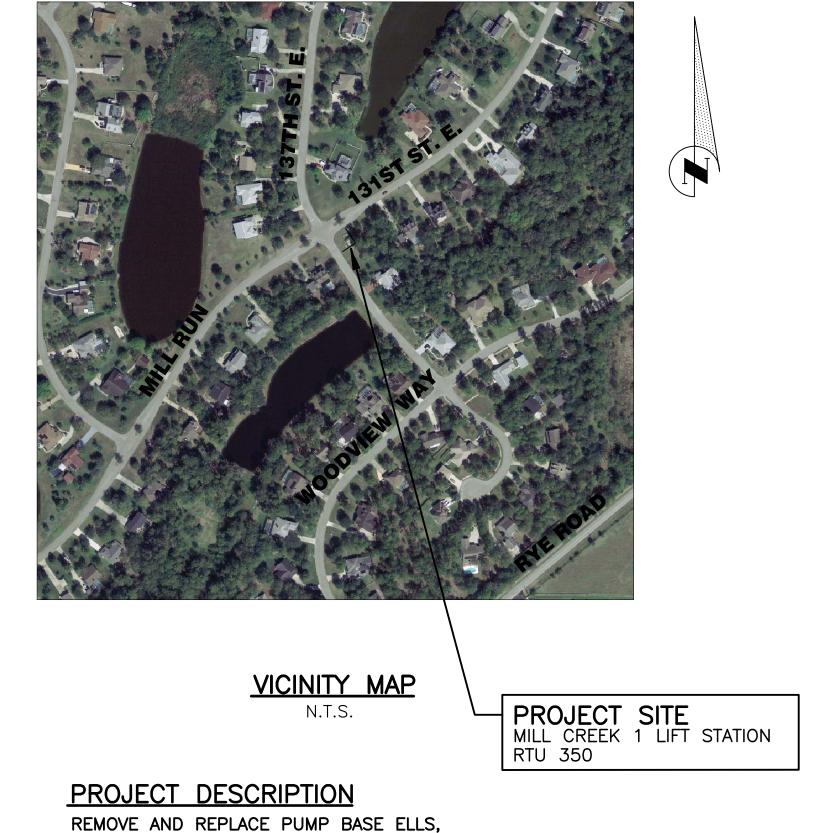
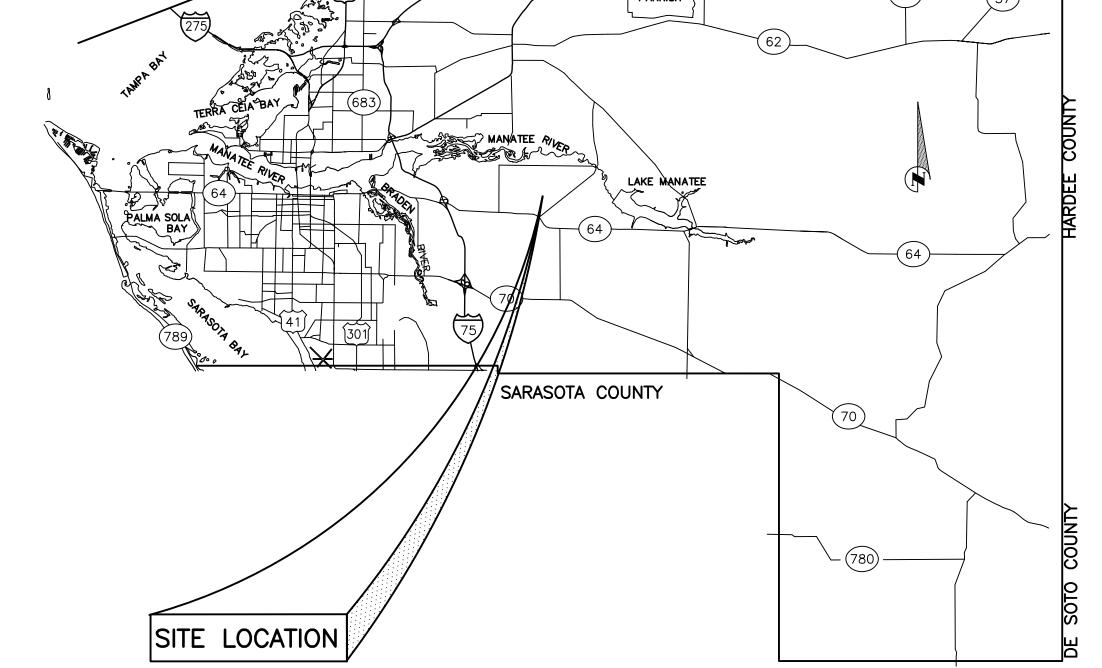


MANATEE COUNTY, FLORIDA LIFT STATION UPGRADES MILL CREEK 1 LIFT STATION REHAB 404-6050980/5310001

NOVEMBER 2008





HILLSBOROUGH COUNTY

NO. | INDEX OF SHEETS

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PIPING, VALVES, FITTINGS, FLOW METER,

REPAIR EXISTING LINER IN WET WELL AND

INSTALL EMERGENCY GENERATOR ON SITE PER MANATEE COUNTY STANDARDS, LATEST EDITION

NOTE:
THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OR RIGHTS—OF—WAY SURVEY. THE LOCATION OF THE STREET RIGHTS—OF—WAY LINES SHOWN IS APPROXIMATE AND IS BASED ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS, RIGHTS—OF—WAY MAPS ON RECORD IN MANATEE COUNTY AND ON TOPOGRAPHIC DATA COLLECTED ON THE ROUTE SURVEY OF THE RIGHTS—OF—WAY BY MANATEE COUNTY SURVEY PERSONNEL. CONSEQUENTLY THE RIGHTS—OF—WAY LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT PROPERTY CORNERS.

WAYNE R. TROXLER/62204
Engineer / Reg. No.

Date

PUBLIC	WORKS	DEPTE	NGINEERING	DIVI	SION
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4422-B 6	66th Str	eet West	, Bradenton,	FL	342

DIVISION	NO.	REVISION DESCRIPTION	BY	DATE	
FL 34210					

SARASOTA COUNTY

LIFT STATION UPGRADES
MILL CREEK 1 LIFT STATION REHAB

COVER SHEET

GENERAL

(941) 755-1853; EXT. 5277.

ADDITIONAL COST TO THE OWNER.

ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: JEFF MERTENS AND CAN BE REACHED AT (941) 708-7450; EXT. 7335.
- SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH JIM MARBLE, THE LIFT STATION SUPERINTENDENT AT
- 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. 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

- 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
- 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
- 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.
- NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.

- 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.
- 10. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- 1. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES,
- 12. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- 13. WHEN A BENTONITE SPILL OR FRACK-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.
- 14. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED.
- 15. DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
- 16. ALL EROSION AND SILTATION CONTROL METHODS SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION.
- 17. 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.
- 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.
- 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.
- 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.
- 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.
- 22. 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.
- 23. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 24. 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.
- 25. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

- 26. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 27. 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.
- 8. 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.
- . 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.

- AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
- 31. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE 63. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD. CONDITION AT THE END OF THE WORK DAY.
- 32. 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.

- 33. 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 EFFECT 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.
- 34. 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
- 35. 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.
- 36. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION 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.
- 37. 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 DETAIL BY-PASS PUMPING PLAN TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL. THE BY-PASS PUMPING PLAN SHALL DESCRIBE THE METHOD, EQUIPMENT AND TIME SEQUENCE FOR THE BY-PASS PUMPING, AND THE EMERGENCY PROCEDURES TO BE IMPLEMENTED BY THE CONTRACTOR IN CASE OF ANY SEWAGE SPILLS OR FLOW STOPPAGES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY BY-PASS PUMPING UNTIL THE PLAN IS APPROVED BY THE PROJECT MANAGER. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE BID PRICE OF THE RELEVANT BID ITEM.

- 38. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 39. 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.
- 40. 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.
- 41. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED UTILIZING THE SAME MATERIAL AS EXISTING BASE WITH MINIMUM SIX INCH THICKNESS, COMPACTED AND PRIMED. ASPHALT WEARING SURFACE TO MATCH EXISTING THICKNESS WITH MINIMUM ONE INCH THICKNESS.
- 42. CONCRETE DRIVEWAYS THAT ARE CUT SHALL BE RESTORED WITH SIX INCHES OF 3,000 PSI CONCRETE WITH W2.5 X W2.5, 6X6 WIRE MESH. PLACE 1/2 INCH EXPANSION JOINT BETWEEN BACK OF CURB AND NEW CONCRETE. EXISTING CRACKS IN DRIVEWAYS ARE TO BE DOCUMENTED AS PRE-EXISTING. AREA BENEATH PATCH SHALL BE MECHANICALLY TAMPED PRIOR TO PLACING CONCRETE.
- 43. CONCRETE SIDEWALKS ACROSS DRIVEWAYS THAT ARE CUT SHALL ALSO BE RESTORED WITH SIX INCHES OF 3,000 PSI CONCRETE. CONCRETE SIDEWALKS OUTSIDE OF DRIVEWAY AREAS THAT ARE CUT SHALL BE RESTORED 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.
- 44. 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.
- 45. 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.

CONSTRUCTION

- 46. 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, AT THE DIRECTION OF THE ENGINEER DUE TO RESIDENTIAL COMPLAINTS, INSTALL NOISE ABATEMENT BAFFELS POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
- 47. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.
- 48. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- 49. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- 50. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
- 51. ALL PIPE SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES. PIPES SHALL HAVE A MINIMUM THREE FEET OF COVER TO FINISH GRADE AT ALL LOCATIONS UNLESS SHOWN OTHERWISE.
- 52. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW
- 53. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT
- 54. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- 55. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
- 56. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
- 57. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON.
- 58. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM ALLOWABLE DEFLECTION.
- 59. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR
- 60. 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.
- 61. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.

- 30. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, 62. DISRUPTIONS TO EXISTING WATER AND SEWER SERVICE SHALL BE KEPT TO A MINIMUM. ALL WATER AND SEWER SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.

 - 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 MAIN 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, WBRD 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 FLUSHED, PRESSURE TESTED, DISINFECTED AND CERTIFIED PRIOR TO TIE-INS TO EXISTING FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR 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
 - 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 TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED. THE CROSSING SHALL BE ARRANGED SO THAT THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN FEET BETWEEN ANY TWO JOINTS. AS AN ALTERNATE, THE WATER MAIN OR SEWER LINE MAY BE PLACED IN A SLEEVE OR THE SEWER SHALL BE ENCASED IN CONCRETE TO OBTAIN THE EQUIVALENT OF THE 10' SEPARATION. WATER MAINS SHALL BE INSTALLED TEN FEET HORIZONTALLY AWAY (PIPE EDGE TO PIPE EDGE) FROM SANITARY SEWERS AND FORCE MAINS AND THREE FEET HORIZONTALLY AWAY (PIPE EDGE TO PIPE EDGE) FROM RECLAIMED WATER LINES. A MINIMUM HORIZONTAL SEPARATION OF THREE FEET (OUTSIDE TO OUTSIDE) OF PIPE SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND SANITARY SEWER LINES, IN PARALLEL INSTALLATIONS.
 - 70. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.

CONTACTS

MANATEE COUNTY VERIZON FLORIDA INC. PUBLIC WORKS DEPT. STEVE RICKERT 1701 RINGLING BLVD. WAYNE R. TROXLER, P.E. 4422-B 66th STREET WEST SARASOTA, FL. 34236 BRADENTON, FL. 34210 (941) 906-6707 (941) 792-8811 EXT. 5249 FAX: (941) 906-6706 FAX: (941) 795-3467

BRIGHT HOUSE NETWORKS TECO/PEOPLES GAS CO. DAN BARBER DAN SHANAHAN 5413 E. STATE ROAD 64 8261 VICO COURT BRADENTON, FL. 34208-5535 SARASOTA, FL. 34240 (941) 748-3816 EXT. 21345 (941) 342-4030 FAX: (941) 342-4011

FAX: (941) 723-4444

EMERGENCY: 1-800-4-OUTAGE

FLORIDA POWER & LIGHT GREG COKER SUNSHINE STATE ONE CALL OF 1253 12TH AVENUE EAST PALMETTO, FL 34221 1-(800) 432-4770 (941) 723-4430

Water Meter

DATE

BY

EMERGENCY: 1-877-832-6911

HARRY MESSICK 410 6th AVENUE EAST BRADENTON, FL. 34208 (941) 748-0747 EXT. 1355 FAX: (941) 750-9364

DARYL R. FLATT, P.E. SARASOTA, FL. 34240 (941) 377-3722 FAX: (941) 373-7660

MANATEE COUNTY HEALTH DEPT. FLORIDA GAS TRANSMISSION SAFETY HARBOR OPERATIONS CHRIS LEE 7804 ANDERSON RD. TAMPA, FL. 33634 (813) 466-3327

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SARASOTA SERVICE OFFICE 6750 FRUITVILLE ROAD

DEPARTMENT OF ENVIRONMENTAL PROTECTION STEPHANIE BARIOS 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 PHONE: (813) 632-7600, EXT. 408 FAX: (813) 632-7662

LEGEND

PROPOSED EXISTING

BM 🗭	Bench mark	WV _▶	Water Valve	_	Reclaimed Water Main
FP_o-	BFP	<u> </u>	Oak Tree		Service Line — Reclaimed Water
Mo	Blow-off Valve		Palm Tree		Right—of—Way
$\sim\sim$	Bush	*	Pine Tree		Easement
CM _	Concrete Monument	^	Barbed Wire Fence		Casing Pipe
1234	DP No. (1 line)		Chain Link Fence		Fire Hydrant Assembly
1338	DP No. (2 lines)		Wood Fence	H	Gate, Plug, or Butterfly Valve
\sim	Edge of Vegetation	—— Fм ——	Force Main		Sanitary Sewer Manhole
185	Elevation	PW	Potable Water	▶ ◀ 	Blow-off Assembly
© Cl	Gas Line Warning Post		Reclaimed Water	>	Reducer
GI 🔳	Grate Inlet	ss	Sanitary Sewer	ŀ	Tee
~\^/ -	Guard Rail	sp	Storm Drain		Bend (Horizontal)
GW ←	Guy Wire		Gas Line	<u>~</u>	
-H Q	Hub Fire Hydrant	———GAS ———	Overhead Utility	\rightarrow	Bend (Vertical)
IP₀	Iron Pipe	—— он ——	•	J	Plug
IR •	Iron Rod	——— UG ———	Underground utility	0 0	Master Meter Assembly (Above Groun
LP 🌣			Edge of Concrete		Water Service Line & Meter
_	Light Pole	EP	Edge of Road		Double Service
	Lot Number		Ditch—Top of Bank or Toe of Slope		Bore/Receiving Pit
MB ☐ &D⊚	Mail Box		Property Line / Lot Line		Bore/ Necelving Fit
© VPP⇔	Nail & Disk		Right of Way Line		
	Power Pole		Casing		
SN d rrk _ø	Street Sign		Drainage Structure		
	Sprinkler		-		
MH _S	Sanitary Sewer Manhole		Headwall		
CO 0	Sanitary Sewer Clean—out		Mitered End Section		

LIFT STATION UPGRADES **MILL CREEK 1 LIFT STATION REHAB**

GENERAL NOTES & LEGEND

Sheet

28,345,19 SEC, TWP, RGE THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OF SURVEY BOOK NO. RIGHTS-OF-WAY SURVEY. THE LOCATION OF THE STREET RIGHTS-OF-WAY LINES SHOWN IS APPROXIMATE AND IS BASED PROJECT NUMBER 404-6050980 ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS, Checked Date RIGHTS-OF-WAY MAPS ON RECORD IN MANATEE COUNTY AND ON TOPOGRAPHIC DATA COLLECTED ON THE ROUTE Surveyed SURVEY OF THE RIGHTS-OF-WAY BY MANATEE COUNTY SURVEY PERSONNEL. CONSEQUENTLY THE RIGHTS-OF-WAY JEL Drawn LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT PROPERTY CORNERS. WRT Designed

WAYNE R. TROXLER/6220 Engineer / Reg. No.

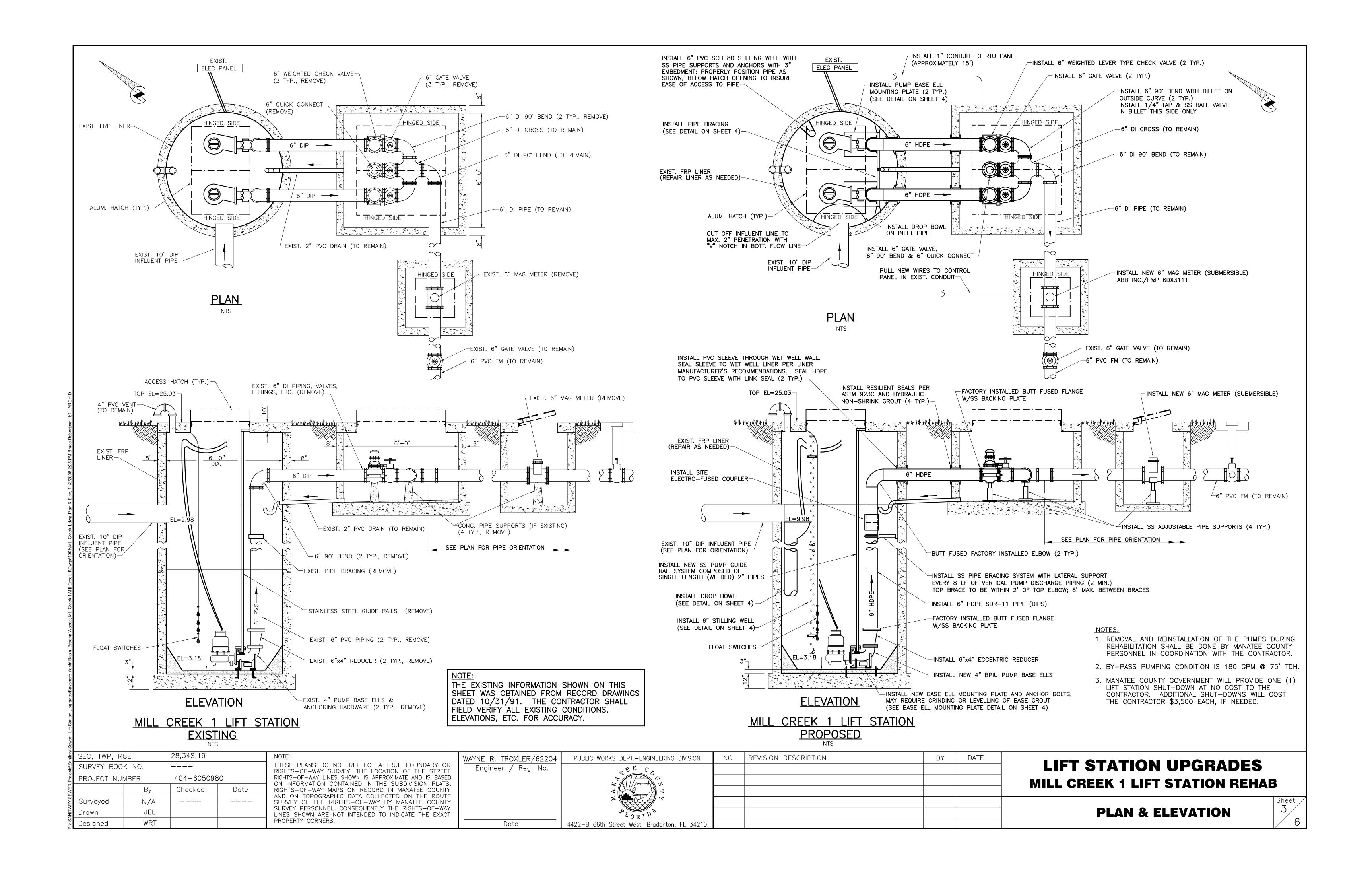
Date

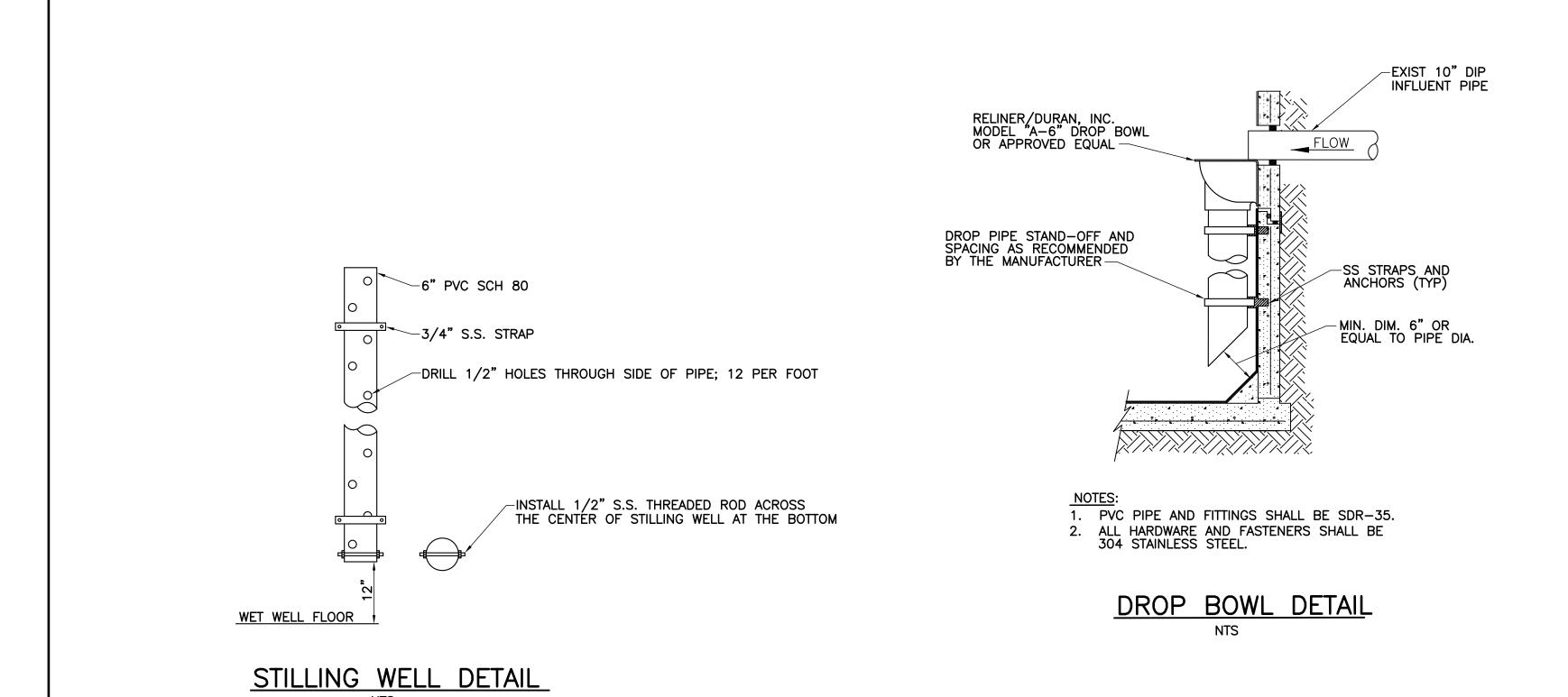
PUBLIC WORKS DEPT.-ENGINEERING DIVISION

4422-B 66th Street West, Bradenton, FL 34210

NO.

REVISION DESCRIPTION





INSTALL SS PIPE CLAMPS WITH 3/16"
MIN. THICKNESS RUBBER STRIP BETWEEN
PIPE CLAMPS AND PIPE (4 TYP.)

1/4"x3" S.S. ANGLE

1/2" S.S. ALTHREAD
EMBED 4 1/2" (TYP.)

WET WELL PIPE BRACING DETAIL

NOTE:
THE PIPE CLAMPS SHALL BE CONSTRUCTED FROM
MIN. 1 1/2"x 1/4" STAINLESS STEEL FLAT STOCK. ALL
BRACING SYSTEM COMPONENTS SHALL BE CONNECTED
USING STAINLESS STEEL FASTENERS. ALL THREADED
CONNECTIONS SHALL HAVE STAINLESS STEEL FLAT
WASHERS AND STAINLESS STEEL NYLON INSERT LOCK NUTS.

4" PUMP BASE ELL MOUNTING PLATE

NOTES:

1. INSTALL DOUBLE NUTS ON ALL EIGHT (8) THREADED RODS.

2. THE PLATE EDGES AND ALL HOLES SHALL BE GROUND SMOOTH TO REMOVE ALL BURS.

ınitar	SEC, TWP, R	GE	28,34S,19		<u>NOTE:</u>
ts\Sa	SURVEY BOO	K NO.		THESE PLANS RIGHTS-OF-WA	
Projects\Sanitary	PROJECT NUI	MBER	404-605098	30	RIGHTS-OF-WAY ON INFORMATIO
EWER		Ву	Checked	Date	RIGHTS-OF-WA`
RY SE	Surveyed	N/A			AND ON TOPOG SURVEY OF TH
NITA	Drawn	JEL			SURVEY PERSON LINES SHOWN A
/s~\	Designed	WRT			PROPERTY CORN

NOTE:

THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OR RIGHTS-OF-WAY SURVEY. THE LOCATION OF THE STREET RIGHTS-OF-WAY LINES SHOWN IS APPROXIMATE AND IS BASED ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS, RIGHTS-OF-WAY MAPS ON RECORD IN MANATEE COUNTY AND ON TOPOGRAPHIC DATA COLLECTED ON THE ROUTE SURVEY OF THE RIGHTS-OF-WAY BY MANATEE COUNTY SURVEY PERSONNEL. CONSEQUENTLY THE RIGHTS-OF-WAY LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT PROPERTY CORNERS.

VAYNE R. TROXLER/62204	PUBLIC WORKS
Engineer / Reg. No.	
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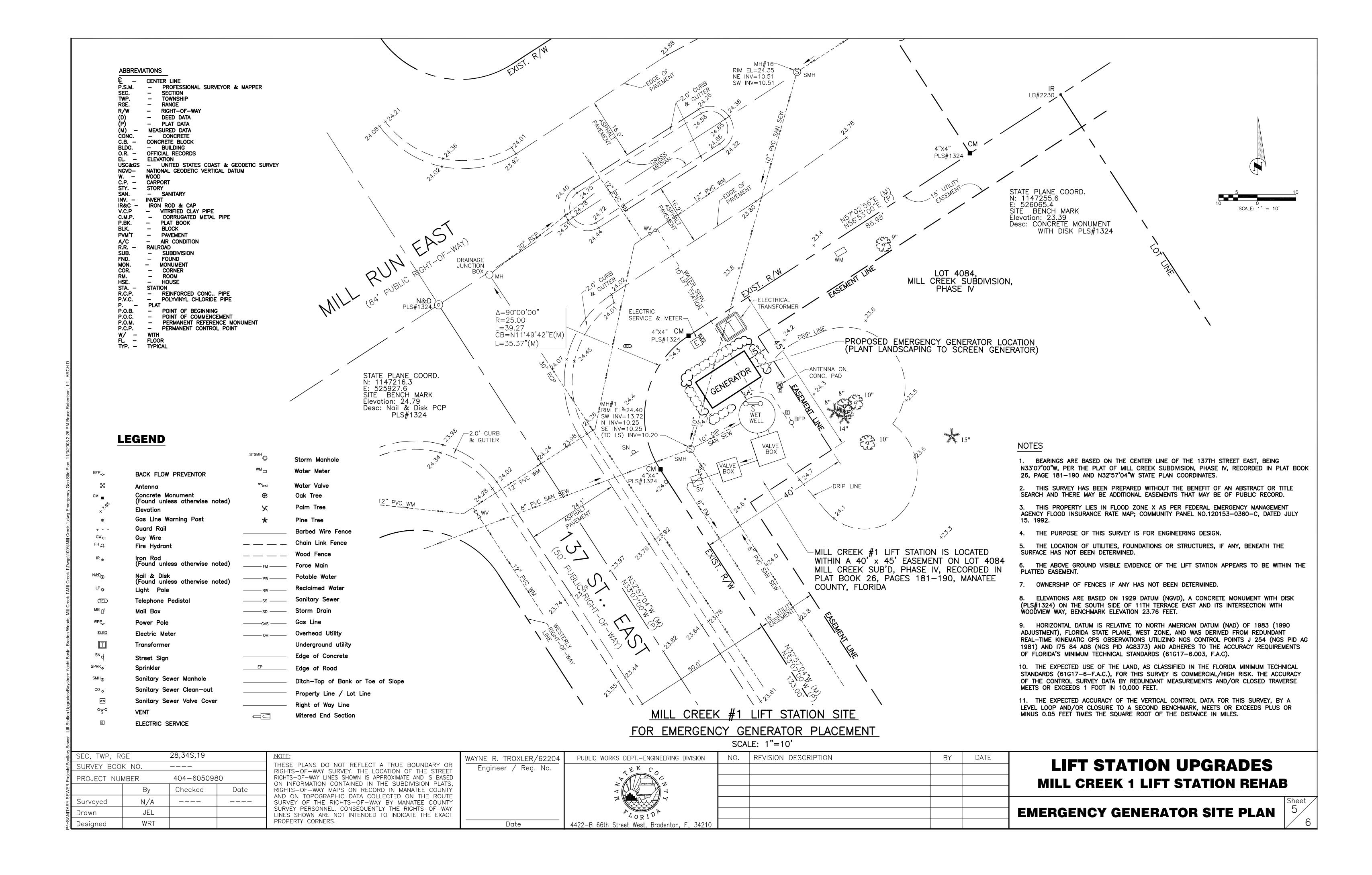
Date

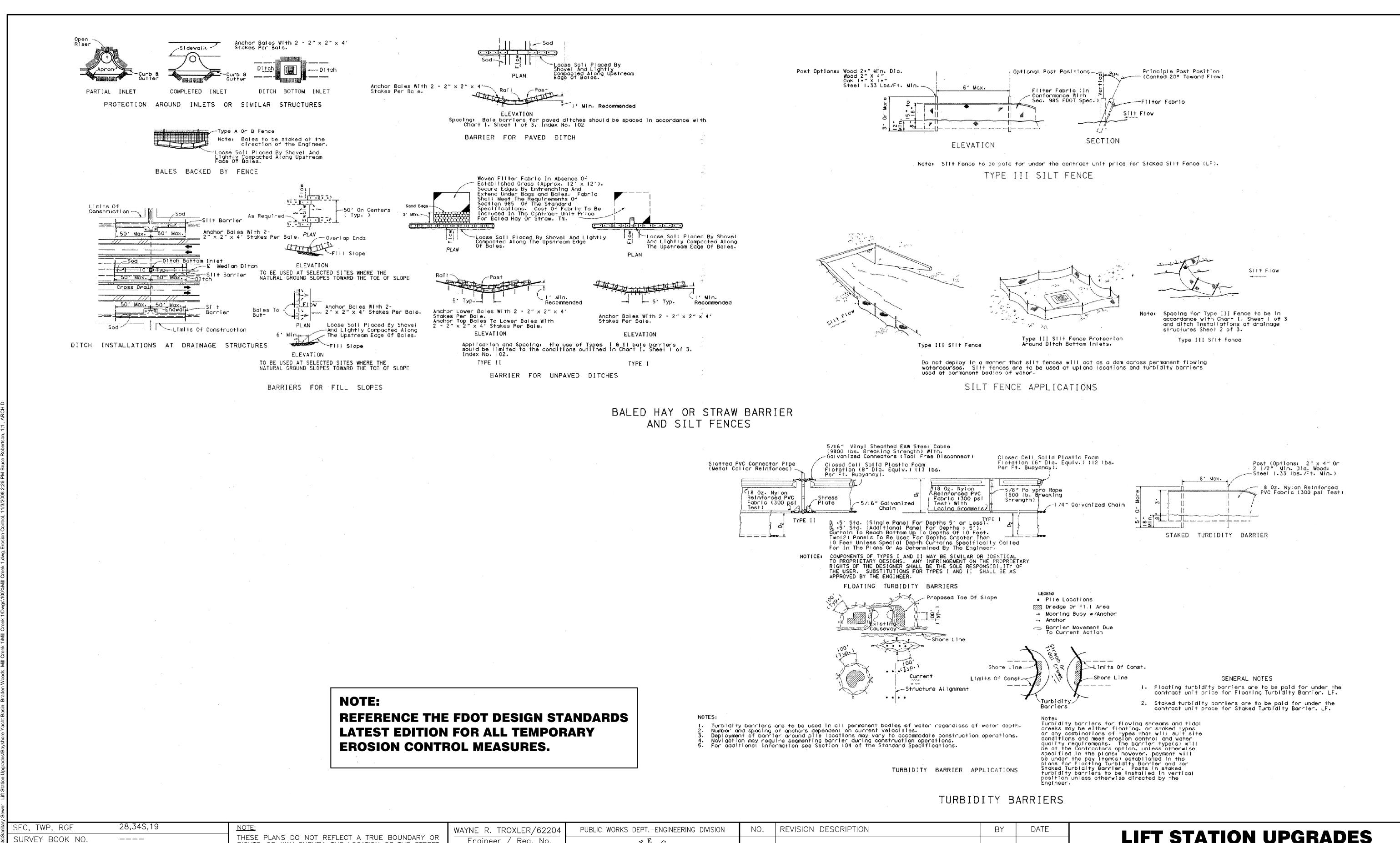
PUBLIC WORKS DEPT.—ENGINEERING DIVISION	NO.	REVISION DESCRIPTION	BY
SEE CO			
V A			
LORIDA			
4422-B 66th Street West, Bradenton, FL 34210			

LIFT STATION UPGRADES
MILL CREEK 1 LIFT STATION REHAB

DETAILS

Sheet 4





SURVEY BOOK	K NO.			THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OR	Engineer / Reg. No.	E C	The transfer of the transfer o		LIFT STATION UPGRADES
PROJECT NUM	MBER	404-6050980)	RIGHTS—OF—WAY SURVEY. THE LOCATION OF THE STREET RIGHTS—OF—WAY LINES SHOWN IS APPROXIMATE AND IS BASED ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS	Engineer / neg. ne.				MILL CREEK 1 LIFT STATION REHAB
SEWER	Ву	Checked	Date	RIGHTS-OF-WAY MAPS ON RECORD IN MANATEE COUNTY AND ON TOPOGRAPHIC DATA COLLECTED ON THE ROLLTE					WILL CREEK I LIFT STATION REHAD
Surveyed	N/A			SURVEY OF THE RIGHTS—OF—WAY BY MANATEE COUNTY					Sheet /
Drawn	JEL			SURVEY PERSONNEL. CONSEQUENTLY THE RIGHTS—OF—WAY LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT		LORIDA			EROSION CONTROL 6
Designed	WRT			PROPERTY CORNERS.	Date	4422-B 66th Street West, Bradenton, FL 34210			6