

CONSTRUCTION PLANS FOR VILLAGE OF PARRISH MASTER PUMP STATION

6069180
PART OF SECTION 20, TOWNSHIP 33 SOUTH, RANGE 19 EAST,
MANATEE COUNTY, FLORIDA

BY



MANATEE COUNTY, FLORIDA PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES

LEGEND

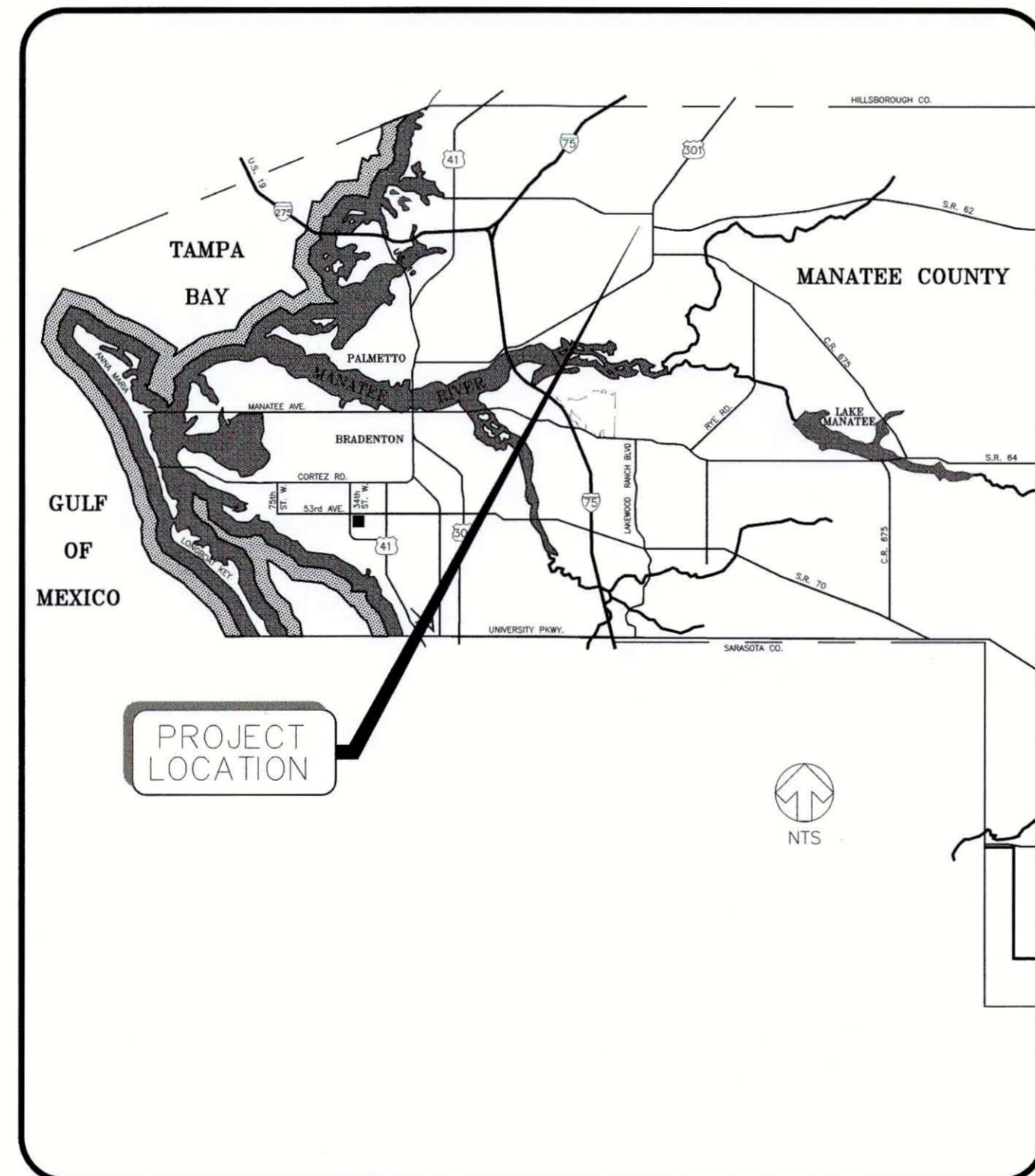
ABBREVIATIONS

BOC _____ BACK OF CURB or BACK OF GUTTER
EOP _____ EDGE OF PAVEMENT
TOS _____ TOE OF SLOPE
TOB _____ TOP OF BANK
VVH _____ VERIFIED VERTICAL AND HORIZONTAL LOCATION
CUE _____ COUNTY UTILITY EASEMENT
EL or ELEV _____ ELEVATION
INV _____ INVERT
LF _____ LINEAR FEET
NGVD _____ NATIONAL GEODETIC VERTICAL DATUM
PVI _____ POINT OF VERTICAL INTERSECTION
R/W or ROW _____ RIGHT OF WAY
SB _____ SOIL BORING
STA _____ STATION
FDOT _____ FLORIDA DEPARTMENT OF TRANSPORTATION
CATV _____ CABLE TELEVISION
FPL or FP&L _____ FLORIDA POWER & LIGHT
B _____ BASE LINE
C _____ CENTERLINE
F _____ FLOW LINE
P _____ PROPERTY LINE
CMP _____ CORRUGATED METAL PIPE
D.I.P. _____ DUCTILE IRON PIPE
PVC _____ POLYVINYL CHLORIDE PIPE
HDPE _____ HIGH DENSITY POLYETHYLENE
RCP _____ REINFORCED CONCRETE PIPE
ERCP _____ ELLIPTICAL REINFORCED CONCRETE PIPE
MH _____ MANHOLE
STR _____ STORM SEWER STRUCTURE
X.XX' LT/X.XX' RT _____ FEET LEFT or FEET RIGHT
Abc _____ Existing
ABC _____ PROPOSED

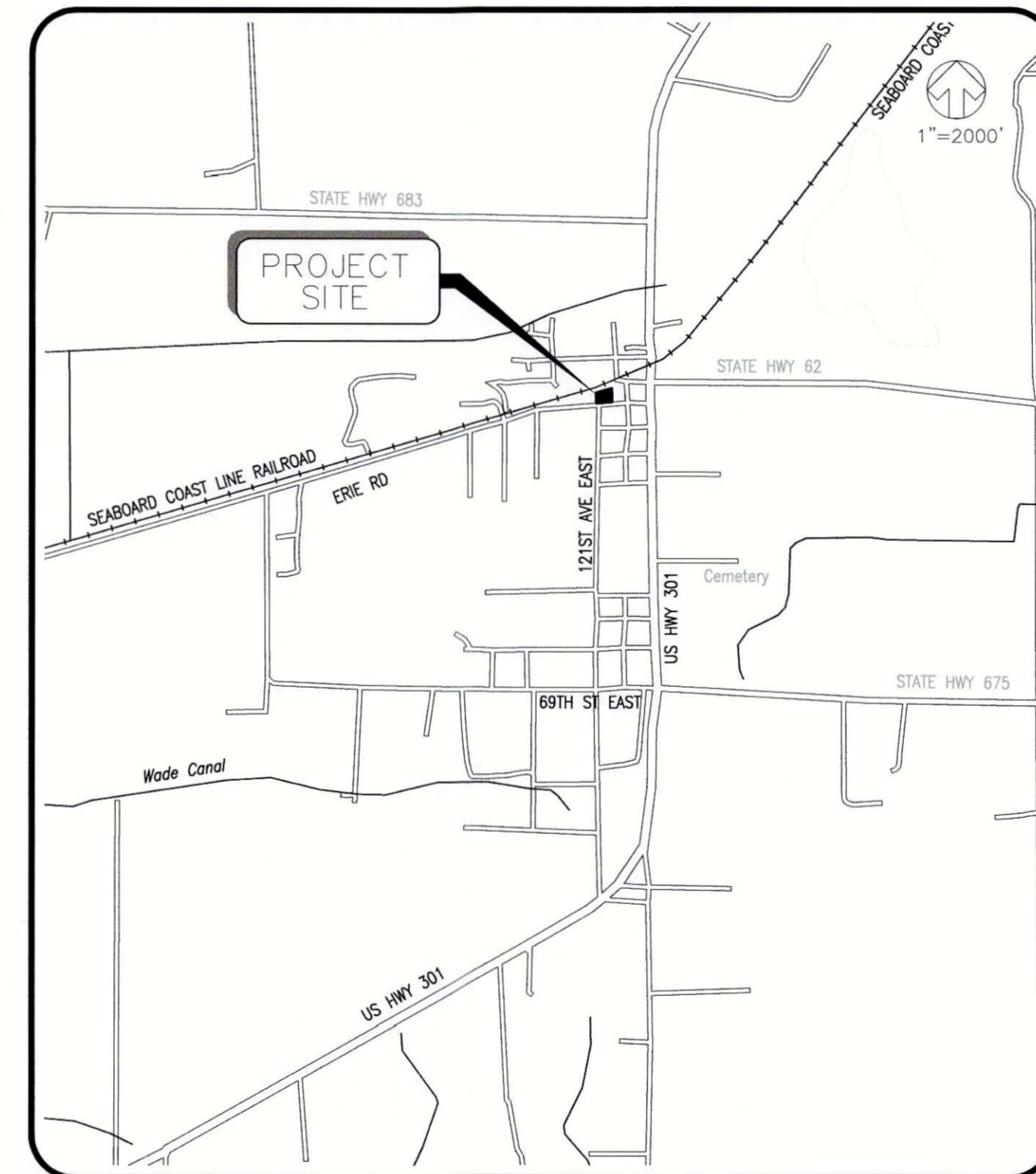
EXISTING TOPOGRAPHIC SYMBOLS

□	= 4"x 4"x 3" CONCRETE MONUMENT SET "LB#043"	⊙	= WILLOW
■	= FOUND CONCRETE MONUMENT (AS NOTED)	⊙	= BRAZILIAN PEPPER
●	= FOUND IRON ROD (AS NOTED)	⊙	= PUNK
○	= FOUND IRON PIPE (AS NOTED)	⊙	= PALM
⊙	= FOUND CAPPED IRON ROD (AS NOTED)	⊙	= MAPLE
⊙	= 5/8"x 18" IRON ROD SET "LB#043"	⊙	= PINE
⊙	= FOUND CHISEL SQUARE	⊙	= CITRUS
+	= P.K. NAIL	⊙	= OAK
+	= TRAVERSE POINT	⊙	= BANYON
+	= BENCH MARK	⊙	= CHINABERRY
+	= GUY ANCHOR & WIRE	⊙	= MYRTLE
+	= STORM INLET	⊙	= UNKNOWN SPECIES
+	= SANITARY MANHOLE	⊙	= BAY
+	= STORM MANHOLE	⊙	= ELM
+	= VALVE BOX	⊙	= CEDAR
+	= ELECTRIC RISER	⊙	= AUSTRALIAN PINE
+	= TELEPHONE RISER	⊙	= FIG TREE
+	= GAS RISER	⊙	= ROSEWOOD
+	= WATER RISER	⊙	= LOQUAT
+	= UTILITY POLE & LIGHT	⊙	= ORNAMENTAL
+	= UTILITY POLE		
+	= FIRE HYDRANT		
+	= SIGN		
+	= TELEVISION CABLE RISER		
+	= WATER METER		
+	= SEWER STUB		
+	= CLEAN OUT		
+	= TELEPHONE MANHOLE		
+	= FP&L MANHOLE		
+	= LIGHT POST		
+	= ELECTRICAL TRANSFORMER PAD		
+	= WELL		
+	= AERIAL TARGET		
+	= IRRIGATION CONTROL BOX		
+	= MONITORING WELL		
+	= IRRIGATION SPRINKLER		

NOTE: size of trunk diameter is determined at 4.5' above ground surface and is shown adjoining the symbol in inches.

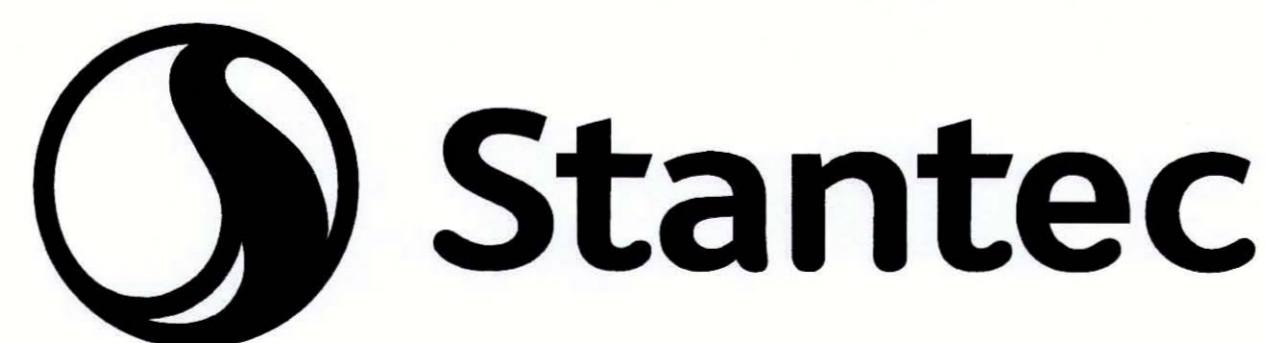


LOCATION MAP



SITE MAP

PROJECT FACILITIES TO BE COUNTY MAINTAINED



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PROJECT SURVEYOR JENNIE BRANNON, P.S.M.	PROJECT DESIGNER ROBERT J. HALBACH, PE FL LIC. # 40139	PROJECT MANAGER ROBERT J. HALBACH, PE FL LIC. # 40139
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DATE 10-13-15 CHECKED BY

RESERVED FOR STATUS AND DATE STAMPS

PROJECT NUMBER
177310561

DATE AUGUST 2015	INDEX NUMBER D-05925-001-000001
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NO.	DATE	DESCRIPTION	BY
A	8/31/15	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	KG

STATUS : REVISIONS

GENERAL

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE MANATEE COUNTY PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: ANTHONY BENITEZ AND CAN BE REACHED AT (941) 708-7450 X7333.
2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER.
3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
4. VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE "THE NATIONAL GEODETIC VERTICAL DATUM OF 1929", (NGVD '29).
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
6. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
7. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
8. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
9. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.
10. EXISTING NAVD 88 MARKS ALONG ERIE MUST BE PRESERVED. THE LOCATION OF THESE MARKS ARE AVAILABLE FROM NATIONAL GEODETIC SURVEY, OR THE SURVEY DIVISION CAN ASSIST WITH THE RECOVERY OF THESE MARKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
11. THE INTENT OF THIS PROJECT IS TO PROTECT AND SAVE THE EXISTING OAK TREES ALONG THE PROPOSED ROUTING. CONTRACTOR SHALL MINIMIZE IMPACT TO THESE TREES.

SAFETY

- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
13. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
14. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
15. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- 16. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEDIMENT TRAPS/BASINS, VEGETATIVE BUFFERS, ETC.) AS SPECIFIED IN THE FINAL APPROVED PLANS FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEC DEVICES UTILIZED DURING THE PROJECT, AS WELL AS INSTALLATION & MAINTENANCE OF ANY ADDITIONAL MEASURES DEEMED NECESSARY DURING PROJECT IMPLEMENTATION, TO PREVENT EROSION AND OFF-SITE SEDIMENT MIGRATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ALL SEC DEVICES UPON COMPLETION OF THE PROJECT, AND UPON ADEQUATE STABILIZATION OF DISTURBED SOILS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE "NOTICE OF INTENT" AND "NOTICE OF TERMINATION" IN COMPLIANCE WITH NPDES PERMIT REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN ADEQUATE AND EFFECTIVE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
17. WHEN A BENTONITE SPILL OR FRAC-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
18. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL. THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
19. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
20. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
21. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
22. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
23. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
24. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
25. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
26. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
27. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

- 28. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
29. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
30. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.

- 32. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
33. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION 02575.
34. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

UTILITIES

- 35. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
36. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
37. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
38. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.

39. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.

RESTORATION

- 40. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
41. ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
42. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.
43. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
44. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T. DESIGN STANDARDS.
45. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
46. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.
47. RESTORATION OF ROADWAY CUTS IS REQUIRED WITHIN 25' OF THE CUT. IF THE 25' FALLS WITHIN A ROADWAY LANE, THE ENTIRE LANE SHALL BE RESTORED, INCLUDING PAVEMENT AND MARKINGS.
48. THE CONTRACTOR SHALL REPAIR/REPLACE ANY ROADWAY/SURFACE IMPACTED BY A HORIZONTAL DIRECTIONAL DRILL FRAC-OUT AS REQUIRED BY THE COUNTY/CITY TRANSPORTATION DEPARTMENT.

CONSTRUCTION

- 49. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT Baffles POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
50. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
51. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
52. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
53. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
54. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. ALL DEWATERING SHALL BE DONE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY DEWATERING PERMITS.
55. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
56. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
57. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
58. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
59. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
60. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.
61. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
62. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
63. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
64. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
65. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER SHUT-OFFS WATER TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE WATER SHUT-OFF. REFERENCE SECTION 01580, PARAGRAPH 1.03 OF THE SPECIFICATIONS. WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (48 HRS) PRIOR TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED, THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS, WRITTEN NOTIFICATIONS SHALL ALSO BE FAXED TO THE TAMPA TRIBUNE, BRADENTON HERALD, SARASOTA HERALD TRIBUNE, WBRO RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.
66. ALL NEW PIPE LINES SHALL BE PIG CLEANED (4" AND LARGER), FLUSHED, PRESSURE TESTED, DISINFECTED AND CERTIFIED PRIOR TO TIE-INS TO EXISTING FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PIG CLEANING AND PRESSURE TESTING.
67. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
68. ALL EXISTING MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AND ACTIVATION OF THE NEW MAINS. ABANDONED MAINS SHALL BE CUT, FILLED WITH GROUT, AND CAPPED. REFER TO SECTION 02064 OF THE SPECIFICATIONS FOR GROUTING OF ABANDONED PIPE.
69. WATER MAINS CROSSING OVER OR UNDER SANITARY SEWERS, FORCE MAINS, AND RECLAIMED WATER LINES SHALL BE LAID PER CURRENT EDITION OF "10 STATE STANDARDS" AND MANATEE COUNTY UTILITY STANDARDS UNLESS NOTED OTHERWISE ON THE PLANS.
70. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
71. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER. RECORD DRAWINGS SHALL BE SIGNED & SEALED BY A SURVEYOR CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWING INFORMATION REQUIREMENTS IN SECTION 14 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 14 WILL BE PROVIDED UPON REQUEST. THE PLANS WERE PREPARED USING THE NGVD 1929 VERTICAL DATUM. THE SURVEYOR SHALL PREPARE THE RECORD DRAWINGS UTILIZING THE NAVD 1988 VERTICAL DATUM, AND REDRAW THE FORCE MAIN AND UTILITY MAINS IN CONFLICT, ADJACENT OR CROSSING. CONTRACTOR'S/SURVEYOR SHALL ROUND PIPE LENGTHS TO NEAREST FOOT.
72. OAK TREES REPLACED FOR 2-3" CALIPER, 1:1 REPLACEMENT UNLESS MULTIPLE TREES WITHIN 30 FEET ONLY REPLACE WITH 1 TREE. PALM TREES REPLACEMENT WITH SABAL PALM 15' IN HEIGHT OR 10" CLEAR TRUNK, 1:1 REPLACEMENT. ALL TREES SHALL BE FLORIDA NO.1 NURSERY GRADE.

CONTACTS

Table with 4 columns listing contact information for Manatee County Public Works Dept, Florida Power & Light Distribution, Southwest Florida Water Management District, Manatee County Public Works Dept Traffic Engineering, and Florida Gas Transmission.

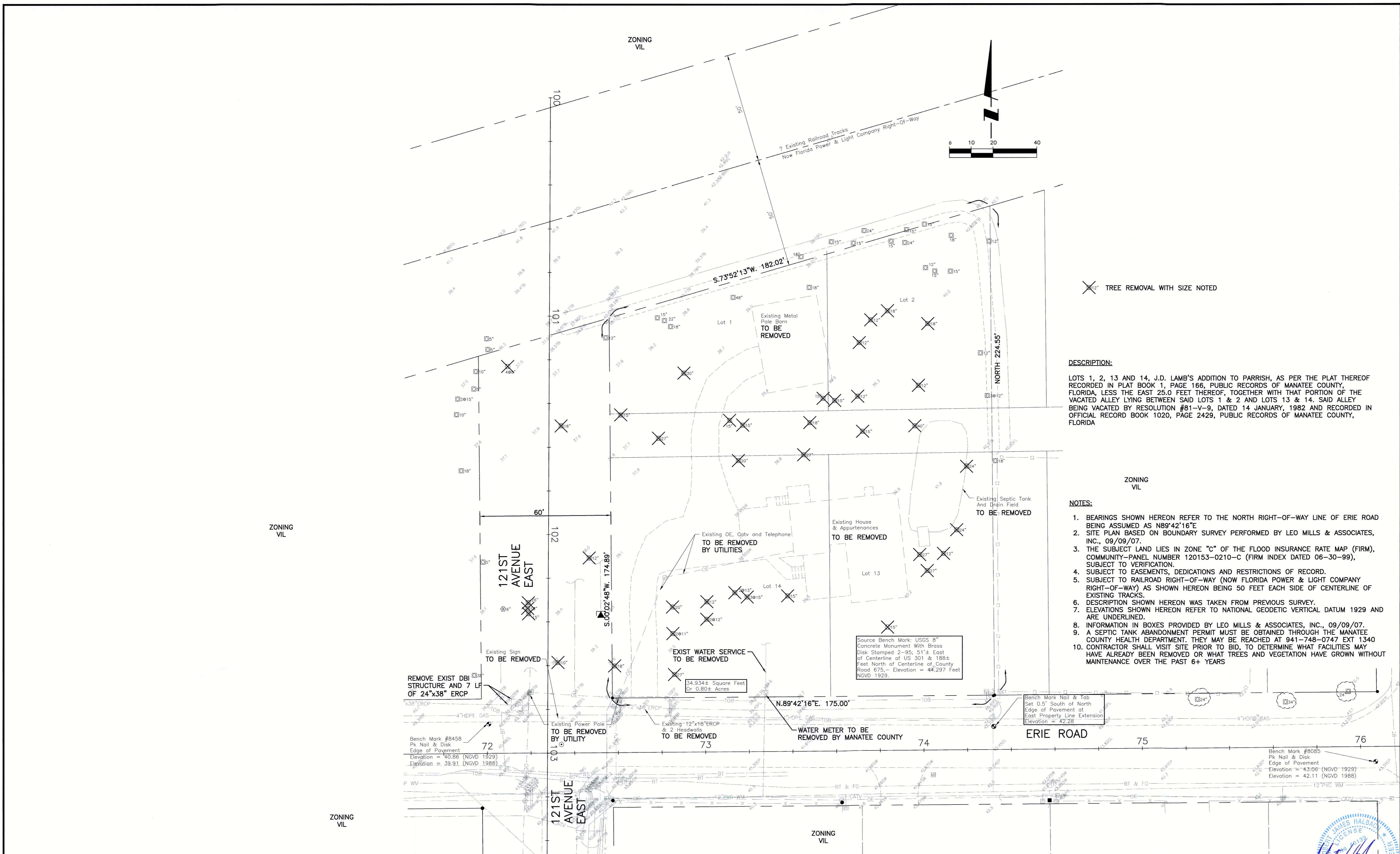
Table with columns for Activity, Initials/Emp. No., and Date, containing revision history for design and code updates.



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Project information block including Client (Manatee County Public Works), Project (Village of Parrish Master Pump Station), Date (August 2015), Scale (1"=20'), and General Notes.





✕ TREE REMOVAL WITH SIZE NOTED

DESCRIPTION:

LOTS 1, 2, 13 AND 14, J.D. LAMB'S ADDITION TO PARRISH, AS PER THE PLAT THEREOF RECORDED IN PLAT BOOK 1, PAGE 166, PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA, LESS THE EAST 25.0 FEET THEREOF, TOGETHER WITH THAT PORTION OF THE VACATED ALLEY LYING BETWEEN SAID LOTS 1 & 2 AND LOTS 13 & 14. SAID ALLEY BEING VACATED BY RESOLUTION #81-V-9, DATED 14 JANUARY, 1982 AND RECORDED IN OFFICIAL RECORD BOOK 1020, PAGE 2429, PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA

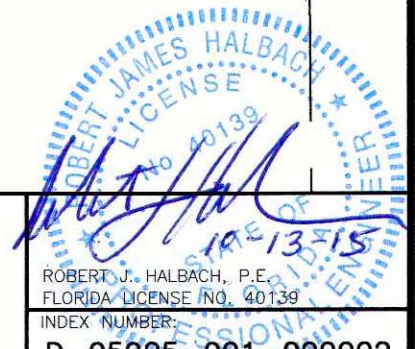
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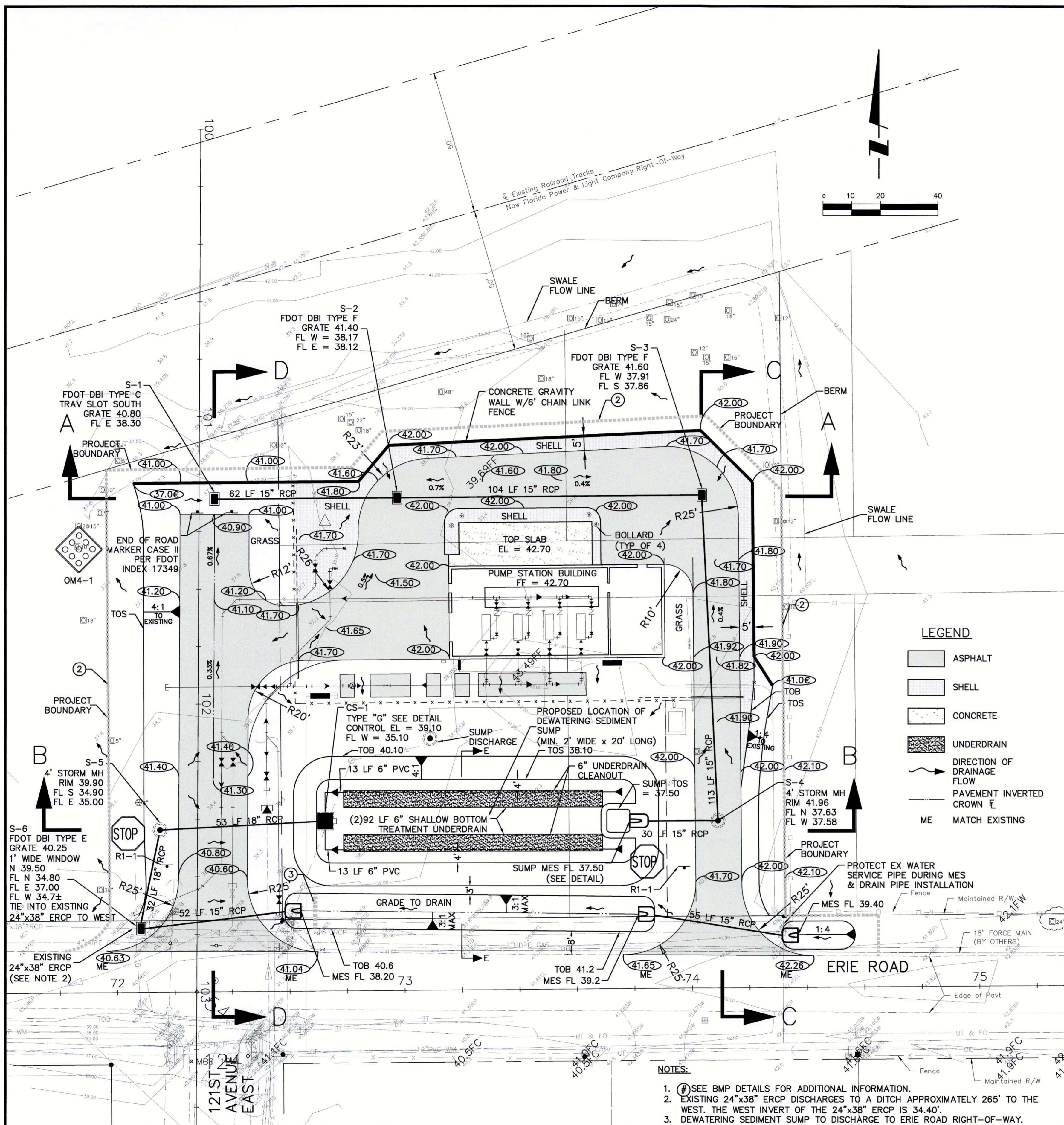
1. BEARINGS SHOWN HEREON REFER TO THE NORTH RIGHT-OF-WAY LINE OF ERIE ROAD BEING ASSUMED AS N89°42'16"E
2. SITE PLAN BASED ON BOUNDARY SURVEY PERFORMED BY LEO MILLS & ASSOCIATES, INC., 09/09/07.
3. THE SUBJECT LAND LIES IN ZONE "C" OF THE FLOOD INSURANCE RATE MAP (FIRM), COMMUNITY-PANEL NUMBER 120153-0210-C (FIRM INDEX DATED 06-30-99), SUBJECT TO VERIFICATION.
4. SUBJECT TO EASEMENTS, DEDICATIONS AND RESTRICTIONS OF RECORD.
5. SUBJECT TO RAILROAD RIGHT-OF-WAY (NOW FLORIDA POWER & LIGHT COMPANY RIGHT-OF-WAY) AS SHOWN HEREON BEING 50 FEET EACH SIDE OF CENTERLINE OF EXISTING TRACKS.
6. DESCRIPTION SHOWN HEREON WAS TAKEN FROM PREVIOUS SURVEY.
7. ELEVATIONS SHOWN HEREON REFER TO NATIONAL GEODETIC VERTICAL DATUM 1929 AND ARE UNDERLINED.
8. INFORMATION IN BOXES PROVIDED BY LEO MILLS & ASSOCIATES, INC., 09/09/07.
9. A SEPTIC TANK ABANDONMENT PERMIT MUST BE OBTAINED THROUGH THE MANATEE COUNTY HEALTH DEPARTMENT. THEY MAY BE REACHED AT 941-748-0747 EXT 1340
10. CONTRACTOR SHALL VISIT SITE PRIOR TO BID, TO DETERMINE WHAT FACILITIES MAY HAVE ALREADY BEEN REMOVED OR WHAT TREES AND VEGETATION HAVE GROWN WITHOUT MAINTENANCE OVER THE PAST 6+ YEARS

<table border="1"> <thead> <tr> <th>REV. NO.</th> <th>REVISION</th> <th>DATE</th> <th>DRWN BY / DWP NO.</th> <th>CHECKED BY / DWP NO.</th> <th>WM APPROVED BY:</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>UPDATE DESIGN/CODE UPDATES FOR REPERMITTING</td> <td>08/13/15</td> <td>KG</td> <td></td> <td></td> </tr> </tbody> </table>			REV. NO.	REVISION	DATE	DRWN BY / DWP NO.	CHECKED BY / DWP NO.	WM APPROVED BY:	A	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG			<table border="1"> <thead> <tr> <th>ACTIVITY</th> <th>INITIALS/EMP. NO.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DESIGNED BY:</td> <td>RJH</td> <td>JULY 2015</td> </tr> <tr> <td>DRAWN BY:</td> <td>KG</td> <td>JULY 2015</td> </tr> <tr> <td>CHECKED BY:</td> <td>RJH</td> <td>JULY 2015</td> </tr> <tr> <td>CONTRACT ADMIN. BY:</td> <td></td> <td></td> </tr> </tbody> </table>			ACTIVITY	INITIALS/EMP. NO.	DATE	DESIGNED BY:	RJH	JULY 2015	DRAWN BY:	KG	JULY 2015	CHECKED BY:	RJH	JULY 2015	CONTRACT ADMIN. BY:			<p>CLIENT: MANATEE COUNTY PUBLIC WORKS</p> <p>PROJECT: VILLAGE OF PARRISH MASTER PUMP STATION</p>			<p>DATE: AUGUST 2015</p> <p>HORIZONTAL SCALE: 1"=20'</p> <p>VERTICAL SCALE: N/A</p> <p>SEC. TYP. 20, 29, 33, 19</p>			<p>TITLE: SITE & DEMOLITION PLAN</p> <p>CROSS REFERENCE FILE NO.:</p> <p>PROJECT NUMBER: 177310561</p> <p>INDEX NUMBER: D-05925-001-000002</p> <p>SHEET NUMBER: 3 OF 12</p>		
REV. NO.	REVISION	DATE	DRWN BY / DWP NO.	CHECKED BY / DWP NO.	WM APPROVED BY:																																				
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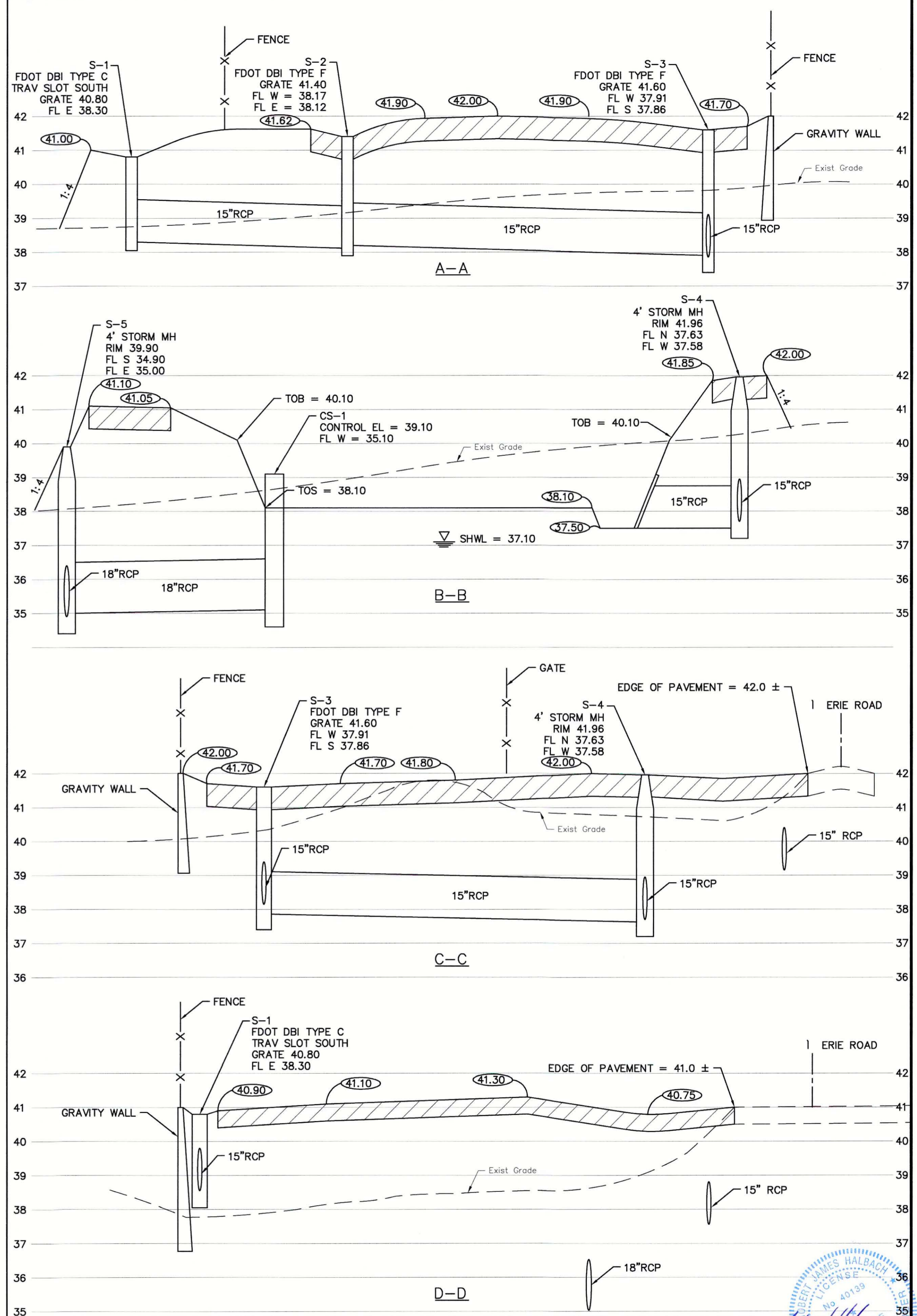




LEGEND

- ASPHALT
- SHELL
- CONCRETE
- UNDERDRAIN
- DIRECTION OF DRAINAGE FLOW
- PAVEMENT INVERTED CROWN
- ME MATCH EXISTING

- NOTES:**
1. SEE BMP DETAILS FOR ADDITIONAL INFORMATION.
 2. EXISTING 24"x38" ERCP DISCHARGES TO A DITCH APPROXIMATELY 265' TO THE WEST. THE WEST INVERT OF THE 24"x38" ERCP IS 34.40'.
 3. DEWATERING SEDIMENT SUMP TO DISCHARGE TO ERIE ROAD RIGHT-OF-WAY.



REV	DESCRIPTION	DATE	BY	CHECKED	DATE
A	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

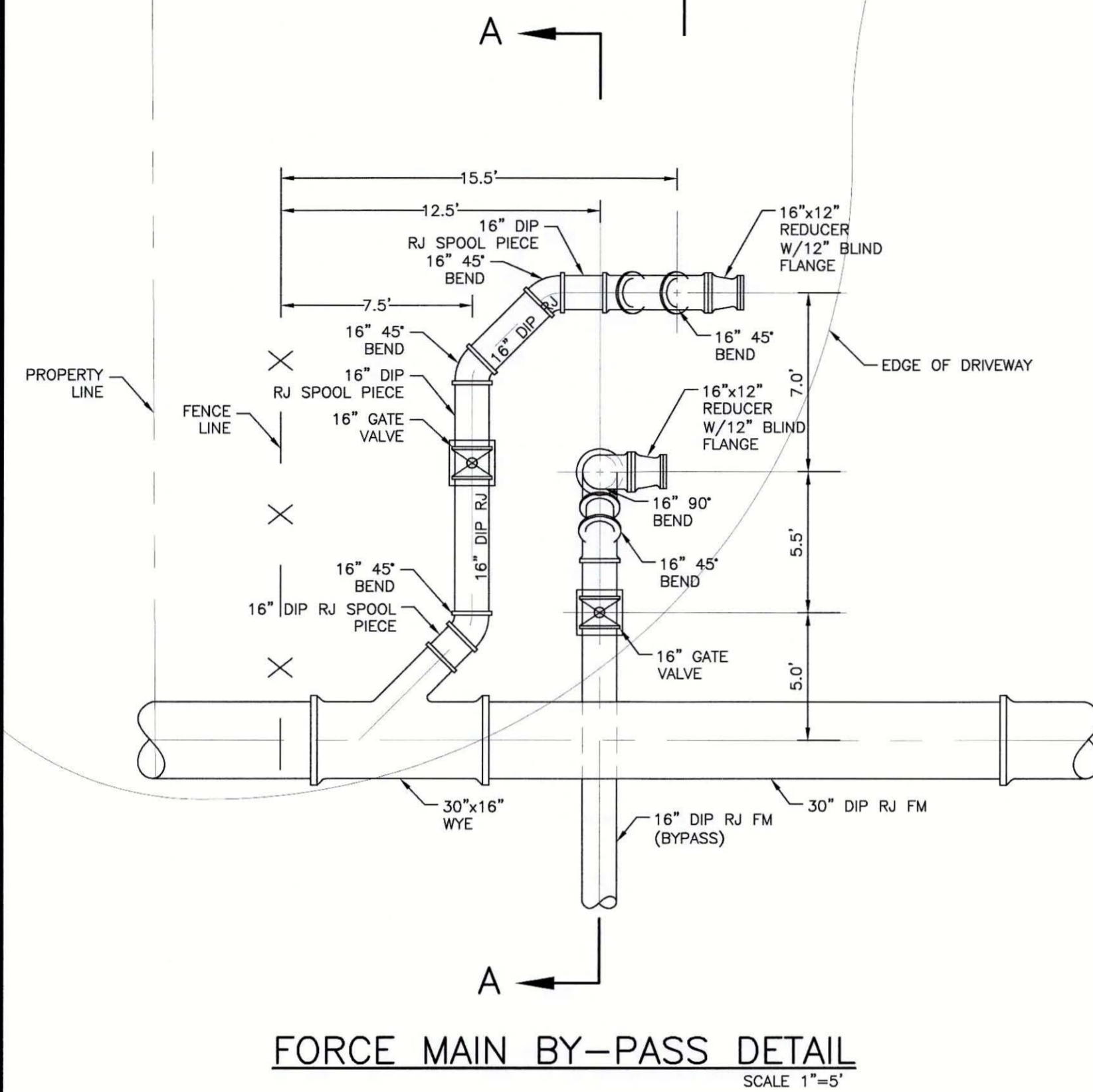
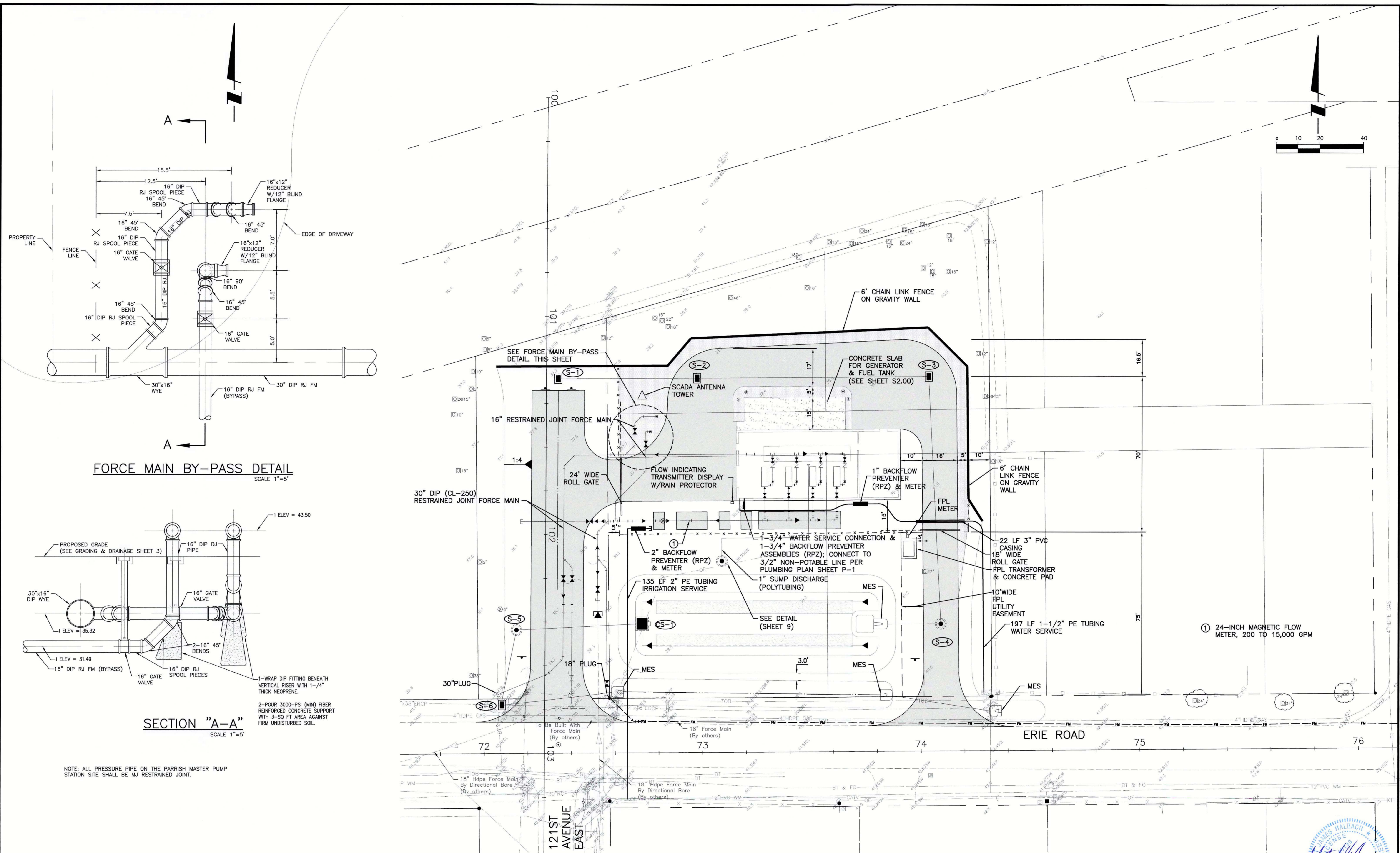


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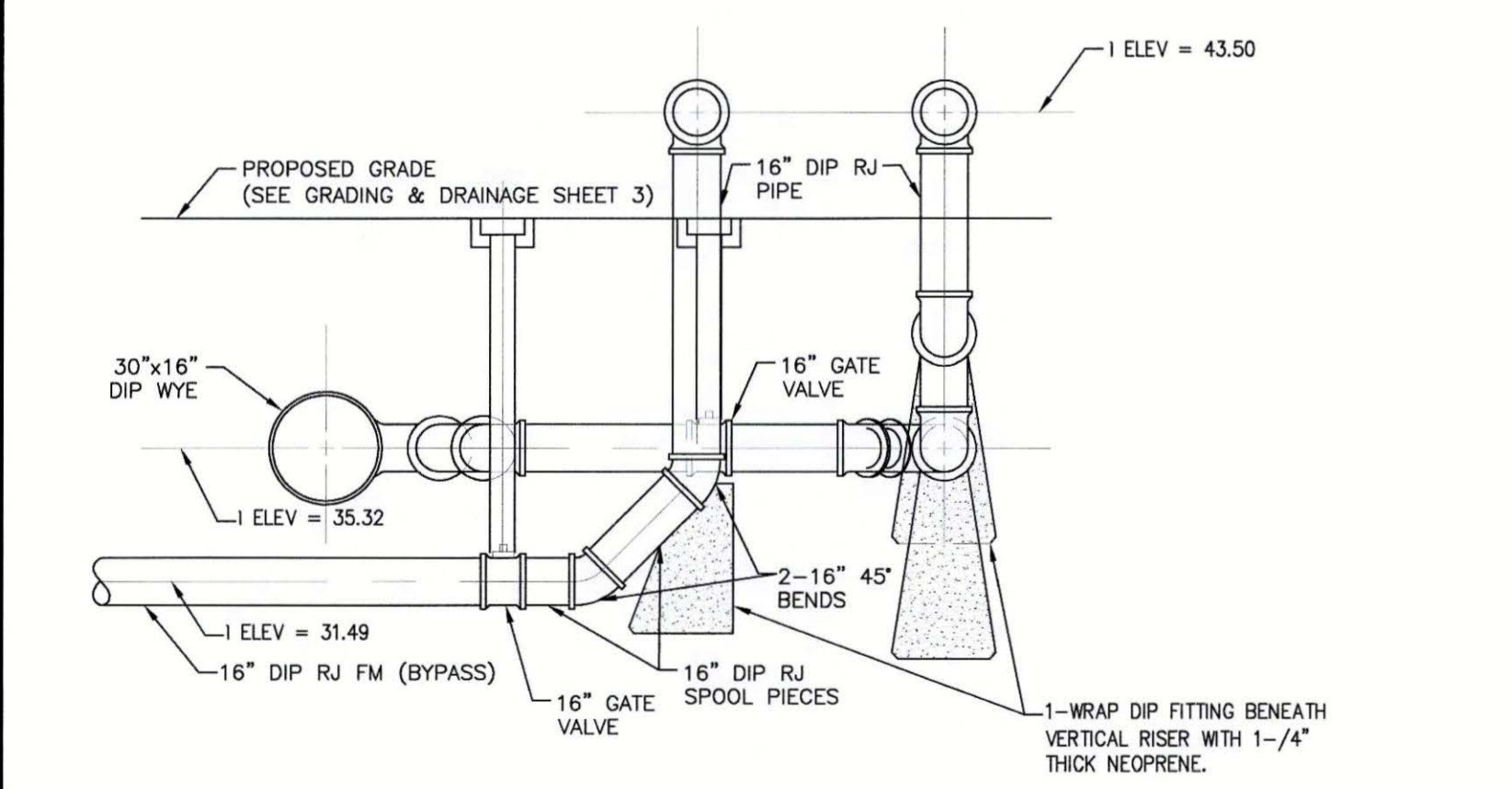
CLIENT: MANATEE COUNTY PUBLIC WORKS
PROJECT: VILLAGE OF PARRISH MASTER PUMP STATION

DATE: AUGUST 2015
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'
SHEET NUMBER: 4 OF 12





FORCE MAIN BY-PASS DETAIL
SCALE 1"=5'



SECTION "A-A"
SCALE 1"=5'

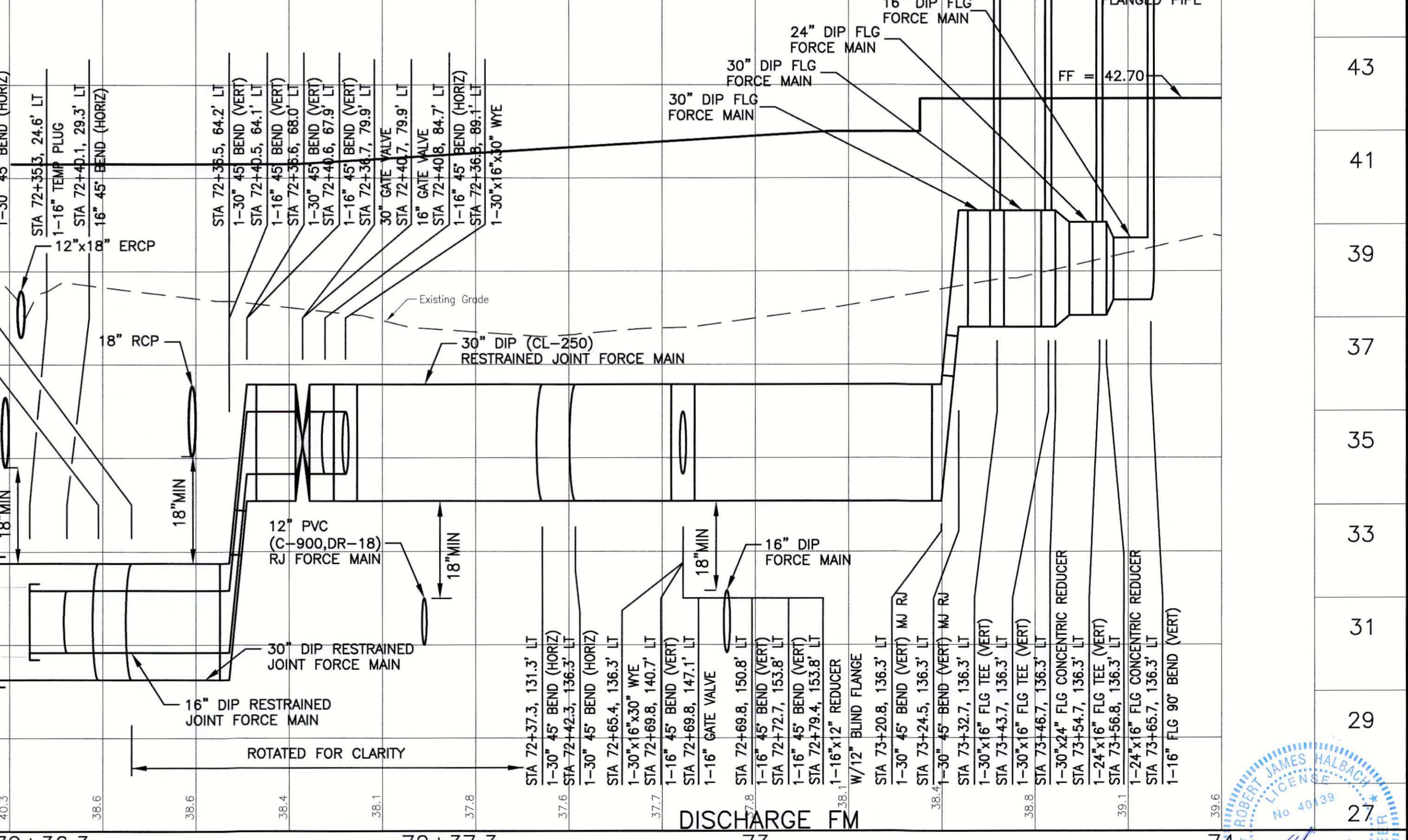
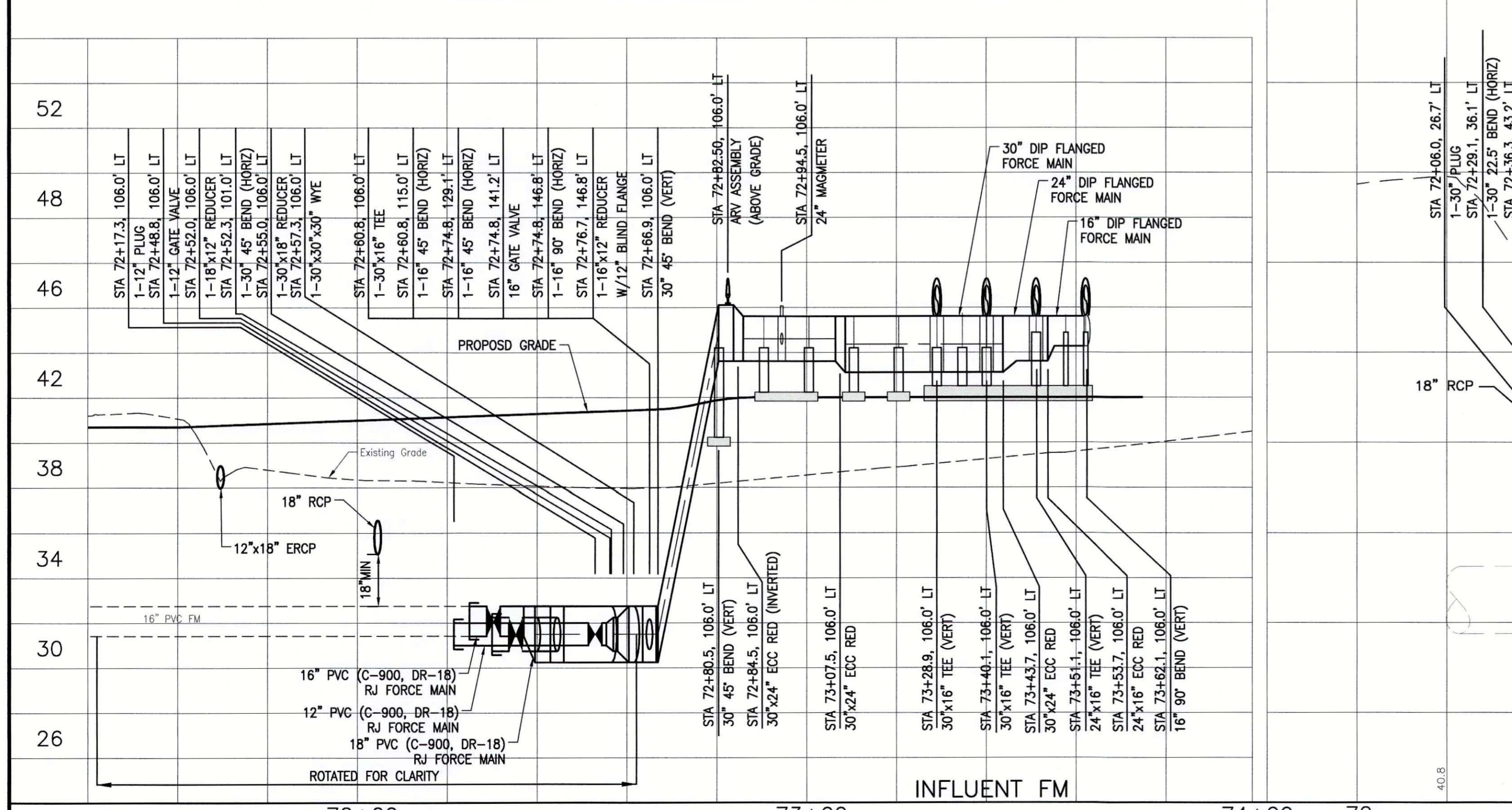
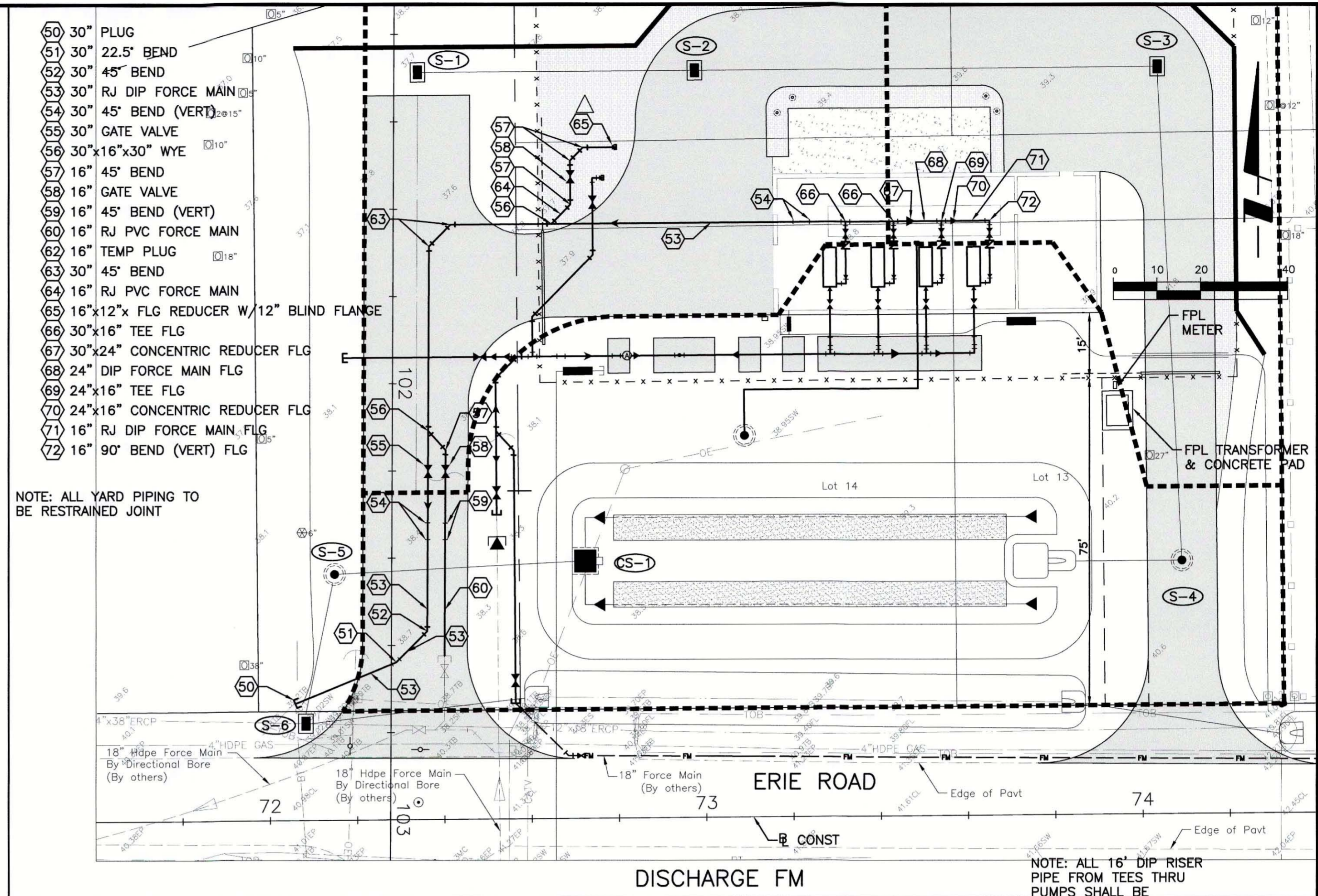
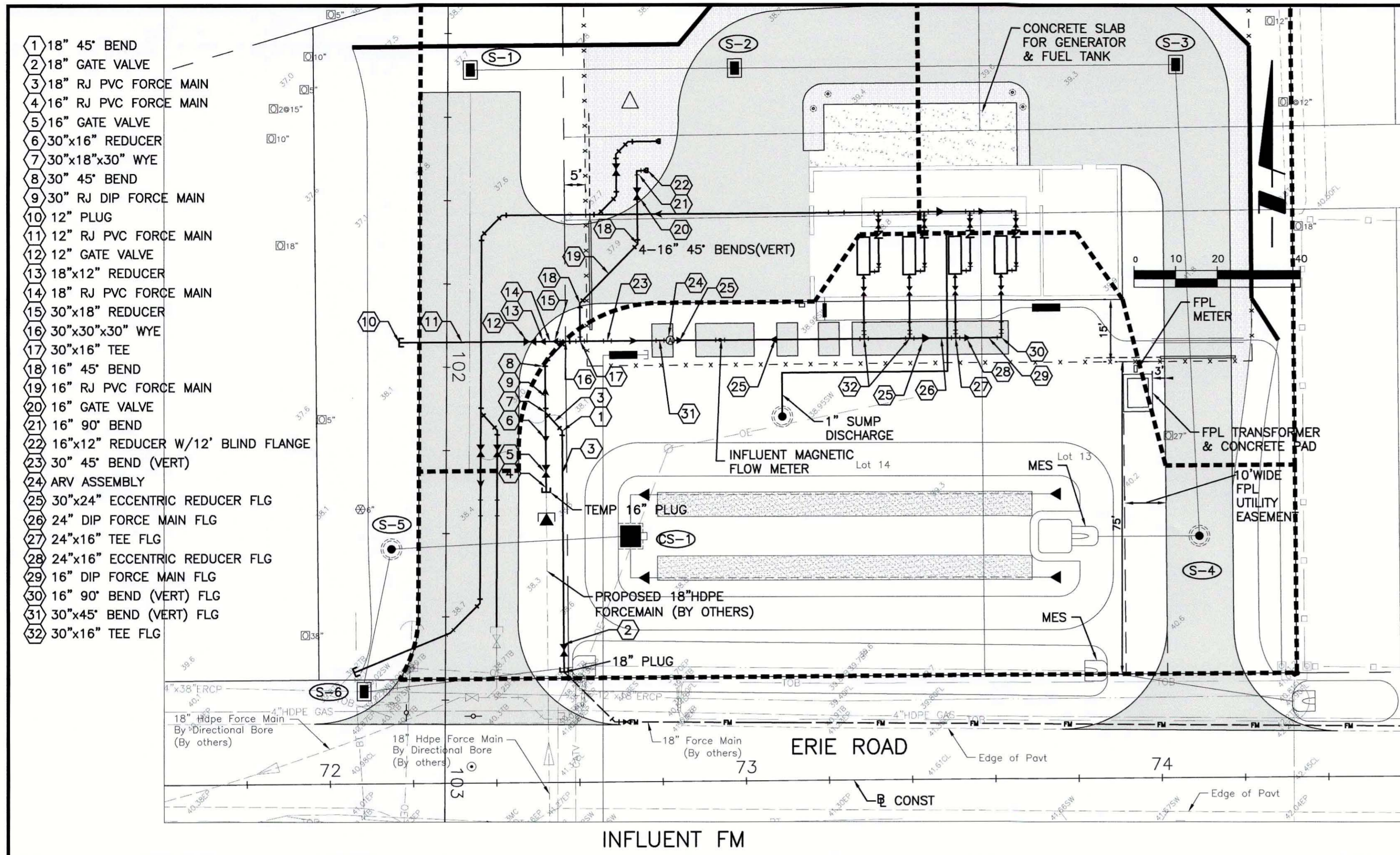
NOTE: ALL PRESSURE PIPE ON THE PARRISH MASTER PUMP STATION SITE SHALL BE MJ RESTRAINED JOINT.

REVISION	DATE	BY	CHECKED	DESCRIPTION
A	08/13/15	KG		UPDATE DESIGN/CODE UPDATES FOR REPERMITTING

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CLIENT: MANATEE COUNTY PUBLIC WORKS
PROJECT: VILLAGE OF PARRISH MASTER PUMP STATION
DATE: AUGUST 2015
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: N/A
SHEET NO: 33 OF 191

TITLE: YARD PIPING PLAN
PROJECT NUMBER: 177310561
SHEET NUMBER: 5 OF 12
INDEX NUMBER: D-05925-001-000004
DESIGNED BY: RJH
DRAWN BY: KG
CHECKED BY: RJH
CONTRACT ADMIN. BY:
WM APPROVED BY:



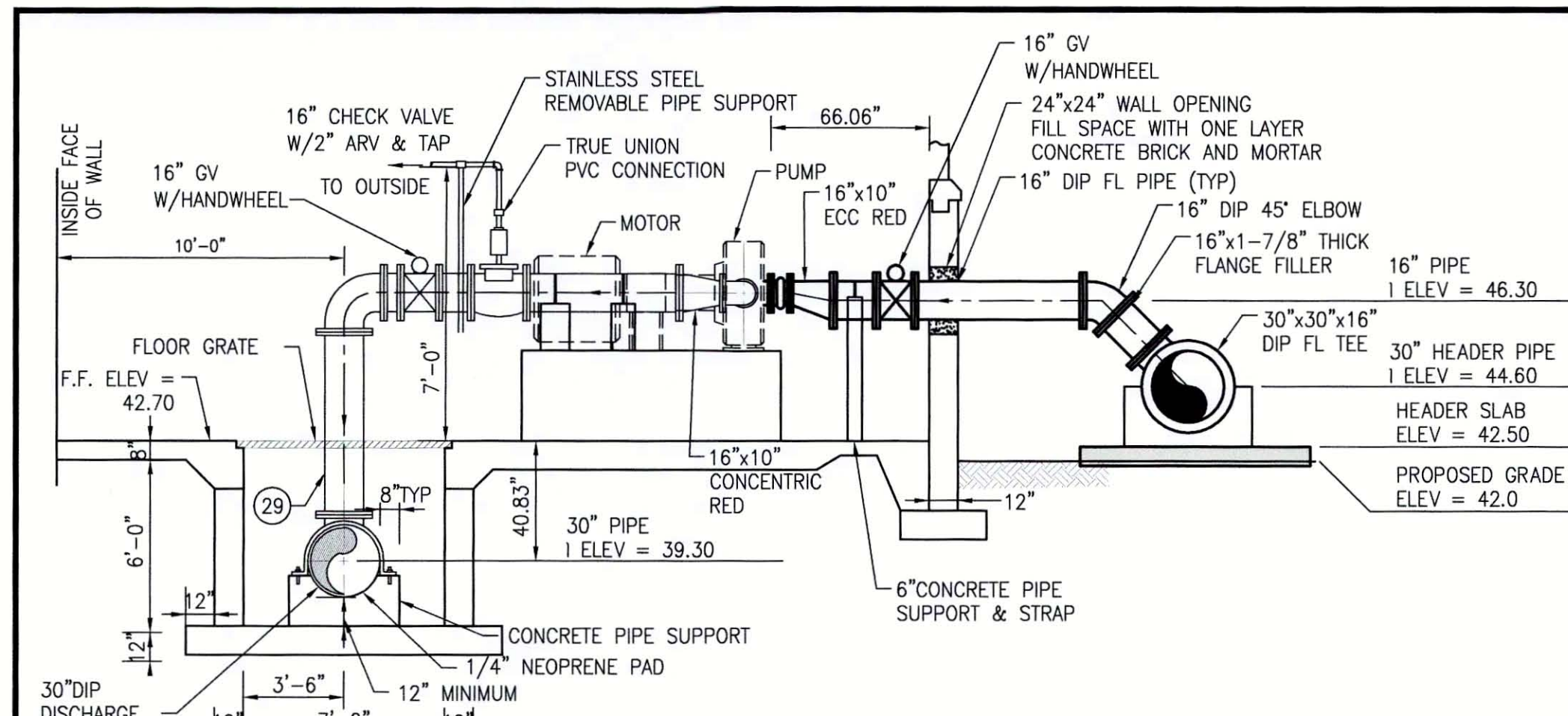
NO.	REVISION	DATE	DRAWN BY / DWP	CHECKED BY / DWP	DATE
A	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG		

CLIENT:	MANATEE COUNTY PUBLIC WORKS
PROJECT:	VILLAGE OF PARRISH MASTER PUMP STATION
DATE:	AUGUST 2015
HORIZONTAL SCALE:	1"=20'
VERTICAL SCALE:	1"=2'
CROSS REFERENCE FILE NO.:	177310561
PROJECT NUMBER:	05925-001-000005
SHEET NUMBER:	6 OF 12

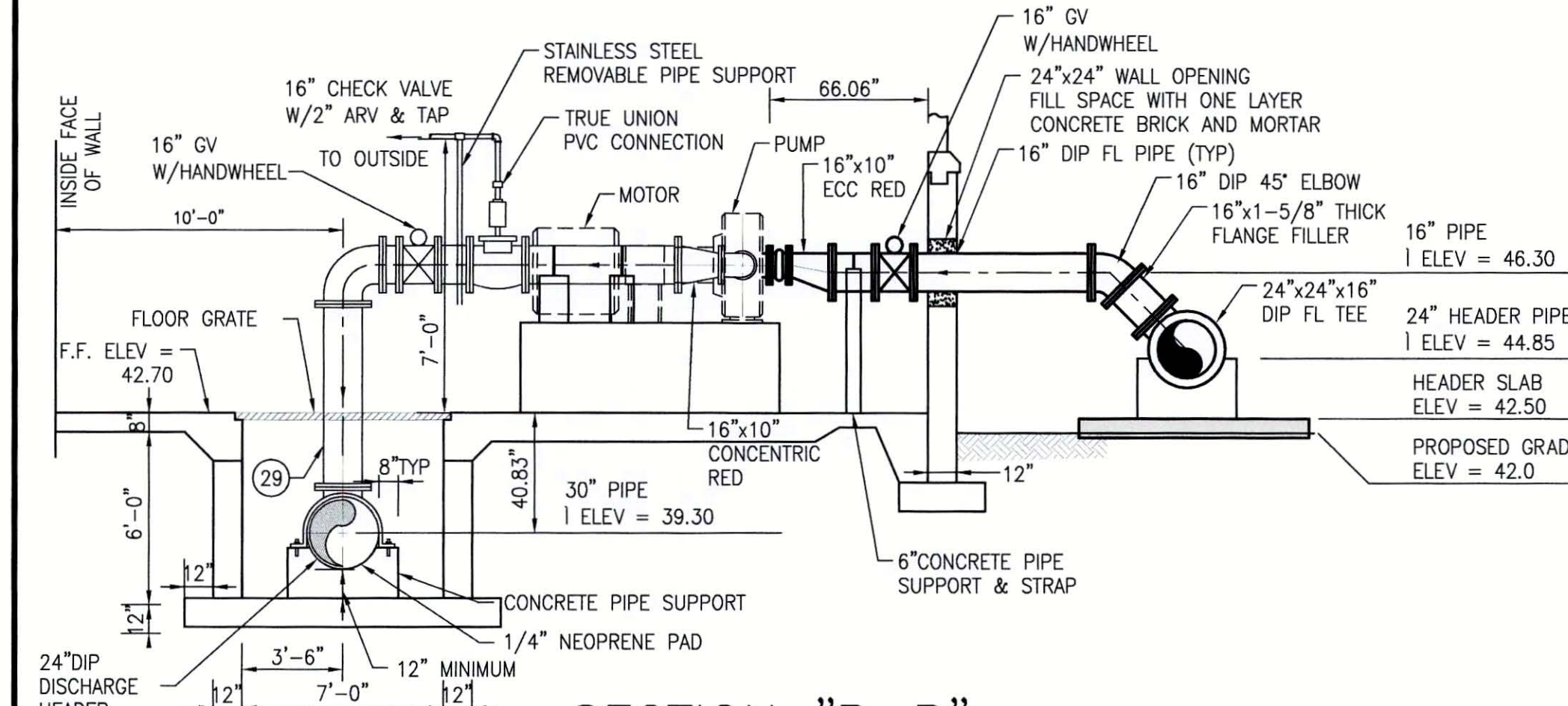


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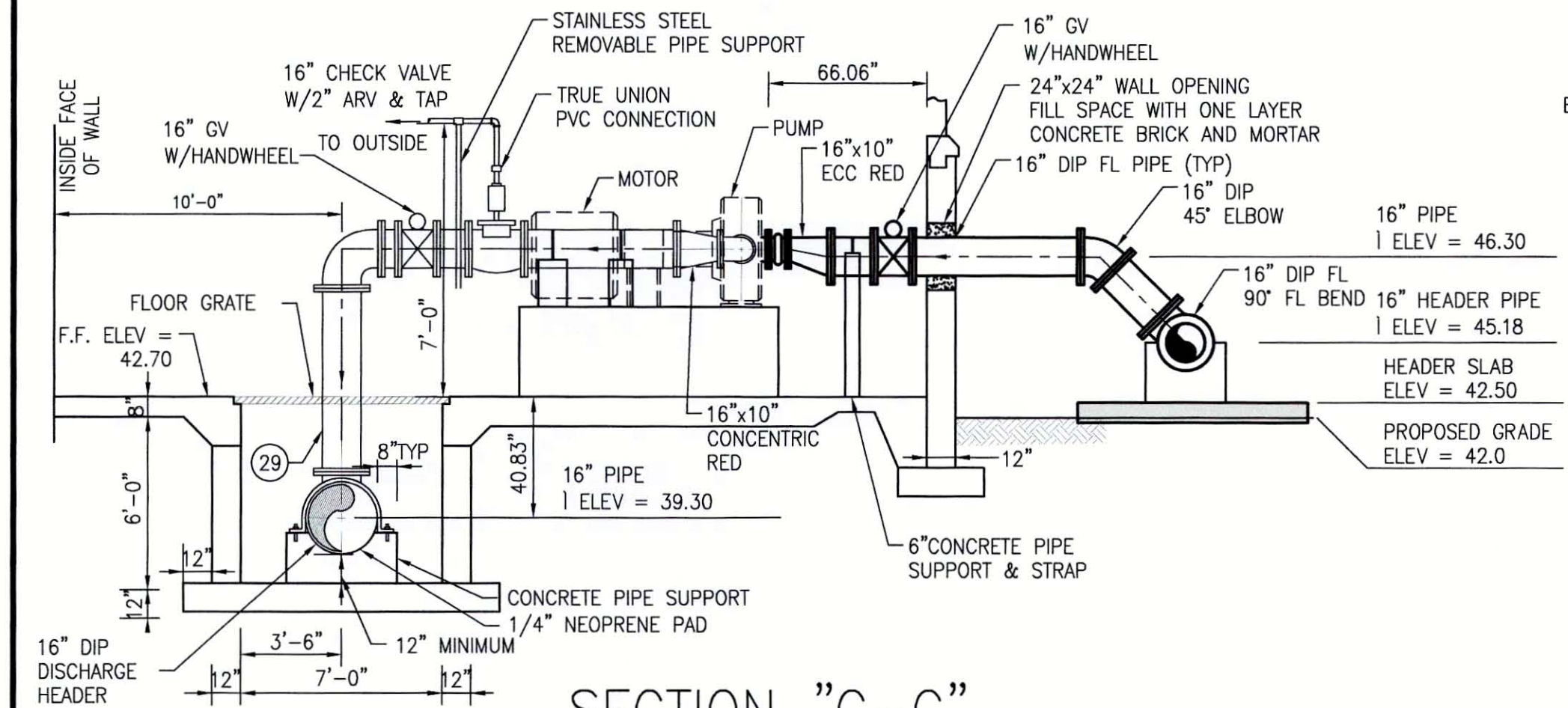




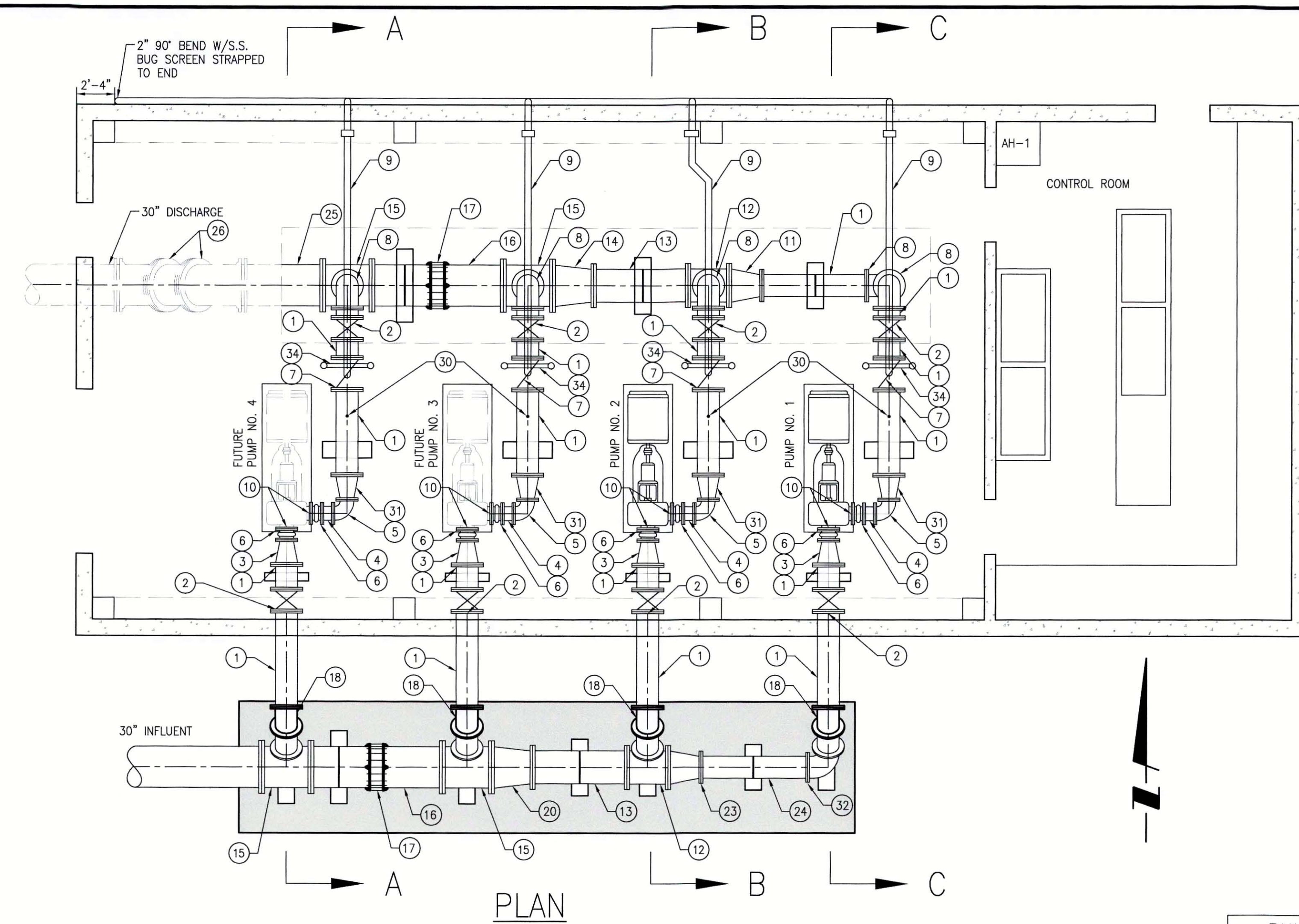
SECTION "A-A"



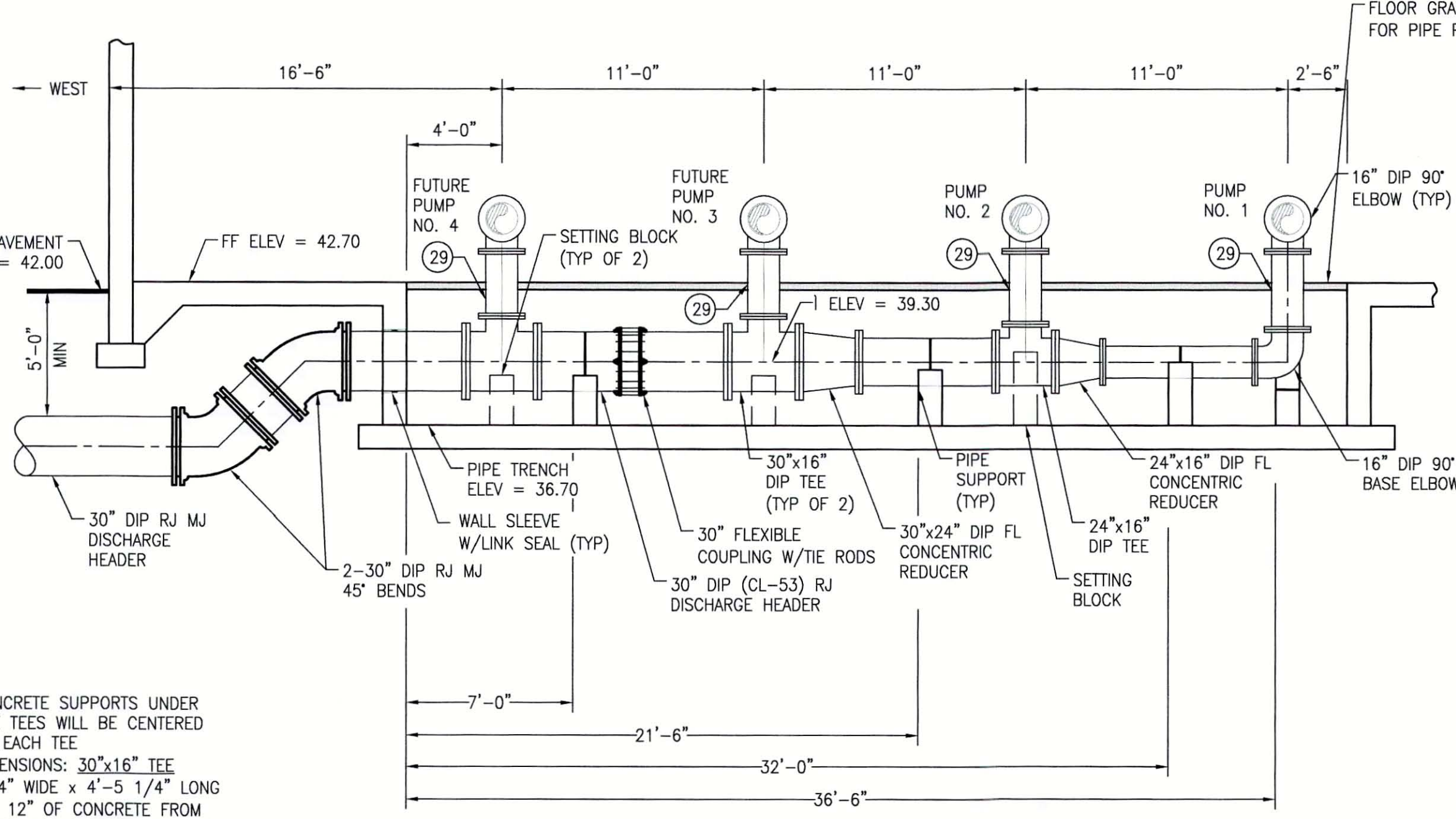
SECTION "B-B"



SECTION "C-C"



PLAN



DISCHARGE PIPE PROFILE

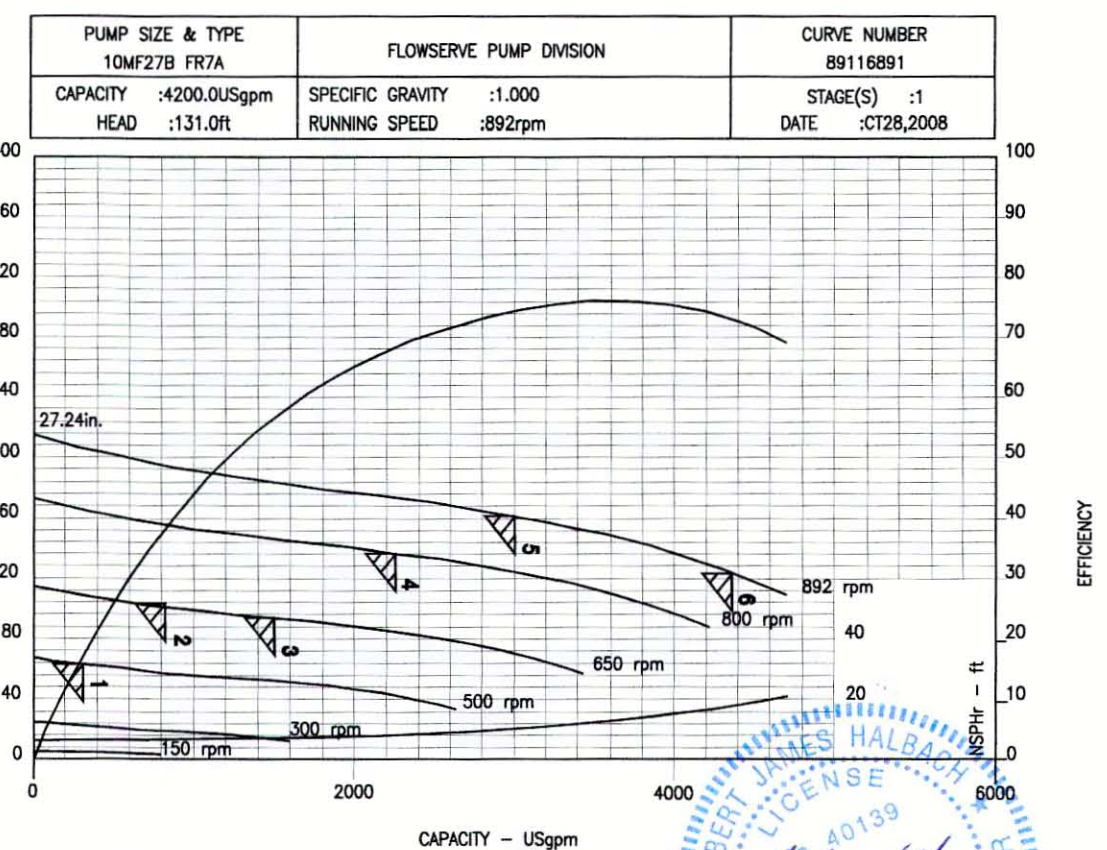
- 1 16" DIP FL x FL PIPE - SIZED TO FIT ASSEMBLY
- 2 16" GATE VALVE WITH HANDWHEEL (FL) [INSTALL AT ANGLE TO ALLOW ACCESSIBILITY TO HAND WHEEL] MUELLER OR APPROVED EQUAL
- 3 16"x10" ECCENTRIC REDUCER (FL x FL)
- 4 10" DIP FL x FL PIPE - SIZED TO FIT ASSEMBLY
- 5 10" 90° BEND (FL x FL)
- 6 10" EXPANSION JOINT PROCO SERIES 251 OR EQUAL
- 7 16" CHECK VALVE (FL x FL) WITH 2" AIR RELEASE VALVE (GA INDUSTRIES SHORT BODY, FIG. 929, OR EQUAL)
- 8 16" 90° BEND (FL x FL)
- 9 2" PVC (SCH-80) PIPE & FITTINGS - ARV ASSY
- 10 10" BLIND FLANGE (FL)
- 11 24"x16" CONCENTRIC REDUCER (FL x FL)
- 12 24"x16" TEE (FL x FL)
- 13 24" DIP FL x FL PIPE - SIZED TO FIT ASSEMBLY
- 14 30"x24" CONCENTRIC REDUCER (FL x FL)
- 15 30"x16" TEE (FL x FL)
- 16 30" DIP (CL-350) FL x FL PIPE - SIZED TO FIT ASSEMBLY
- 17 30" FLEXIBLE COUPLING W/TIE RODS
- 18 16" 45° BEND (FL x FL)
- 19 NOT USED
- 20 30"x24" ECCENTRIC REDUCER (FL x FL)
- 21 24" DIP (CL-250) RJ PIPE (PE x PE) - SIZED TO FIT ASSEMBLY
- 22 30" 45° BEND (FL x FL)
- 23 24"x16" ECCENTRIC REDUCER (FL x FL)
- 24 16" DIP RJ PIPE (PE x PE) - SIZED TO FIT ASSEMBLY
- 25 30" DIP RJ PIPE (FL x PE) - SIZED TO FIT ASSEMBLY
- 26 30" 45° BEND (MJ x MJ)
- 27 30" DIP (CL-250) RJ PIPE (PE x PE) - SIZED TO FIT ASSEMBLY
- 28 16" DIP PIPE (FL x PE) RISER (OUTSIDE) - SIZED TO FIT ASSEMBLY
- 29 16" DIP PIPE (FL x FL) - RISER IN PIPE TRENCH - SIZED TO FIT ASSEMBLY
- 30 2" McDANIEL STAINLESS STEEL, 0-100 PSI, GLYCERIN - FILLED, PRESSURE GAUGE W/REPAIRABLE 1% ACCURACY
- 31 16"x10" CONCENTRIC REDUCER (FL x FL)
- 32 16" 90° BEND (FL x FL)
- 33 2" TRUE UNION PVC CONNECTION
- 34 STAINLESS STEEL REMOVABLE PIPE SUPPORT

NOTE: ALL FLANGED PIPE SHALL BE THICKNESS CLASS 53.

PUMP DATA

MAKE: FLOWSERVE
 MODEL: 10M27B FR7A
 IMPELLER DIA: 27.24 INCH
 VOLTAGE: 480V
 HORSEPOWER: 200HP
 SPEED: 892 RPM

DESIGN POINT	GPM	TDH (ft.)	RPM
1	300	64'	500
2	800	102'	650
3	1,500	136'	800
4	2,250	162'	892
5	3,000	182'	892
6	4,350	126'	892

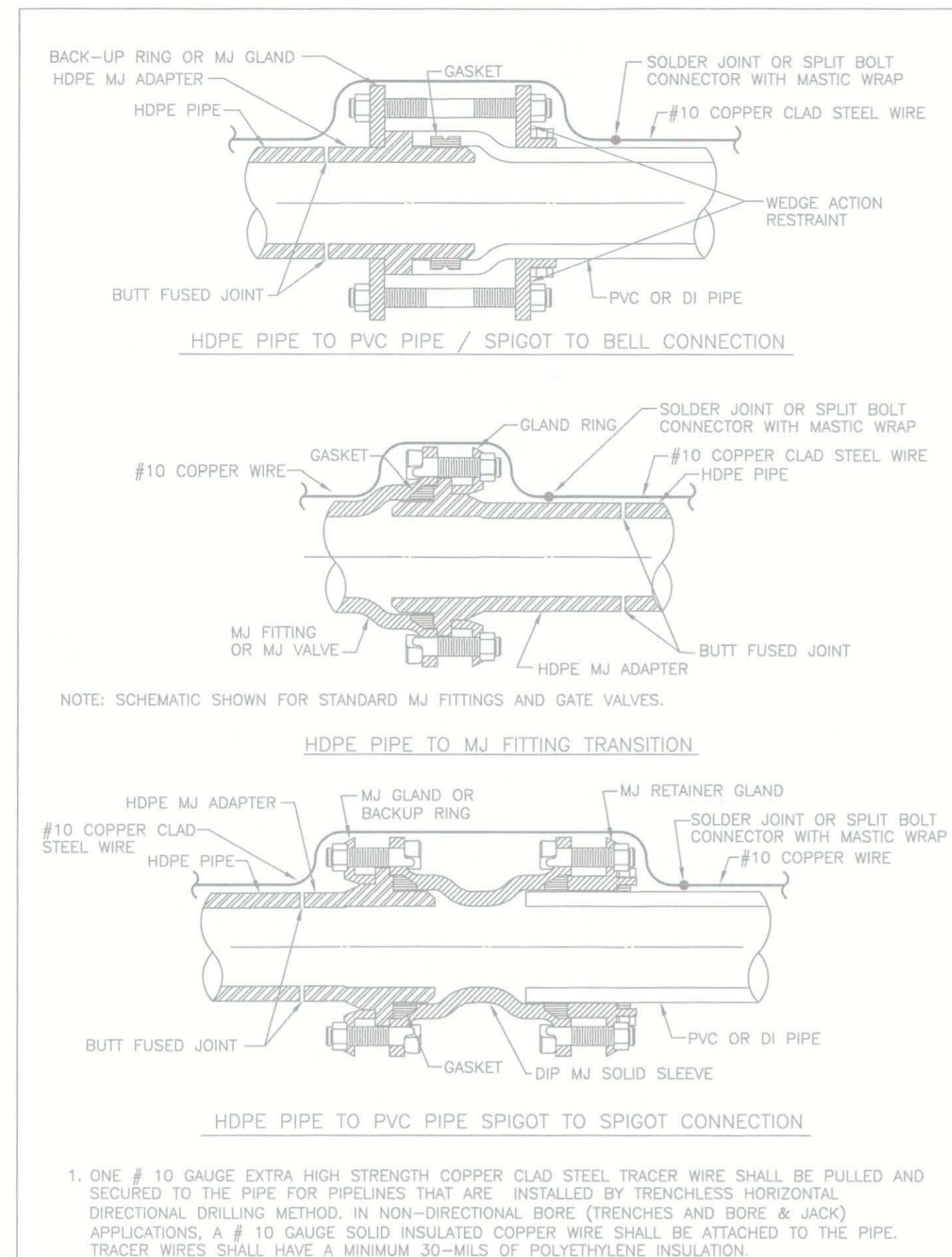


FINAL PUMP DATA MUST BE INCLUDED ON THE RECORD PLAN SET

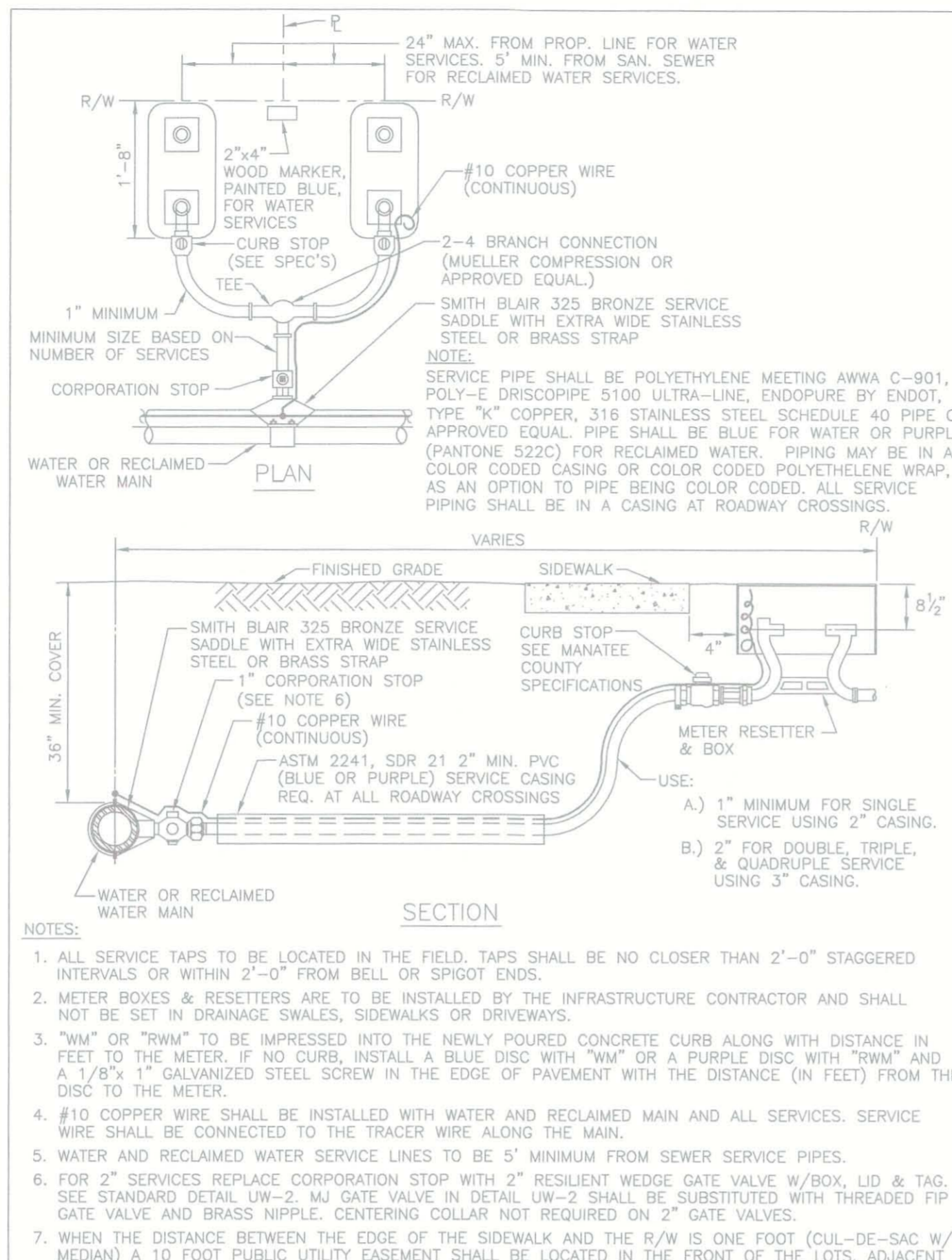
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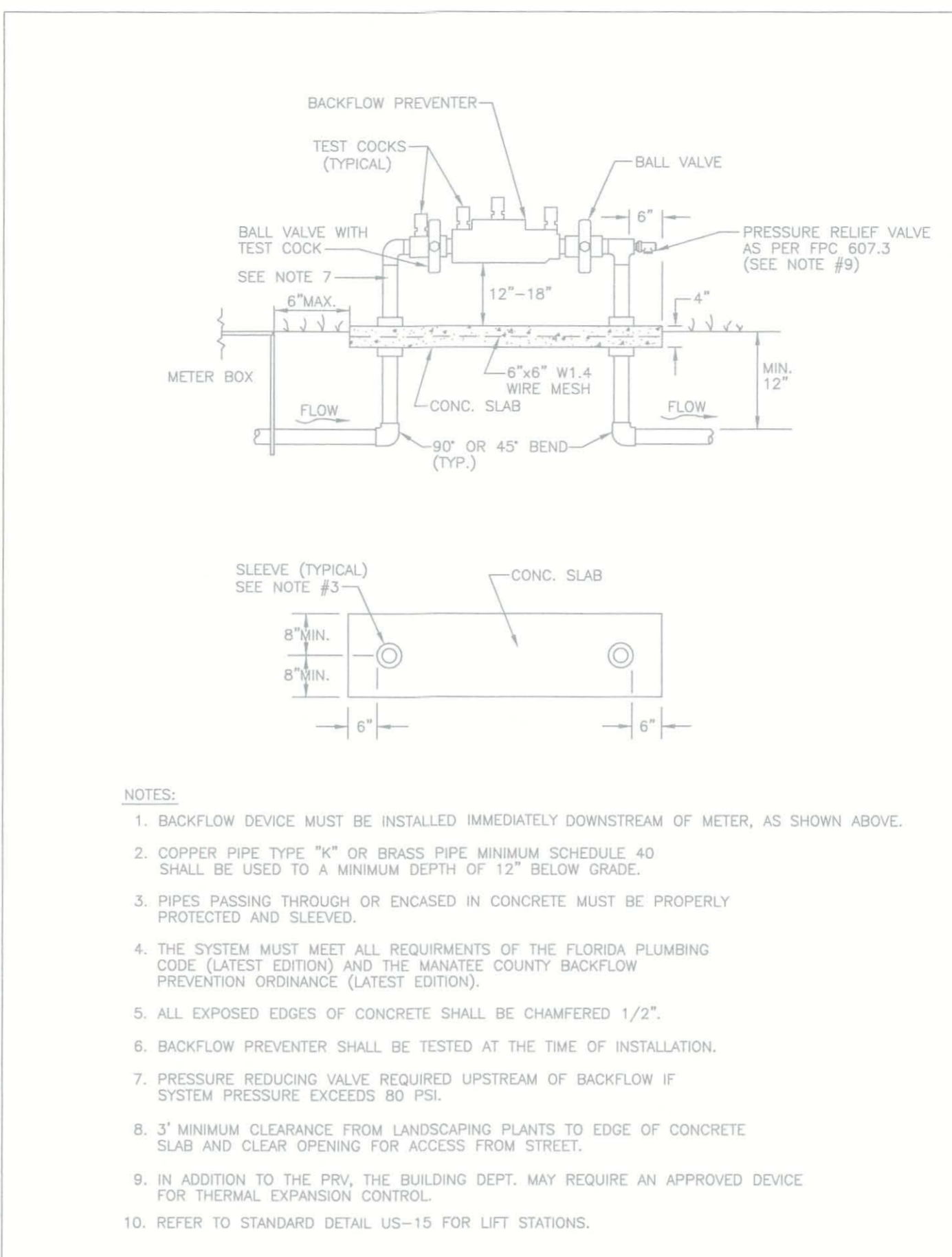
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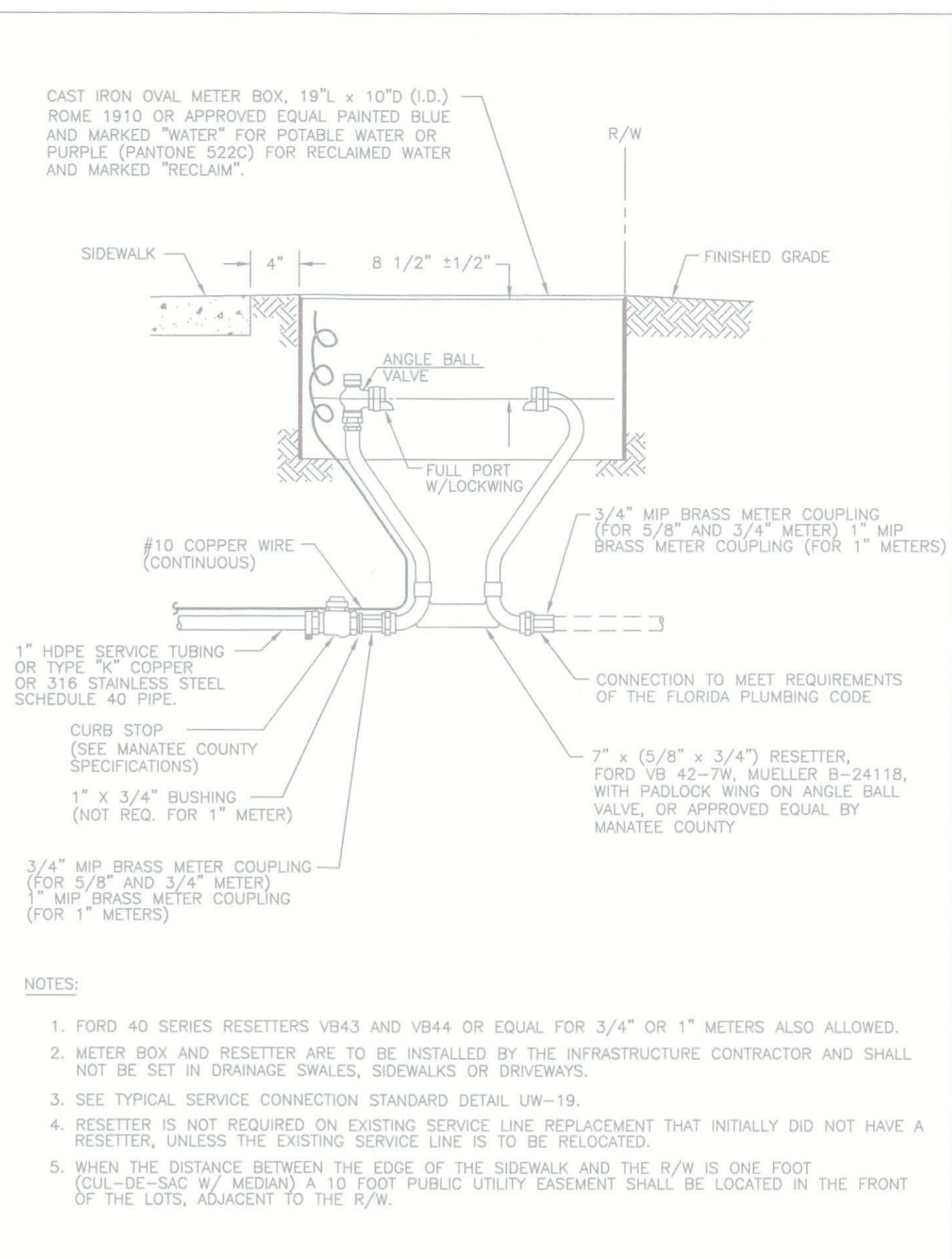
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		HDPE TO PVC OR DI PIPE ADAPTER	UG-6
REV. BY	DATE	DRAFT	DATE OF APPROVAL
CLB/KE	8/05		
JAA/JB	10/08		
JAA/JB	2/09		



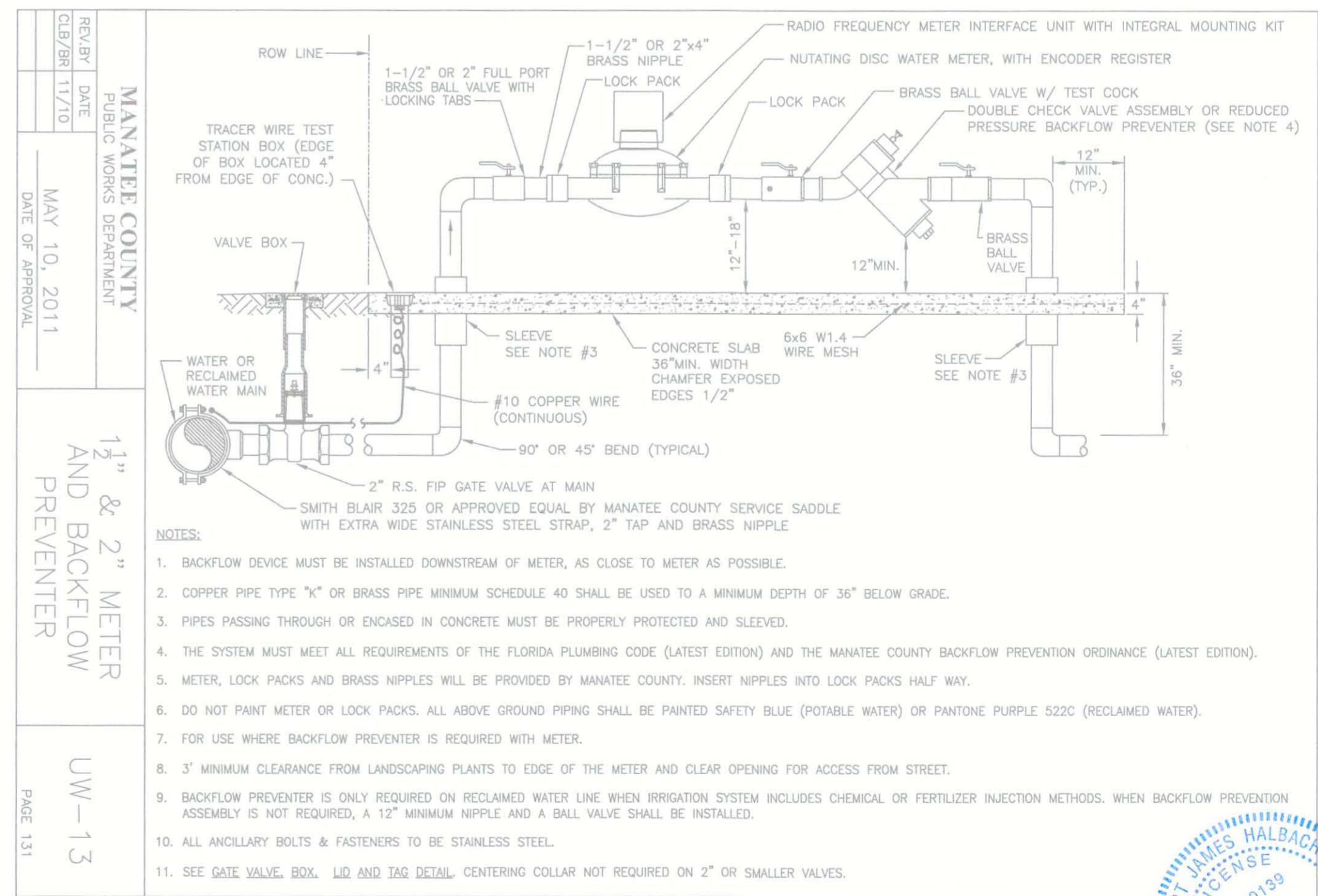
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPICAL SERVICE CONNECTION	UW-19
REV. BY	DATE	MARCH 17, 2009	DATE OF APPROVAL
MH/KE	09/06		
JAA/KE	10/08		
JAA/KE	02/09		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		3/4\" & 1\" BACKFLOW PREVENTER	UW-12
REV. BY	DATE	MARCH 17, 2009	DATE OF APPROVAL
CLB/KE	03/06		
JAA/JB	10/08		
JAA/JB	02/09		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		METER BOX ASSEMBLY FOR 5/8\" x 3/4\", 3/4\" & 1\" METERS	UW-17
REV. BY	DATE	MARCH 17, 2009	DATE OF APPROVAL
MH/KE	3/07		
JAA/JB	10/08		
JAA/JB	02/09		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		1 1/2\" & 2\" METER AND BACKFLOW PREVENTER	UW-13
REV. BY	DATE	MAY 10, 2011	DATE OF APPROVAL
CLB/KE	11/10		
JAA/JB	10/08		
JAA/JB	02/09		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

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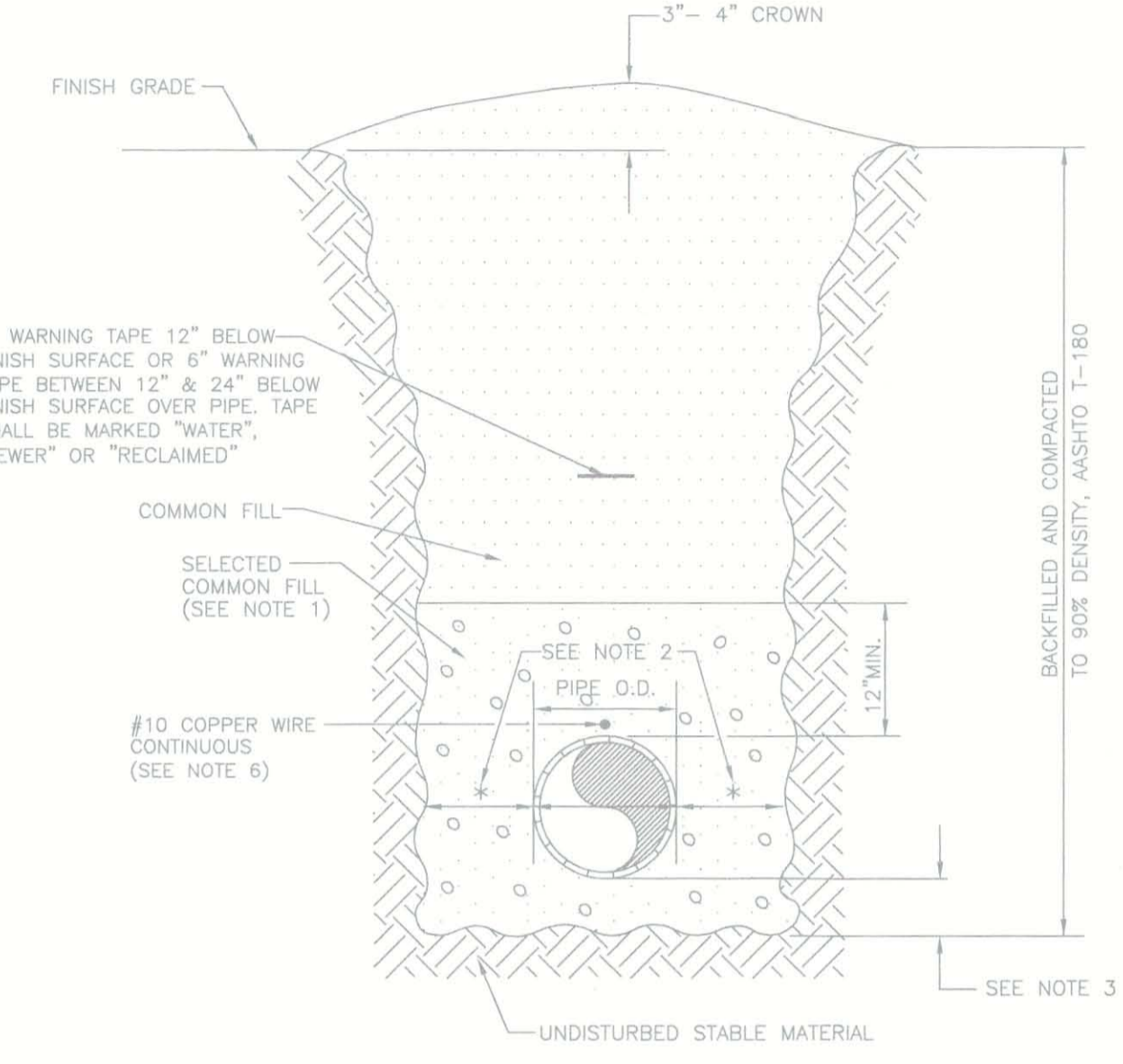
CLIENT:	MANATEE COUNTY PUBLIC WORKS
PROJECT:	VILLAGE OF PARRISH MASTER PUMP STATION

DATE:	AUGUST 2015
VERTICAL SCALE:	N/A
SECTION SCALE:	N/A
SECTION:	29 33 19
CROSS REFERENCE FILE NO.:	
PROJECT NUMBER:	177310561
SHEET NUMBER:	8 OF 12



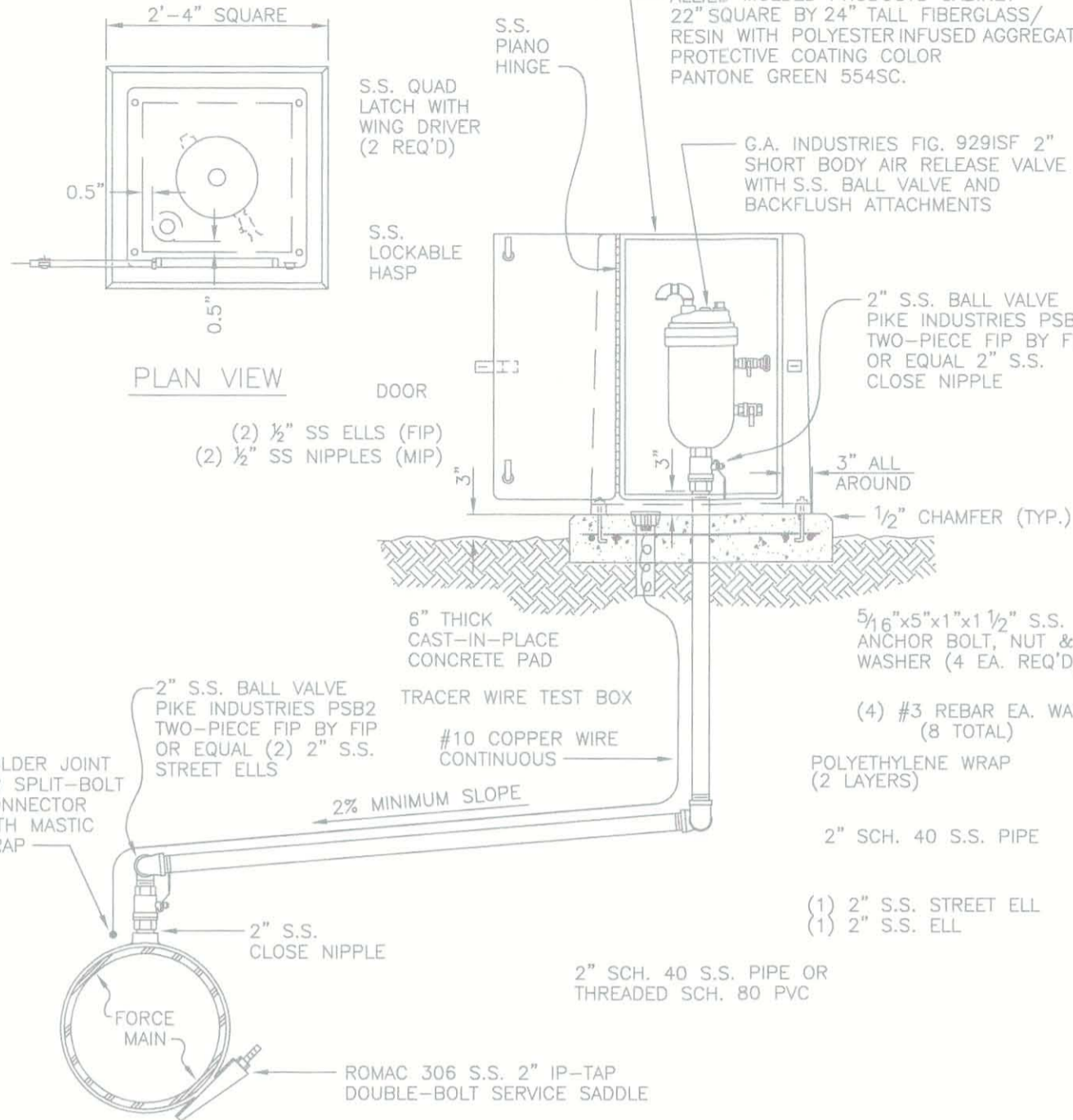
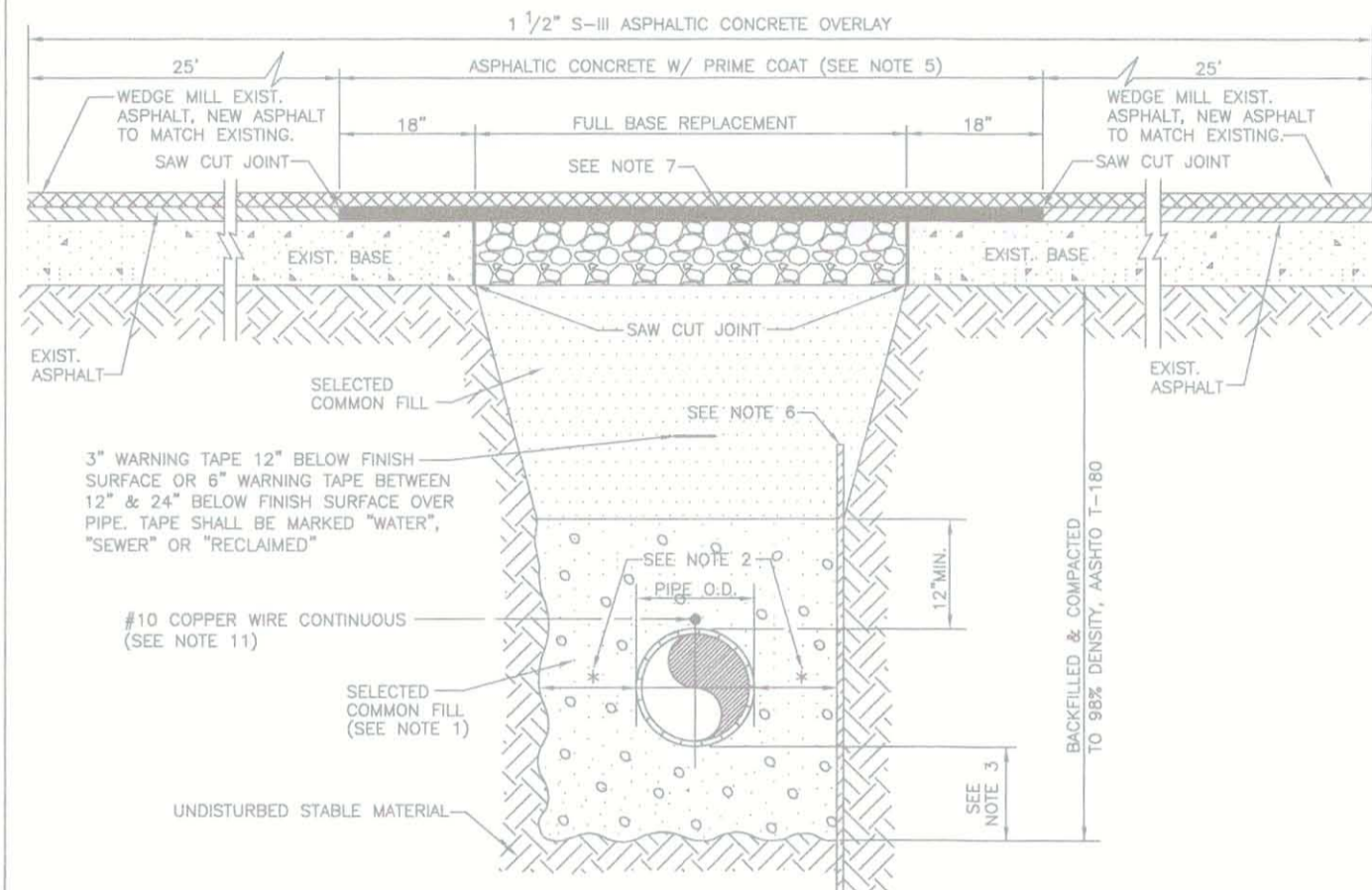
NOTES:

- 1.) USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 2.) 10" MAX. FOR PIPE DIAMETER LESS THAN 24"; 12" MAX. FOR PIPE DIAMETER 24" AND LESS THAN 42"; 24" MAX. FOR PIPE DIAMETER 42" AND OVER.
- 3.) 4" MAX. FOR PIPE 16" DIAMETER & LESS; 6" MAX. FOR PIPE 18" TO 36" DIAMETER; AND 9" MAX FOR PIPE 42" DIAMETER AND LARGER.
- 4.) PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 5.) BACKFILL AASHTO M-145 SHALL BE PLACED IN LAYERS NOT TO EXCEED 6 INCHES FOR SELECTED COMMON FILL AND NOT TO EXCEED 12 INCHES FOR COMMON FILL. EACH LAYER SHALL BE THOROUGHLY TAMPED AND/OR ROLLED TO 98% AASHTO T-180 DENSITY.
- 6.) TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



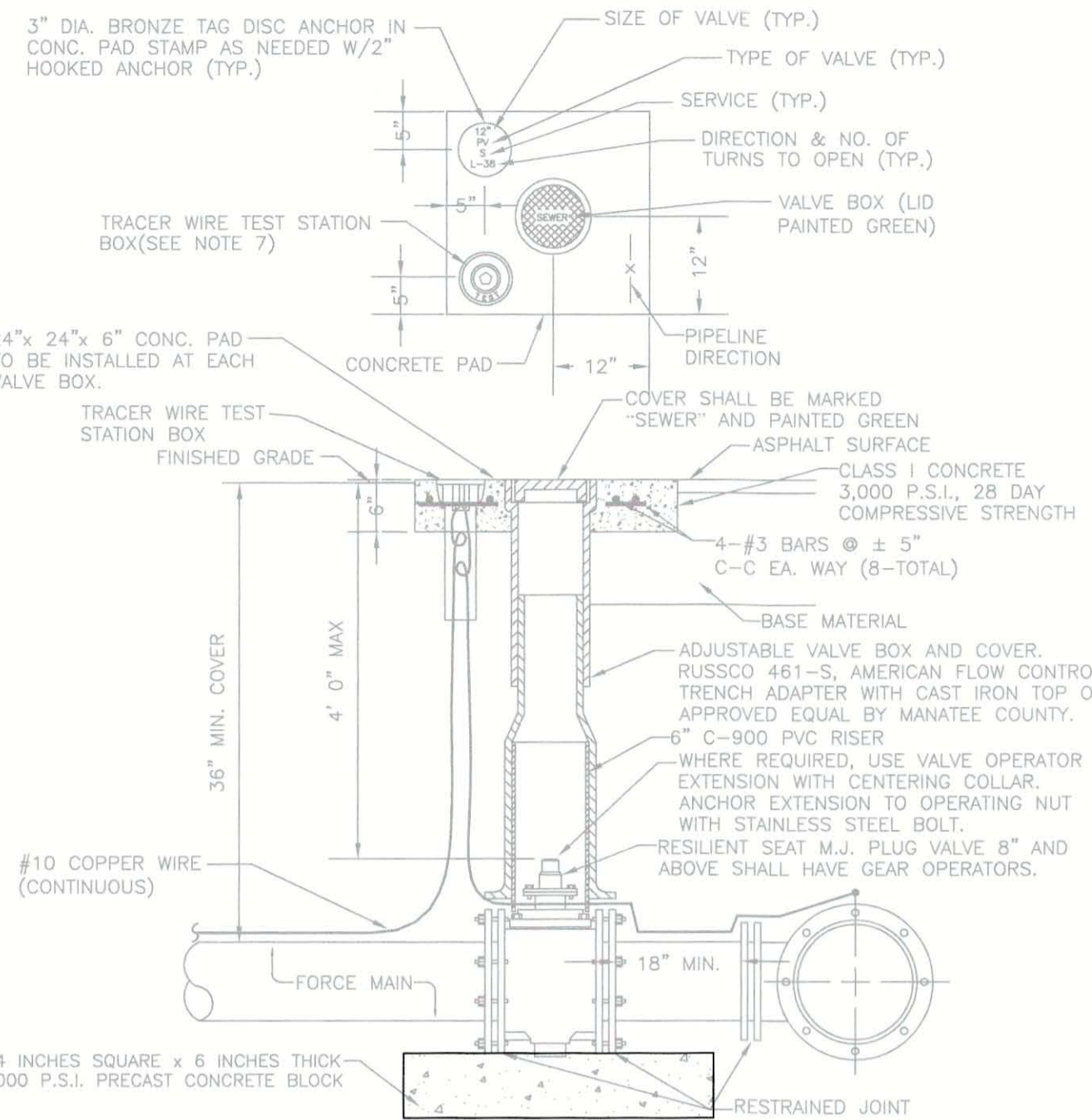
NOTES:

- 1.) USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 2.) 10" MAX. FOR PIPE DIAMETERS LESS THAN 24"; 12" MAX. FOR PIPE DIAMETER 24" AND LESS THAN 42"; 24" MAX. FOR PIPE DIAMETER 42" AND OVER.
- 3.) 4" MAX. FOR PIPE 16" DIAMETER & LESS; 6" MAX. FOR PIPE 18" TO 36" DIAMETER; AND 9" MAX. FOR PIPE 42" DIAMETER AND LARGER.
- 4.) PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 5.) ASPHALTIC CONCRETE FRICTION COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF ONE INCH, WHICHEVER IS GREATER.
- 6.) SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
- 7.) BASE SHALL BE 8" MINIMUM THICKNESS CRUSHED CONCRETE, SAND ASPHALT BASE WILL BE AN ACCEPTABLE ALTERNATIVE.
- 8.) BACKFILL AASHTO M-145 SHALL BE PLACED IN LAYERS NOT TO EXCEED 6 INCHES. EACH LAYER SHALL BE THOROUGHLY TAMPED AND/OR ROLLED TO 98% AASHTO T-180 DENSITY.
- 9.) TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIME. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
- 10.) RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
- 11.) TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
- 12.) NOTES 5.) THRU 11.) ARE MINIMUM REQUIREMENTS. REFER TO MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



NOTES:

1. AIR RELEASE VALVES TO BE INSTALLED AT HIGH POINTS, OR WHERE AIR WOULD BE ENTRAPPED, ALONG 4" AND LARGER FORCE MAINS.
2. FORCE MAIN VERTICAL ALIGNMENT TO BE DESIGNED SUCH THAT THE MINIMUM NUMBER OF REQUIRED AIR RELEASE VALVES ARE INSTALLED.
3. ALL INCIDENTAL FITTINGS AND HARDWARE TO BE STAINLESS STEEL.
4. ALL PIPE THREADS TO BE SEALED AIR TIGHT.
5. VENT PIPE TO BE LAID ACCURATELY ON SLOPE, WITHOUT HIGH OR LOW POINTS.
6. AIR RELEASE VALVES TO BE IN BELOW-GRADE INSTALLATIONS PER DETAIL US-10 UNLESS IMPRACTICAL, THEN, INSTALLATIONS MAY BE ABOVE-GROUND ONLY WHERE APPROVED AND SPECIFICALLY INDICATED ON THE PLAN.
7. CONCRETE PAD SHALL BE TYPE I CONCRETE W/ 3,000 P.S.I., 28 DAY COMPRESSIVE STRENGTH.



NOTES:

1. "SY" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE VALVE. IF NO CURB, INSTALL A GREEN DISC WITH "SY" AND A 1/8"x1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE DISTANCE (FT.) FROM THE DISC TO THE VALVE.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS ESTABLISHED IN THE FIELD.
3. SEWER VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS.
4. PRECAST CONCRETE PADS SHALL NOT BE USED.
5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
6. PLUG VALVES SHALL NOT BE USED AS A TAPPING VALVE. WHERE AN EXISTING FORCE MAIN IS TO BE TAPPED, USE A TAPPING GATE VALVE PER THE TAPPING SLEEVE AND VALVE DETAIL.
7. TEST BOX TO BE BINGHAM & TAYLOR P200NFG OR EQUAL FOR NORMAL YARD SERVICE, WHERE VALVE WILL BE IN STREET OR UNDER VEHICLE TRAFFIC, USE P525RD CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
REV. BY	DATE	DATE OF APPROVAL	
CLB/KE	02/05	MARCH 17, 2009	
JAA/JB	10/08		
JAA/JEA	02/09		

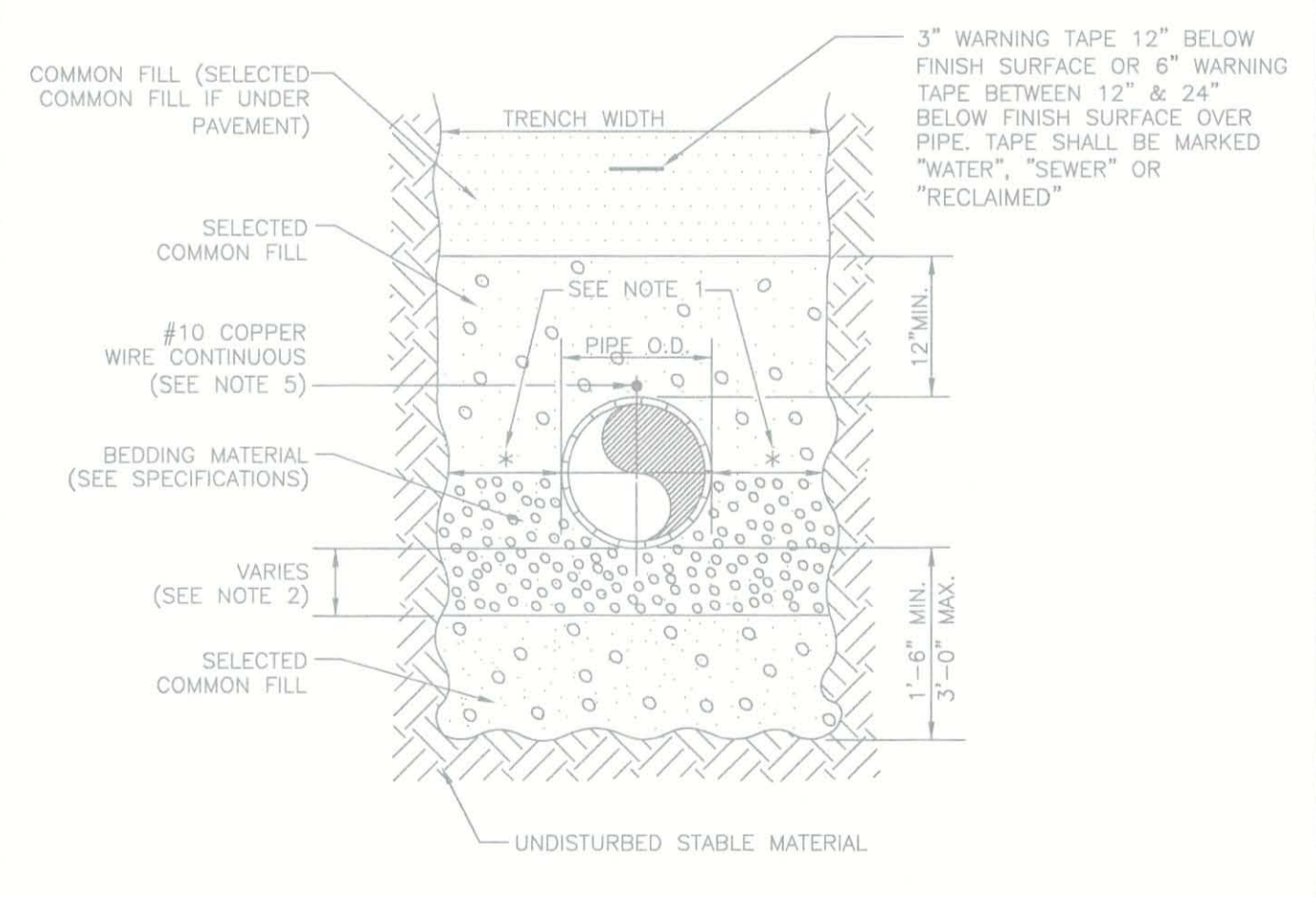
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-12
REV. BY	DATE	DATE OF APPROVAL	
CLB/KE	02/05	MARCH 17, 2009	
JAA/JB	10/08		
JAA/JEA	02/09		

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		ABOVE-GROUND AIR RELEASE VALVE ASSY. FOR FORCE MAINS	US-25
REV. BY	DATE	DATE OF APPROVAL	
JAA/JEA	02/09	MARCH 17, 2009	

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		PLUG VALVE, BOX, COVER AND TAG	US-12
REV. BY	DATE	DATE OF APPROVAL	
CLB/DOO	11/10	MAY 10, 2011	

NOTES:

- 1.) 10" MAX. FOR PIPE DIAMETER LESS THAN 24"; 12" MAX. FOR PIPE DIAMETER 24" AND LESS THAN 42"; 24" MAX. FOR PIPE DIAMETER 42" AND OVER.
- 2.) 4" MAX. FOR PIPE 16" DIAMETER & LESS; 6" MAX. FOR PIPE 18" TO 36" DIAMETER; AND 9" MAX FOR PIPE 42" DIAMETER AND LARGER.
- 3.) PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 4.) BACKFILL AASHTO M-145 SHALL BE PLACED IN LAYERS NOT TO EXCEED 6 INCHES. EACH LAYER SHALL BE THOROUGHLY TAMPED AND/OR ROLLED TO 98% AASHTO T-180 DENSITY.
- 5.) TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-3 PIPE BEDDING	UG-16
REV. BY	DATE	DATE OF APPROVAL	
CLB/KE	02/05	MARCH 17, 2009	
JAA/JB	10/08		
JAA/JEA	02/09		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

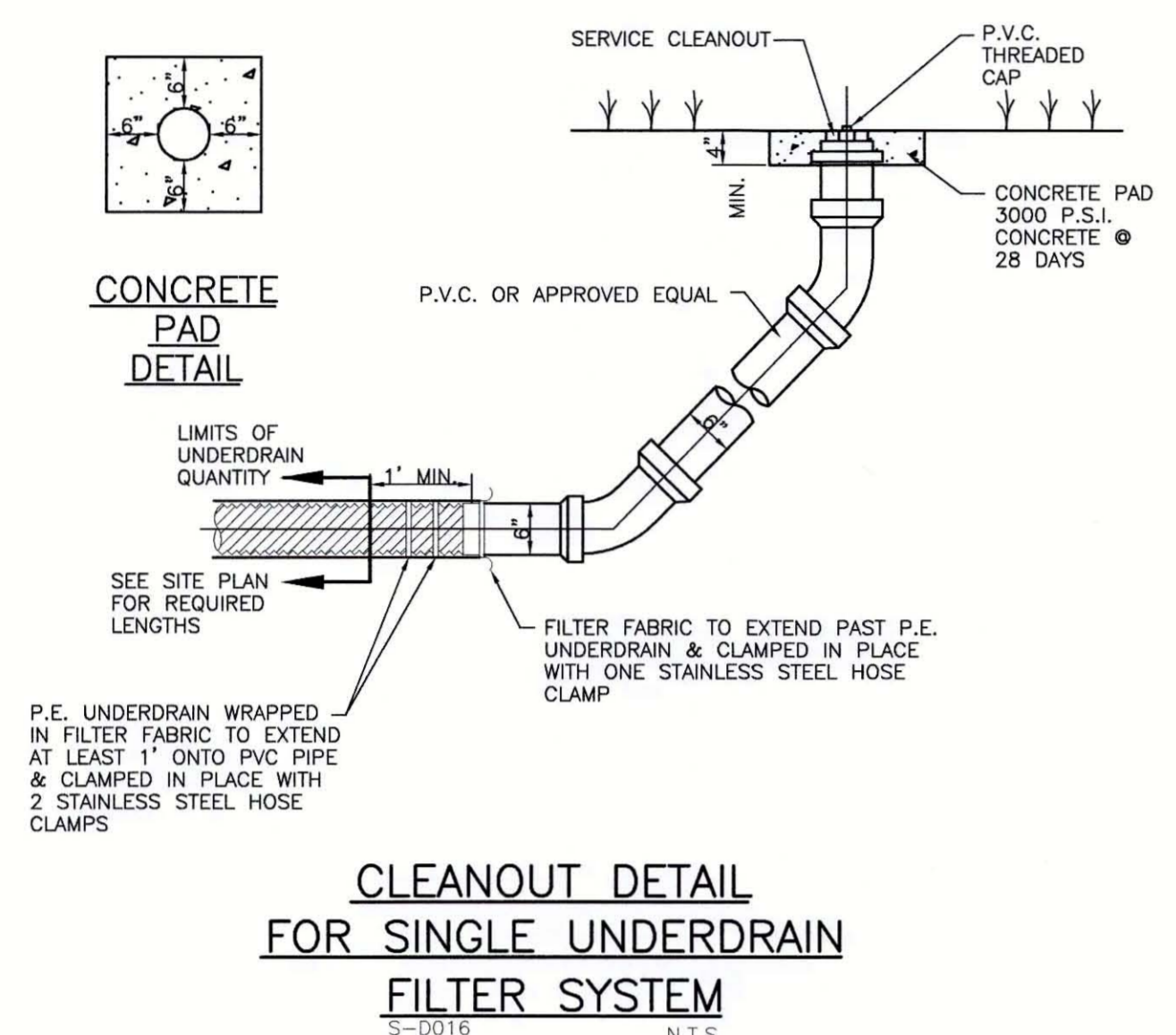


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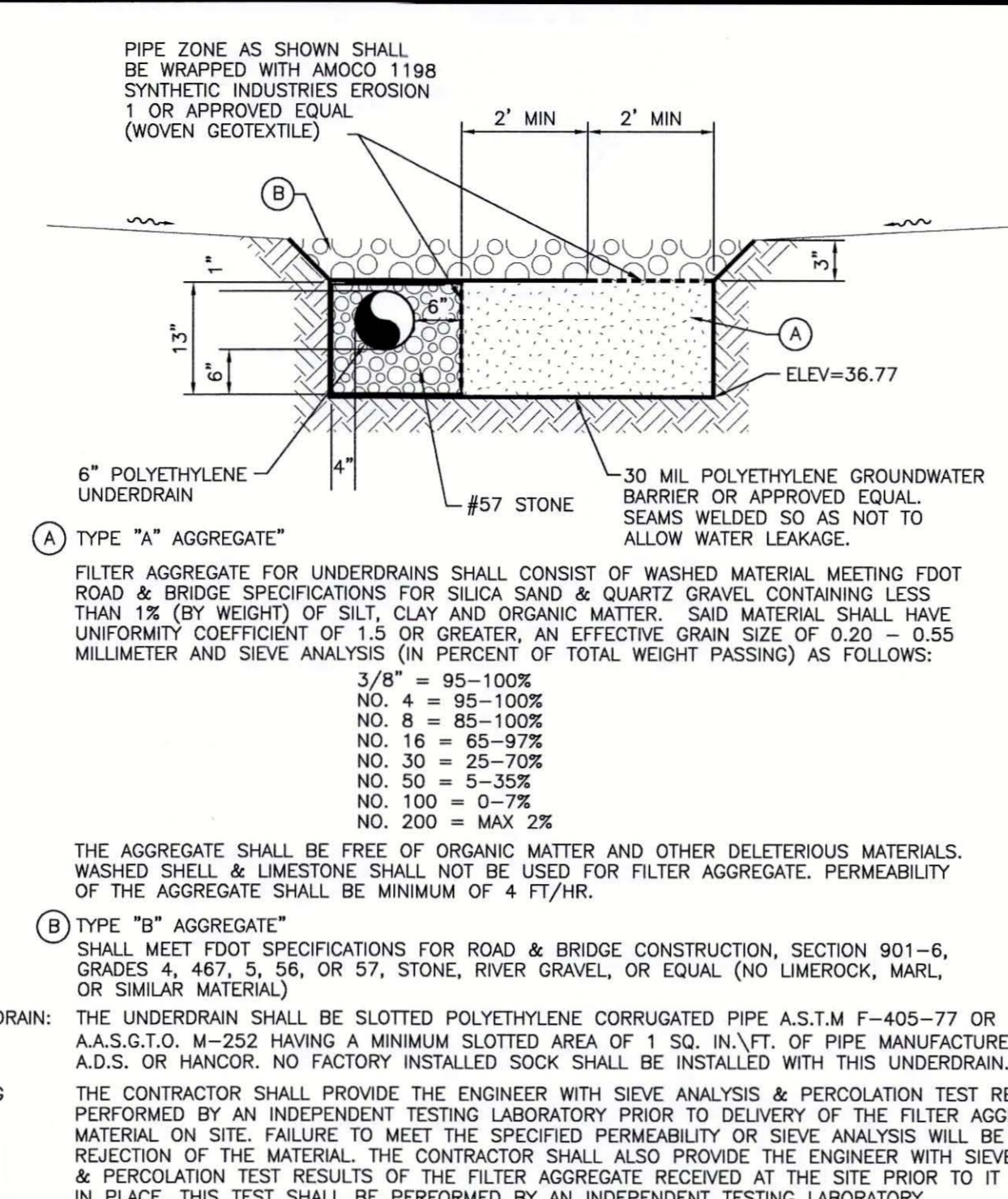
CLIENT:	MANATEE COUNTY PUBLIC WORKS
PROJECT:	VILLAGE OF PARRISH MASTER PUMP STATION

DATE:	AUGUST 2015	TITLE:	WATER & WASTEWATER DETAILS
HORIZONTAL SCALE:	N/A		
VERTICAL SCALE:	N/A		
REV. NO.	33	CROSS REFERENCE FILE NO.:	
DATE	08/29/15	PROJECT NUMBER:	177310561

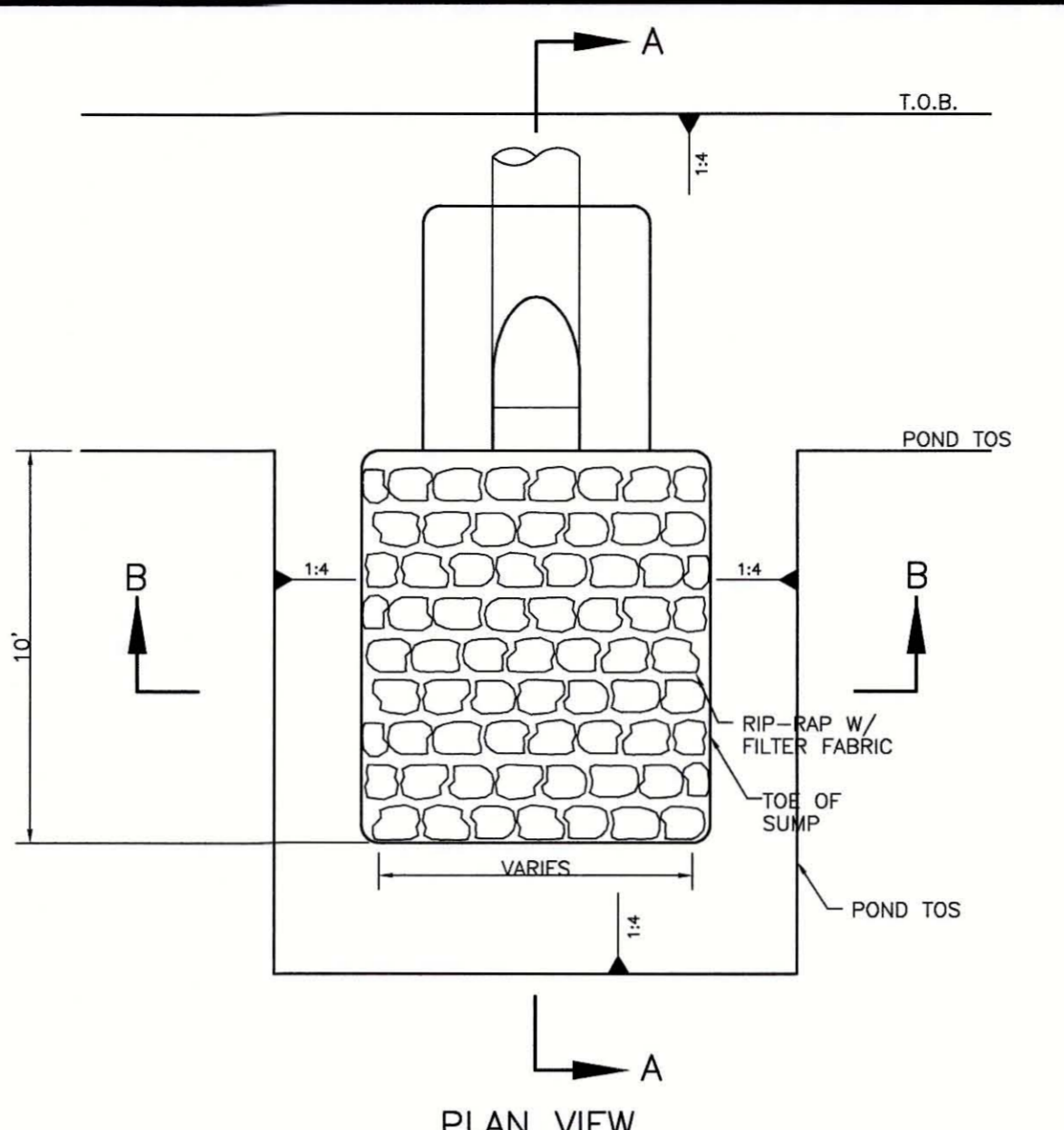




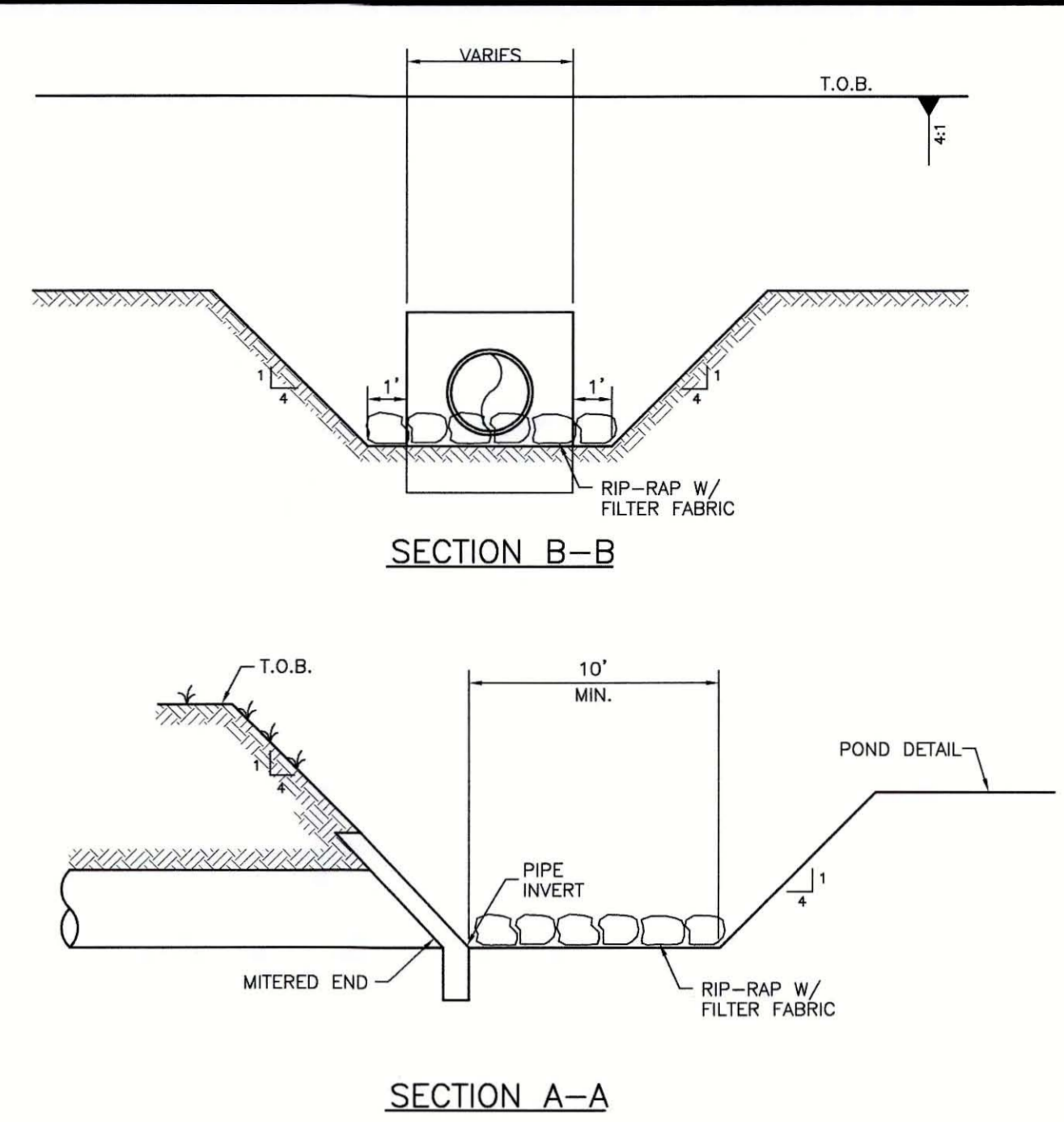
CLEANOUT DETAIL FOR SINGLE UNDERDRAIN FILTER SYSTEM
S-0016 N.T.S.



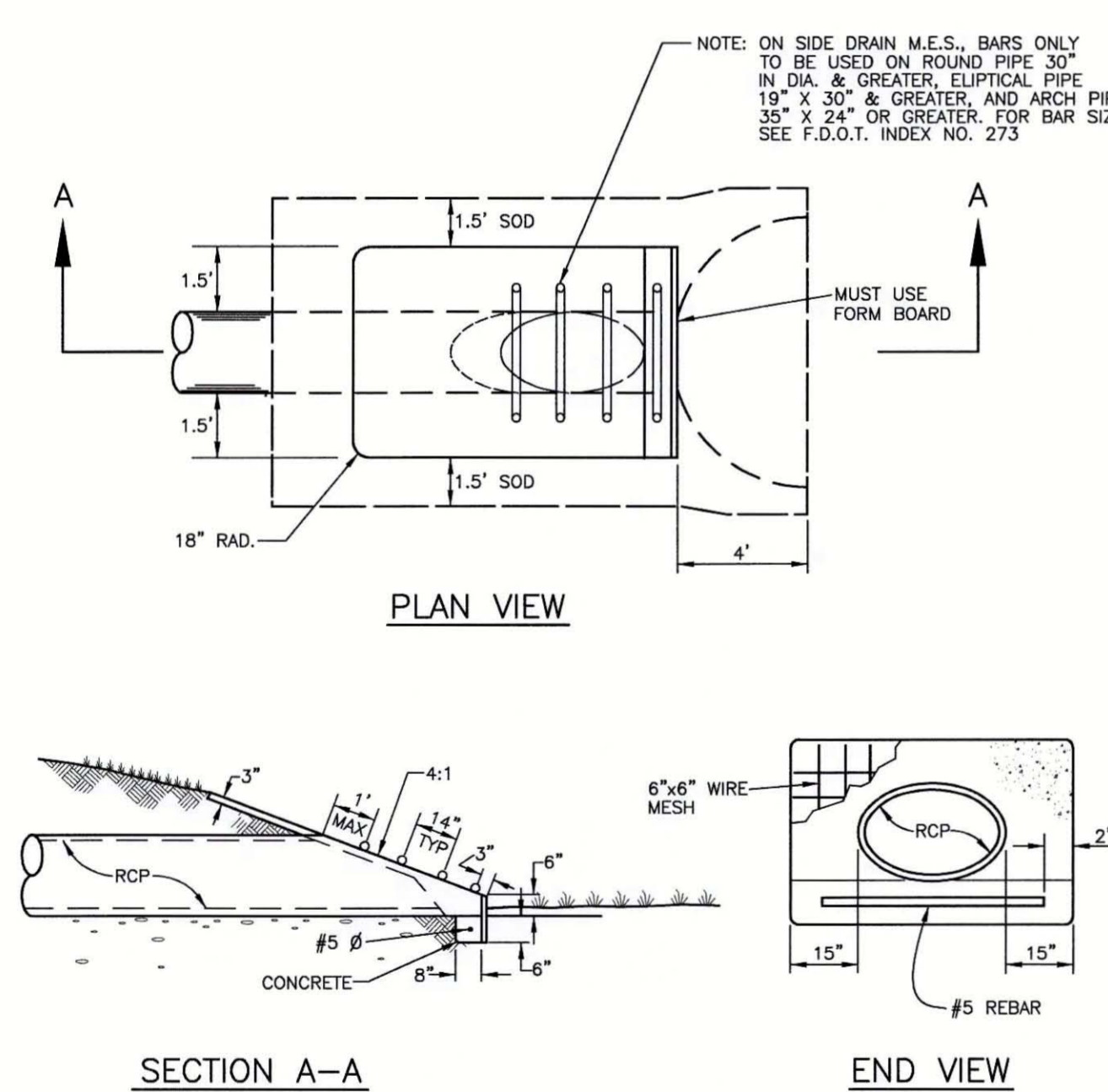
TYPICAL SHALLOW BOTTOM TREATMENT UNDERDRAIN
S-0064 (6/11/03)



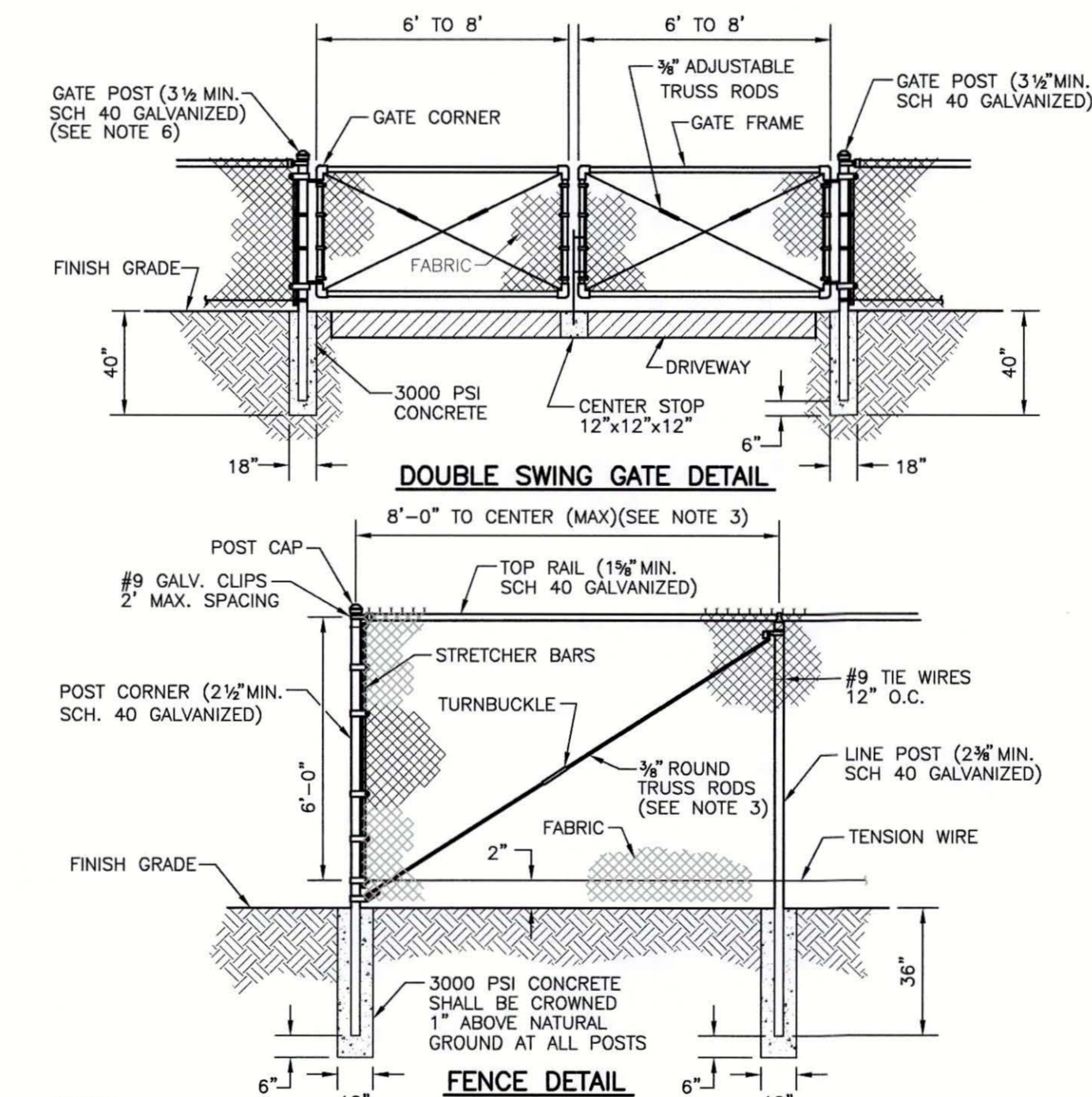
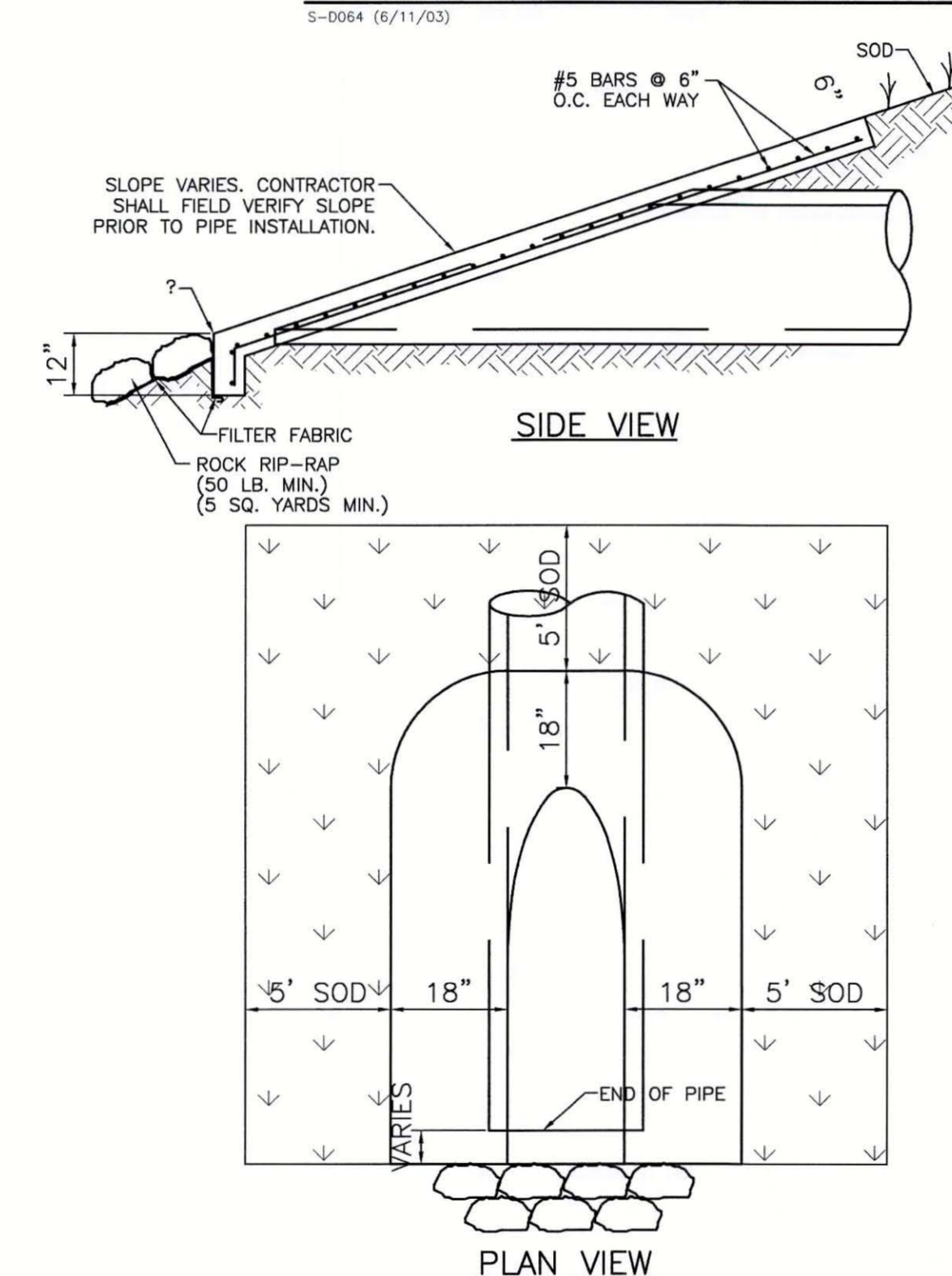
DRY RETENTION POND SUMP DETAIL FOR MITERED END SECTION
S-0044 N.T.S.



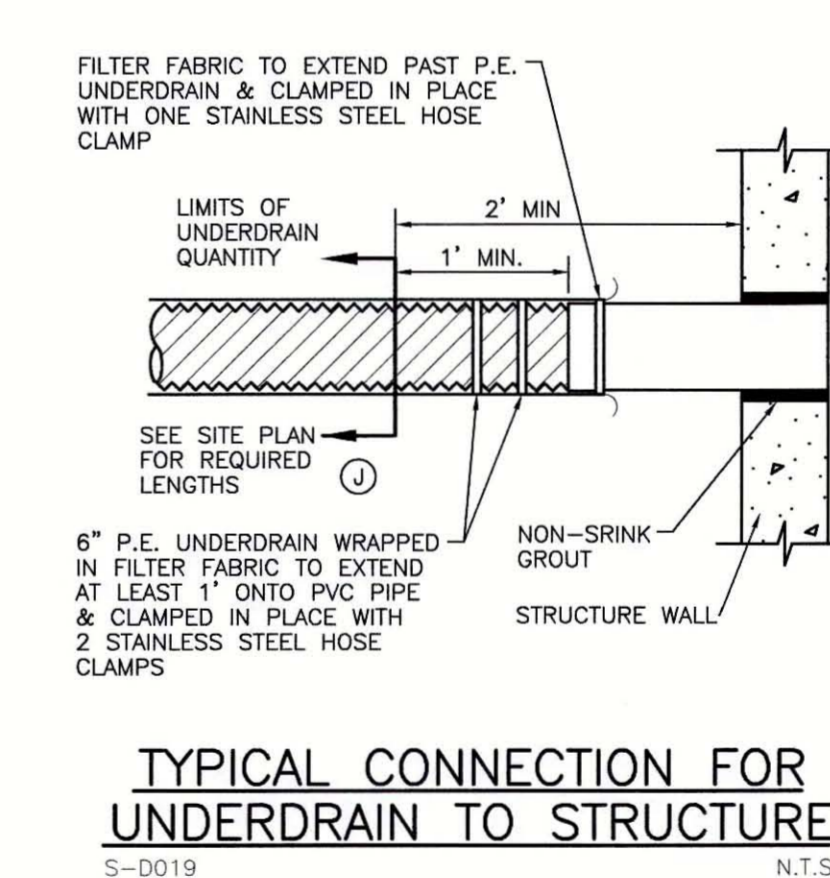
CONCRETE BOLLARD DETAIL
S-0022 N.T.S.



DRIVEWAY AND ROAD PIPE MITERED END SECTION
6/12/07 103.0 N.T.S.



- NOTES:**
- FENCING SHALL BE CONCRETE AGGREGATE, STUCCO, BRICK, STONE, SPLIT FACE CONCRETE MASONRY, OR CHAIN LINK.
 - CHAIN LINK FENCING SHALL BE #9 GAUGE, GALVANIZED STEEL WITH VINYL COATING.
 - TRUSS BARS ON CHAIN LINK FENCES ARE REQUIRED FOR THE FIRST SPAN ON EACH SIDE OF THE CORNER POST AND FOR EACH GATE SECTION.
 - LANDSCAPE SCREENING SHALL BE LOCATED ON THE EXTERIOR OF LIFT STATION FENCING.
 - SWING GATES SHALL BE CAPABLE OF SWINGING BOTH INWARDS AND OUTWARDS. CANTILEVER SLIDE GATES AND ROLL SLIDE GATES MEETING FDOT DESIGN STANDARDS MAY BE USED AS AN OPTION TO SWING GATES.
 - GATE POSTS AND TRACK LINE POSTS SHALL BE 4 INCH SCHEDULE 40 FOR CANTILEVER SLIDE GATES AND ROLL SLIDE GATES.



TYPICAL CONNECTION FOR UNDERDRAIN TO STRUCTURE
S-0019 N.T.S.

- NOTES:**
- CONCRETE SHALL BE 3000 P.S.I. @ 28 DAYS
 - CHAMFER ALL EXPOSED EDGES 3/4"
 - RIP-RAP SHALL BE SUPPLIED AND CONSTRUCTED AS DEFINED IN THE F.D.O.T. SPECIFICATIONS SEC. 530, "RIP-RAP", SPECIFICALLY SEC. 530-3.1 OR SEC. 530-3.3 "CONSTRUCTION METHODS" 5 SY. RIP-RAP AND FILTER CLOTH TO BE INCLUDED IN THE UNIT PRICE OF THE MITERED END SECTION. IF ADDITIONAL RIP-RAP (> 5 SY) IS REQUIRED AND DIRECTED, IT SHALL BE PAID FOR ON A PER YARD BASIS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - FILTER FABRIC SHALL BE SUPPLIED AND CONSTRUCTED AS DEFINED IN THE F.D.O.T. SPECIFICATIONS SEC. 514, "PLASTIC FILTER FABRIC", SPECIFICALLY SEC. 514-3.4 RIPRAP, INCLUDED IN UNIT COST OF MITERED END SECTION.

MITERED END SECTION
S-0022 N.T.S.

SECURITY FENCING
UG-18 3/17/09 N.T.S.

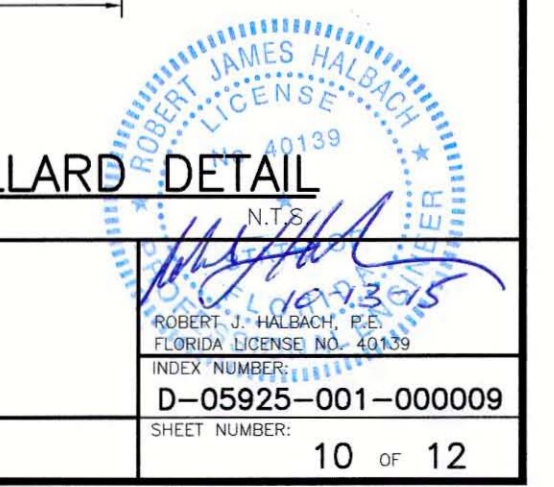
REV. NO.	REVISION	DATE	DRAWN BY / SMP. NO.	CHECKED BY / DWP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
A	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG			CHECKED BY:	RJH	JULY 2015
						DESIGNED BY:	RJH	JULY 2015
						DRAWN BY:	KG	JULY 2015
						CONTRACT ADMIN. BY:		

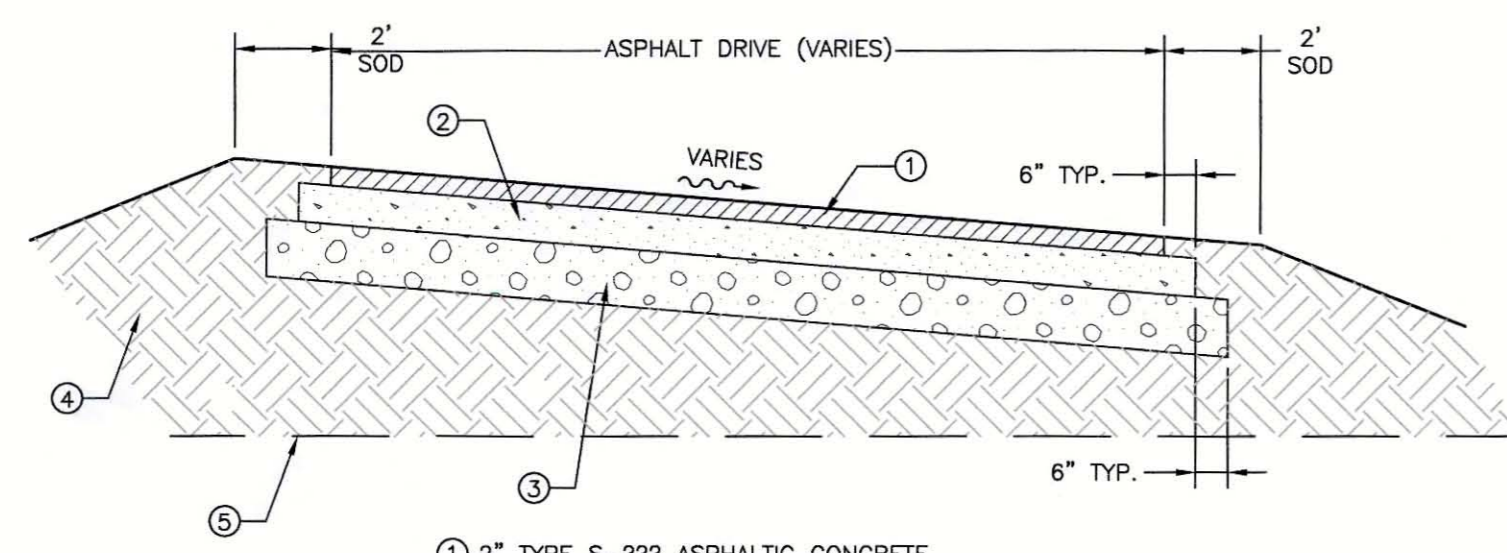


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CLIENT: MANATEE COUNTY PUBLIC WORKS
PROJECT: VILLAGE OF PARRISH MASTER PUMP STATION

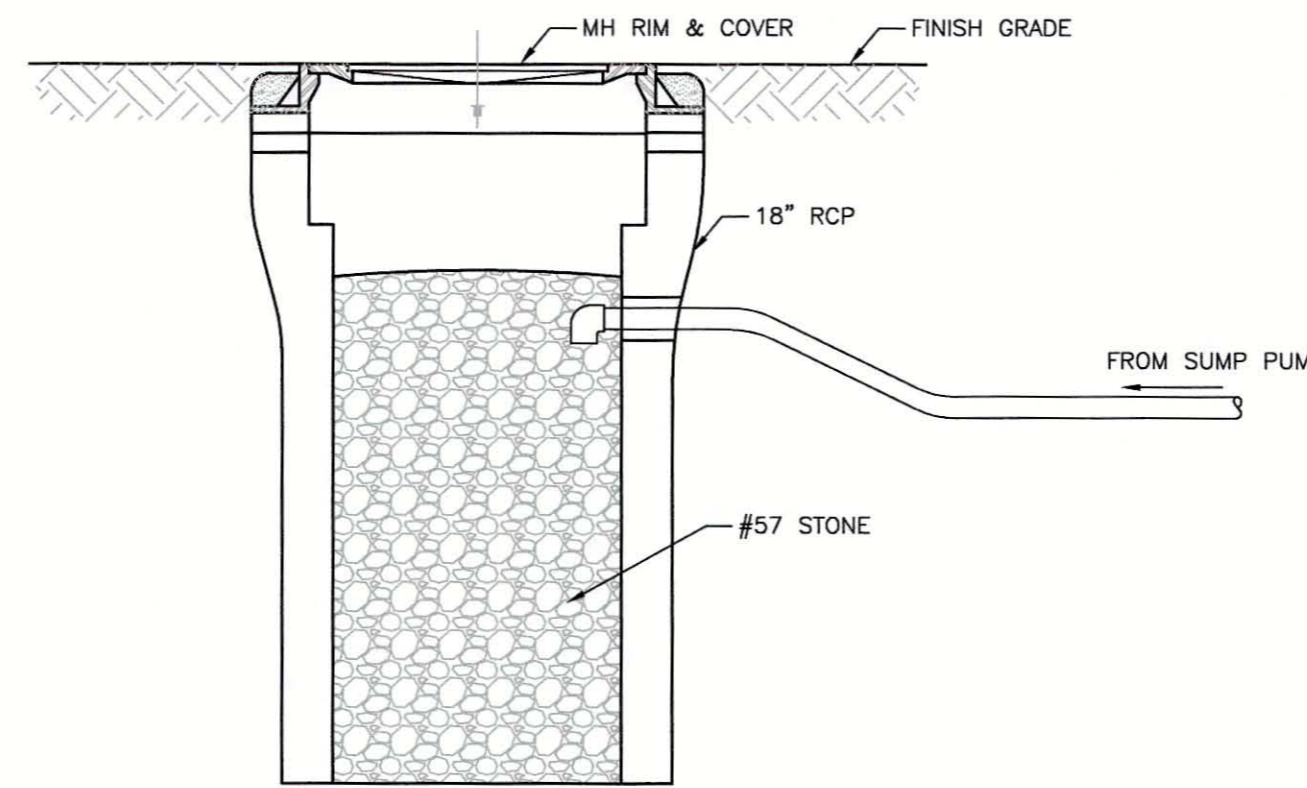
DATE: AUGUST 2015
TITLE: DRAINAGE AND MISCELLANEOUS DETAILS
PROJECT NUMBER: 177310561
SHEET NUMBER: 10 of 12



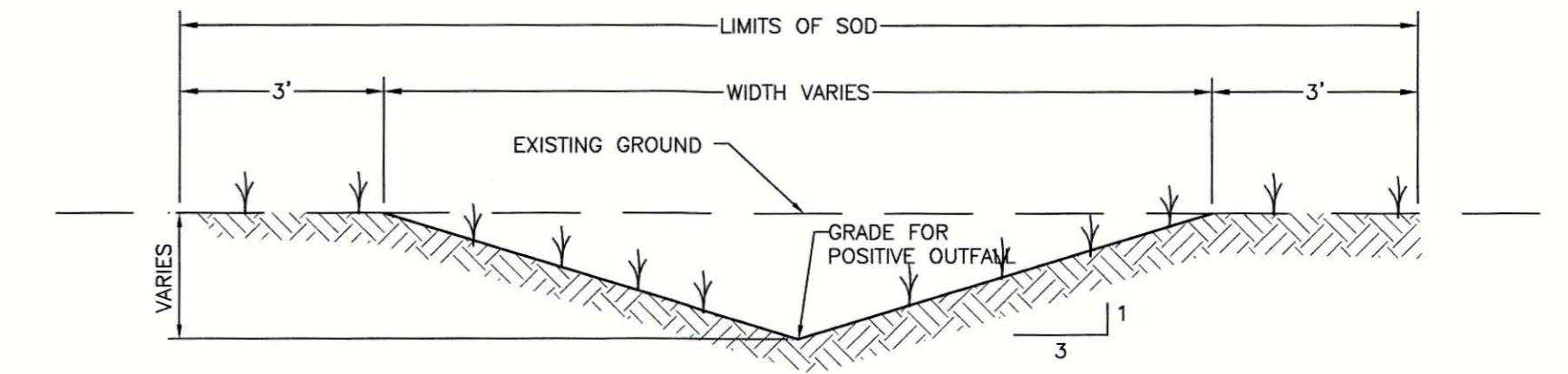


- ① 2" TYPE S-??? ASPHALTIC CONCRETE
- ② 8" SHELL BASE COMPACTED TO 98% MAX. DENSITY BY AASHTO METHOD T-180 (MODIFIED) PRIME COAT COMPACTED BASE
- ③ 8" STABILIZED SUB-BASE, MIN. LBR OF 40
- ④ FILL- INORGANIC, NON PLASTIC GRANULAR SOIL (CLEAN TO SLIGHTLY SILTY OR SLIGHTLY CLAYEY SAND) FREE OF DETRIMENTAL MATERIALS SUCH AS CLAY CLODS, DEBRIS, ROOTS, ROCKS LARGER THAN 3-INCHES IN GREATEST DIMENSION. PLACE FILL IN LEVEL LIFTS NOT TO EXCEED 12-INCHES LOOSE THICKNESS. COMPACT TO A MINIMUM OF 95% OF THE SOILS MODIFIED PROCTOR MAX. DRY DENSITY (ASTM D-1557).
- ⑤ EXISTING GROUND SHALL BE STRIPPED AND PROOFROLLED.

TYPICAL ASPHALT DRIVE SECTION
N.T.S.

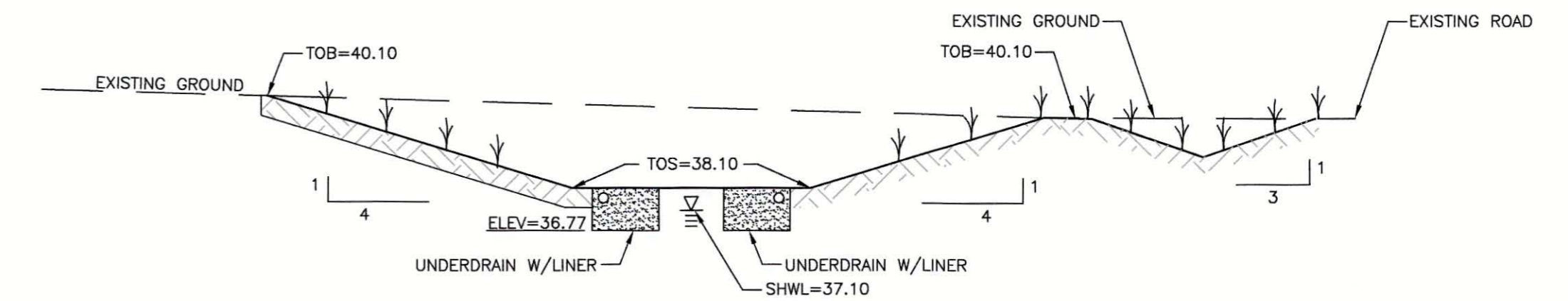


SUMP DISCHARGE
N.T.S.



- NOTES:
- SWALES SHALL BE SODDED AS SOON AS PRACTICAL TO MINIMIZE EROSION
 - CONTRACTOR TO WIDEN SWALE BOTTOMS AT GRATE INLETS TO MAINTAIN SIDE SLOPES AT 4:1.

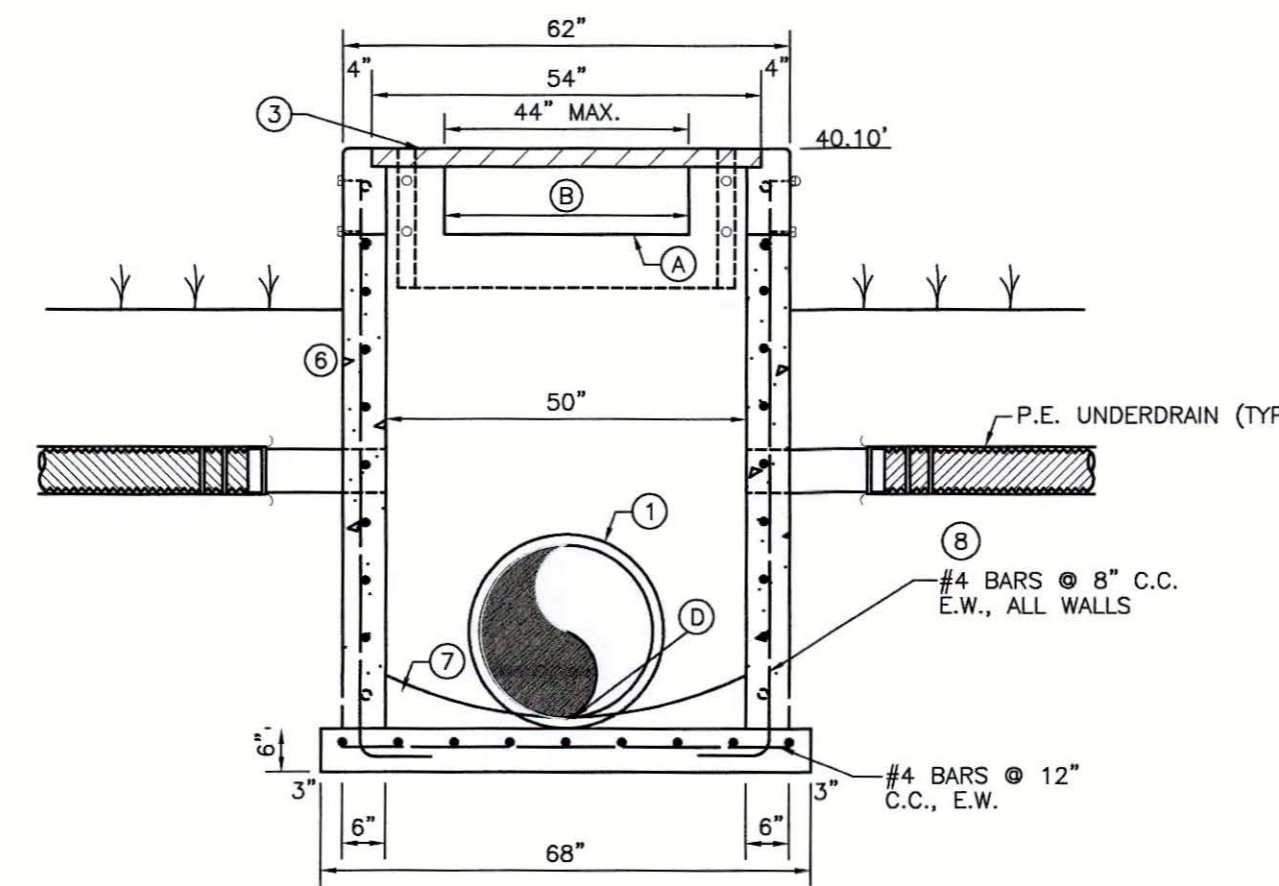
TYPICAL SWALE SECTION
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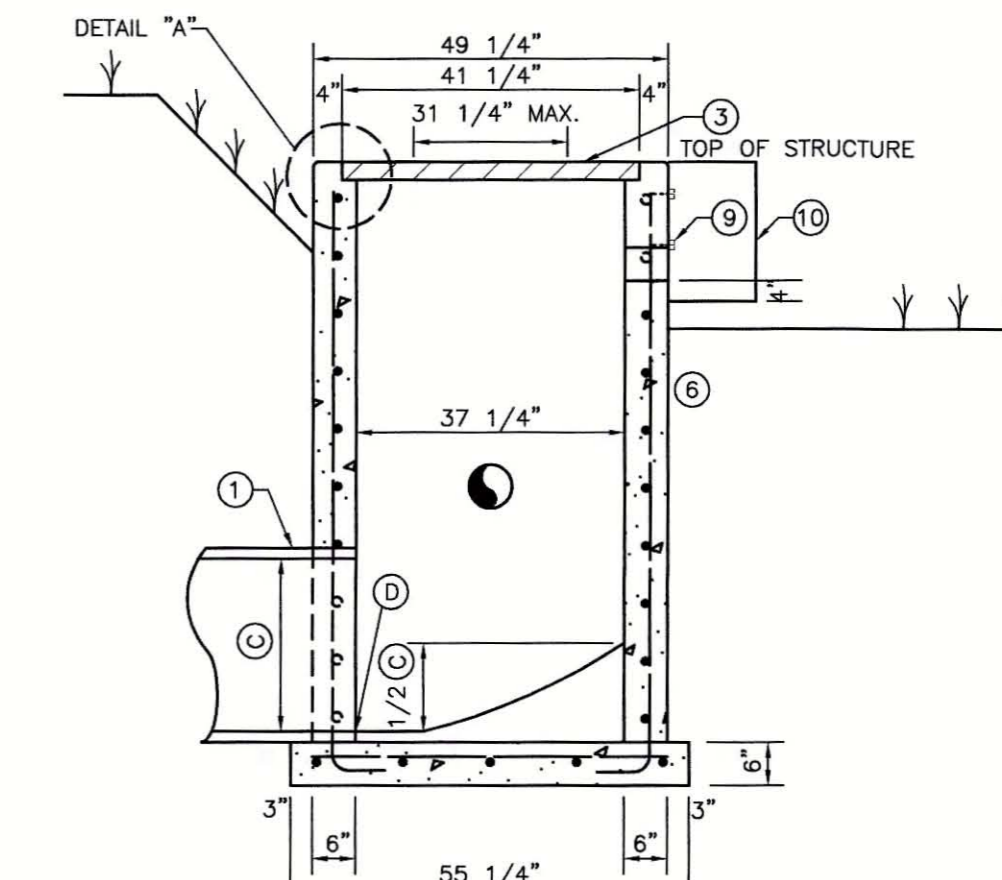
SECTION E-E
N.T.S.

BEST MANAGEMENT PLAN NOTES:

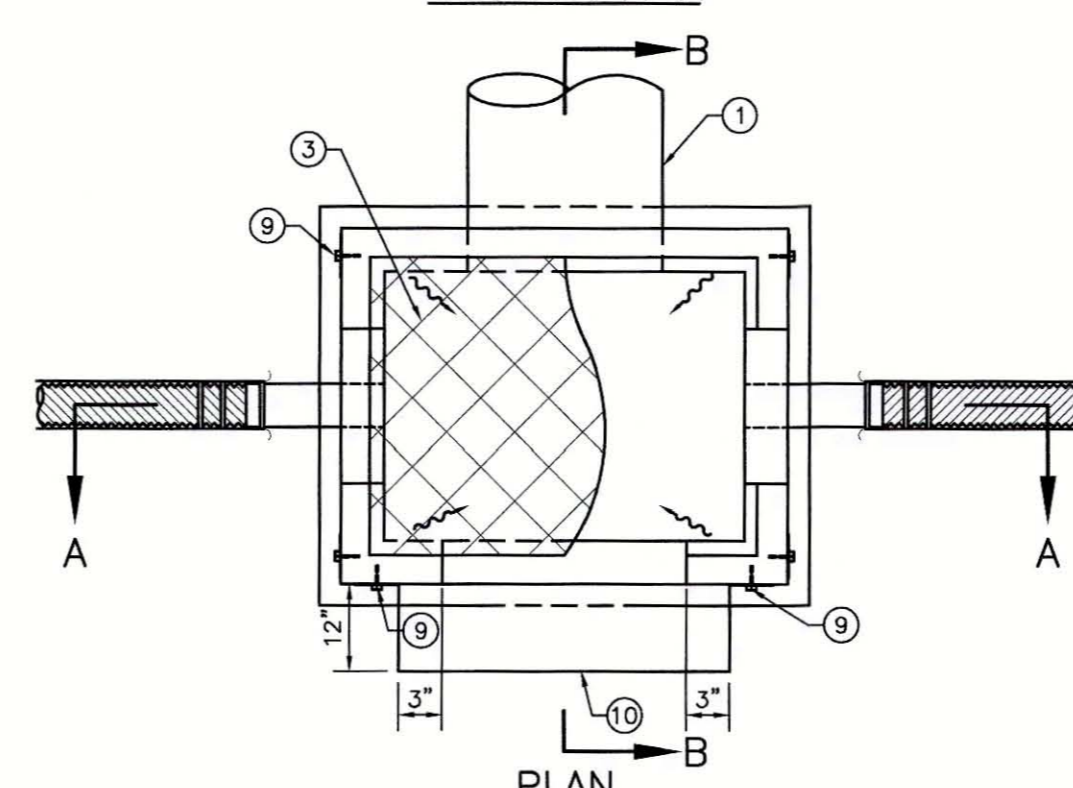
- A COPY OF THIS BEST MANAGEMENT PRACTICES PLAN AND THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE KEPT AT THE PROJECT SITE AT ALL TIMES.
- THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE REQUIREMENTS AND CONDITIONS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFMD) PERMIT(S) AND HAVE A COPY OF THE PERMIT(S) ON SITE. IF IT IS NECESSARY FOR GROUNDWATER DEWATERING TO DISCHARGE OFFSITE, THEN THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COSTS FOR OBTAINING AND/OR MODIFYING ALL APPLICABLE PERMITTING FOR THE DISCHARGE OF GROUNDWATER DEWATERING AND FOR COMPLYING WITH ALL SWFMD AND FDEP PERMITTING CONDITIONS.
- THE CONTRACTOR SHALL IMPLEMENT OTHER BEST MANAGEMENT PRACTICES AS DIRECTED BY THE ENGINEER OF RECORD OR OTHER REGULATORY AGENCIES.
- THE CONTRACTOR SHALL STAGE CONSTRUCTION IN PHASES WHENEVER POSSIBLE TO MINIMIZE SOIL LOSS AND CONTROL EROSION.
- THE CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. 5. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED AS REQUIRED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPULIN.
- THE CONTRACTOR SHALL DIRECT ONSITE RUNOFF TO THE STORMWATER MANAGEMENT SYSTEM DURING CONSTRUCTION.
- CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
- ALL INLET GRATES SHALL BE WRAPPED IN FILTER FABRIC AND ALL INLETS SHALL BE PROTECTED WITH SILT SCREENS OR HAY BALES IN ACCORDANCE WITH THE BMP PLAN. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE. INLET GRATES SHOULD REMAIN WRAPPED UNTIL PROJECT IS COMPLETE.
- FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED WHERE ATTAINABLE UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME AND WHERE A TEMPORARY SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROLS IS NOT ATTAINABLE, A COMBINATION OF SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS AND OTHER BMPs SHOULD BE USED. AT A MINIMUM, SILT FENCES, OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDESLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA.
- AREAS THAT ARE DESIGNATED FOR PERMANENT STORMWATER INFILTRATION TREATMENT SYSTEMS (E.G., STORMWATER RETENTION PONDS) SHOULD NOT BE USED FOR TEMPORARY SEDIMENT BASINS UNLESS APPROPRIATE MEASURES ARE TAKEN TO ASSURE REMOVAL OF ACCUMULATED FINE SEDIMENTS, WHICH MAY CAUSE PREMATURE CLOGGING AND LOSS OF INFILTRATION CAPACITY, AND TO AVOID EXCESSIVE COMPACTION OF SOILS BY CONSTRUCTION MACHINERY OR EQUIPMENT.
- DEWATERING WILL OCCUR, AS REQUIRED, FOR ALL EXCAVATION ACTIVITY INCLUDING, BUT NOT LIMITED TO, STORM SEWERS, SANITARY SEWERS, WATER LINES AND OTHER UTILITIES.
- ALL CONSTRUCTION DEWATERING SHALL BE CONTAINED ONSITE, AT SPECIFIED LOCATIONS, AND ALLOWED TO INFILTRATE THE SOIL, UNLESS FDEP PERMITTING IS OBTAINED FOR OFFSITE DISCHARGE. ALL DEWATERING GROUNDWATER DISCHARGE SHALL BE ROUTED THROUGH A TEMPORARY SEDIMENT SUMP PRIOR TO DISCHARGE TO WETLANDS, OTHER SURFACE WATER, OR OFFSITE. THE GENERAL PROCESS OF THE DEWATERING SYSTEM IF DEPICTED HEREIN SHALL BE ADHERED TO DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL APPLICABLE APPROVALS FOR ANY MODIFICATIONS HE PROPOSES.
- THE DEWATERING SYSTEM SHALL USE A PUMP AND PIPING THAT IS LESS THAN 6 INCHES IN DIAMETER AND OPERATE LESS THAN A TOTAL OF SIX MONTHS. ANY DEVIATION FROM THIS REQUIREMENT SHALL REQUIRE A WATER USE PERMIT. THE COST OF A WATER USE PERMIT AND ASSOCIATED MATERIALS SHALL BE BORNE BY THE CONTRACTOR.
- LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, POND SLOPES, AND A THREE FOOT (3') WIDE STRIP ADJACENT TO EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER AS SOON AS PRACTICAL TO PREVENT EROSION. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE STABILIZED WITH SOD OR WITH PERMANENT SEED AND MULCH IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. PERMANENT STABILIZATION SHALL OCCUR AS SOON AS PRACTICAL BUT IN NO CASE MORE THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.
- SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION, AND MAINTENANCE OF GRADES AND GRASS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL TEMPORARILY CEASE FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED AND MULCH SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- ALL SILTATION AND EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED AT A MINIMUM OF ONCE PER WEEK OR AFTER ANY 1/2" OR GREATER RAINFALL EVENT. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL MAINTENANCE AND INSPECTIONS, ON SITE, UNTIL CONSTRUCTION IS COMPLETE. COPIES SHALL BE FURNISHED TO THE ENGINEER OR OWNER, UPON REQUEST.
- THE SITE SUPERINTENDENT, WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, FILLING OUT THE INSPECTION AND MAINTENANCE REPORT AND IF NECESSARY, REVISING THE STORMWATER POLLUTION PREVENTION PLAN CONSISTENT WITH MODIFICATIONS MADE DUE TO UNFORESEEN CAUSES, AS DICTATED BY FIELD CONDITIONS.
- PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT FOR INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
- A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE 20. COMPLETED BY THE INSPECTOR IS INCLUDED IN THE STORMWATER POLLUTION PREVENTION PLAN.
- SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO INSURE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO INSURE THAT THE FENCE POSTS ARE INSTALLED FIRMLY IN THE GROUND.
- SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SILTATION CONTROL BARRIER OR CONTROL DEVICES SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS. ALL SILTATION BARRIERS SHALL THEN BE RESTORED TO THEIR ORIGINAL CONDITIONS.
- THE SEDIMENT BASIN SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.
- DIVERSION DIKE, IF REQUIRED, SHALL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
- TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
- THE LOCATION OF SILT FENCE AND OTHER BMP FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THESE FACILITIES ARE PLACED IN A LOCATION AND MANNER THAT DOES NOT CONFLICT WITH THE LIMITS OF CONSTRUCTION OR AREAS TO BE PROTECTED AS SET FORTH IN THESE PLANS.



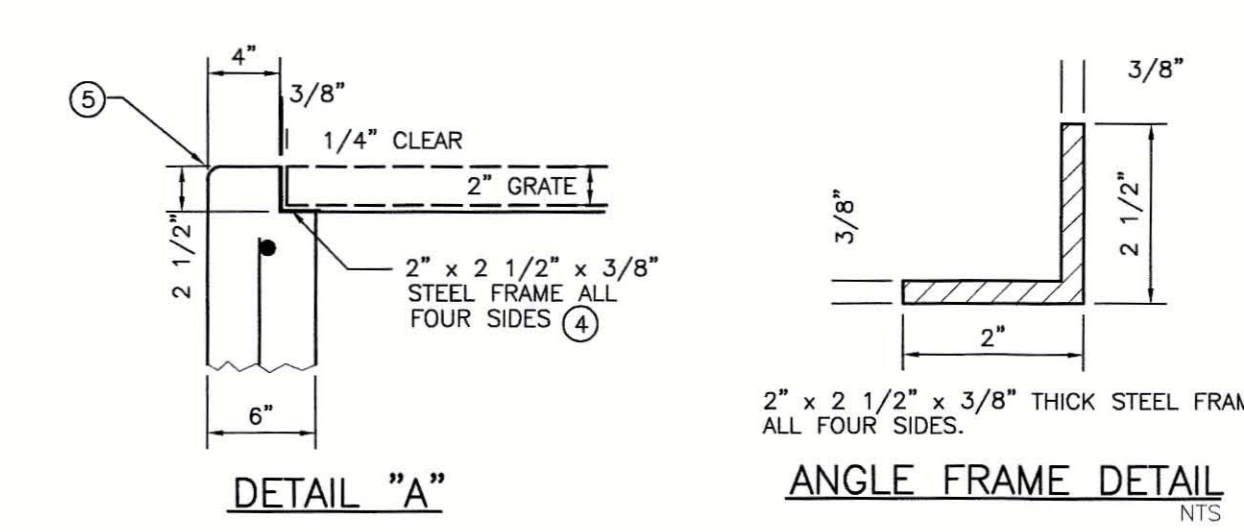
SECTION A-A



SECTION B-B



PLAN



DETAIL "A"

ANGLE FRAME DETAIL

- NOTES:
- SEE STORM PIPING PLAN DRAWINGS FOR PIPE SIZE, ALIGNMENT, FLOWLINE AND GRATE ELEVATIONS
 - BENCH MARK REQUIRED TO BE SET ON STRUCTURE AFTER CONSTRUCTION IS COMPLETE. ELEVATION TO BE NOTED IN RECORD DRAWINGS.
 - U.S.F. GRATE NO. 6615 (STEEL 40" x 52 11/16" x 2")
 - FRAME & GRATE SHALL BE OF STEEL CONSTRUCTION COATED WITH 2 APPLICATIONS OF BLACK ENAMEL 4.0 MILS DRY FILM THICKNESS EACH COAT, 8 MILS TOTAL COATING SHALL MEET OR EXCEED FDOT SPECIFICATION 971-B. CONTRACTOR SHALL APPLY ONE FIELD COAT TO ANY BARE AREAS AS DETERMINED BY ENGINEER.
 - 3/4" CHAMFER ALL EXPOSED EDGES.
 - 3000 PSI CONCRETE @ 28 DAYS SHALL BE USED THROUGHOUT.
 - POURED CONCRETE INVERT AFTER INLET AND PIPE PLACED IN GROUND, 3000 PSI @ 28 DAYS.
 - REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET WITH DEFORMATIONS CONFORMING TO ASTM A-615-76A. ALL STEEL SHALL BE 1/2" CLEAR UNLESS OTHERWISE NOTED.
 - 3/8" DIAMETER STAINLESS STEEL EXPANSION ANCHORS, 3" LONG MINIMUM WITH STAINLESS STEEL WASHERS AND NUTS. IF HEIGHT OF SKIMMER IS 12" OR LESS, 2 EACH SIDE REQUIRED. IF SKIMMER IS OVER 12" HEIGHT, SPACE BOLTS ONE FOR EACH 6" C.C. MAXIMUM SPACING EACH SIDE OF SKIMMER.
 - 3/16" THICK STAINLESS STEEL 1/4" THICK ALUMINUM OR 3/16" GLASSKIMER HSS-HIGH STRENGTH COMPOSITE SHEET SKIMMER PLATE WITH OPEN TOP AND BOTTOM. SKIMMER TO EXTEND 4" BELOW NOTCH ELEVATION.
 - STAKEOUT POINT TO BE CENTER OF STRUCTURE. FIELD LOCATION TO FIT LAKE BANK OR FILL SLOPE MAY BE NECESSARY. LOCATION TO BE REVIEWED BY ENGINEER OR HIS REPRESENTATIVE.
 - PROVIDE MINIMUM 6" CLEARANCE UNDER SKIMMER.

DATA TABLE

STRUCTURE NUMBER	NORMAL WATER LEVEL	TOP GRATE EL.	FL. EL. WINDOW	WIDTH OF WINDOW	DIAMETER OF OUTFALL PIPE	PIPE FL. EL.	SPECIAL REMARKS
CS-1	N/A	40.10	39.10	1.0'	18 INCH	35.10	WITH SKIMMER

TYPE "G" CONTROL STRUCTURE
S-D020(02/07/09) N.T.S.

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
A	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG					



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CLIENT: MANATEE COUNTY PUBLIC WORKS
PROJECT: VILLAGE OF PARRISH MASTER PUMP STATION

DATE: AUGUST 2015
HORIZONTAL SCALE: N/A
VERTICAL SCALE: N/A
SHEET: 29 OF 33
RISE: 19
CROSS REFERENCE FILE NO.:
PROJECT NUMBER: 177310561

DRAINAGE AND MISCELLANEOUS DETAILS

