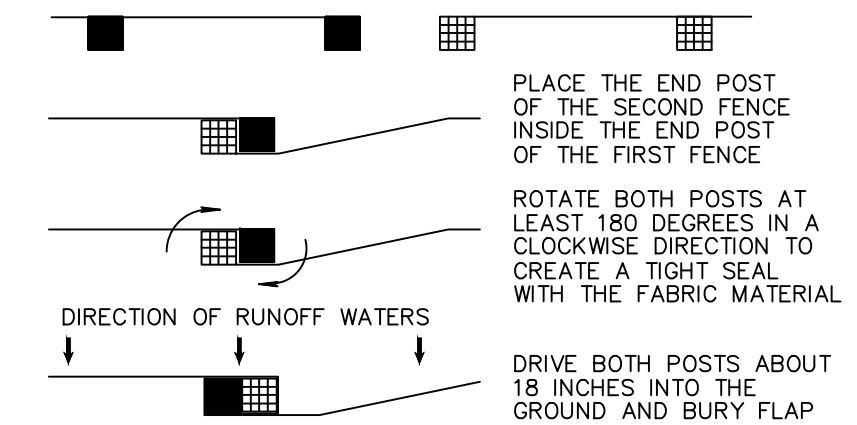
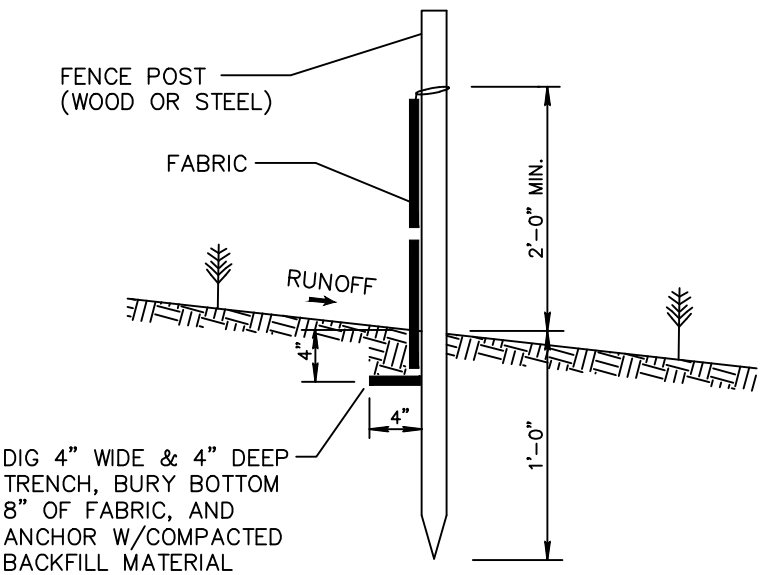
- THE INTENT OF EROSION CONTROL MEASURES INDICATED GRAPHICALLY ON PLANS IS TO PROVIDE A BARRIER TO CONTAIN SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS NOT TO BE DETERMINED BY ADHERENCE TO THE REPRESENT SET FORTH ON THE DRAWINGS AND SPECIFICATIONS, BUT BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURISDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS IN THE REGION.
- APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
- INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, OR AFTER EACH RAINFALL EVENT, REPAIR, AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTLY, AS NEEDED.
- KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
- FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
- DRAINAGE INLETS SHALL BE PROTECTED BY FILTER AND GRADED ROCK AS PER INLET PROTECTION DETAIL.
- ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE PRACTICAL.
- EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
- ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF DELRAY BEACH.
- DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.

EROSION CONTROL NOTES DETAIL D9.1

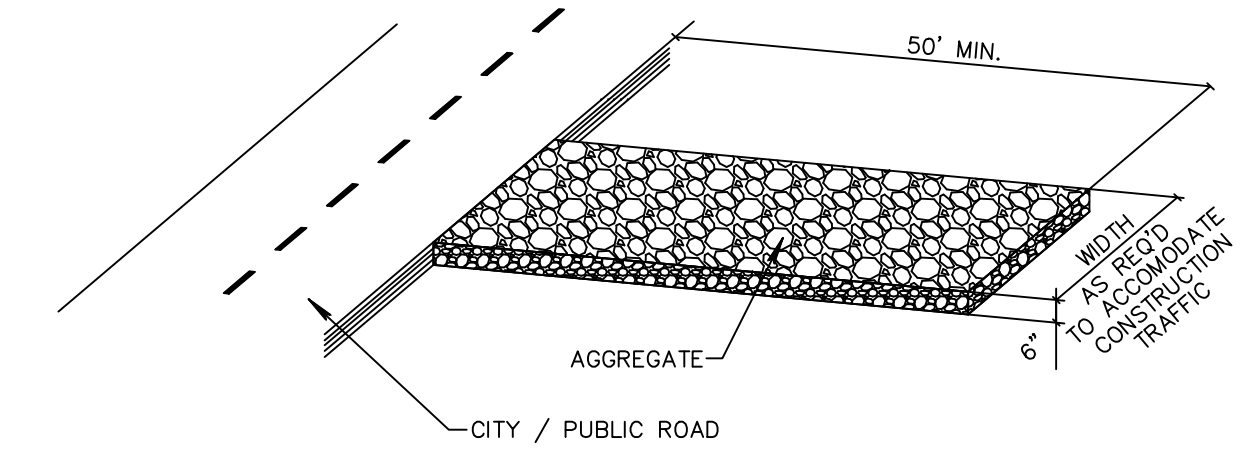


- NOTES:**
- THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
 - THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
 - POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
 - A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
 - WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, THE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
 - THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
 - THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
 - ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).
 - ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDP.

SILT FENCE INSTALLATION DETAIL D 9.1a
Sheet 1 of 2

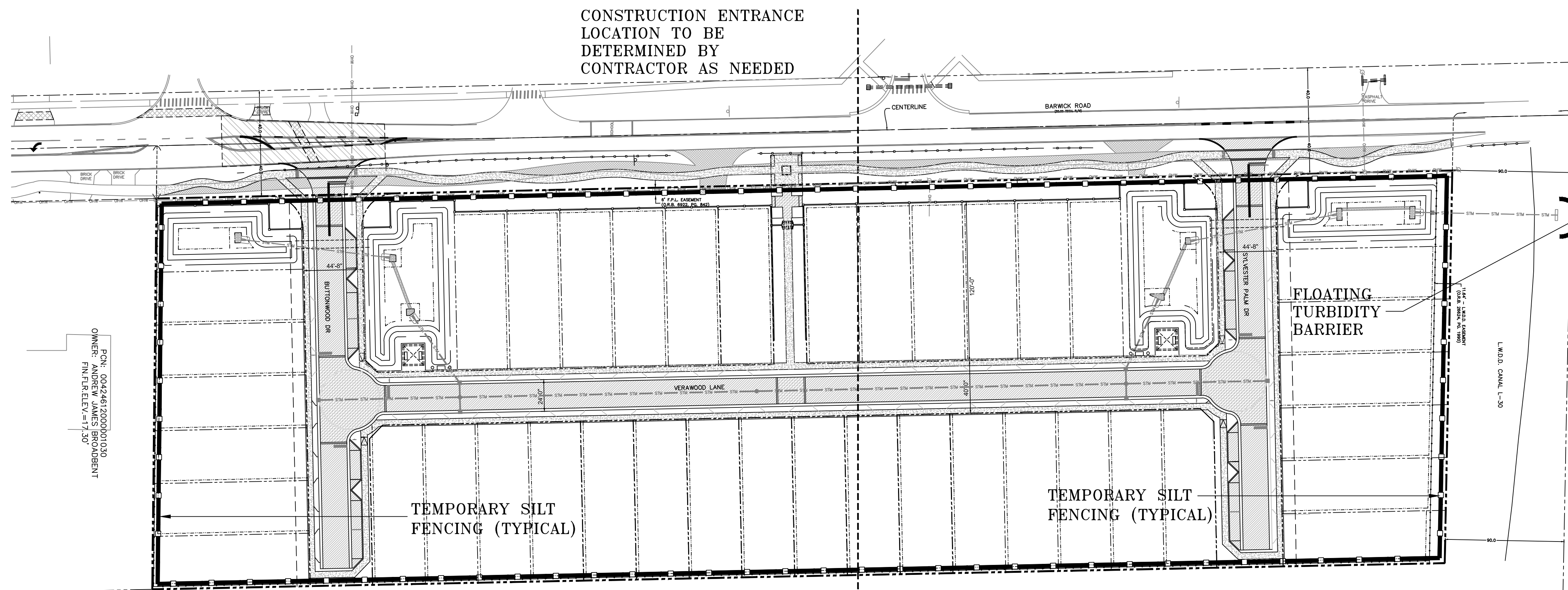


ATTACHING TWO SILT FENCES
NOT TO SCALE
SILT FENCE INSTALLATION DETAIL D 9.1b
Sheet 2 of 2



NOTE:
A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AND CONTAIN AN AGGREGATE LAYER (FDOT AGGREGATE NO.1), AT LEAST 6-INCHES THICK. IT MUST EXTEND TO THE WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA.

STABILIZED CONSTRUCTION ENTRANCE DETAIL D9.1C

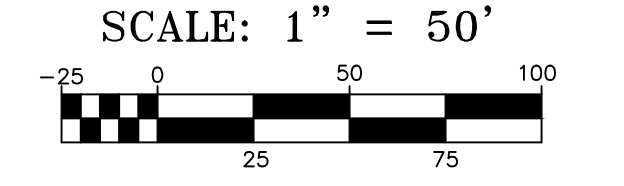


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PCN: 12-42-46-12-00-000-1090
OWNER: SCHOOL BOARD OF PALM BEACH COUNTY FL
PLANNING & REAL ESTATE SERVICES

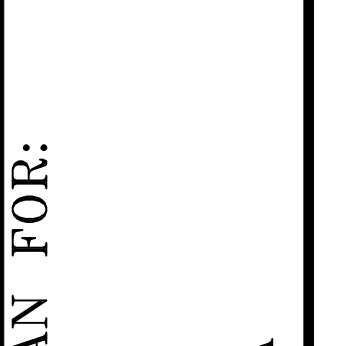


CALL 48 HOURS BEFORE YOU DIG.
IT'S THE LAW
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.



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BY:	BAB
REVISIONS:	REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION
DATE:	8/26/20
NO.	1



POLLUTION PREVENTION PLAN FOR:
BANYAN COURT
BARWICK ROAD
DELRAY BEACH, FLORIDA

EnviroDesign Associates, Inc.
www.envirodesign.com
ENGINEERS • ENVIRONMENTAL CONSULTANTS
FLORIDA CERTIFICATE OF AUTHORIZATION No. 6506
298 Pineapple Grove Way Delray Beach, Florida 33444
Phone: (561) 274-6500 Fax: (561) 274-8558

DRAWN:
B.A.B.
CHECKED:
J.A.P.
DATE:
8/26/20
JOB NO.
19007-ENG
SHEET NO.
15 OF 15

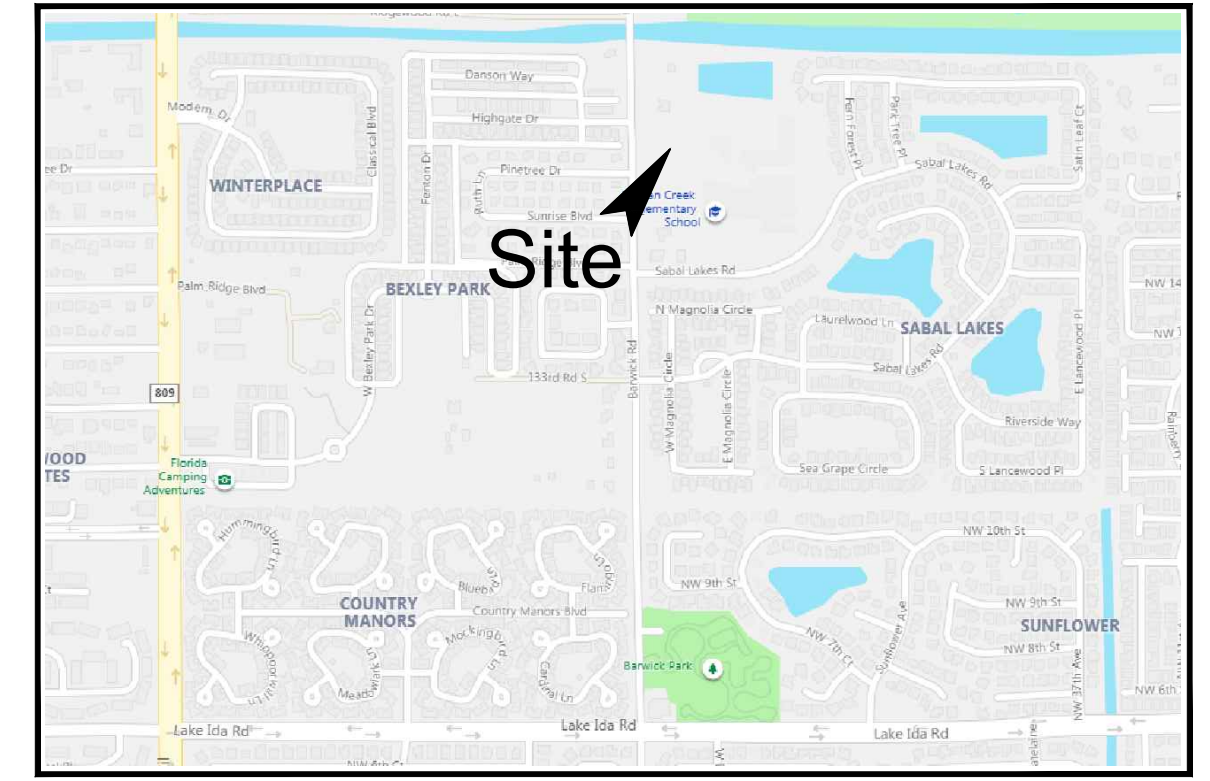
UTILITY PROVIDER SIGNOFF:

FPL: SIGNATURE _____ TITLE _____
 PRINT NAME _____ DATE _____

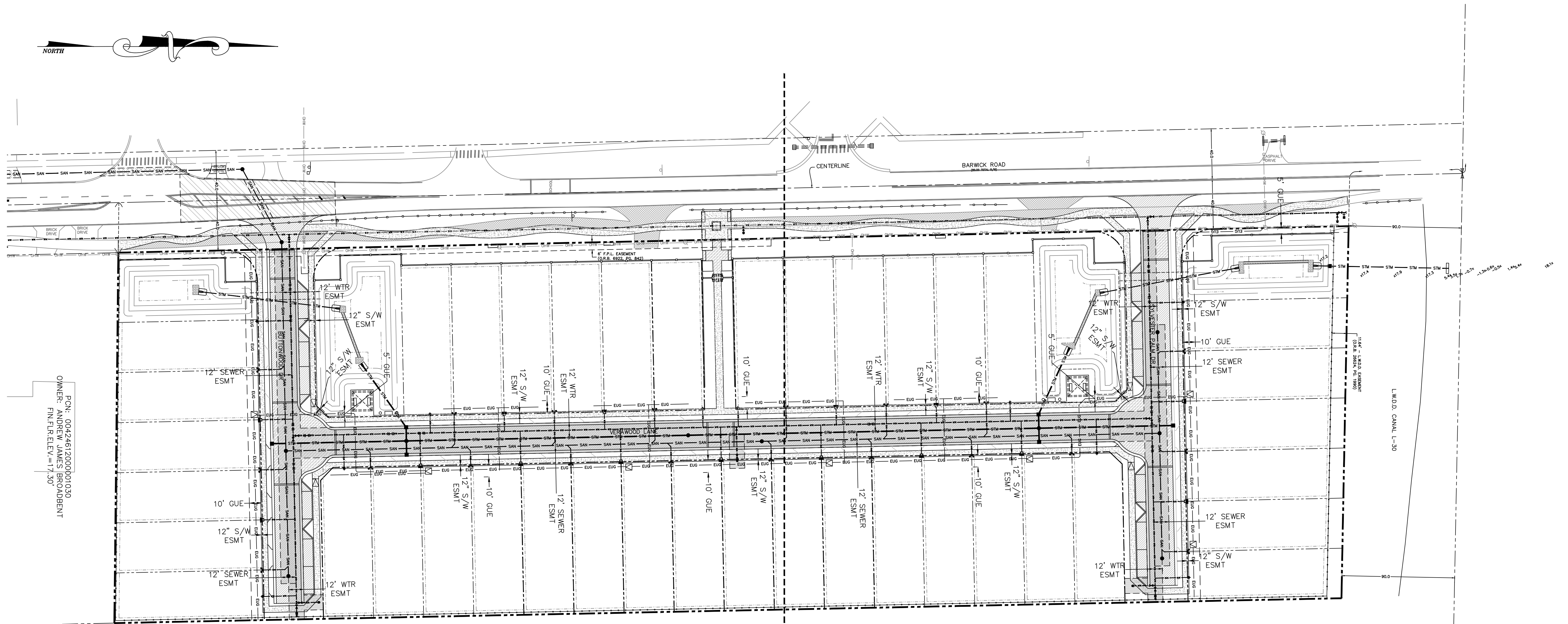
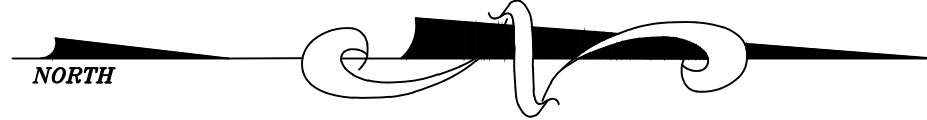
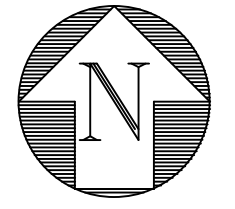
COMCAST: SIGNATURE _____ TITLE _____
 PRINT NAME _____ DATE _____

AT&T: SIGNATURE _____ TITLE _____
 PRINT NAME _____ DATE _____

FPU: SIGNATURE _____ TITLE _____
 PRINT NAME _____ DATE _____



LOCATION MAP
N.T.S.



PCN: 004246120000101030
 OWNER: ANDREW JAMES BROADBENT
 FIN.FL.ELEV.=17.30

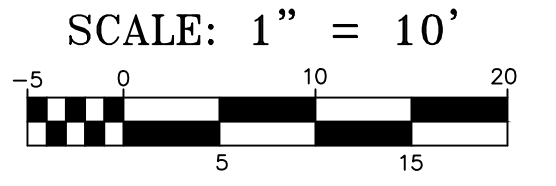
PCN: 12-42-46-12-00-000-1090
 OWNER: SCHOOL BOARD OF
 PALM BEACH COUNTY FL
 PLANNING & REAL ESTATE SERVICES

LEGEND:

- | | |
|--|----------------------------------|
| --- PROPERTY LINE | --- EXISTING STORM LINE |
| --- PROPOSED STORM LINE | --- EXISTING SANITARY SEWER LINE |
| --- PROPOSED SANITARY SEWER LINE | --- EXISTING WATER LINE |
| --- PROPOSED WATER LINE | --- EXISTING OVERHEAD LINES |
| --- PROPOSED ELECTRIC UNDERGROUND LINE | --- EXISTING GAS LINES |
| --- PROPOSED GAS LINE | |

NOTE: CONTRACTOR TO FIELD
 VERIFY EXACT LOCATION, SIZE, AND
 ELEVATION OF ALL IMPROVEMENTS
 AT TIME OF CONSTRUCTION AND
 REPORT ANY DISCREPANCIES TO
 ENVIRODESIGN ASSOCIATES, INC.

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BY:	BAB
REVISIONS:	REVISE PER LWD COMMENTS OF 2/3/20
NO.	REMOVE BUILDING FOOTPRINT FROM TYPICAL LOT SECTION
DATE:	8/26/20

COMPOSITE UTILITY PLAN FOR:
BANYAN COURT
 BARWICK ROAD
 DELRAY BEACH, FLORIDA

EnviroDesign Associates Inc.
 ENVIRONMENTAL CONSULTANTS
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 298 Pineapple Grove Way Delray Beach, Florida 33444
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