

1. APPLICABLE CODES

- 1.1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARD AND SPECIFICATIONS OF CITY OF POMPANO BEACH AND ALL OTHER LOCAL, STATE AND NATIONAL CODES WHERE APPLICABLE EXCEPT WITHIN DEPARTMENT OF TRANSPORTATION (D.O.T.) R/W WHEREIN FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) GOVERNS.
- 1.2. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
- 1.3. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988, (NAVD) UNLESS OTHERWISE NOTED.
- 1.4. CITY OF POMPANO BEACH WATER AND SEWER DEPARTMENT WATER AND SEWER SPECIFICATIONS SHALL DICTATE WHEN IN CONFLICT WITH ANY OF THE FOLLOWING SPECIFICATIONS.
- 1.5. ALL MATERIALS AND CONSTRUCTION WITHIN THE D.O.T. R/W SHALL CONFORM TO THE D.O.T. "DESIGN STANDARDS" (2015) AND "STANDARD SPECIFICATIONS" (2015).
- 1.6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MAINTENANCE OF TRAFFIC (M.O.T) PLAN PRIOR TO CONSTRUCTION. THE CONSULTANT'S ENGINEER SHALL ENSURE THAT THE M.O.T PLAN FOR THE PROJECT CONFORMS WITH STANDARD INDEX SERIES 600, APPLICABLE INDEX FOR WORK BEING PERFORMED, THE CONTRACTOR SHALL ENSURE THE M.O.T. PLAN IS IMPLEMENTED EXACTLY AS APPROVED.

2. PRECONSTRUCTION RESPONSIBILITIES

- 2.5. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.
- 2.6. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION, CALL 1-800-432-4770.
- 2.7. ALL UTILITY EASEMENTS TO BE SECURED PRIOR TO CONSTRUCTION (IF REQUIRED).
- 2.8. LOCATION OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE DRAWN FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FACILITIES SHOWN OR FOR ANY FACILITY NOT SHOWN. THE CONTRACTOR SHALL VERIFY, IF POSSIBLE, THE ELEVATIONS AND LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION. IF AN EXISTING FACILITY IS FOUND TO CONFLICT WITH THE PROPOSED CONSTRUCTION UPON EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE PROBLEM.
- 2.9. THE CONTRACTOR MUST CALL CITY OF POMPANO BEACH AT LEAST 48 HOURS BEFORE ANY EXCAVATION WITHIN THE R/W TO DETERMINE THE LOCATION TO OF THE EXISTING TRAFFIC SIGNAL INTERCONNECT CABLE.

3. INSPECTIONS

- 3.1. THE CONTRACTOR SHALL NOTIFY CITY OF POMPANO BEACH, AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 24 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS, WHERE APPLICABLE:
- 3.1.1. CLEARING AND FILLING
- 3.1.2. STORM DRAINAGE SYSTEM
- 3.1.3. SANITARY SEWER SYSTEM
- 3.1.4. WATER DISTRIBUTION SYSTEM
- 3.1.5. SUBGRADE
- 3.1.6. LIMEROCK BASE
- 3.1.7. ASPHALTIC CONCRETE
- 3.1.8. SIDEWALK
- 3.1.9. FINAL

4. SHOP DRAWINGS

- 4.1. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND CITY OF POMPANO BEACH FOR THE FOLLOWING: SANITARY MANHOLES, STORM DRAIN MANHOLES, CATCH BASINS, FIRE HYDRANTS, PIPING, VALVES AND ALL REQUIRED ACCESSORIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY APPROVALS IF REQUIRED.

5. TEMPORARY FACILITIES

- 5.1. TEMPORARY FACILITIES:
- 5.1.1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY.
- 5.2. TRAFFIC REGULATION:
- 5.2.1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH MANUAL TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
- 5.2.2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- 5.2.3. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF CITY OF POMPANO BEACH.
- 5.2.4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR ANY NECESSARY CONSTRUCTION, PAVEMENT MARKING AND SIGNAGE OR ANY PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN ALTERNATE SAFE WALK ROUTE.

6. WATER DISTRIBUTION SYSTEM

- 6.1. SEPARATION OF WATER AND SEWER MAINS:
- 6.1.1. SANITARY SEWERS, STORM SEWERS, AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS, STORM SEWERS, AND FORCE MAINS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 12" INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.
- 6.1.2. WHERE SANITARY SEWERS, STORM SEWERS, OR FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 12" INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
- 6.1.3. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).
- 6.1.4. WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN

- 12" INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP, AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.
- 6.1.5. A MINIMUM 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
- 6.1.6. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELVE LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
- 6.1.7. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 12" INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

- 6.1.8. CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL EXISTING FACILITIES DURING CONSTRUCTION.

6.2. MATERIALS:

- 6.2.1. POLYVINYL CHLORIDE (PVC) PIPE SHALL BE DR 18 ANSI / AWWA C900-91 OR LATEST REVISION.
- 6.2.2. ALL PIPE LARGER THAN 12" DIAMETER MUST BE DUCTILE IRON (MIN. CLASS 50), 8" AND 10" DIP (MIN. CLASS 50) 4" AND 6" DIP (MIN. CLASS 52). ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51-96 AND CEMENT MORTAR LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-95.
- 6.2.3. FITTINGS SHALL BE DUCTILE IRON MEETING ANSI/AWWA C-153/A21.53-00 SPECIFICATIONS. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-95.
- 6.2.4. VALVES SHALL BE GATE VALVES, IRON BODY, FULLY RESILIENT SEAT BRONZED MOUNTED NON-RISING STEM, RATED AT 200 PSI AND CONFORMING TO ANSI/AWWA C509-94 OR LATEST REVISION, AND SHALL HAVE MECHANICAL JOINTS.

- 6.2.4.1. GATE VALVES 4" AND LARGER SHALL BE MUELLER A-2380-20, RESILIENT SEATED GATE VALVES SHALL BE AMERICAN 80 LINE OR CLOW F-6100, CONFORMING TO ANSI/AWWA C500-93.

- 6.2.4.2. TAPPING VALVES SHALL BE MUELLER H667 OR APPROVED EQUAL.

- 6.2.4.3. GATE VALVES 3" OR LESS SHALL HAVE THE SAME REQUIREMENTS AS LARGER GATE VALVES. THEY SHALL BE 2" RSW VALVE WITH 2" OPERATING NUT.

- 6.2.5. TAPPING SLEEVES SHALL BE MUELLER H615, CLOW F-2505 OR APPROVED EQUAL.

- 6.2.6. VALVE BOXES SHALL BE TYLER OR APPROVED EQUAL.

- 6.2.7. RETAINER GLANDS SHALL BE MEGA-LUG AND CONFORM TO ANSI / AWWA C111/A21.11-00 OR LATEST REVISION. ALL GLANDS SHALL BE MANUFACTURED FROM DUCTILE IRON AS LISTED BY UNDERWRITERS LABORATORIES FOR 250 PSI MINIMUM WATER PRESSURE RATING.

- 6.2.8. NO DRESSER COUPLINGS SHALL BE ALLOWED ON DISTRIBUTION SYSTEM.

- 6.2.9. FIRE HYDRANTS SHALL BE MUELLER CENTURION TRAFFIC TYPE A-423 WITH 5 1/4" INTERNAL VALVE OPENING OR APPROVED EQUAL. MAIN VALVE OPENING TO BE DETERMINED BY THE WATER DEPARTMENT. PUMPER NOZZLE TO BE 18" FROM FINISHED GRADE OR CENTERLINE OF ADJACENT ROADWAY WHICHEVER IS GREATER. ALL HYDRANTS TO BE INSTALLED WITH CONTROL VALVE. RETAINER GLANDS ARE PREFERRED FOR RESTRAINING. FIRE HYDRANT SHALL COMPLY WITH ANSI/AWWA C502-94.

6.3. SERVICE CONNECTION:

- 6.3.1. SERVICE SADDLES SHALL BE STAINLESS STEEL STRAPS. SADDLES SHALL BE DOUBLE STRAP TYPE. ALL SERVICE SADDLES SHALL CONFORM TO ANSI/AWWA C111/A21.11-00 AND ASTM A-588.
- 6.3.2. SERVICE LINES SHALL BE POLYETHYLENE (3408), 250 PSI RATED, SDR9 PIPE JOINTS SHALL BE OF THE COMPRESSION TYPE TOTALLY CONFINED GRIP SEAL AND COUPLING NUT WITH STAINLESS STEEL INSERTS.
- 6.3.3. CORPORATION STOPS SHALL BE MANUFACTURED OF BRASS ALLOY IN ACCORDANCE WITH ASTM B-62 WITH THREADED ENDS, AS MANUFACTURED BY MUELLER H10046 OR APPROVED EQUAL.
- 6.3.4. CURB STOPS SHALL BE MUELLER H10203 OR APPROVED EQUAL.
- 6.3.5. METER STOPS SHALL BE LOCKWING TYPE AND SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE WITH ASTM B-62. METER STOPS SHALL BE CLOSED BOTTOM DESIGN AND RESILIENT "O" RING SEALED AGAINST EXTERNAL LEAKAGE AT THE TOP. STOPS SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES, AS MANUFACTURED BY MUELLER OR APPROVED EQUAL.

6.4. INSTALLATION:

- 6.4.1. ALL PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE UNI-BELL PLASTIC PIPE ASSOCIATIONS "GUIDE FOR INSTALLATION OF PVC PRESSURE PIPE FOR MUNICIPAL WATER DISTRIBUTION SYSTEM."
- 6.4.2. ALL DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-99 OR LATEST REVISION.
- 6.4.3. ALL WATER MAINS SHALL BE LAID WITH A MINIMUM 36" COVER FOR PVC AND 30" FOR DIP.
- 6.4.4. NO CONNECTIONS TO EXISTING LINES SHALL BE MADE UNTIL PRESSURE TESTS & BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED AND THE SYSTEM IS ACCEPTABLE TO CITY OF POMPANO BEACH AND THE HEALTH DEPARTMENT.
- 6.4.5. PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER.
- 6.4.6. A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED. BACKFILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE PIPE AS SHOWN ON THE PLANS. STONES FOUND IN THE TRENCH SHALL BE REMOVED TO A DEPTH OF AT LEAST 6" BELOW THE BOTTOM OF THE PIPE.
- 6.4.7. ALL VALVES SHALL BE INSTALLED WITH ADJUSTABLE CAST IRON VALVE BOXES WITH THE WORD "WATER" CAST IN THE COVER. U.S.F. OR APPROVED EQUAL.
- 6.4.8. ALL FITTINGS TO BE RESTRAINED WITH MEGALUG OR APPROVED EQUAL.
- 6.4.9. LOCATOR TAPE AND WIRE MUST BE INSTALLED 12" ABOVE NEW WATER

- MAINS. TAPE WILL BE 3" WIDE AND COLOR CODED. LOCATE WIRE WILL SHALL BE NO.14 STRAND AND COLOR CODED.

- 6.4.10. R.P.M.'S TO BE INSTALLED, PRIOR TO C/O, AT CENTER OF NEAREST DRIVE AISLE ADJACENT TO ALL HYDRANTS (BLUE) AND GATE VALVES (WHITE). FOR HYDRANTS AT CORNERS (2) TWO R.P.M.'S SHALL BE INSTALLED, ONE AT EACH ROADWAY.

6.5. TESTING:

- 6.5.1. BEFORE ANY PHYSICAL CONNECTIONS TO THE EXISTING WATER MAINS ARE MADE, THE COMPLETE WATER SYSTEM SHALL BE PRESSURE TESTED AND DISINFECTED. HYDROSTATIC TESTING OF NEW MAINS SHALL BE PERFORMED AT A MINIMUM STARTING PRESSURE OF 150 PSI FOR TWO HOURS IN ACCORDANCE WITH ANSI/AWWA C600-99 OR LATEST REVISION, THE PRESSURE TEST SHALL NOT VARY MORE THAN 5 PSI DURING THE TEST.

- 6.5.2. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF CITY OF POMPANO BEACH UTILITIES DEPARTMENT AND THE ENGINEER OF RECORD.

- 6.5.3. ALL NEW WATER MAINS SHALL BE PIGGED AND CANON FLUSHED PRIOR TO DISINFECTION.

- 6.5.4. BEFORE ACCEPTANCE FOR OPERATION, THE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE ANSI/AWWA C691-99; 150 PSI MINIMUM STARTING TEST PRESSURE. METER RECONNECTIONS MAY BE MADE TO NEW LINES AFTER TWO CONSECUTIVE DAYS OF BACTERIOLOGICAL SAMPLES HAVE PASSED, AND COPIES OF RESULTS HAVE BEEN RECEIVED BY THE ENGINEER, CITY OF POMPANO BEACH, AND HRS.

- 6.5.5. SAMPLING POINTS SHALL BE PROVIDED AT THE LOCATIONS SHOWN ON THE PLANS. IF NOT SPECIFIED, SAMPLING POINTS SHALL BE PROVIDED AT INTERVALS OF 1200' MAXIMUM FOR LINES GREATER THAN 2000' IN LENGTH.

- 6.5.6. THE ALLOWABLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA: $L = \frac{P - 0.8}{P + 0.8} \times D$ IN WHICH L EQUALS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR, S EQUALS LENGTH OF PIPE (LINEAR FEET), D EQUALS NOMINAL DIAMETER OF PIPE (INCHES) AND P EQUALS THE SQUARE ROOT OF THE AVE PRESSURE.

7. GRAVITY SEWER COLLECTION SYSTEM

7.1. GENERAL:

- 7.1.1. DISTANCE AND LENGTHS SHOWN ON PLANS ARE REFERENCED TO THE CENTER OF STRUCTURES.

7.2. MATERIALS:

- 7.2.1. ALL SEWER PIPE AND FITTINGS SHALL BE PVC SDR35 PIPE CONFORMING TO ANSI/AWWA STANDARD C500-89, CLASS 150, WITH PUSH-ON RUBBER GASKET JOINTS OR DUCTILE IRON PIPE WITH EPOXY COATING, PROTECTED 401 (MIN.CLASS 52), AS INDICATED ON THE DRAWINGS.

- 7.2.2. MANHOLES SHALL BE PRECAST PER ASTM C 478 WITH 4,000 PSI CONCRETE AND GRADE 60 STEEL, MONOLITHICALLY POURED BASES ONLY.

- 7.2.3. MANHOLES ARE TO BE SEALED WITH ANTI-HYDRO CEMENT OR APPROVED EQUAL - NO MOLDING PLASTER.

7.3. INSTALLATION:

- 7.3.1. PVC SEWER PIPE SHALL BE LAID IN ACCORDANCE WITH ASTM D 2321 AND THE UNI- ASSOCIATION'S "RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE."

- 7.3.2. DUCTILE IRON PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-93 OR LATEST REVISION.

- 7.3.3. SAND COLLAR SHALL BE GROUTED IN PLACE AT EACH PIPE CONNECTION INTO A MANHOLE WALL.

- 7.3.4. MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE ON FIRM SUBGRADE PROVIDING UNIFORM BEARING UNDER THE BASE.

- 7.3.5. ALL OPENINGS AND JOINTS SHALL BE SEALED WATERTIGHT.

- 7.3.6. THE ENTIRE INSIDE AND OUTSIDE OF THE MANHOLES SHALL BE PAINTED WITH TWO COATS, FIRST COAT RED, SECOND COAT BLACK (8 MILES EACH) OF KOPPERS 300-M BITUMASTIC PAINT OR ENGINEER'S APPROVED EQUAL.

- 7.3.7. EXISTING SEWER SYSTEM MUST REMAIN SEPERATE FROM NEW SEWER SYSTEM WITH A WING-NUT TYPE MECHANICAL PLUG UNTIL CERTIFICATION.

7.4. TESTING:

- 7.4.1. AFTER CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER MAY REQUIRE A VISUAL INFILTRATION AND/OR EXFILTRATION TEST TO BE PERFORMED ON THE ENTIRE SYSTEM OR ANY PART THEREOF.

- 7.4.2. AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXFILTRATION TEST, UPON APPROVAL OF THE ENGINEER.

- 7.4.3. MANHOLE LEAKAGE TEST SHALL NOT EXCEED FOUR GALLONS PER DAY PER UNIT. NO VISIBLE LEAKAGE ALLOWED.

- 7.4.4. SEWER PIPE LEAKAGE ALLOWABLE SHALL NOT EXCEED 150 GALLONS PER DAY PER INCH DIAMETER PER MILE IN A TWO HOUR TEST PERIOD FOR ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED.

8. STORM DRAINAGE

8.1. GENERAL:

- 8.1.1. DISTANCES AND LENGTHS SHOWN ON PLANS ARE REFERENCED TO THE CENTER OF STRUCTURES.

8.2. MATERIALS:

- 8.2.1. HIGH-DENSITY POLYETHYLENE (H.D.P.E.) SHALL MEET THE REQUIREMENTS OF ASTM F2619 / F2619M, LATEST REVISION.

- 8.2.2. REINFORCED CONCRETE PIPE (R.C.P.) SHALL MEET THE REQUIREMENTS OF ASTM C-76, LATEST REVISION. RUBBER GASKETS OR OTHER MANUFACTURER SUPPLIED JOINT SEALER SHALL BE USED.

- 8.2.3. CORRUGATED ALUMINUM PIPE (C.A.P.) SHALL BE HELICAL TYPE, CONFORMING TO ASTM B209 AND AASHTO M196, AS MANUFACTURED BY KAISER ALUMINUM, INC., OR APPROVED EQUAL. THE CORRUGATION PATTERN AND GAUGE SHALL BE AS FOLLOWS:

DIA.	CORRUGATION	GAUGE
12" to 21"	2 2/3" x 1/2"	16
24" to 27"	2 2/3" x 1/2"	14
30"	2 2/3" x 1/2"	14
36" to 54"	3" x 1"	14
60" to 78"	3" x 1"	12

- 8.2.4. PIPE COUPLINGS FOR C.A.P. SHALL BE 12" WIDE (MINIMUM) 24" FOR 60" DIAMETER OR LARGER. SPLIT BANDS OF THE SAME ALLOY AS THE PIPE

- MAY BE ONE GAUGE LIGHTER THAN THE PIPE. POLYURETHANE OR OTHER MANUFACTURER SUPPLIED SEALANT SHALL BE USED WITH THE COUPLINGS.

- 8.2.5. FIELD JOINTS IN THE PIPE SHALL BE MADE WITH ALUMINUM SPIRAL RIB PIPE FORMED FROM COILED ALUMINUM SHEETS AND SHALL CONFORM TO ASTM B2-09 AND AASHTO M196, AS APPROVED BY KAISER ALUMINUM, INC., OR APPROVED EQUAL.

- 8.2.6. ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE AS MANUFACTURED BY U.S. PRECAST CORPORATION, UNLESS OTHERWISE NOTED ON THE PLANS. BLOCK CATCH BASINS WILL BE ALLOWED ONLY WITH APPROVAL OF THE ENGINEER.

8.3. INSTALLATION:

- 8.3.1. PIPE SHALL BE PLACED ON A MINIMUM OF 8" STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION AND OTHER FOREIGN FORMATIONS, AND CONSTRUCTED TO A UNIFORM GRADE AND LINE.

- 8.3.2. BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL, WELL TAMPED TO A HEIGHT OF 12 INCHES ABOVE PIPE AS SHOWN ON THE PLANS. TAMPING TO BE DONE IN LAYERS NOT TO EXCEED 12 INCHES.

- 8.3.3. PROVIDE A MINIMUM PROTECTIVE COVER OF 18 INCHES OVER STORM SEWER AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.

- 8.3.4. THE CONTRACTOR SHALL NOTIFY CITY OF POMPANO BEACH ENGINEERING DIVISION AT LEAST 7 DAYS PRIOR TO THE START OF THE CONSTRUCTION AND INSPECTION.

9. PAVING AND SIDEWALKS

9.1. GENERAL:

- 9.1.1. ALL MUCK AND YIELDING MATERIAL WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH CLEAN FILL MATERIAL WHICH SHALL BE COMPACTED AND SHAPED TO CONFORM TO THE REQUIRED SECTION. COMPACTED AREAS, AS SHOWN ON THE PLANS AND OR AS DETERMINED BY THE ENGINEER, SHALL BE COMPACTED TO NOT LESS THAN 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE, AS DETERMINED BY AASHTO T-180, LATEST REVISION. AREAS TO BE STABILIZED, AS DETERMINED BY THE ENGINEER, SHALL HAVE A MINIMUM LBR=40.

- 9.1.2. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.

- 9.1.3. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION, SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.

- 9.1.4. WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.

9.2. MATERIALS:

- 9.2.1. BASE COURSE SHALL BE CRUSHED LIMEROCK WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM.

- 9.2.2. ASPHALT SURFACES SHALL BE TYPE S-III ASPHALTIC CONCRETE, UNLESS OTHERWISE SPECIFIED ON THE PLANS, TWO (2) SHALL BE A MINIMUM OF 1-1/2" THICK, A AND SHALL BE APPLIED IN (2) 3/4" LIFTS.

- 9.2.3. MINIMUM SIDEWALK CONSTRUCTION SHALL BE 4 INCH THICK CONCRETE, MINIMUM 3000psi COMPRESSIVE STRENGTH AT 28 DAYS. SAWCUT CONSTRUCTION JOINTS 5 FOOT C.G. WITHIN 48 HOURS OF PLACING, EXPANSION JOINTS SHALL BE 20 FOOT O.C.

- 9.2.4. CURBS AND GUTTERS- CONCRETE 3000psi COMPRESSIVE STRENGTH AT 28 DAYS. SAWCUT CONSTRUCTION JOINTS 10 FOOT C.G. WITHIN 48 HOURS OF PLACING.

- 9.2.5. REINFORCED CONCRETE SLABS SHALL BE CONSTRUCTED OF CLASS I CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI AND SHALL BE REINFORCED WITH A 6" x 6" NO. 10 GAUGE WIRE MESH.

9.3. INSTALLATION:

- 9.3.1. SUBGRADE FOR PAVEMENT AREAS SHALL BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DENSITY (AASHTO T-99(c)), AND SHALL HAVE A MINIMUM LBR 40.
- 9.3.2. BASE COURSE MATERIAL FOR PAVED AREAS SHALL BE AS SHOWN ON PLANS FOR VARIOUS LOCATIONS.

- 9.3.3. BASE COURSE MATERIAL FOR CURBS AND GUTTERS SHALL BE A MINIMUM THICKNESS OF 6 INCH.

- 9.3.4. BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND SHALL HAVE A MINIMUM LBR OF 100.

- 9.3.5. INSTALLATION OF THE WEARING SURFACE SHALL CONFORM WITH THE REQUIREMENTS OF THE D.O.T. STANDARD SPECIFICATIONS FOR TYPE S-3 ASPHALTIC CONCRETE.

9.4. TESTING:

- 9.4.1. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.

- 9.4.2. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE ENGINEER.

- 9.4.3. ALL TESTING COSTS (PAVING) SHALL BE PAID FOR BY THE CONTRACTOR.

- 9.4.4. DENSITY TESTS ON THE STABILIZED SUBGRADE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD AND APPROVED BEFORE ANY LIMEROCK BASE IS CONSTRUCTED.

- 9.4.5. DENSITY TESTS AND AS-BUILTS ON THE FINISHED LIMEROCK BASE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD, AND APPROVED BEFORE ANY ASPHALT PAVEMENT IS CONSTRUCTED.


10. PROJECT CLOSEOUT

10.1. CLEANING UP:

- 10.1.1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.

- 10.1.2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. THAT END, THE CONTRACTOR SHALL DO AS REQUIRED, ALL NECESSARY HIGHWAY, DRIVEWAY, WALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.

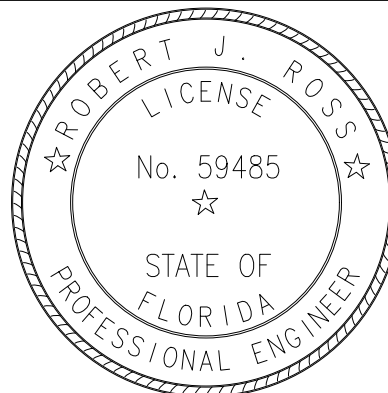
- 10.1.3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR HAS BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.

MR	4/10/20		04/07/20	CITY OF POMPANO BEACH COMMENTS
DESIGNED BY	DATE			
RE	4/10/20			
DRAWN BY	DATE			
MR	4/10/20			
CHECKED BY	DATE			
RR	4/10/20			
APPROVED BY	DATE	No.	DATE	REVISIONS

700 BRINY AVENUE TOWNHOMES
POMPANO BEACH
FL 33062



3325 S. UNIVERSITY DRIVE, SUITE 111
DAVIE, FLORIDA 33328
(954)318-0624 (954)358-0190 FAX
CERTIFICATE OF AUTHORIZATION NO. 9808



Date: 4/10/2020

GENERAL NOTES AND SPECIFICATIONS

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY ROBERT J. ROSS, P.E. ON 4/10/20 USING A SHA AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEAL AND SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SCALE:

SHEET No. 003 C-1



SCALE: 1"=20'

LEGEND

	PROPERTY LINE
	PROPOSED WATER SERVICE
	PROPOSED FIRE MAIN
	PROPOSED SANITARY LATERAL
	EXISTING DRAINAGE
	EXISTING SANITARY SEWER
	EXISTING WATER MAIN
	EXIST. WATER TO BE REMOVED
	PROPOSED BUILDING
	EXISTING SAND
	PROPOSED CONCRETE WALK
	PROPOSED ASPHALT
	PROPOSED SOD
	PROPOSED WATER METER
	PROPOSED GATE VALVE
	PROPOSED DOUBLE CHECK DETECTOR
	PROPOSED TAPPING SLEEVE
	PROPOSED CLEAN OUT
	PROPOSED BACK FLOW PREVENTOR

PROJECT WATER CALCULATIONS PROPOSED FLOWS

MULTIPLE DWELLINGS PER FAMILY UNIT, 250 GPD
NUMBER OF UNITS = 6
TOTAL = 250 x 6 = 1,500 GPD
*DESIGN FLOWS BASED ON BROWARD COUNTY'S CONSULTING ENGINEER'S GUIDE.

PROJECT WASTEWATER CALCULATIONS PROPOSED FLOWS

MULTIPLE DWELLINGS PER FAMILY UNIT, 142 GPD
NUMBER OF UNITS = 6
TOTAL = 142 x 6 = 852 GPD
*DESIGN FLOWS BASED ON BROWARD COUNTY'S CONSULTING ENGINEER'S GUIDE.

- ### NOTES:
- EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE LOCATIONS AND HAVE BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - CONTRACTOR TO FIELD VERIFY ANY CONFLICTS WITH TREES AND/OR UTILITIES AND DRAINAGE. CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS BEFORE PROCEEDING WITH ANY SOLUTION TO THE CONFLICT.
 - CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGE DONE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NOT EXPENSE TO THE SUBJECT UTILITY. CALL "SUNSHINE" 48 HOURS BEFORE DIGGING.
 - CONTRACTOR IS TO RESTORE ANY CURB, LANDSCAPE, ASPHALT, ETC. (NOT SCHEDULED FOR DEMOLITION) DAMAGED DURING CONSTRUCTION TO A CONDITION EQUAL TO WHAT IS EXISTING.
 - ALL PROPOSED FIRE LINES, MAINS, SERVICES, "SIAMASE" CONNECTION LINES ETC. TO BE DESIGNED AND INSTALLED BY STATE LICENSED FIRE LINE CONTRACTOR PER F.S. 633.
 - ALL FIRE LINES TO BE INSPECTED BY CERTIFIED FIRE LINE INSPECTORS
 - UPON COMPLETION OF REQUIRED TESTING, THE STATE LICENSED FIRE LINE CONTRACTOR SHALL ISSUE A "LICENSED UNDERGROUND TEST CERTIFICATE" PRIOR TO ACCEPTANCE FOR PLACING FIRE LINE INTO SERVICE.

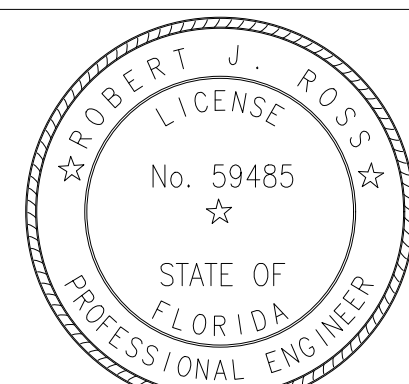
- ### FIRE DEPARTMENT NOTES
- VISIBILITY AND UNOBSTRUCTED WORKING SPACE MUST BE MAINTAINED FROM FIRE APPARATUS ACCESS ROUTES TO FIRE PROTECTION AND LIFE SAFETY APPLIANCES/EQUIPMENT. THESE INCLUDE, BUT NOT LIMITED TO: FIRE HYDRANTS, FIRE DEPARTMENT CONNECTIONS (FDC), POST INDICATING VALVES (PIV), FIRE SPRINKLER RISERS, FIRE ALARM CONTROL PANELS AND ELECTRICAL ROOM LOCATIONS.
 - FDC LOCATE BETWEEN ROAD ACCESS AND BACKFLOW. MUST MAINTAIN CLEARANCE AROUND FDC. BACKFLOW WILL BE REQUIRED TO BE CONCEALED.
 - FDC MUST BE CONNECTED TO RISER AFTER ALL CONTROL VALVES.
 - CLEAR SPACE AROUND FIRE HYDRANTS, FIRE DEPARTMENT CONNECTIONS(FDC), AND ANY OTHER FIRE APPLIANCE REQUIRING CLEARANCE FOR ACCESS. A 36 INCH CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANT/APPLIANCE. (NFPA 1 (2015ED) CH. 18 SEC. 18.5.3)
 - BLUE REFLECTIVE HYDRANT LOCATION MARKERS SHALL BE PLACED ON THE ACCESS ROADS IN FRONT OF ALL FIRE HYDRANTS. BLUE MARKERS SHALL BE PLACED IN THE MIDDLE OF THE DRIVE LANE ON THE SIDE OF THE ROAD CLOSEST TO THE FIRE HYDRANT.
 - RED REFLECTIVE FIRE DEPARTMENT CONNECTION LOCATION MARKERS SHALL BE PLACED ON THE ACCESS ROADS IN FRONT OF ALL FIRE DEPARTMENT CONNECTIONS. RED MARKERS SHALL BE PLACED IN THE MIDDLE OF THE DRIVE LANE ON THE SIDE OF THE ROAD CLOSEST TO THE FIRE DEPARTMENT CONNECTION.

MR	4/10/20		04/07/20	CITY OF POMPA	NO COMMENTS
DESIGNED BY	DATE				
RE	4/10/20				
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MR	4/10/20				
CHECKED BY	DATE				
RR	4/10/20				
APPROVED BY	DATE	No.	DATE	REVISIONS	

700 BRINY AVENUE TOWNHOMES
POMPA



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(954)318-0624 (954)358-0190 FAX
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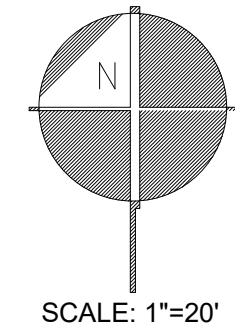


Date: 4/10/2020

WATER AND SANITARY SEWER PLAN

SCALE: 1"=20'

SHEET No. 003 C-3



LEGEND	
---	PROPERTY LINE



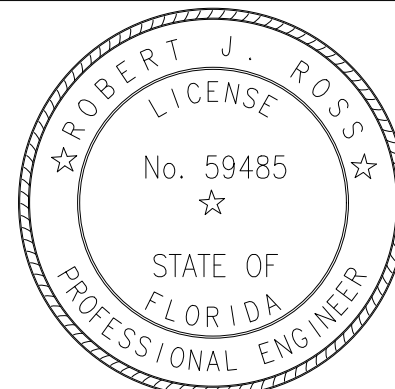
- PMS NOTES:**
1. R1-1 STOP SIGNS SHALL BE HIGH INTENSITY REFLECTORIZED MATERIAL.
 2. ALL PAVEMENT MARKING ADJACENT TO THE PUBLIC RIGHT OF WAY SHALL BE REFLECTORIZED THERMOPLASTIC.
 3. ALL PAVEMENT MARKING AND SIGNAGE MUST CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) (LATEST EDITION)

MR	4/10/20	2	04/07/20	CITY OF POMPA
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MR	4/10/20			
CHECKED BY	DATE			
RR	4/10/20			
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POMPA NO BEACH
FL 33062



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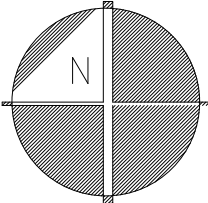
Date: 4/10/2020

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PAVEMENT MARKING AND SIGNAGE PLAN

SCALE: 1"=20'

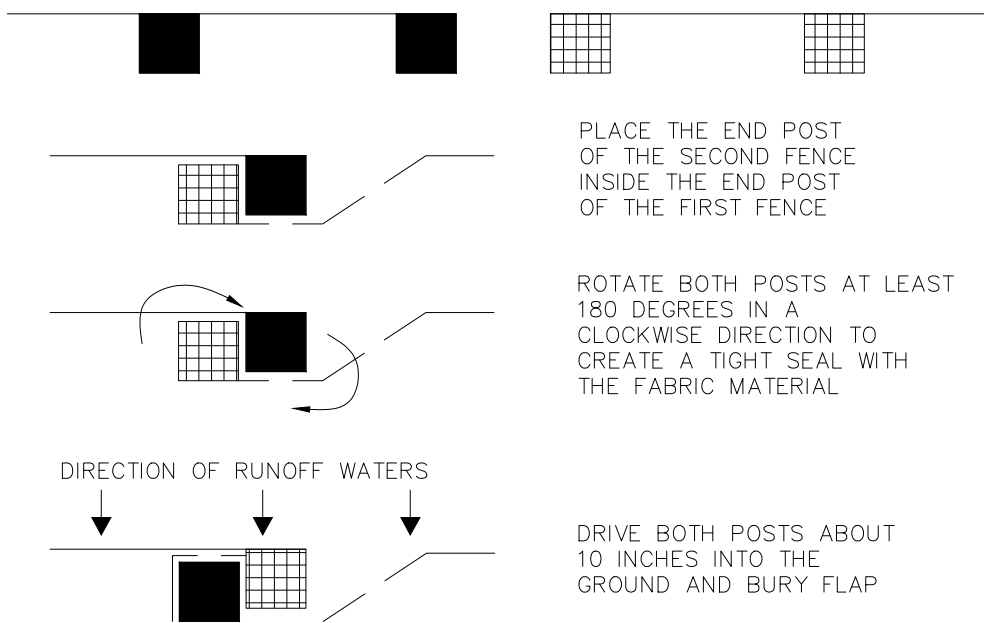
SHEET No. 003 C-4



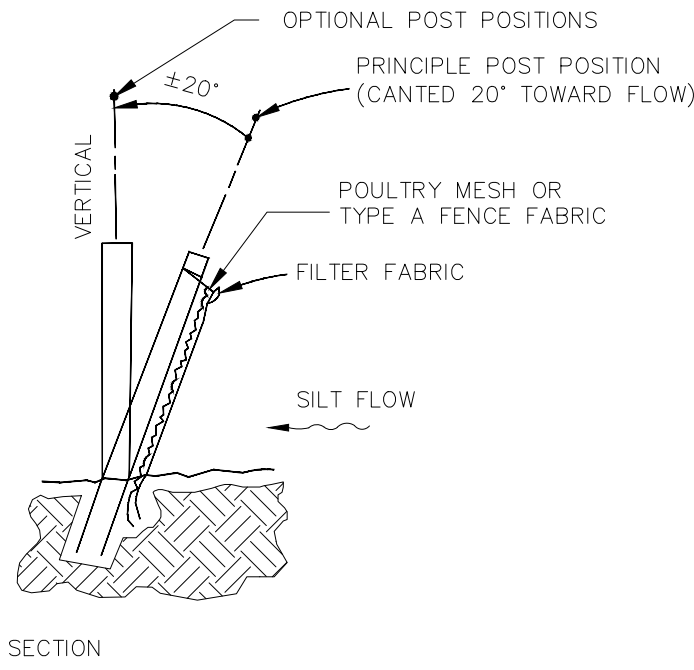
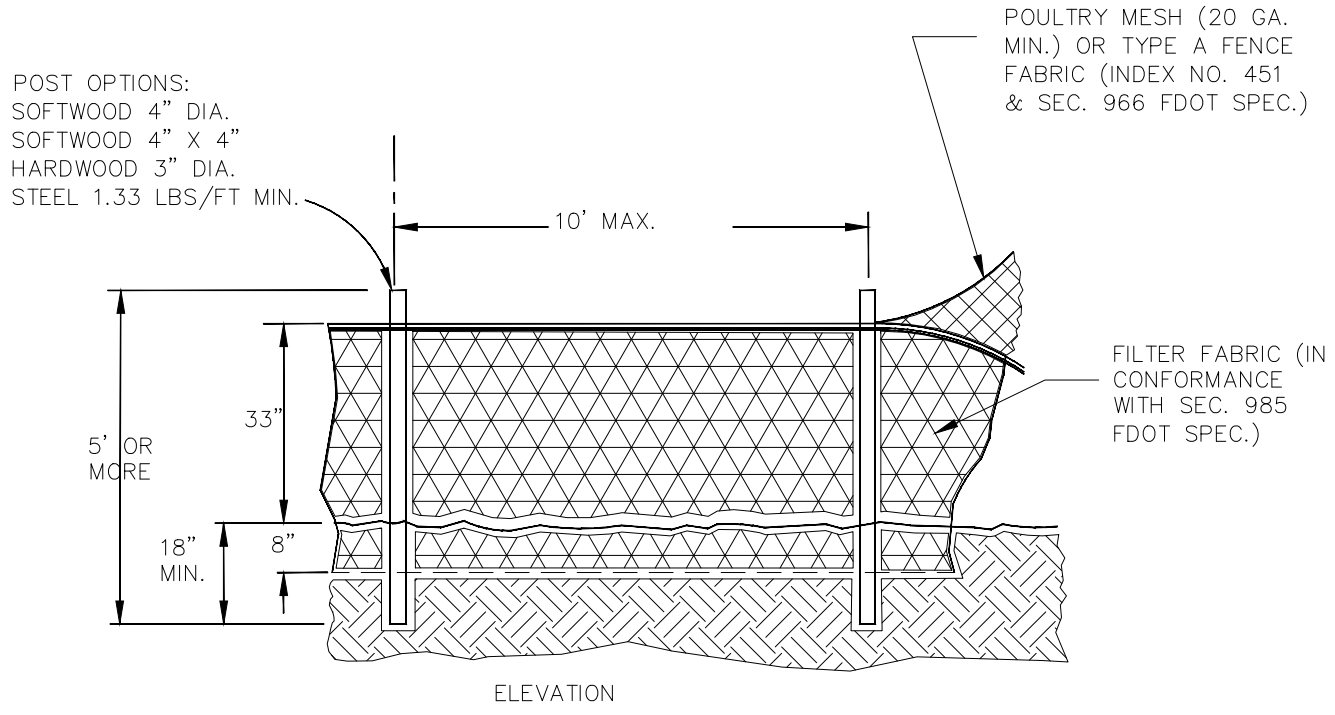
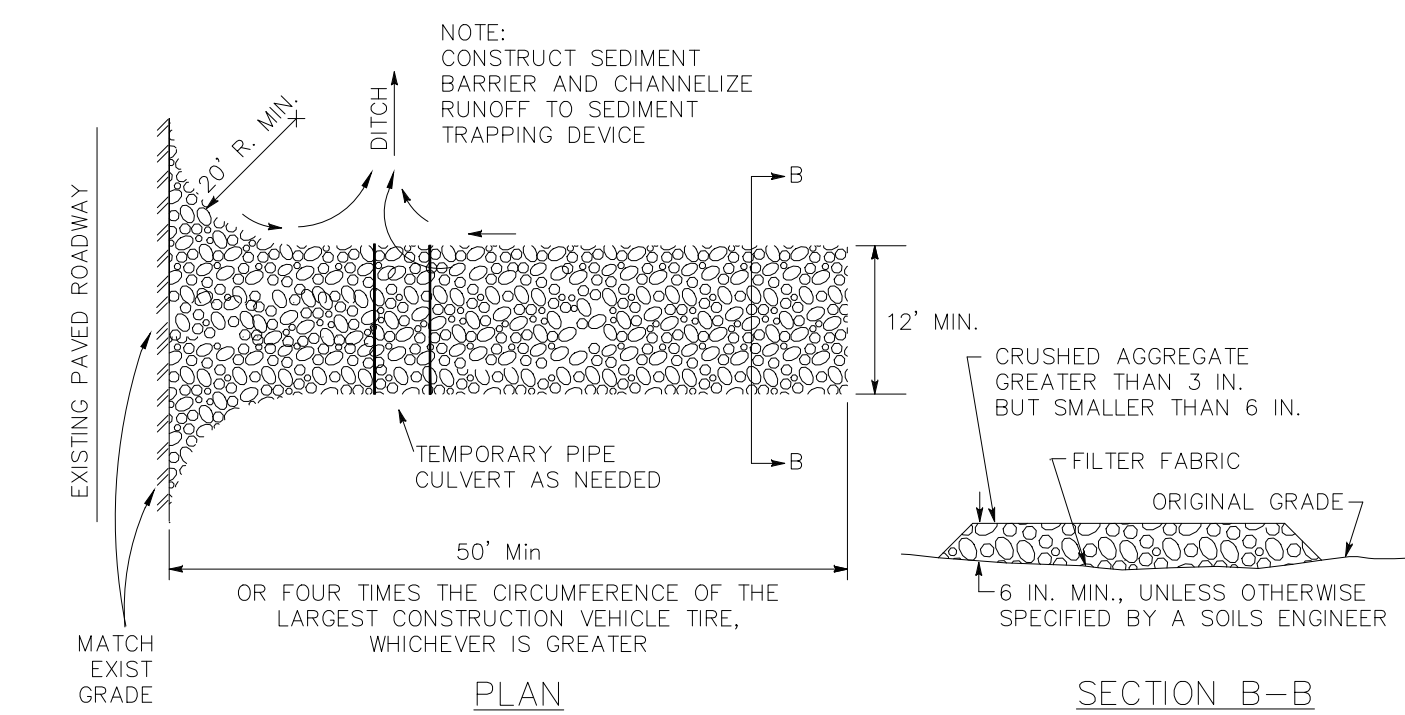
SCALE: 1"=20'

LEGEND

- EXISTING PROPERTY LINE
- SILT FENCE
- CONSTRUCTION ENTRANCE (GRAVEL)
- HAY BALE



CONSTRUCTION ENTRANCE (TYPICAL) NTS

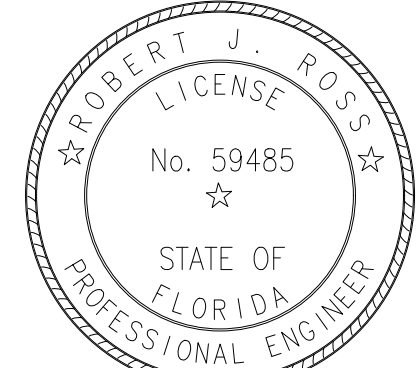


MR	4/10/20	2	04/07/20	CITY OF POMPA
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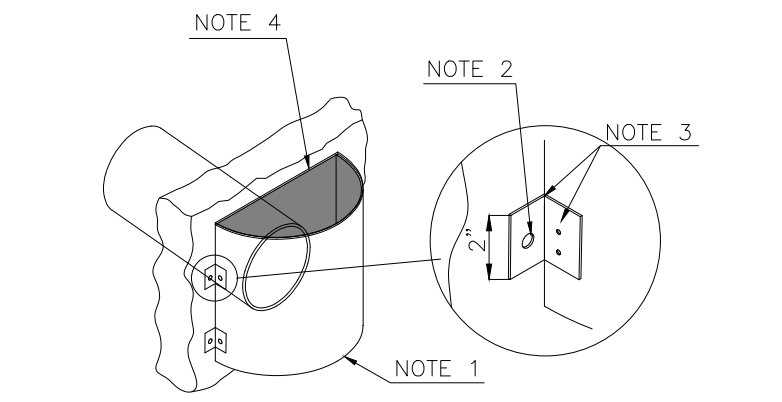
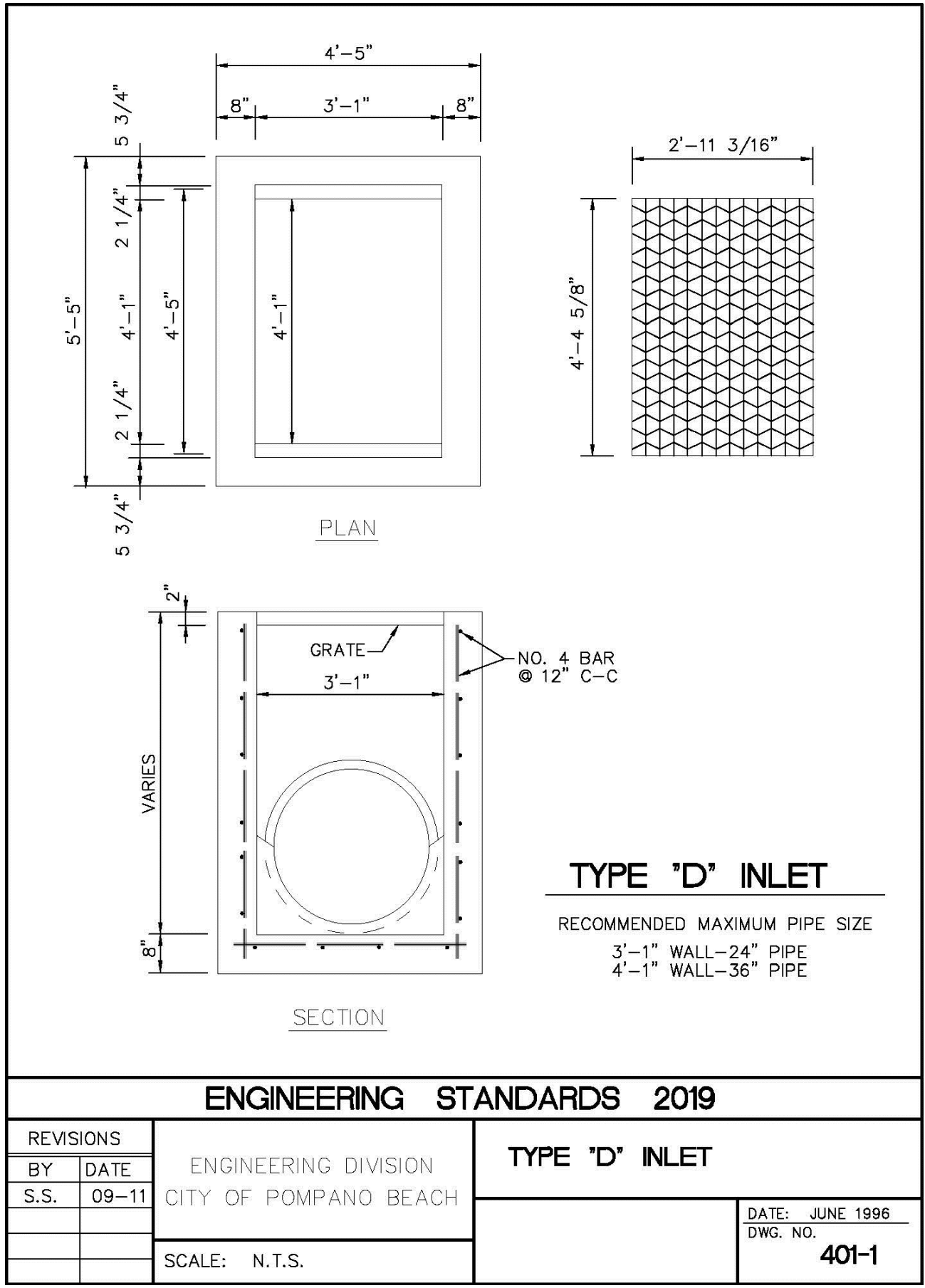


Date: 4/10/2020

POLLUTION PREVENTION CONTROL PLAN

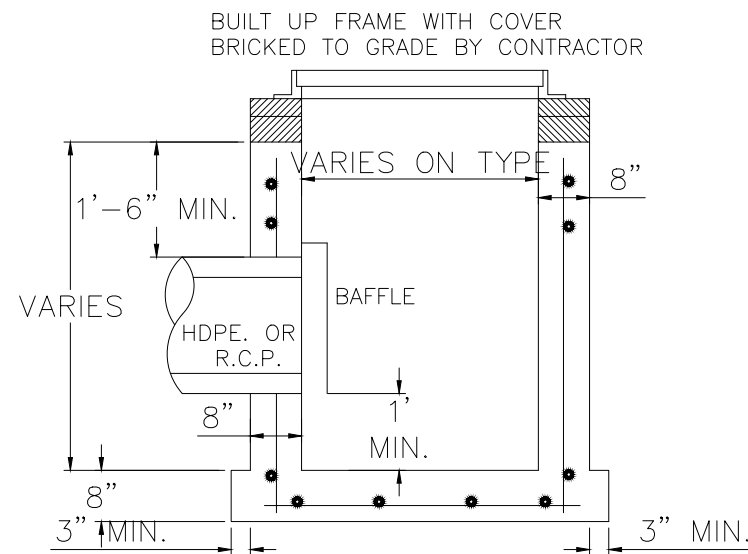
SCALE: 1"=20'

SHEET No. 003 C-5



BAFFLE DETAIL BRACKET DETAIL

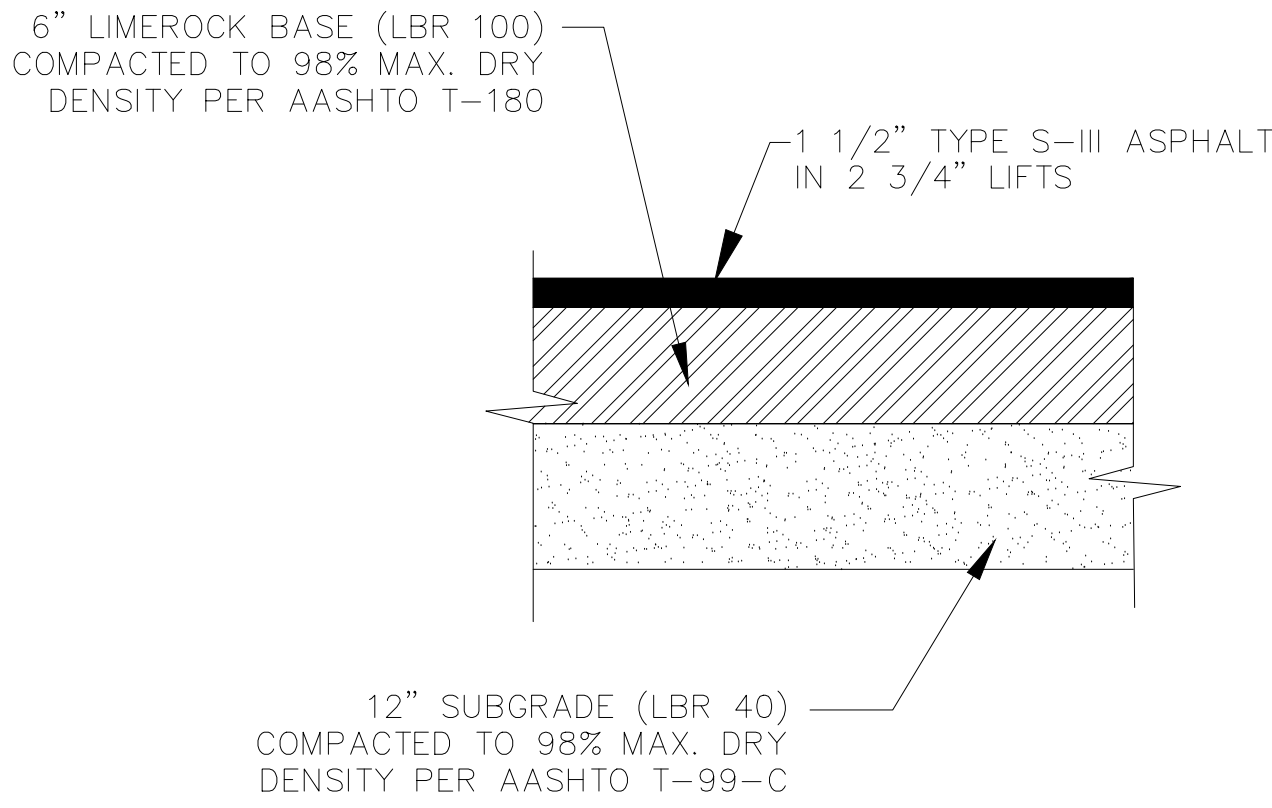
- NOTES
- 1) BAFFLE SHALL BE C.M.P. OR C.A.P. SECTION (OUTFALL DIAMETER PLUS 6").
 - 2) 1/2" GALV. WEDGE ANCHORS (ULT. PULLOUT 6000, ULT. SHEAR 5900).
 - 3) WELD OR 2-3/8" THRU BOLTS
 - 4) BOLTED TO WALL WITH TOP CAPPED. (WATER TIGHT)



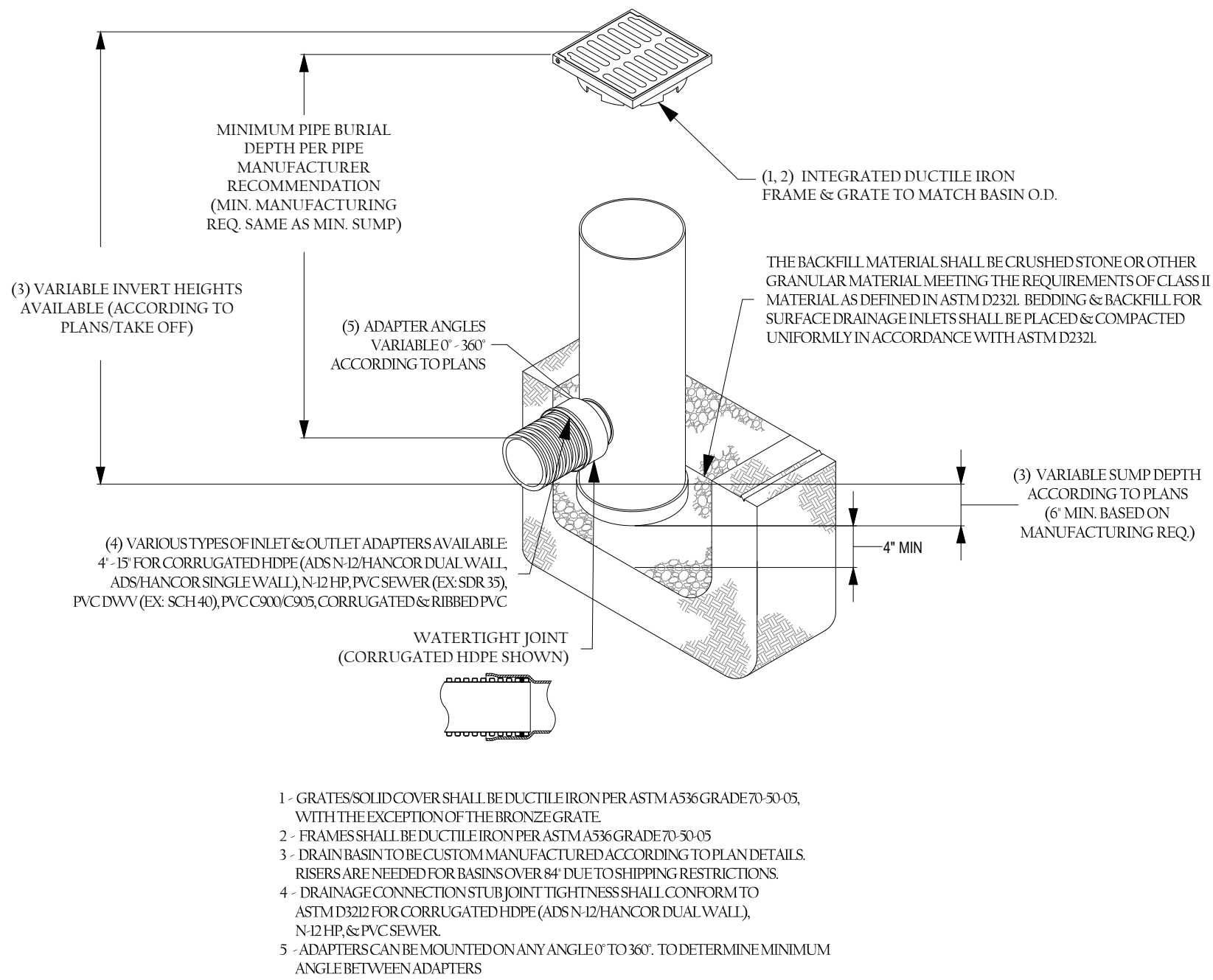
CATCH BASIN (USP 3-3.0)

- NOTES
- 1) MINIMAL CONC. STRENGTH FOR ALL CATCH BASINS AND MANHOLE STRUCTURES SHALL BE 4000 PSI.
 - 2) CONTRACTOR IS RESPONSIBLE FOR FINAL ELEVATION AND LOCATION ADJUSTMENTS OF CATCH BASINS, GRATES, MANHOLES DUE TO FIELD CONSTRAINTS.
 - 3) THE 12" WEEP HOLE SHALL NOT BE USED IF THE BOTTOM OF THE INLET OR MANHOLE IS BELOW THE NORMAL WATER TABLE, UNLESS OTHERWISE SHOWN ON PLANS.

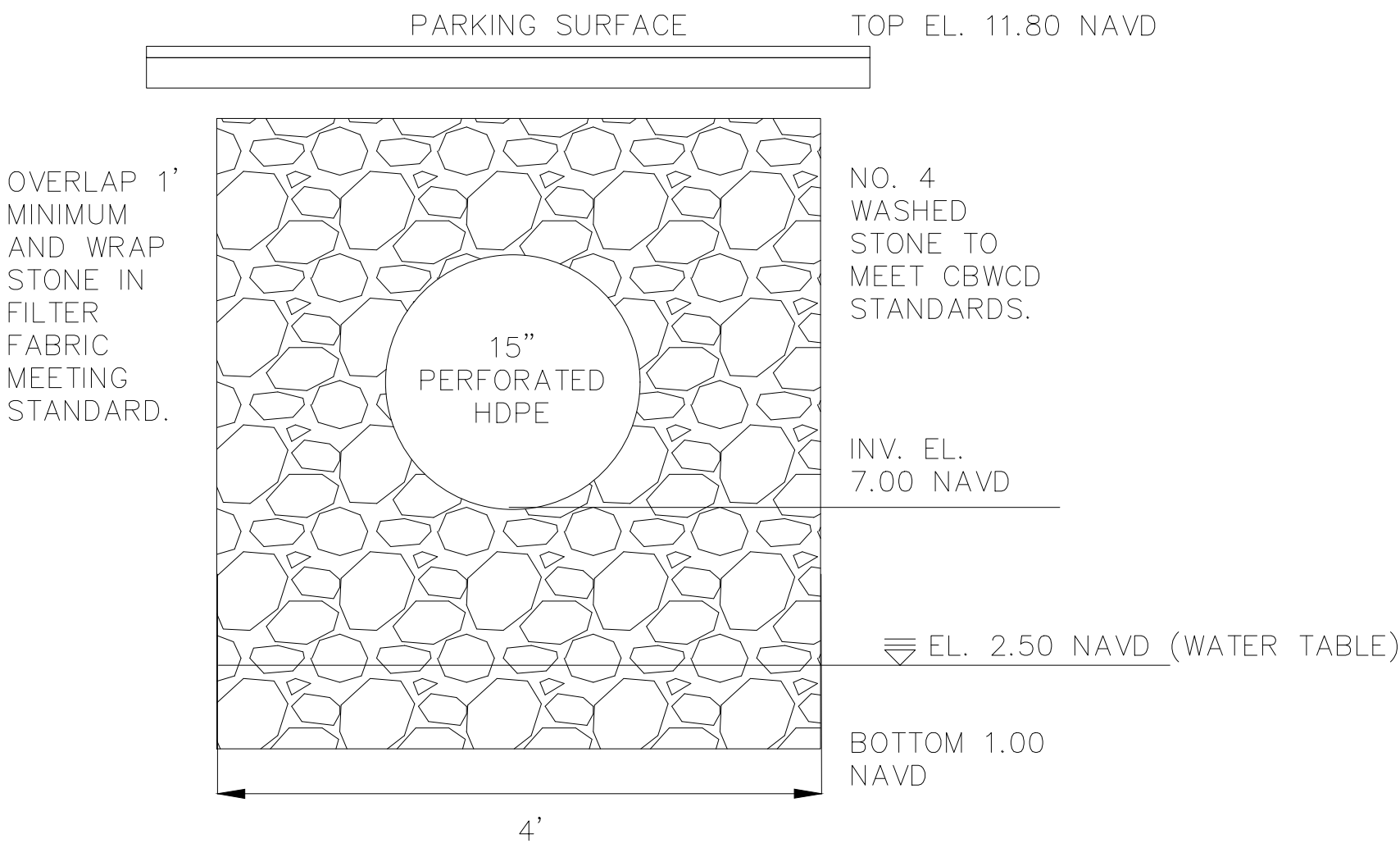
POLLUTION RETARDANT BASIN & BAFFLE DETAIL FOR NEW STORM SEWER
NTS



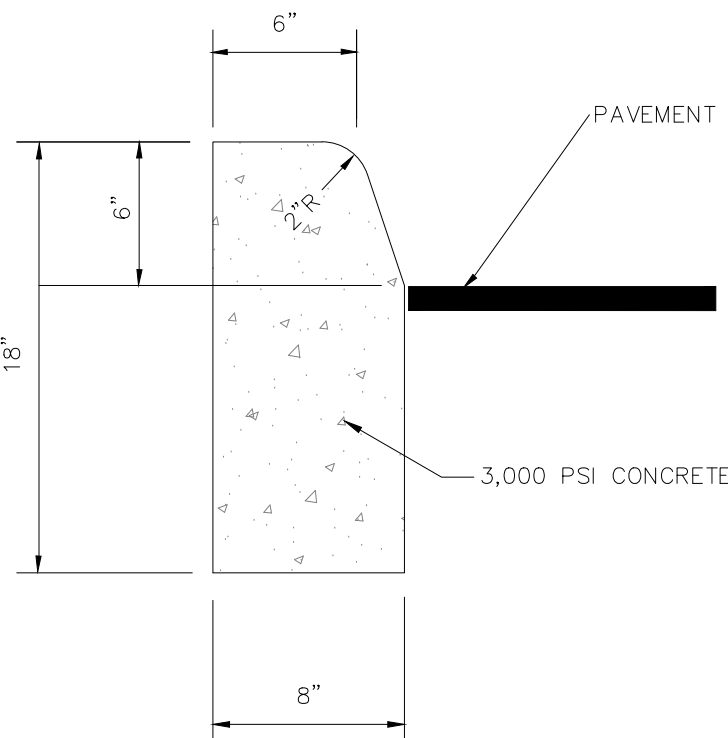
TYPICAL PAVEMENT DETAIL
N.T.S.



12" NYLOPLAST YARD DRAIN (TYPICAL)
NTS



EXFILTRATION TRENCH DETAIL
NTS



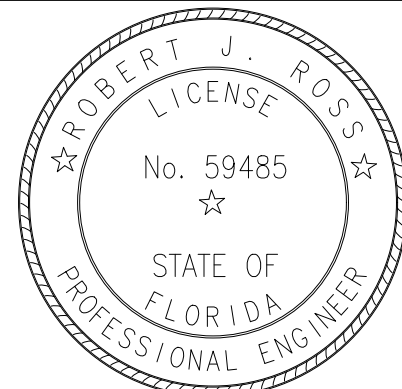
TYPE "D" CURB DETAIL
N.T.S.

MR	----	2	04/07/20	CITY OF POMPAÑO BEACH COMMENTS
DESIGNED BY	DATE			
RE	----			
DRAWN BY	DATE			
MR	----			
CHECKED BY	DATE			
RR	----			
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700 BRINY AVENUE TOWNHOMES
POMPAÑO BEACH
FL 33062



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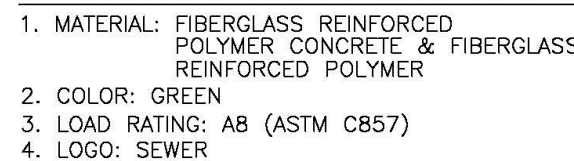
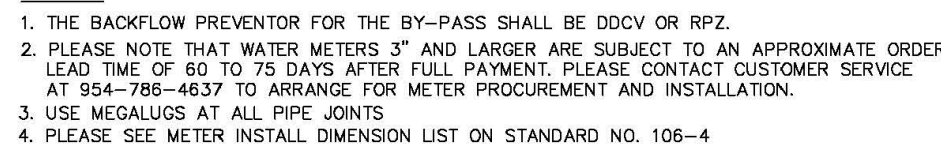
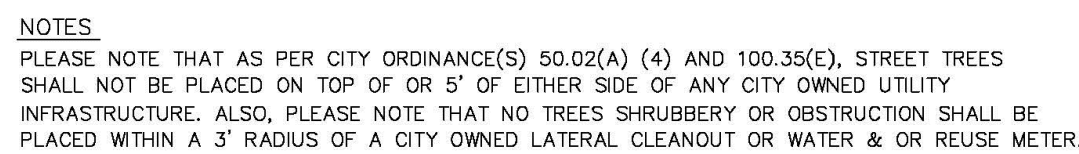
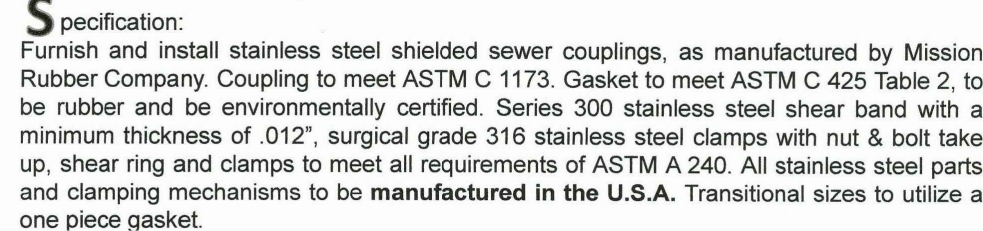
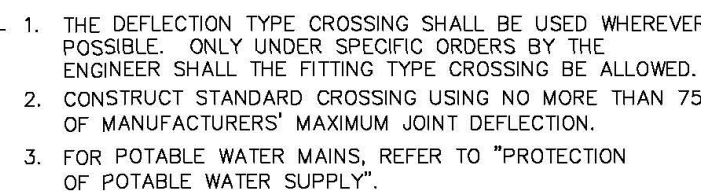
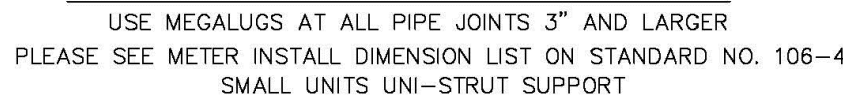
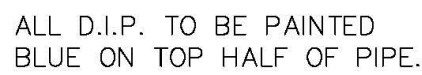


Date:----

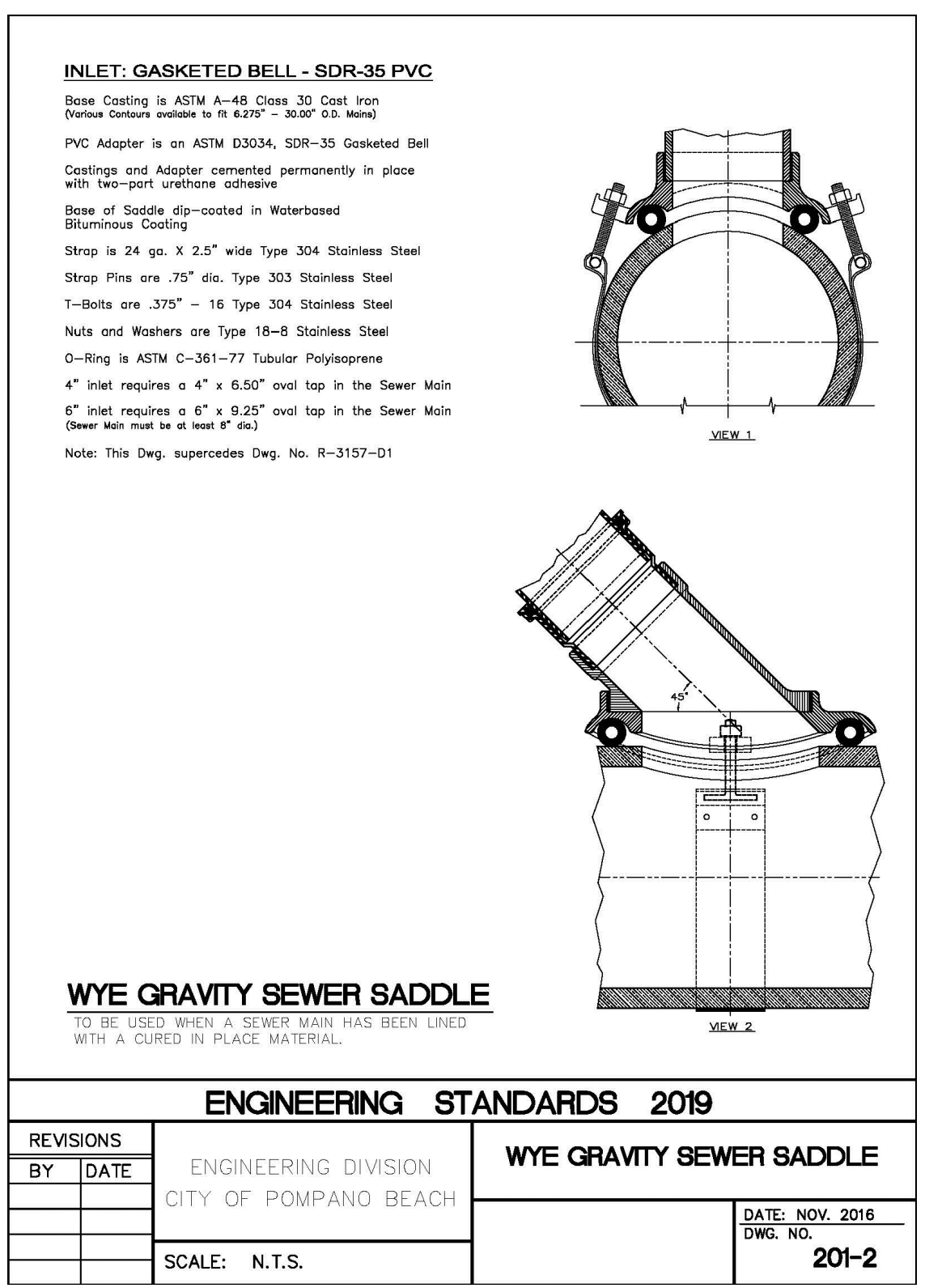
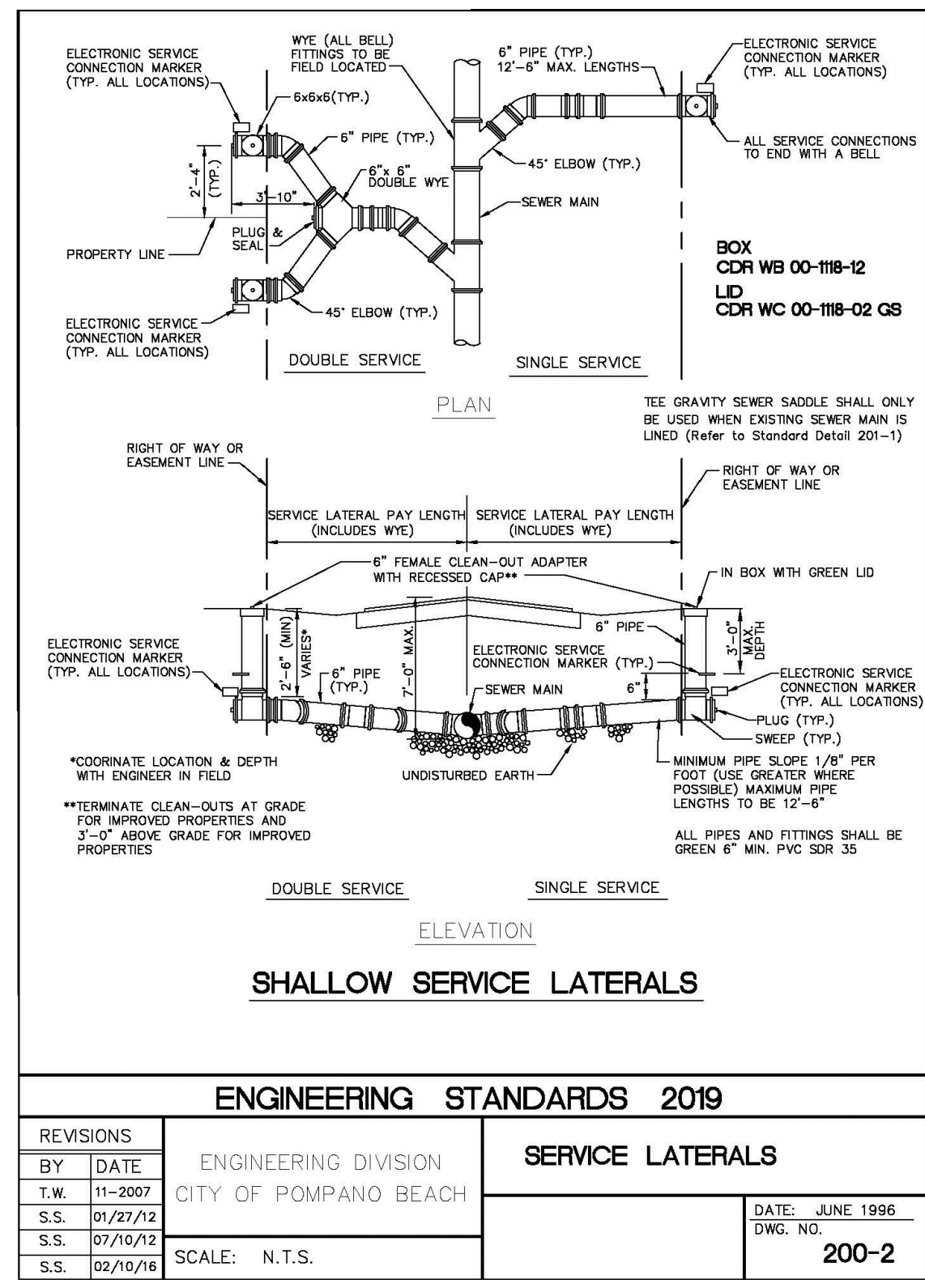
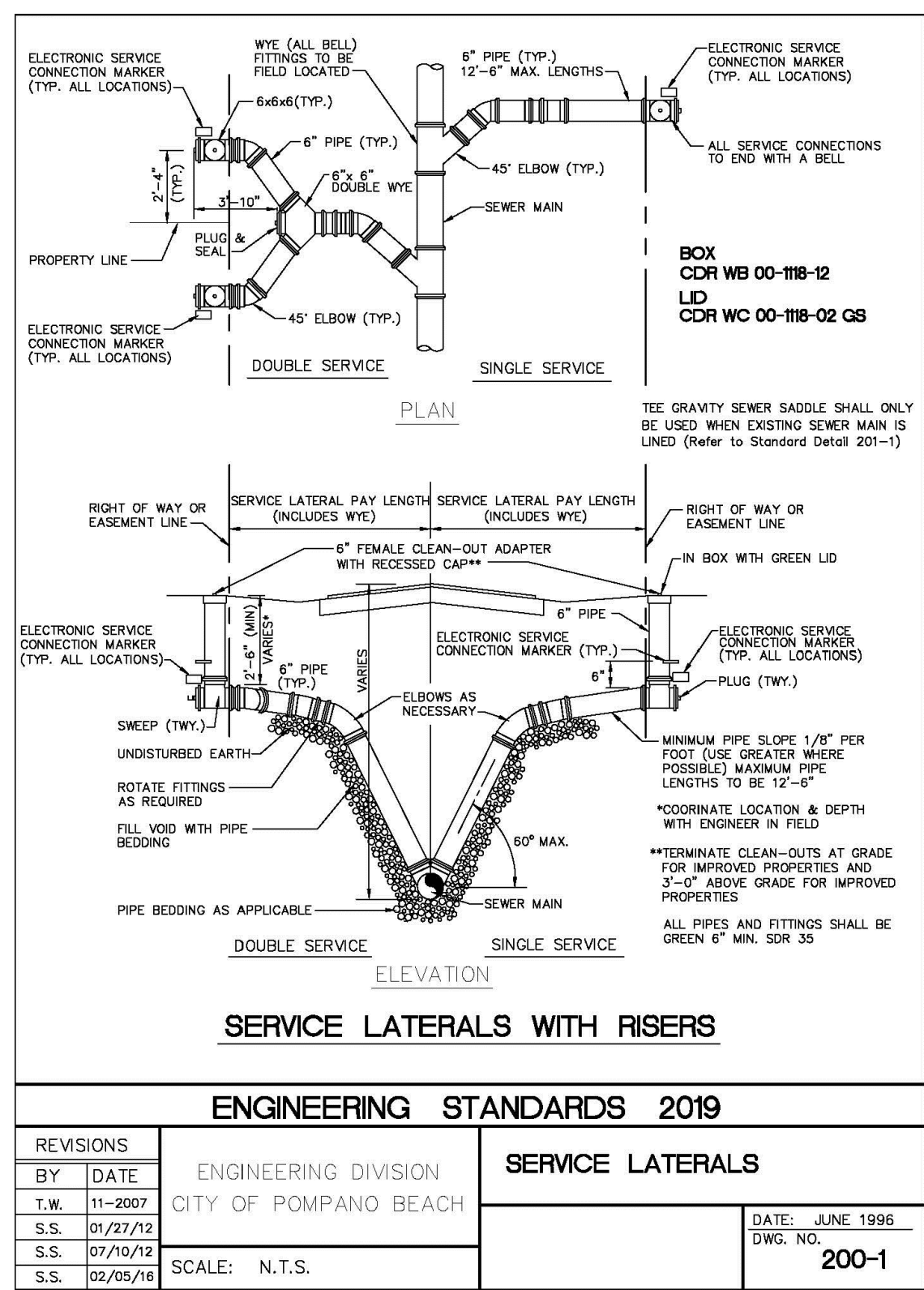
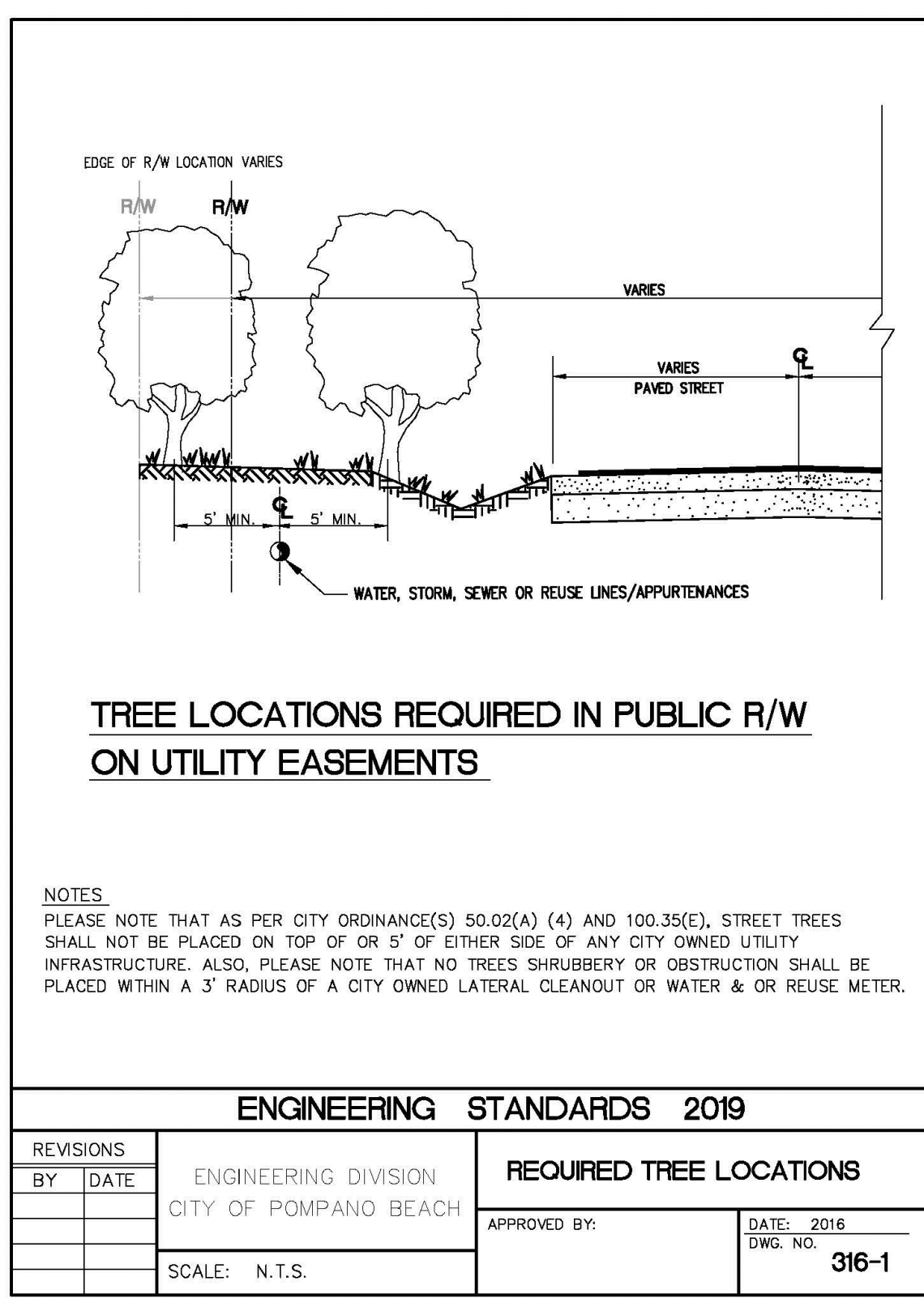
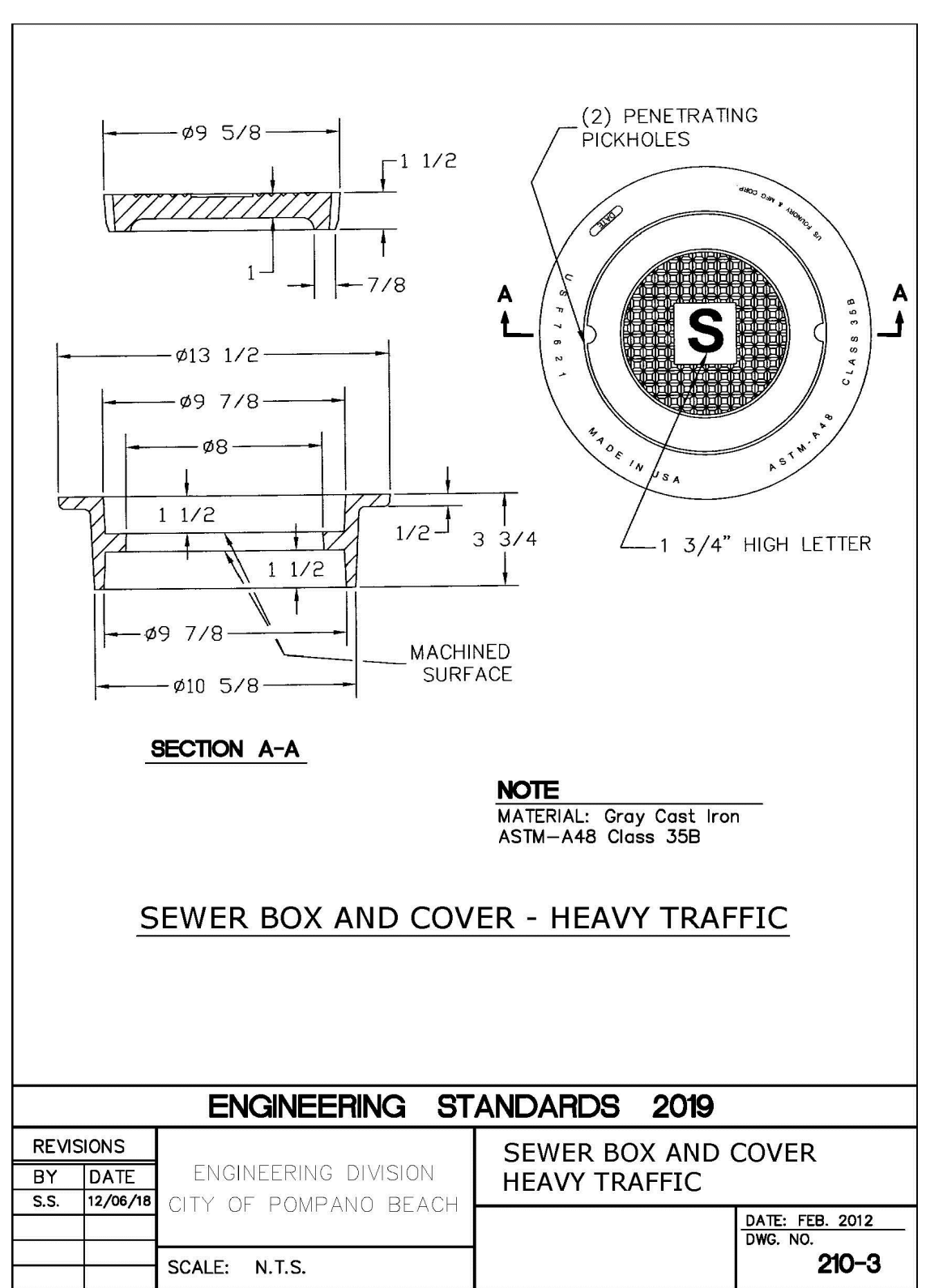
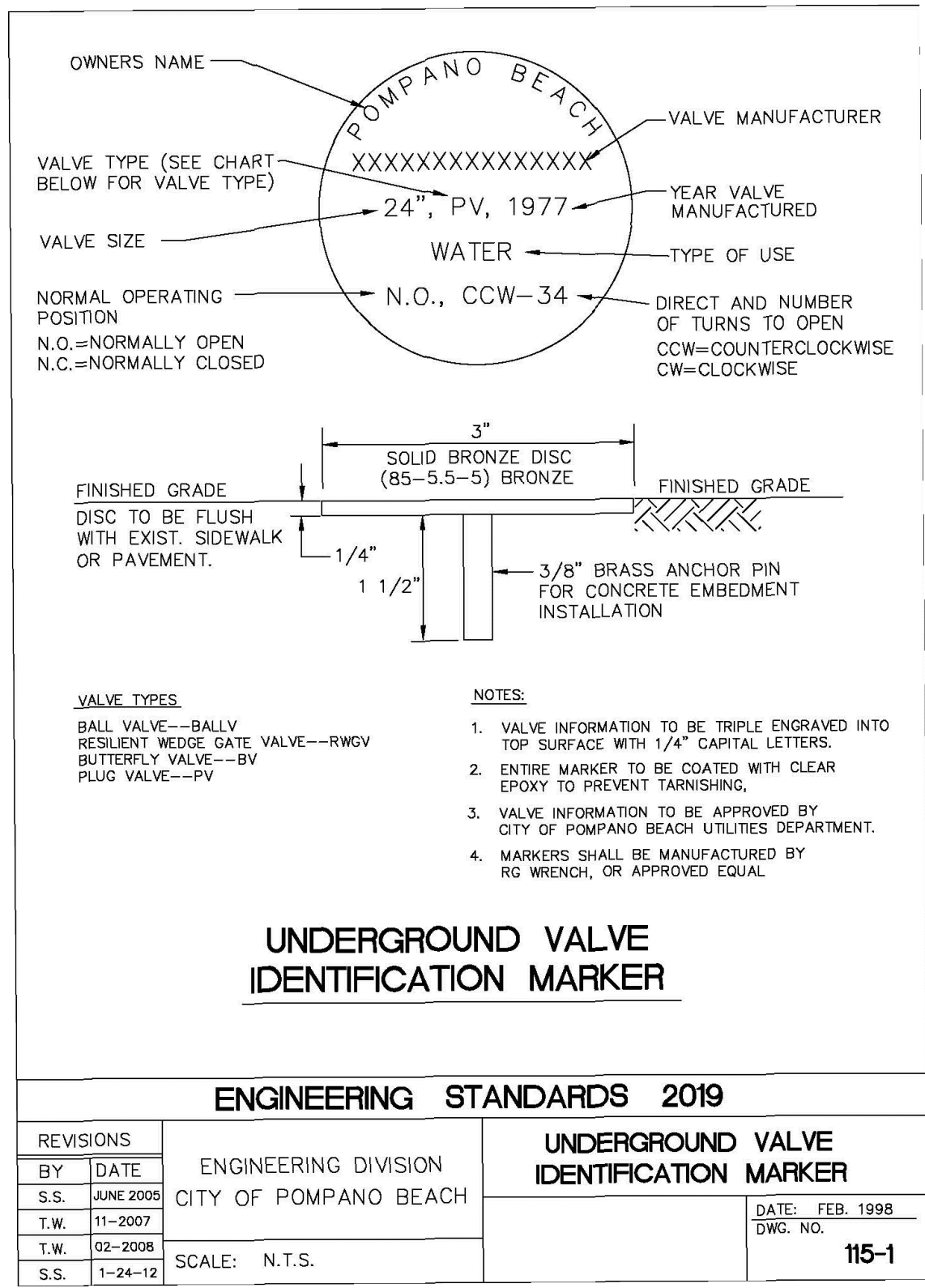
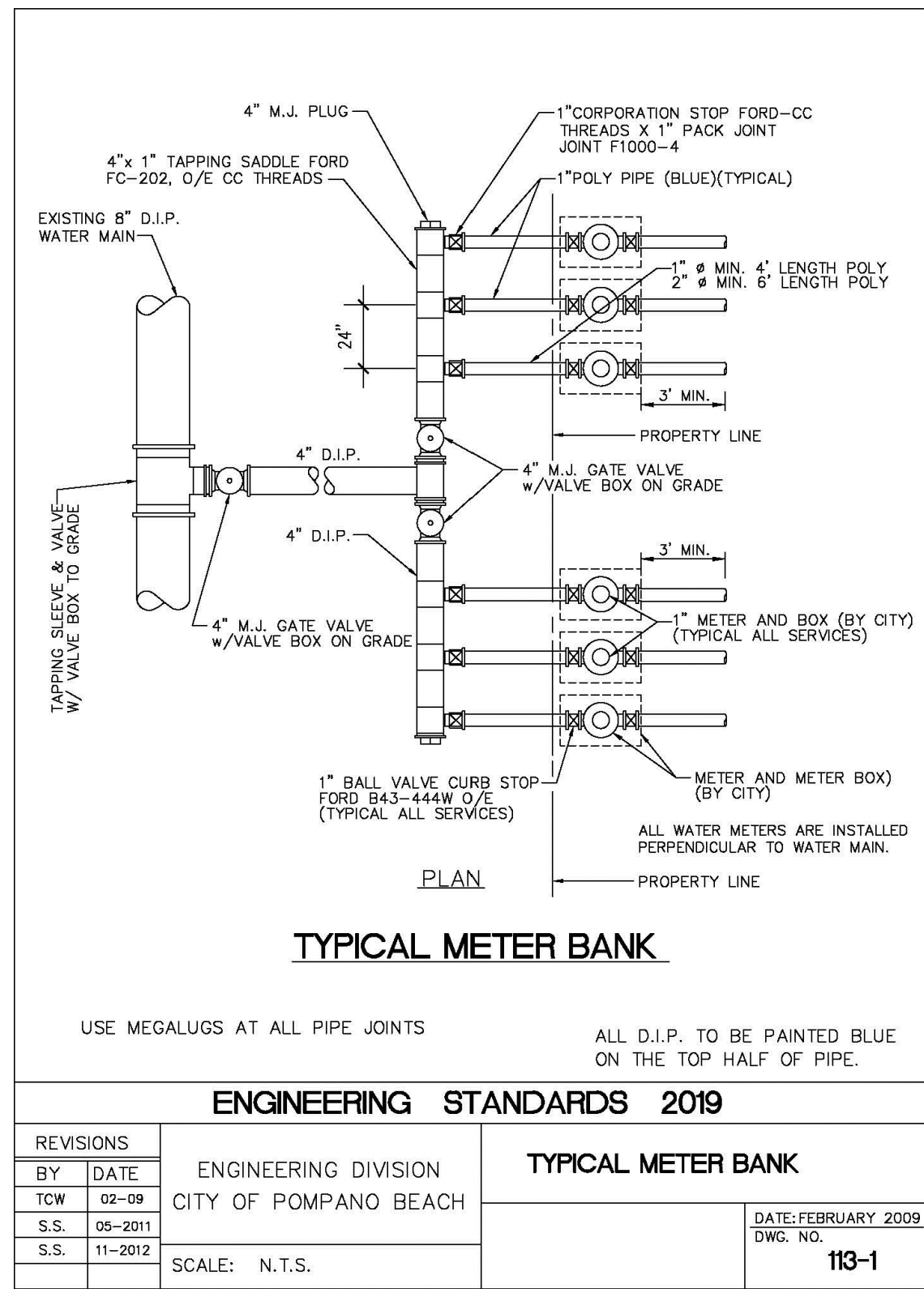
PAVING GRADING AND DRAINAGE DETAILS

SCALE:

SHEET No. 003 C-6



SHEET No. 003 C-7

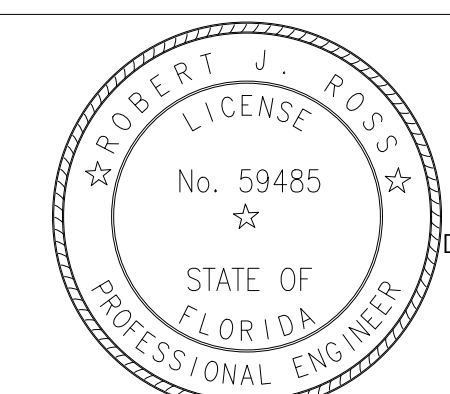


MR	4/10/20	2	04/07/20	CITY OF POMPAÑO BEACH COMMENTS
DESIGNED BY	DATE			
RE	4/10/20			
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CHECKED BY	DATE			
RR	4/10/20			
APPROVED BY	DATE	No.	DATE	REVISIONS

700 BRINY AVENUE TOWNHOMES
POMPAÑO BEACH
FL 33062



3325 S. UNIVERSITY DRIVE, SUITE 111
DAVIE, FLORIDA 33328
(954)318-0624 (954)358-0190 FAX
CERTIFICATE OF AUTHORIZATION No. 9808

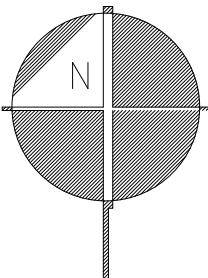


Date: 4/10/2020

WATER AND SANITARY SEWER DETAILS

SCALE: AS SHOWN

SHEET No. 003 C-7.1



SCALE: 1"=20'



EXCAVATION-FILL ANALYSIS

Excavation and Fill Volumes Seaward of the CCCL	
NON-TEMPORARY EXCAVATION:	
<i>Dwelling Structure</i>	
Excavation for Building Footprint (Slab)	0.0 CY
Excavation for pile caps, grade beams, & piles	516.9 CY
<i>Other Structures</i>	
Excavation for Pool / Spa	533.3 CY
Driveways, decks, crane slabs, exfiltration trenches, etc.	191.1 CY
Drainage Structures & Pipes	17.8 CY
North Swale	77.8 CY
South Swale	0.0 CY
<i>Discount Material</i>	
6" of non-beach quality sand (area from CCCL to Easterly Plat Line)	666.7 CY
Total Non-Temporary Excavation	1,336.9 CY
TEMPORARY EXCAVATION:	
Excavation above & between pile caps and grade beams	2,000.0 CY
Total Temporary Excavation	2,000.0 CY
NET EXCAVATION:	1,336.9 CY
FILL (I.E. DUNE ENHANCEMENT, LANDSCAPING):	1,336.9 CY
PROJECT NET:	0.0 CY

LEGEND	
---	PROPERTY LINE
— STM —	EXISTING DRAINAGE
— SAN —	EXISTING SANITARY SEWER
— W —	EXISTING WATER
—	PROPOSED BUILDING
[Pattern]	EXIST SAND
[Pattern]	PROPOSED ASPHALT
[Pattern]	PROPOSED AREA OF EXCAVATION
[Pattern]	PROPOSED AREA OF FILL: LANDSCAPE & DUNE ENHANCEMENT ACTIVITIES
~	FLOW ARROW
[Symbol]	EXISTING GRADE
[Symbol]	PROPOSED GRADE
[Symbol]	PROPOSED GRADE (TOP OF CURB)
[Symbol]	MATCH EXISTING GRADE (APPROXIMATE EXISTING ELEVATION)

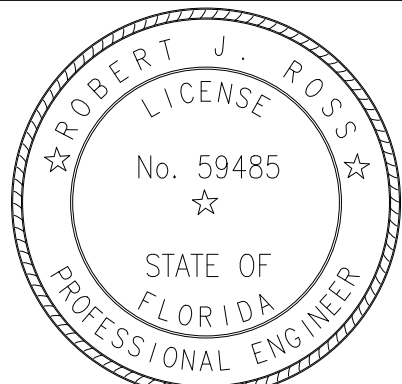
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 - CONTRACTOR IS TO RESTORE ANY CURB, LANDSCAPE, ASPHALT, ETC. (NOT SCHEDULED FOR DEMOLITION) DAMAGED DURING CONSTRUCTION TO A CONDITION EQUAL TO WHAT IS EXISTING.
 - ALL EXISTING AND PROPOSED ELEVATIONS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD).
 - THE FILL MATERIAL WILL MEET THE SPECIFICATIONS/CRITERIA OF SUBSECTION 62B-330005(7) OF THE FLORIDA ADMINISTRATIVE CODE.

MR	4/10/20	2	04/07/20	CITY OF POMPANO BEACH COMMENTS
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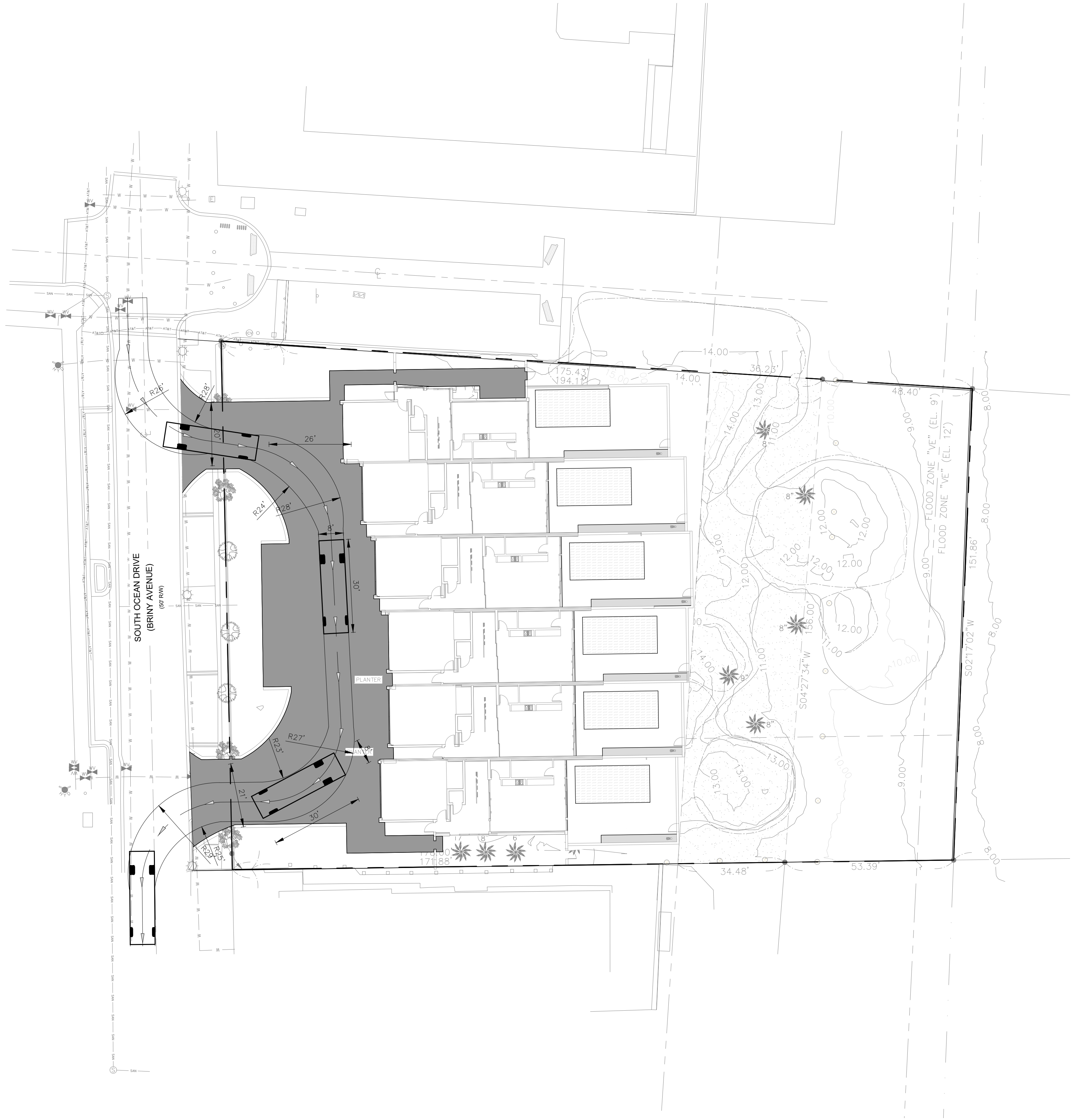
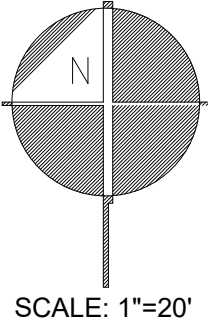


Date: 4/10/2020

EARTHWORK AREAS AND VOLUMETRIC PLAN

SCALE: 1"=20'

SHEET No. 003 C-8



ZONING DISTRICT INFORMATION

ZONING DISTRICT INFORMATION

Current Land use designation of property	MH-16-25 DU/Acre
Current Zoning of project and abutting properties	RM-20
Total square footage of pervious area	TBD
Total square footage of impervious area	TBD
Gross acreage	00 Acres
Net acreage	0.88 Acres
Number of dwellings	6
Density	5.28
Dwelling units by type	1 (All 6 units are 3-story with 5 bedrooms and 5 ½ baths)

FLOOR AREA OF DWELLING UNITS BY TYPE

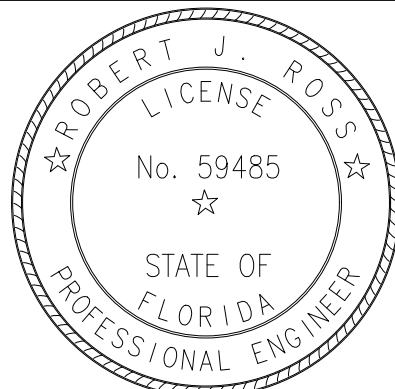
North end unit	3,389 square feet AC
South end unit	3,472 square feet AC
4 Middle units each	4,048 square feet AC
Total building area	23,053 square feet AC
Total building area with garages	25,689 square feet

MR	4/10/20	2	04/07/20	CITY OF POMPANO BEACH COMMENTS
DESIGNED BY	DATE			
RE	4/10/20			
DRAWN BY	DATE			
MR	4/10/20			
CHECKED BY	DATE			
RR	4/10/20			
APPROVED BY	DATE	No.	DATE	REVISIONS

700 BRINY AVENUE TOWNHOMES
POMPANO BEACH
FL 33062



3325 S. UNIVERSITY DRIVE, SUITE 111
DAVE, FLORIDA 33328
(954)318-0624 (954)358-0190 FAX
CERTIFICATE OF AUTHORIZATION No. 9808



Date: 4/10/2020

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY ROBERT J. ROSS, P.E. ON 4/10/20 USING A SRA AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEAL AND SRA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

LIFE SAFETY PLAN

SCALE: 1"=20'

SHEET No. 003 LSP-9