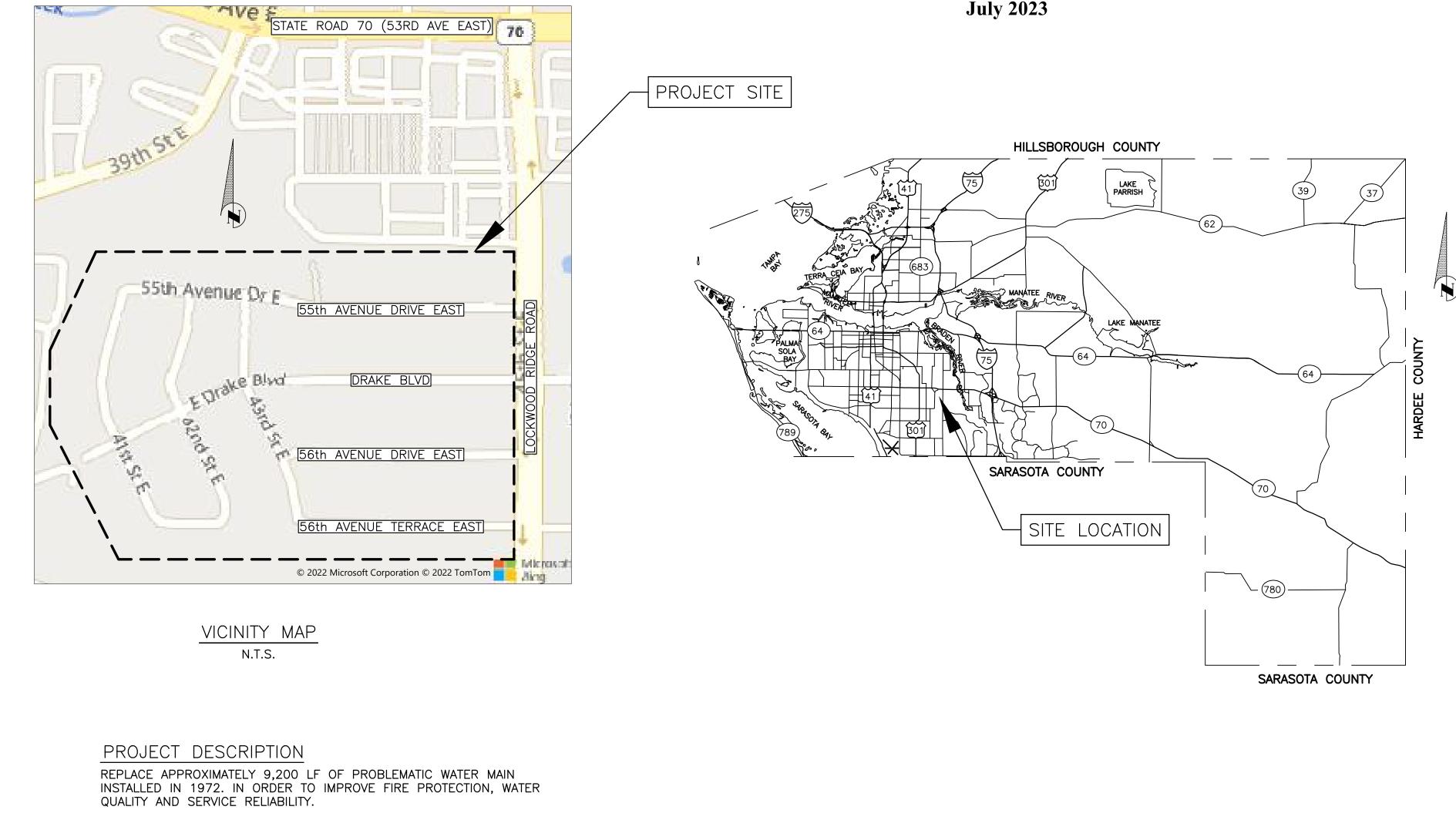
GATEWAY EAST WATER MAIN REPLACEMENT 404-6109770





July 2023

	Know what's below	102		EERIN	DEPAR		N
	Call before you dig BID PLANS SHEET						
01	Cover		EAST				
02 03	General Notes Key Sheet & Abandonment Plan					ER	
00	55th Dr Ave E, STA 20+00 to 22+10			D L			
05	55th Dr Ave E, STA 22+10 to 27+90				-	COVE	
06	55th Dr Ave E, STA 27+90 to 33+70					\cup	
07	55th Dr Ave E, STA 33+70 to 38+00		GATEWAY	WATFR WA			
38	Drake Blvd E, STA 40+00 to 44+00		U				
29	Drake Blvd E, STA 44+00 to 49+80						
10	Drake Blvd E, STA 49+80 to 55+60						
11	Drake Blvd E, STA 55+60 to 60+00						
12	56th Ave Dr E, STA 70+00 to 75+80				-		
13	56th Ave Dr E, STA 75+80 to 81+00						
14	41st St E, STA 120+ to 125+80						
15	41st St E, STA 128+80 to 131+00						
16	56th Ave Terr E & 43rd Court E, STA 131+00 to 133+80	DATE					
17	42nd St E, STA 133+80 to 139+80	ВY					
18	42nd St E, STA 139+40 to 144+60						
19	43rd St E, STA 89+30 to 95+00						
20	43rd St E, STA 95+00 100+00						
21	56th Ave Terr E, STA 100+00 to 105+60	DESCRIPTION					
22	56th Ave Terr E, STA 105+60 to 110+50						
23	Lockwood Ridge Rd STA 0+00 to 2+50	REVISION					
24	Site Restoration						
25	Site Restoration						
26	Site Restoration	9 PRC	JECT #		404-	-610977	0
27	Site Restoration Survey Data	SUF			٧	VA #11	
28 29	SUE Data	SEC SCA	./TWN./	RGE		15/35/1 N.T.S.	7
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34	Ex. Gravity Structure Tables		J. SHE		HHN SHO	P.E.	
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SHEET

<u>GE</u>	NERAL						
1.	ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: MARCENEL JOSEPH, PE AND CAN BE REACHED AT 941.708.7450 x7329.						
2.	SITE VISITS ARE MANDATORY FOR ALL BIDDERS.						
3.	ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILIT AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE		RANSPORTATIO	ON STANDARDS			
4.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN T COST TO THE OWNER.						
5.	THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EX BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT W DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTE WILL BE BASED.	HATEVER	INVESTIGATIO	N THEY MAY			
7.	THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT A DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFOR AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLOR NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE 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 SECTION 01310 OF THE SPECIFICATIONS.	RIDA AT 1 FOR COC	ENCING WITH -800-432-4 RDINATING W	CONSTRUCTION. 1770 OR THE TH ALL UTILITIES			
	<u>EETY</u> THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90—96, LAWS OF F AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPA 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 CON	NFORM TO) ALL OSHA	REQUIREMENTS.			
12	THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROU THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT AL PROVIDING A CONTINUOUS SAFE WORKSPACE. /IRONMENTAL						
	THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL N FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY 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 STO FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.	CKPILES	WILL BE PRE	SENT. IN NO			
	STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY TH THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.	HE ENGIN	EER BEFORE	INSTALLATION.			
16	SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTE PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INS CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATI	STALLED, SUCH SYS TO BERM	CONSTRUCTE	D, OR IN THE BE FULLY			
17	ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DU WITHIN THREE (3) DAYS OF EXCAVATION.	RING CON	ISTRUCTION A	ND BE SODDED			
18	SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYST BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.						
19	ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND REPAIRED AS REQUIRED.	SHALL E	BE CLEANED	OUT AND/OR			
	THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CON VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATION THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERM FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.	NS AND/	OR PERMITS				
	HT-OF-WAY						
	ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEME THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTOR PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.						
24	THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION	ON. ALL M TRANSPO	MAINTENANCE DRTATION [°] MA	AND PROTECTION			
25	THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.	PIPE ANI	D HEADWALLS	WHETHER SHOWN			
26	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BEN AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.	NCH MARI	KS (ELEV.), C	ENTER LINES,			
27	THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVI AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION 02575.	EWAYS WI	LL BE IN PA	SSABLE CONDITION			
28	A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE AI DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.	NY DRIVE	WAY CONSTRU	JCTION WORK IS			
UT	LITIES						
29	ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT COVERS, ETC.	ALL TIME	ES, I.E. VALVI	ES, MANHOLE			
30	LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMF ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCAT PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY EFFECT HIS WORK. A EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND EL CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.	PROVEMEN ION SHOV AND DIME ALL EXIST	NTS, UTILITIES VN OR RELOC ENSIONS OF A ING UTILITIES	, ETC. WHICH CATED SINCE THE ALL EXISTING TO BE			
31	THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER/RECLAIM/SEWER LINES, STORM DRAINS, OTHER UTIL MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. T AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUC COST TO THE COUNTY. ALL EXISTING AND PROPOSED VALVE COVERS, RIMS, ETC, SHALL BE BROUGHT TO FINAL GRADE O	HE CONT	RACTOR SHAL	L REPAIR NO ADDITIONAL			
32	2. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED, OR OFFERED BY AN EXISTING UTILITY, (I.E. 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 ANY RELATED COSTS.						
33	ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.	IN ACCC	RDANCE WITH	THE CONTRACT			
	FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A D SECTION 02720.						
35	ALL WATER SERVICES TO BE INSTALLED OR MODIFIED ON PRIVATE PROPERTY SHALL REQUIRE A PLUMBING PERMIT;						
NO.	REVISION DESCRIPTION	BY	DATE				

A. THE CONTRACTOR'S PLUMBER SHALL INSTALL A REDUCED PRESSURE (RP) TYPE BACKFLOW PREVENTION ASSEMBLIES (BPA'S) EQUIPPED WITH A PRESSURE RELIEF VALVE AT THE POTABLE WATER METER WHENEVER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY: •IN-GROUND IRRIGATION SYSTEM, • SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL), • SWIMMING POOL, •FIRE SPRINKLER SYSTEM, •FLOOD ZONE DESIGNATION, (IF ONLY FLOOD ZONE, INSTALL A DOUBLE CHECK BPA), • PROPERTY THAT ABUTS OR INCLUDES A BODY OF WATER (INCLUDING RIVER, BAY, LAKE OR POND), • SOLAR WATER HEATING SYSTEM, • MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY. B. A LICENSED PLUMBER SHALL INSTALL THE BPA'S IN ACCORDANCE WITH THE CURRENT FLORIDA PLUMBING CODE AND MANATEE COUNTY CODE OF

ORDINANCES, AND SHALL SELECT A PRESSURE RELIEF VALVE WITH AN APPROPRIATE PRESSURE SET POINT TO PROTECT THE CUSTOMERS' PLUMBING AND NOT ALLOW EXCESSIVE LEAKAGE DUE TO SYSTEM SUPPLY PRESSURE. A PRESSURE REDUCING VALVE MAY BE NECESSARY UPSTREAM OF THE PRESSURE RELIEF VALVE, WHERE NORMAL SUPPLY PRESSURE EXCEEDS 80 PSI. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION CONTROL STAFF AS REQUIRED.

C. IF IN-GROUND IRRIGATION SYSTEM IS CONNECTED TO THE POTABLE WATER LINE, AN ADDITIONAL REDUCED PRESSURE (RP) BPA SHALL BE INSTALLED AT THE POINT OF CONNECTION.

D. ALL BPA SHALL BE INSTALLED 4-5 FEET FROM THE EDGE OF DRIVEWAYS OR ANY OTHER ITEMS/FEATURES THE BPA MAY CREATE AN OBSTRUCTION TO ITS

E. VACUUM BREAKERS SHALL BE INSTALLED ON ALL EXTERNAL HOSE BIBBS.

RESTORATION

F. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION STAFF & PRIVATE PROPERTY OWNER AS REQUIRED. CROSS CONNECTION STAFF SHALL DETERMINE WHICH PROPERTIES REQUIRE A BPA AND TYPE OF BPA TO BE INSTALLED.

34. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.

35. 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.

36. 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.

37. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513 OF THE INFRASTRUCTURE ENGINEERING STANDARD SPECIFICATION. 38. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE MANATEE COUNTY PUBLIC WORKS STANDARDS PART 3. HIGHWAY & TRAFFIC STANDARDS MANUAL DATED JUNE 2015, SECTION 3.7 DRIVEWAYS AND SECTION 3.8 SIDEWALKS AND/OR THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN AND THE F.D.O.T. DESIGN STANDARDS. CONCRETE WITH A 3,000 PSI @ 28 DAYS SHALL BE USED.

39. 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. LIME ROCK BASE SHALL COME FROM AN APPROVED FDOT PIT

40. ALL EXISTING SIGNING, THERMOPLASTIC PAVEMENT MARKINGS, ETC ... SHALL BE RESTORED/PROVIDED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MUTCD, FDOT DESIGN STANDARDS AND THE MANATEE COUNTY PUBLIC WORKS DEPARTMENT HIGHWAY, TRAFFIC AND STORMWATER STANDARDS, AND/OR AS DIRECTED BY THE COUNTY.

41. 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. RESTORATION EFFORTS SHALL BE INCLUDED IN THE PROJECT SCHEDULING AND PHASING PLAN TO DEMONSTRATE HOW THE RESTORATION WILL BE ACHIEVED.

CONSTRUCTION 42. 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.

43. 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.

44. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.

45. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.

46. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.

47. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.

48. 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. MODIFICATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD.

49. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.

50. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED. 51. 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.

52. 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.

53. 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.

54. 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.

55. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.

56. ALL PENETRATIONS OF EXISTING STRUCTURES SHALL BE BY MECHANICAL ROTARY CORE DRILLING METHOD. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.

57. 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.

58. 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.

59. 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.

60. 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.

61. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE

62. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 1.15 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 1.15 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 1.15 CAN BE PROVIDED UPON REQUEST.

63. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS OF THE WORK AS CONSTRUCTED. AS-BUILT DRAWINGS SHALL INCLUDE THE LOCATION OF ABANDONED MAINS CUT AND PLUG POINTS. AS-BUILT DRAWINGS SHALL BE ANNOTATED EACH DAY AS THE WORK PROCEEDS AND SHALL BE AVAILABLE TO THE COUNTY PROJECT MANAGER AND/OR FIELD INSPECTOR FOR REVIEW ON AN ONGOING BASIS. AS-BUILT DRAWINGS SHALL PROVIDE THE HORIZONTAL AND VERTICAL INSTALLED LOCATION OF ALL NEW PIPELINE, FITTINGS, VALVES AND APPURTENANCES REFERENCED TO FIXED SURFACE FEATURES THAT ARE SHOWN ON THE CONSTRUCTION DRAWINGS AND/OR RIGHT-OF-WAY LINES, PROPERTY CORNERS OR OTHER SURVEYED POINTS. THE CONTRACTOR SHALL BE ABLE TO PRESENT THE RECORD DRAWINGS TO THE COUNTY PROJECT MANAGER AND/OR INSPECTOR ON DEMAND AS THE WORK PROGRESSES.

EXISTING UTILITY LOCATIONS

FNGINFFR.

64. THE FOLLOWING IDENTIFIES THE QUALITY LEVEL OF EXISTING UTILITY LINEWORK ON PLANS

GATEWAY EAST WATER MAIN REPLACEMENT **GENERAL NOTES**

LEVEL "A" -VISUALLY LOCATED OR SOFT DIGS (HORIZONTAL AND VERTICAL) LEVEL "B" -DESIGNATED BY GPR OR FLAGGING (HORIZONTAL) LEVEL "C" -SURFACE VISIBLE FEATURES SURVEY LEVEL "D" -EXISTING RECORDS OR GIS REFERENCE 2010 EDITION OF FDOT UTILITY ACCOMODATION MANUAL (UAM)

MAINTENANCE OF TRAFFIC

- TIME OR ADDITIONAL COMPENSATION.
- ARE CONCEPTUAL.
- THE COST OF PIPE.
- CLOSURES OR DETOURS.

- SEPARATE PAYMENT.
- STANDARD INDEX 600.

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65. THE CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROL PLAN (TCP) IMPLEMENTED. THE TCP SHALL BE PREPARED BY AN INDIVIDUAL CERTIFIED TO PREPARE A TCP IN THE STATE OF FLORIDA THAT MEETS OR EXCEEDS THE REQUIREMENTS OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS LATEST EDITION (SERIES 600). ANY DEVIATIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SUBMITTED TO COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR

66. THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHT-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN (TCP). 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 TCP SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

67. THE CONTRACTOR SHALL USE, BUT ARE NOT LIMITED TO, FDOT INDICES 415, 600, 615, 616, AND 621. THE RECOMMENDED FDOT DESIGN STANDARD INDICES

68. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY DRAINAGE. THERE WILL BE NO DIRECT PAY FOR THIS WORK. COSTS SHALL BE INCLUDED IN

69. MOTORIZED AND MECHANICAL EQUIPMENT SHALL BE EFFECTIVELY SHIELDED, PADDED, OR LOCATED TO MINIMIZE NOISE.

70. THE CONTRACTOR WILL NOTIFY ALL EMERGENCY AND RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF ANY PROPOSED LANE

71. ACCESS TO ALL SIDE STREETS AND DRIVEWAYS MUST BE PROVIDED AND MAINTAINED DURING CONSTRUCTION.

72. USE FDOT INDEX NO. 619 FOR TRAFFIC CONTROL MEASURES WHEN CONSTRUCTION EQUIPMENT IS DRIVEN ON OPEN TRAVEL LANES. THE REGULATORY SPEED IN WORK ZONES SHOULD BE AS CLOSE TO NORMAL CONDITIONS AS POSSIBLE, UNLESS NOTED ON THE TRAFFIC CONTROL PLANS.

73. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO WORKING NEAR THEIR EXISTING FACILITIES.

74. CONSTRUCTION SEQUENCES SHALL BE COORDINATED TO PROVIDE POSITIVE DRAINAGE OF THE TRAVELWAYS AT ALL TIMES.

75. ANY MOT ITEM NOT SPECIFICALLY LISTED UNDER A PARTICULAR PAY ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. THERE SHALL BE NO

76. THE MAXIMUM SPACING BETWEEN WARNING DEVICES USED FOR DELINEATION BETWEEN THE TRAVELWAY(S) AND CONSTRUCTION AREA SHALL BE AS PER FDOT

77. ALL DETOURS, IF APPROVED BY THE COUNTY, SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D. LATEST EDITION) AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION (600 SERIES). ANY DETOUR RECOMMENDED BY THE CONTRACTOR MUST BE SUBMITTED TO THE COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE

GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.

EXISTING

BENCH MARK

LEGEND

BUSH

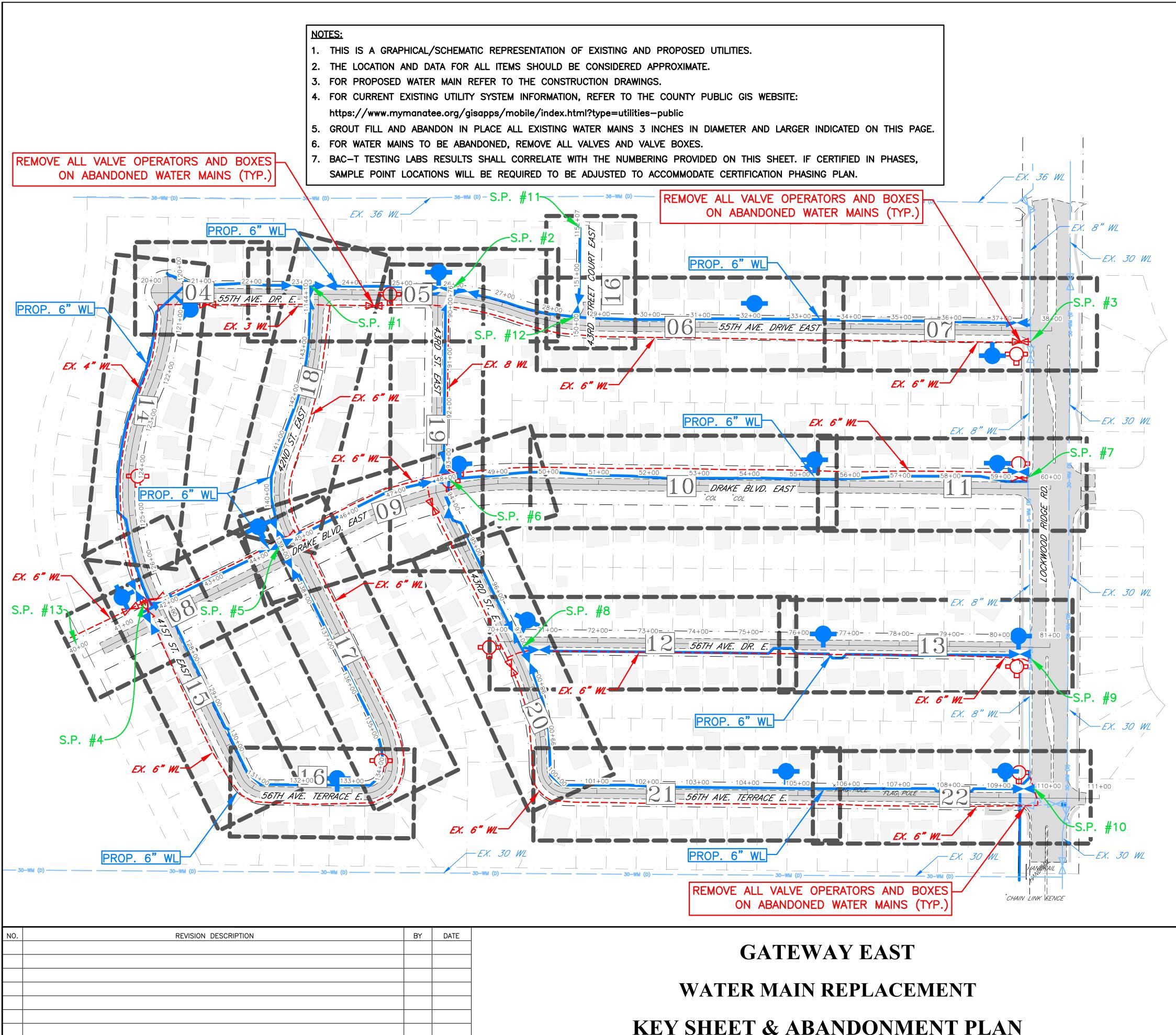
ABBREVIATIONS

	CONCRETE MONUMENT		TREE					
	IRON PIPE	EST.	OAK TREE		R/W	RIGHT C	F WAY	
	IRON ROD	Š.	PALM TREE		CONC	CONCRE	TE	
	HUB	and the second se	PINE TREE		ASPH	ASPHAL ⁻	г	
	NAIL & DISK	*			DRWY	DRIVEWA	Y	
	ELEVATION				SWK	SIDEWAL	К	
	PARCEL ID NO.				EP	EDGE O	F PAVEMENT	
	PARCEL ID NO.	\sim	EDGE OF VE	GETATION	BOC	ВАСК О	F CURB	
	LOT NO.		CHAIN LINK	FENCE	\longrightarrow	FLOW A	RROW	
	GUY WIRE		WOOD FENCE	Ξ				
	POWER POLE		BARBED WIR	E FENCE				
	LIGHT POLE	FM	FORCE MAIN					
	MAIL BOX	PW	POTABLE WA	TER				
	SIGN		RECLAIMED V	VATER		PROPO	SED	
	REFLECTOR	ss	SANITARY SE	WER	-	DOUBLE	CHECK BPA	
	SPRINKLER	s	STORM DRAI	N	-0-	REDUCE	D PRESSURE BPA	
	GAS MARKER	GAS	GAS LINE			REUSE	EX. METER BOX	
	BACKFLOW PREVENTER	OCHR	OVERHEAD C	HARTER	-	NEW ME	TER BOX	
	BLOW OFF VALVE	CHR	UNDERGROUM	ND CHARTER				
	FIRE HYDRANT	OE	OVERHEAD E	LECTRIC				
	WATER VALVE	BE	UNDERGROUM	ND ELECTRIC				
	AIR RELEASE VALVE	OH FTR	OVERHEAD F	RONTIER				
	WATER METER	FTR	UNDERGROUM	ND FRONTIER				
	SANITARY SEWER MANHOLE	PC0	UNDERGROUM	ND PRECO				
	SANITARY SEWER CLEAN OUT	FPL	UNDERGROUM	ND FPL				
	SOIL BORING LOCATION	——— он ———	OVERHEAD U	ITILITY				
	TELEPHONE SERVICE BOX	+++++++++++++++++++++++++++++++++++++++	RAIL ROAD T	RACKS				
	UTILITY BOX		EDGE OF CC	NCRETE				
	UTILITY RISER		EDGE OF RC	DAD				
	FLOW DIRECTION		TOE OF SLO	PE				
	GRATE INLET		TOP OF BAN					
	MITERED END SECTION		PROPERTY L					
	STORM SEWER MANHOLE		RIGHT OF W	AY				
		EMERGE						
ΒL	IC							
ĒA	FRONTIER ST 1701 RINGL	ING BLVD.		SOUTHWEST FLOR MANAGEMENT DIST			DEPARTMENT OF ENVIRONM PROTECTION	IENTAL
58	SARASOTA,	FL. 34236		SERVICE OFFICE			13051 N. TELECOM PKWY	
-	JOHN PLOT 7220 (941) 906-			STEVE LOPES 6750 FRUITVILLE	ROAD		TEMPLE TERRACE, FL 336 FD WATSON	51

MANATEE COUNTY PUBLIC	EMERGENCY	CONTACTS		
MANATEE COUNTY PUBLIC WORKS DEPT. 1022 26TH AVENUE EAST BRADENTON, FL. 34208 JIM RENNEBERG, P.E. (941) 708–7450 EXT. 7220 FAX: (941) 708–7415 TECO/PEOPLES GAS CO. 8261 VICO COURT SARASOTA, FL. 34240 (941) 342–4030 DAN SHANAHAN	FRONTIER 1701 RINGLING BLVD. SARASOTA, FL. 34236 JOHN PLOTT (941) 906–6707 FAX: (941) 906–6706 John.Plott@ftr.com FLORIDA POWER & LIGHT 1253 12TH AVENUE EAST PALMETTO, FL 34221 GREG COKER	SOUTHWEST FLOF MANAGEMENT DIS SERVICE OFFICE STEVE LOPES 6750 FRUITVILLE SARASOTA, FL. 3 (941) 377–3722 FAX: (941) 373– FLORIDA GAS TRA 7804 ANDERSON TAMPA FL 33634	TRICT SARASOTA ROAD 4240 -7660 NSMISSION RD.	DEPARTMENT OF ENVIRONMENTAL PROTECTION 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 ED WATSON PHONE: (813) 470–5875 FAX: (813) 470–5993 CHARTER COMMUNICATION 5413 E. STATE ROAD 64 BRADENTON, FL. 34208–5535 TOM WRIGHT
FAX: (941) 342-4011 EMERGENCY: 1-877-832-6911	(941) 723–4430 FAX: (941) 723–4444 EMERGENCY: 1–800–4–0UTAGE	CHAD HARRELL PHONE: (813) 46 E-mail: chad.har		(941) 748-3816 EXT. 21348 Tom.Wright@charter.com
ATMS 2101 47TH TERRACE EAST BRADENTON, FL 34203 VISHAL KAKAAD, P.E. (941) 749-3500 EXT. 7812 FAX: (941) 749-3571 vishal.kakkad@mymanatee.org.	Greg_Coker@fpl.com MANATEE COUNTY HEALTH DEPT. 410 6th AVENUE EAST BRADENTON, FL. 34208 (941) 748–0747 EXT. 1355 FAX: (941) 750–9364	PEACE RIVER ELE COOPERATIVE, INI P.O. BOX 1310 WACHULA, FL 33 KENDELL COKER (863) 767-4660 kendell.coker@pre	ECTRIC C. 873	SUNSHINE STATE ONE CALL OF FLORIDA 1—(800) 432—4770
		PROJECT #	404-6109770	J. SHEA SHOUN. P.E.

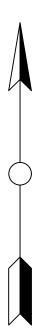


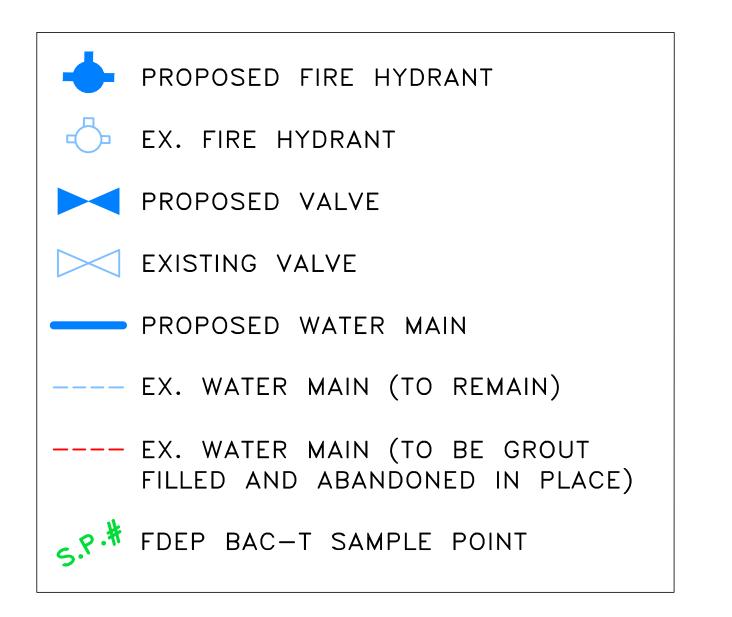
PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

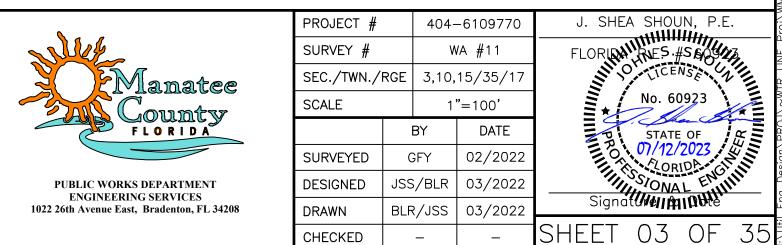


KEY SHEET & ABANDONMENT PLAN

DIAMETER OF PIPE	± LINEAL FEET OF PIPE	± CUBIC YARDS OF GROUT	VALVES TO BE REMOVED
3"	169	2	
4"	522	6	
6"	8,191	152	
8"	333	8	
TOTAL	9216	168	20



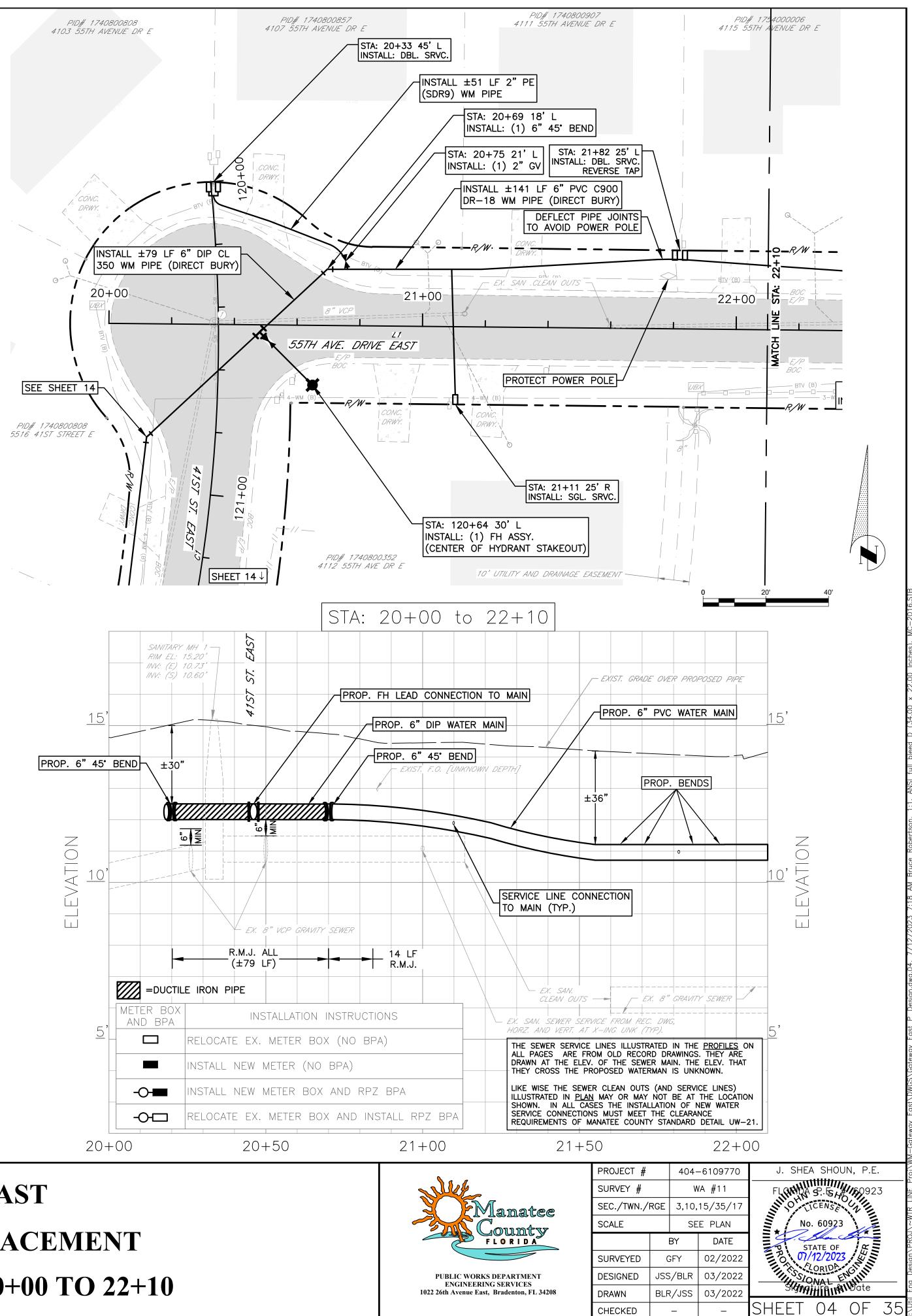




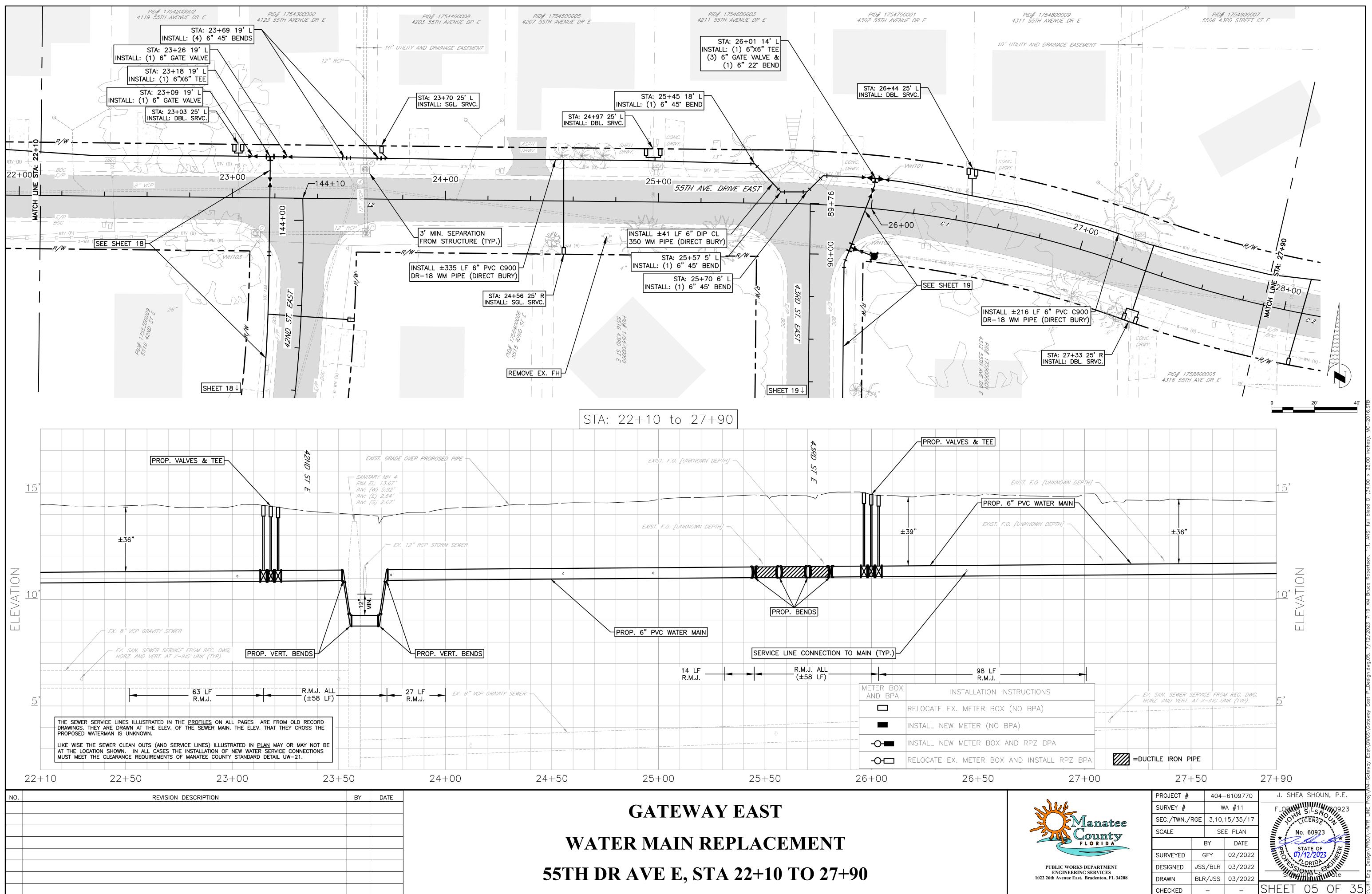
CONSTRUCTION NOTES (APPLICABLE TO ALL PLAN AND PROFILE SHEETS):

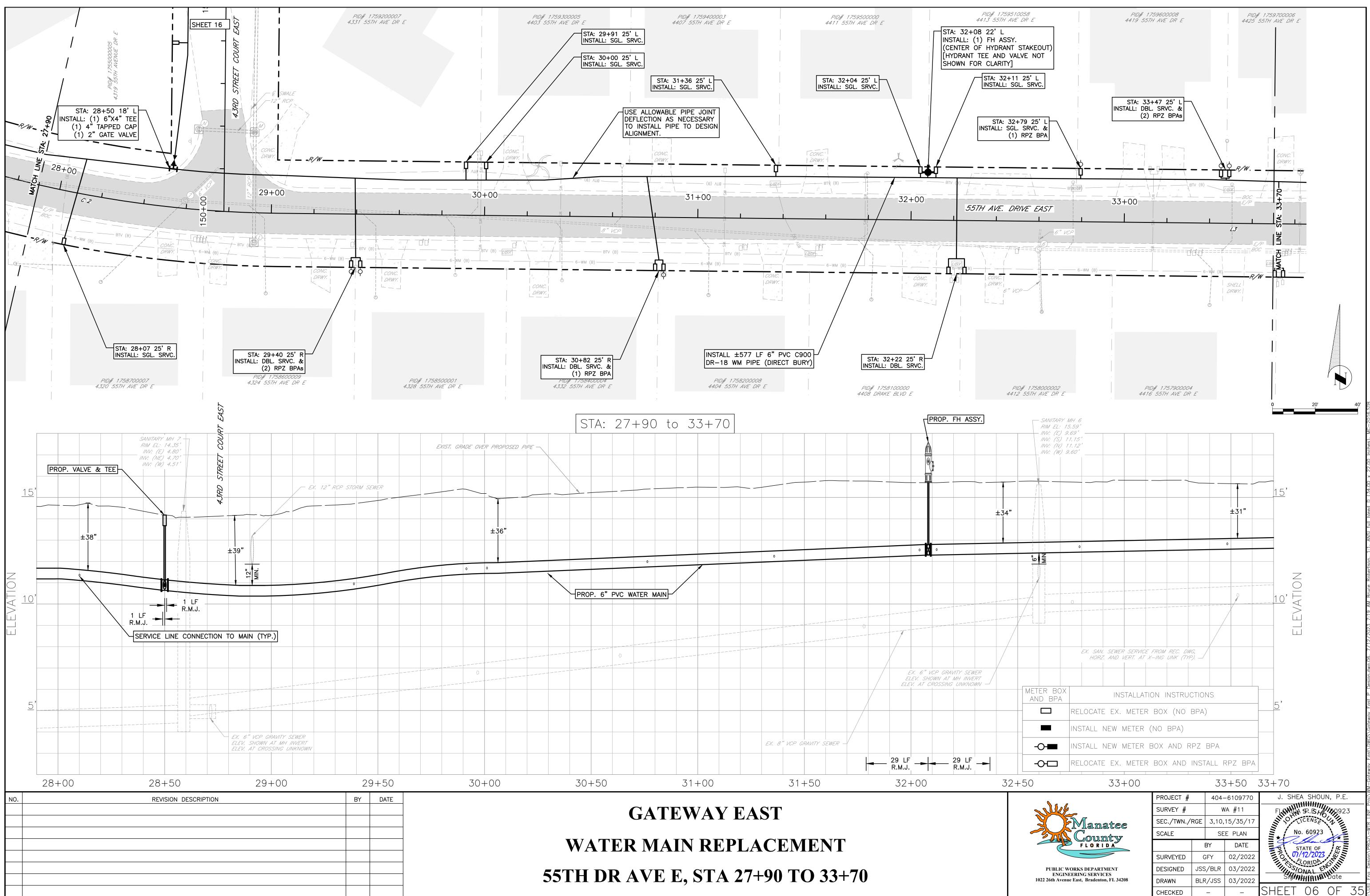
- 1. THE MAINTENANCE OF TRAFFIC (MOT) PLAN SHALL PHASE THE WORK, SO LOCKWOOD RIDGE ROAD SHALL HAVE, AT A MINIMUM, ONE LANE OF TRAFFIC TO REMAIN OPEN AT ALL TIMES IN BOTH DIRECTIONS DUE TO HEAVY TRAFFIC DEMANDS. RESTRICTIONS TYPICALLY ONLY ALLOW LANE CLOSURES BETWEEN 9 AM AND 2 PM ON LOCKWOOD RIDGE ROAD.
- 2. ALL METER BOXES PROPOSED AND/OR RELOCATED SHALL BE INSTALLED PER UW-21, UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR SHALL COORDINATE ALL WATER SERVICE LINE INSTALLATIONS WITH THE UTILITY DEPARTMENT (JAMES LEE @ 941-792-8811 x5055) PRIOR TO INSTALLATION. THE CONTRACTOR SHALL INSTALL 3/4-INCH REDUCED PRESSURE (RPZ).
- 4. LOCATION OF EXISTING SEWER SERVICE LATERALS ARE APPROXIMATE. PRIOR TO INSTALLATION OF THE PROPOSED MAIN, THE CONTRACTOR SHALL VERIFY THE LATERALS' LOCATION BOTH HORIZONTALLY AND VERTICALLY, AT THE PROPOSED CROSSING AND NOTIFY THE COUNTY TO WHICH LATERALS SHALL BE IN CONFLICT WITH THE PROPOSED MAIN'S DEPTH. CONTRACTOR SHALL DETERMINE AND NOTIFY COUNTY OF THE OPTIMAL OVERALL DEPTH TO AVOID SEWER LATERALS. WITH COUNTY APPROVAL, THE PROPOSED MAIN MAY BE SLIGHTLY ADJUSTED TO AVOID CONFLICTS WITH THE EXISTING LATERALS. IN EXTREME CASES, THE EXISTING SEWER LATERALS SHALL BE VERTICALLY RE-ALIGNED TO AVOID CONFLICTS WITH THE PROPOSED MAIN AND ELIMINATE ANY NEED FOR THE INSTALLATION OF AN AIR RELEASE VALVE (ARV). 6-INCH MIN. VERTICAL CLEARANCE IS REQUIRED FROM THE WATER MAIN.
- 5. WATER SERVICE TAPS SHALL NOT BE LOCATED UNDER DRIVEWAYS.
- 6. INSTALLATION OF THE PROPOSED PIPE SHALL BE AS SHOWN IN THE PLAN AND PROFILE VIEWS. THE DEPTH OF BURY OR TOP OF PIPE ELEVATION ARE TO BE AS INDICATED BY THE ELEVATION GRID, UNLESS OTHERWISE STATED ON THE PLANS BY ELEVATION CALLOUTS OR SPOT GRADES. IT IS EXPECTED THE INSTALLATION OF THE PIPE OR APPURTENANCES SHALL MATCH THE ELEVATIONS SHOWN IN THE CONSTRUCTION PLANS.
- 7. ALL NECESSARY DEVIATIONS BEYOND THE ACCEPTED TOLERANCES WILL NOT BE ACCEPTED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE COUNTY.
- 8. INSTALLATION VERTICAL AND HORIZONTAL TOLERANCES SHALL BE AS STATED IN THE SPECIFICATION DOCUMENT, SECTION 02617, 3.03.J. PIPE PLACED OUT OF TOLERANCE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO THE COUNTY. OUT OF TOLERENCE PIPES THAT REQUIRE AN ARV SHALL BE AT THE SOLE-EXPENSE OF THE CONTRACTOR.
- 9. CONTRACTOR SHALL SURVEY THE EXISTING TOP OF "PIPE" ELEVATION WHEN EXPOSED AT ALL PROPOSED UTILITY CROSSINGS. THIS INFORMATION SHALL BE PROVIDED ON THE RECORD DRAWINGS.
- 10. CONTRACTOR SHALL USE A TAPE MEASURE AND PROVIDE PHOTOGRAPHIC EVIDENCE THAT ALL MINIMUM REQUIRED VERTICAL DISTANCES HAVE BEEN PROVIDED. THESE PHOTOS SHALL BECOME PART OF THE PROJECT FILE. PHOTOS SHALL BE LABELED WITH THE BASELINE STATION NUMBERING AND UPLOADED TO eBUILDER WITHIN 1 TO 2 DAYS OF THE CROSSING INSTALLATIONS. THIS REQUIREMENTS SHALL APPLY TO ALL CROSSINGS.
- 11. NEW METER BOXES ARE GENERALLY REQUIRED. HOWEVER, ALL EXISTING, UNDAMAGED, ROME 1910 CAST IRON METER BOXES MAY BE REUSED. REPLACE ALL OTHERS WITH CURRENT STANDARD.
- 12. CONTRACTOR SHALL NOT USE LEVERAGE OR MECHANICAL MEANS TO ALIGN THE PIPE AND/OR FITTINGS FOR ATTACHMENT. THE PIPE SHALL NOT BE "SPRING-LOADED".
- 13. ALL DISTURBED EX. DRAINAGE DITCHES/SWALES SHALL BE RE-GRADED TO ORIGINAL CONDITION TO PROVIDE POSITIVE DRAINAGE.
- 14. ALL COST TO RESTORE PROPERTY IN THE ROW DURING PIPE INSTALLATION SHALL BE INCLUDED IN THE COST OF THE PIPE BID ITEM, IF NOT SPECIFICALLY ADDRESSED BY OTHER BID ITEMS.
- 15. THERE SHALL BE 3-FOOT MINIMUM HORIZONTAL SEPARATION BETWEEN THE PROPOSED WATER MAIN AND EXISTING/PROPOSED STRUCTURES.
- 16. ANY PROPOSED AIR RELEASE VALVES (ARV) SHALL BE INSTALLED AFTER THE FIRST DRAFT OF THE RECORD DRAWINGS ARE REVIEWED TO ENSURE THE ARVS ARE INSTALLED AT THE ACTUAL HIGH POINTS OF THE NEWLY INSTALLED MAINS.
- 17. GAS MAINS ARE LOCATED WITH THE PROJECT AREA. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING AROUND GAS MAINS. NO MACHINE EXCAVATIONS IS ALLOWED WITHIN 5 FT OF ANY GAS TRANSMISSION PIPELINE. RECOMMEND HAND DIGGING ONLY WITHIN VICINITY.
- 18. ALL WATER METERS AND BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED A MINIMUM OF 5-FEET AWAY FROM THE EDGE OF A DRIVEWAY.

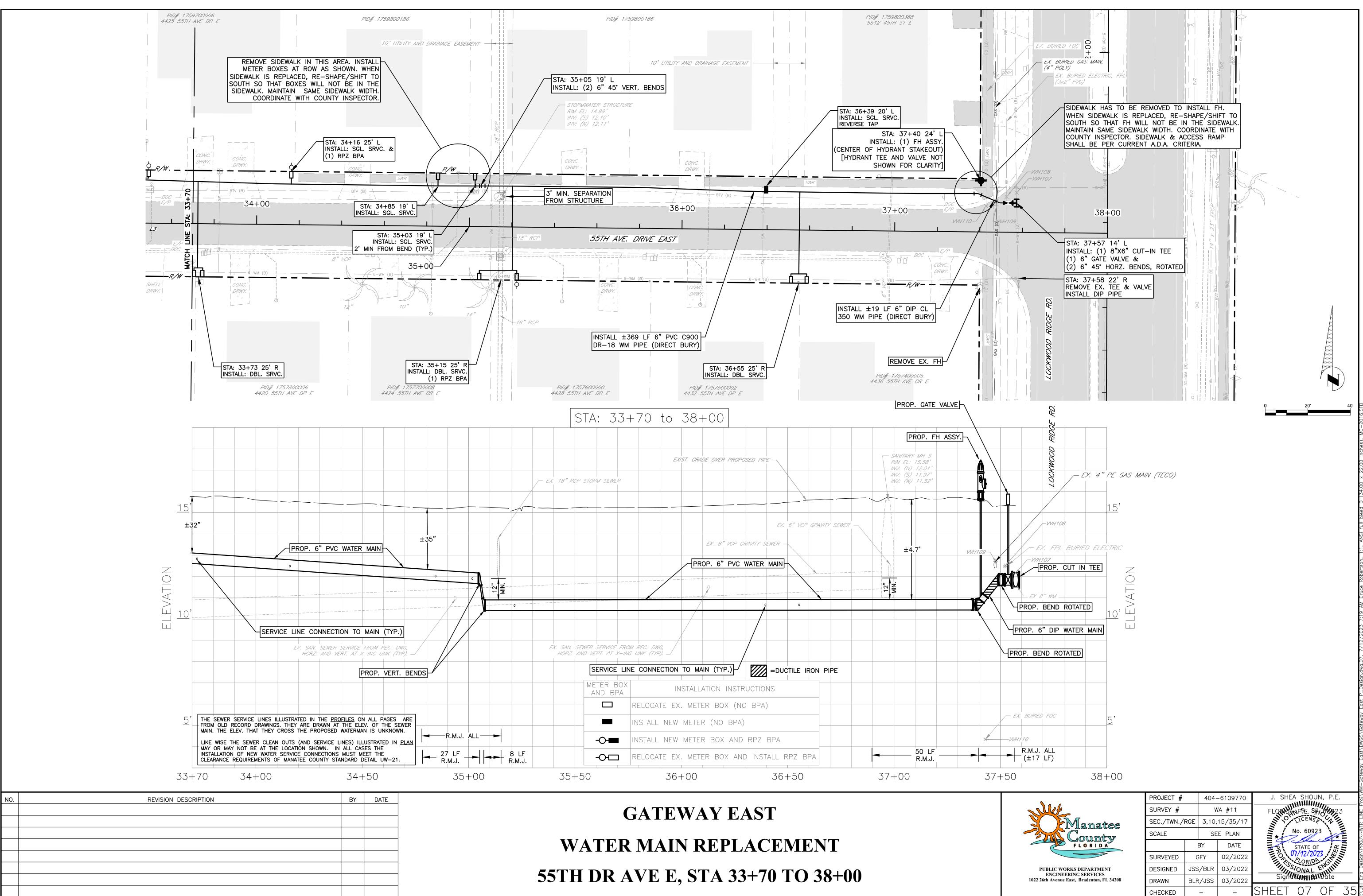
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NO.	REVISION DESCRIPTION	BY	DATE

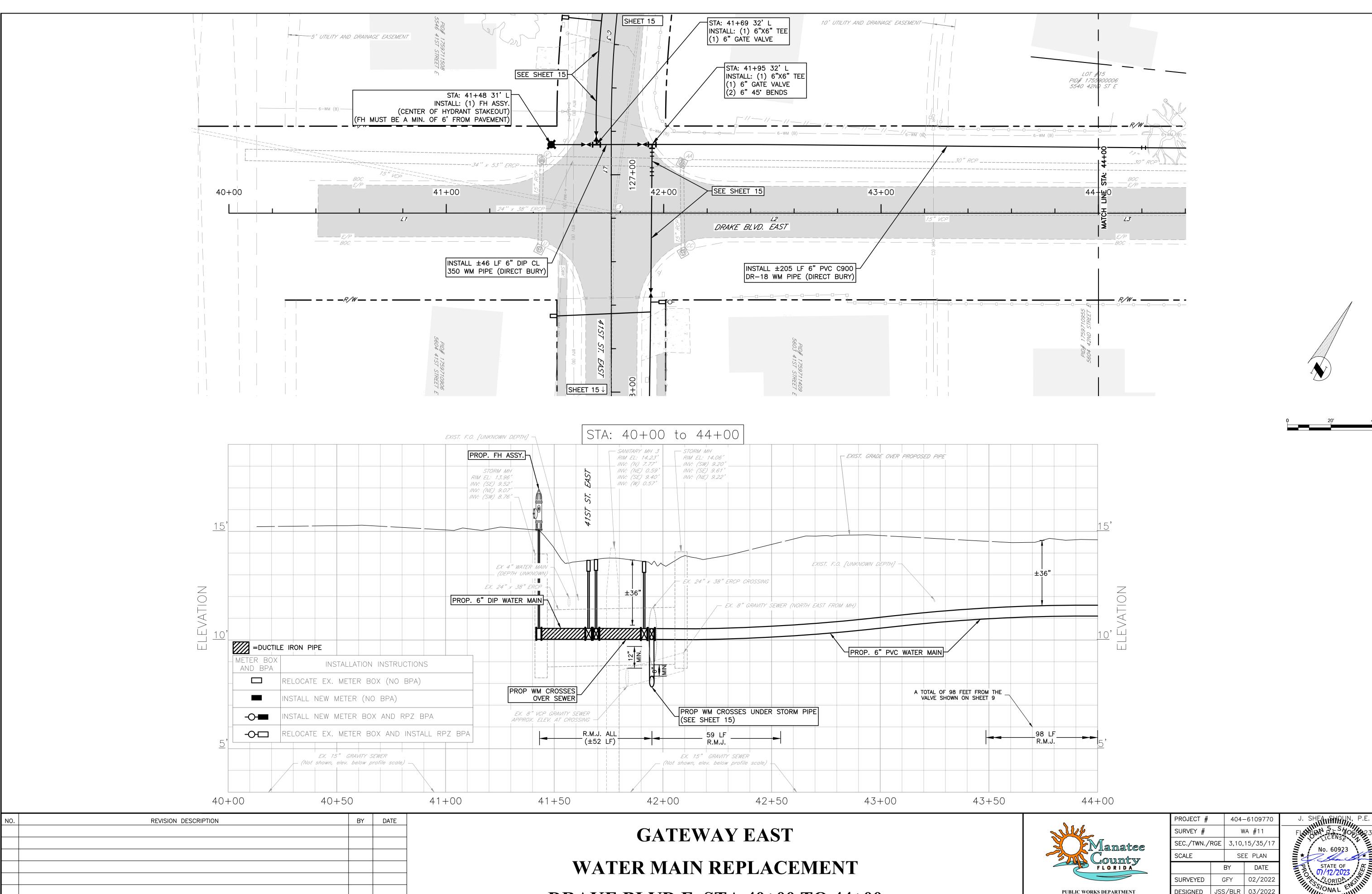


GATEWAY EAST WATER MAIN REPLACEMENT 55TH DR AVE E, STA 20+00 TO 22+10





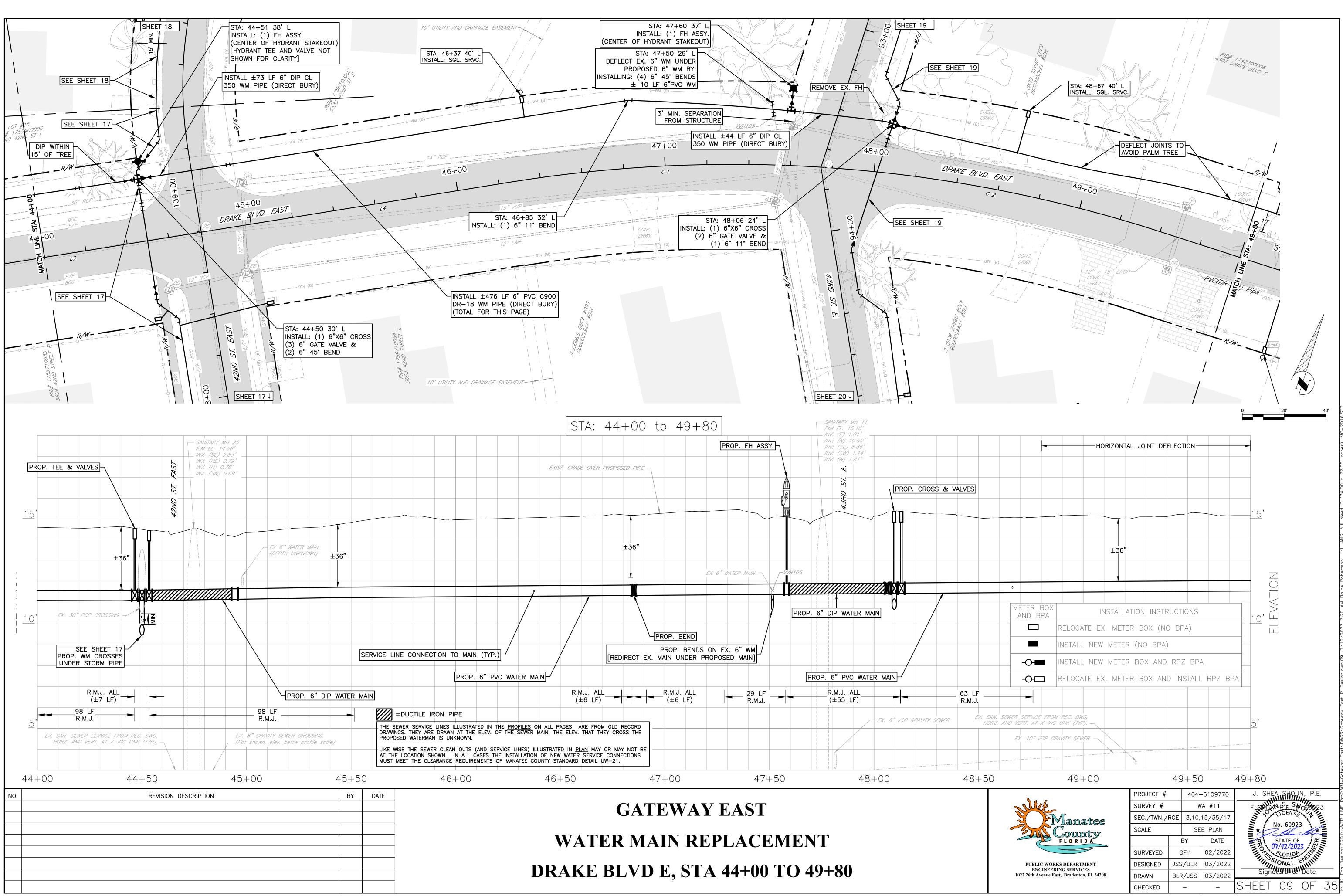


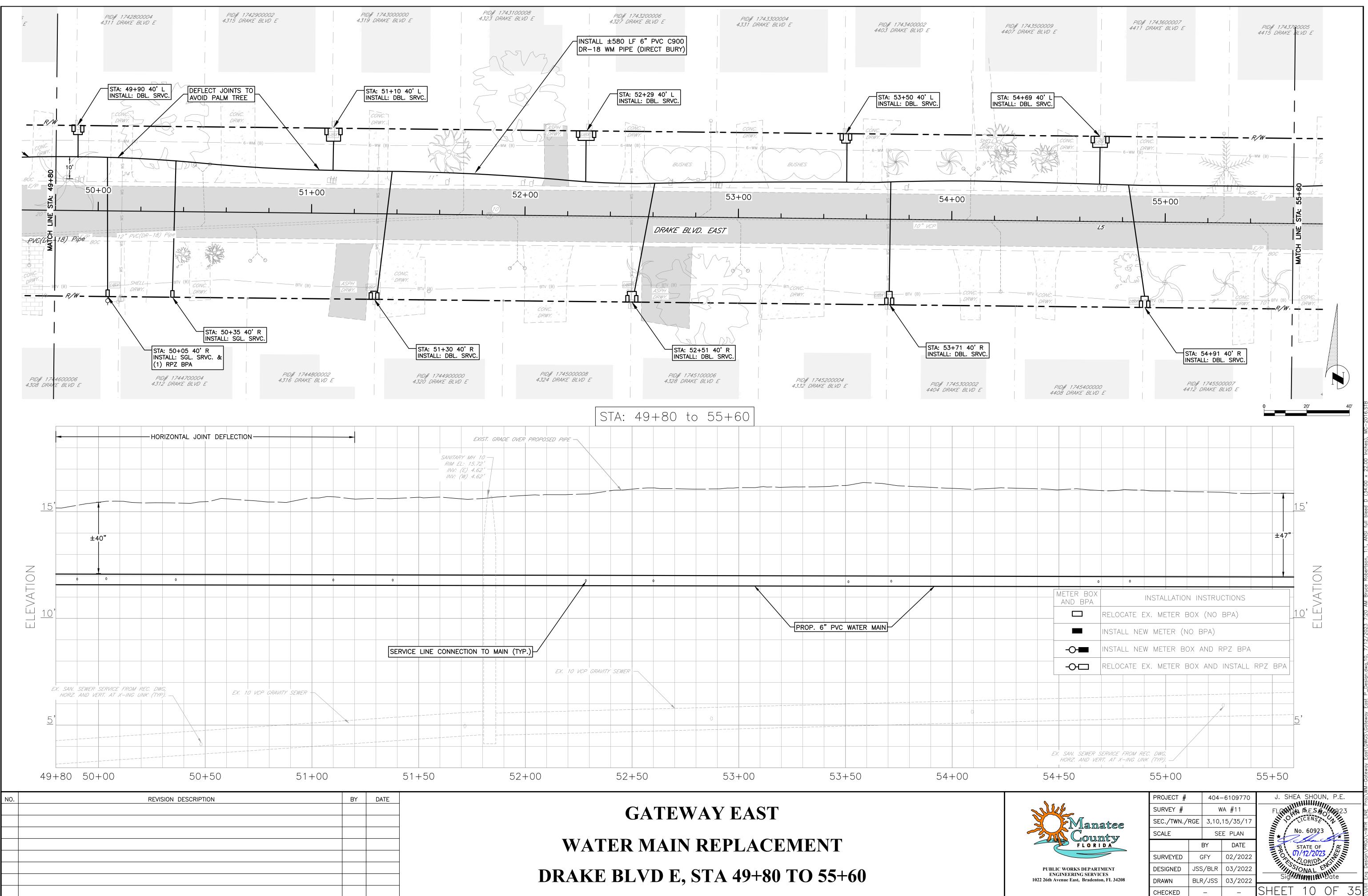


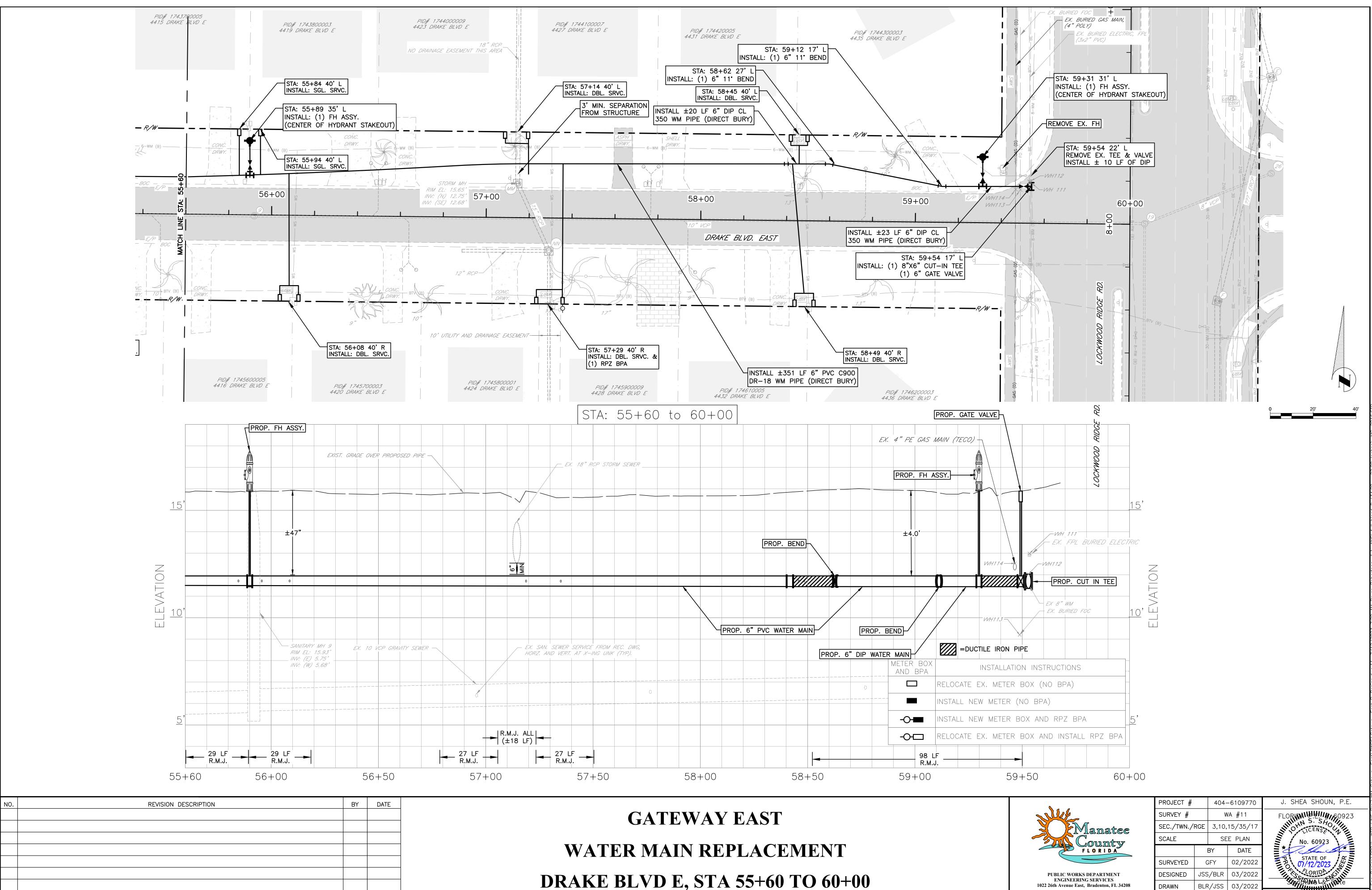
DRAKE BLVD E, STA 40+00 TO 44+00

ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

PROJECT #		404-	-6109770	J. SHEA SHOUN, P.E.
SURVEY #		W	/A #11	
SEC./TWN./	RGE 3,10,1		15/35/17	FLOR DA PES #060923 ICENSE No. 60923
SCALE		SE	E PLAN	* No. 00923
		BY	DATE	TATE OF 577/12/2023
SURVEYED		GFY	02/2022	The PLORIDA CONTINUES STORAGE ENGLISH
DESIGNED	JSS	S/BLR	03/2022	
DRAWN	BLF	R/JSS	03/2022	Signature & Date
CHECKED		-	_	SHEET 08 OF 35
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DRAKE BLVD E, STA 55+60 TO 60+00

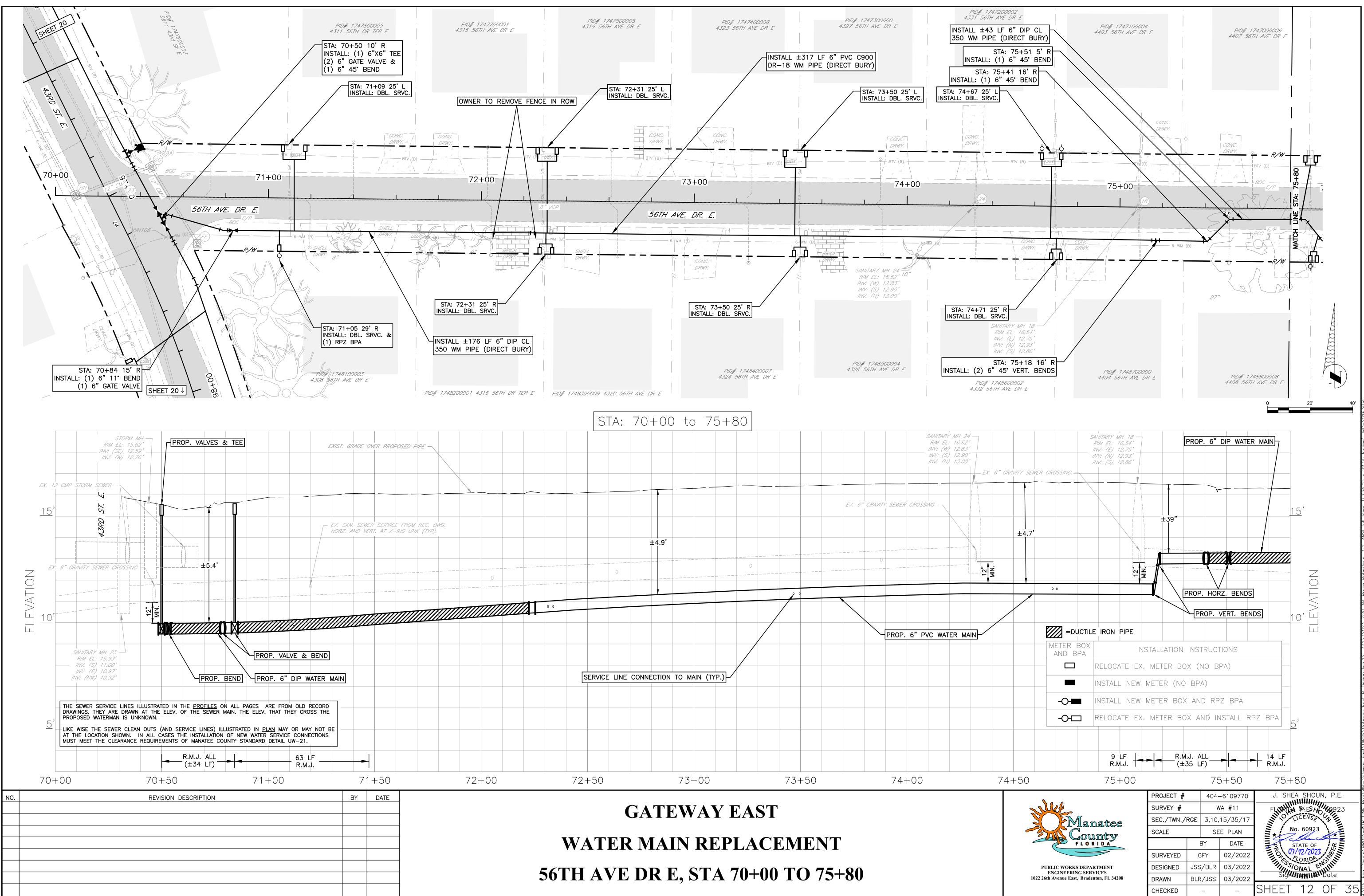
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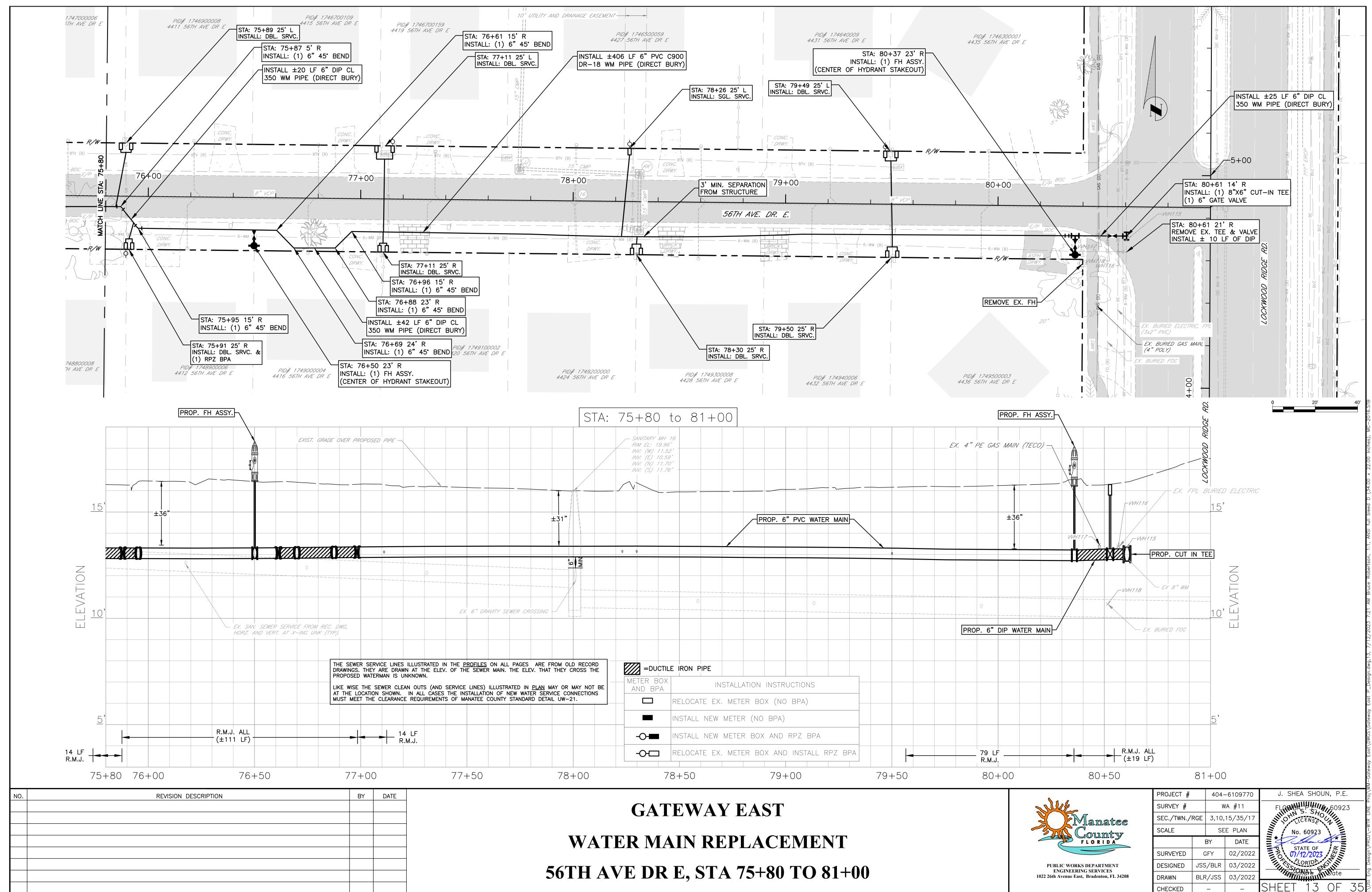
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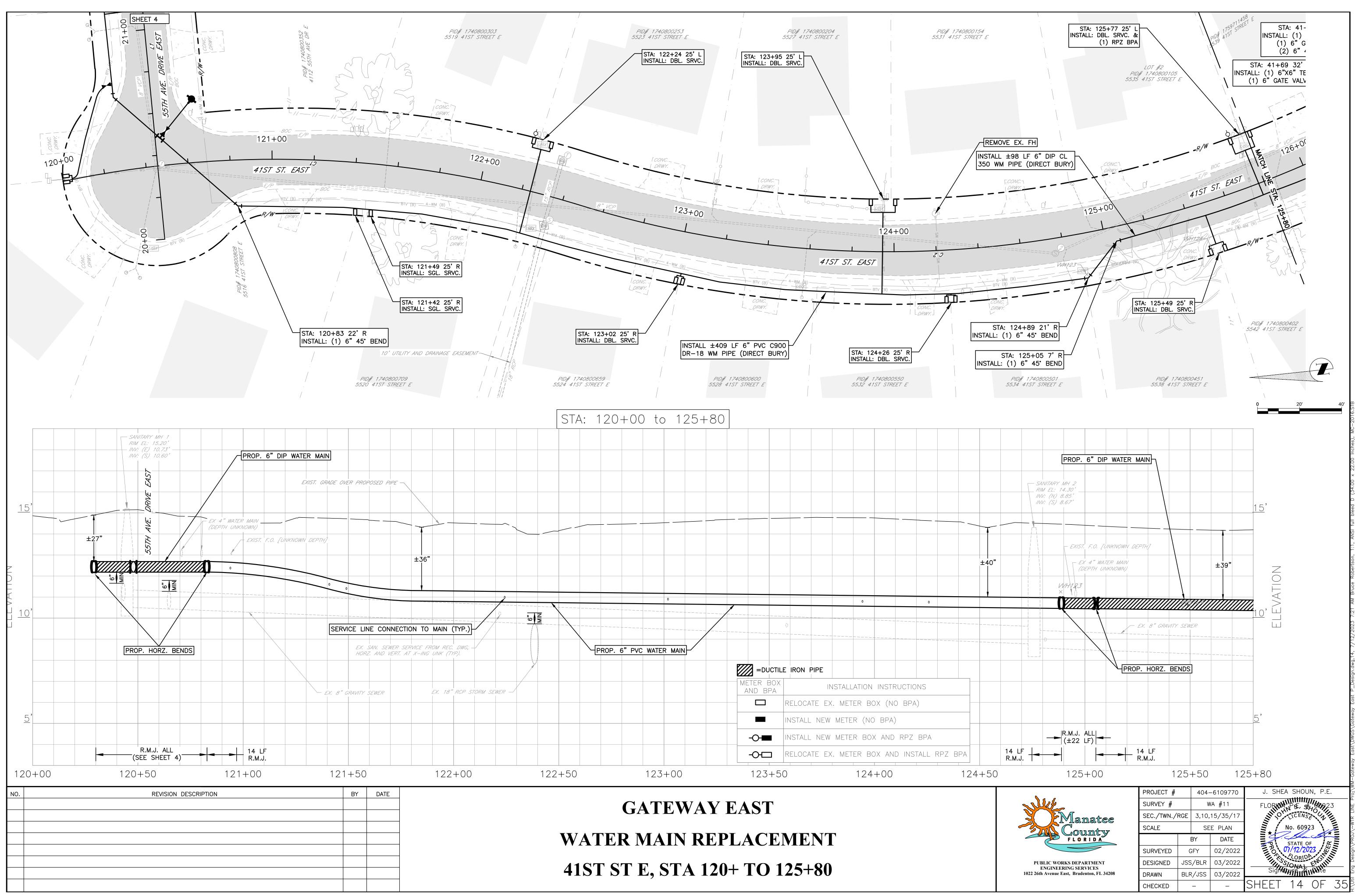
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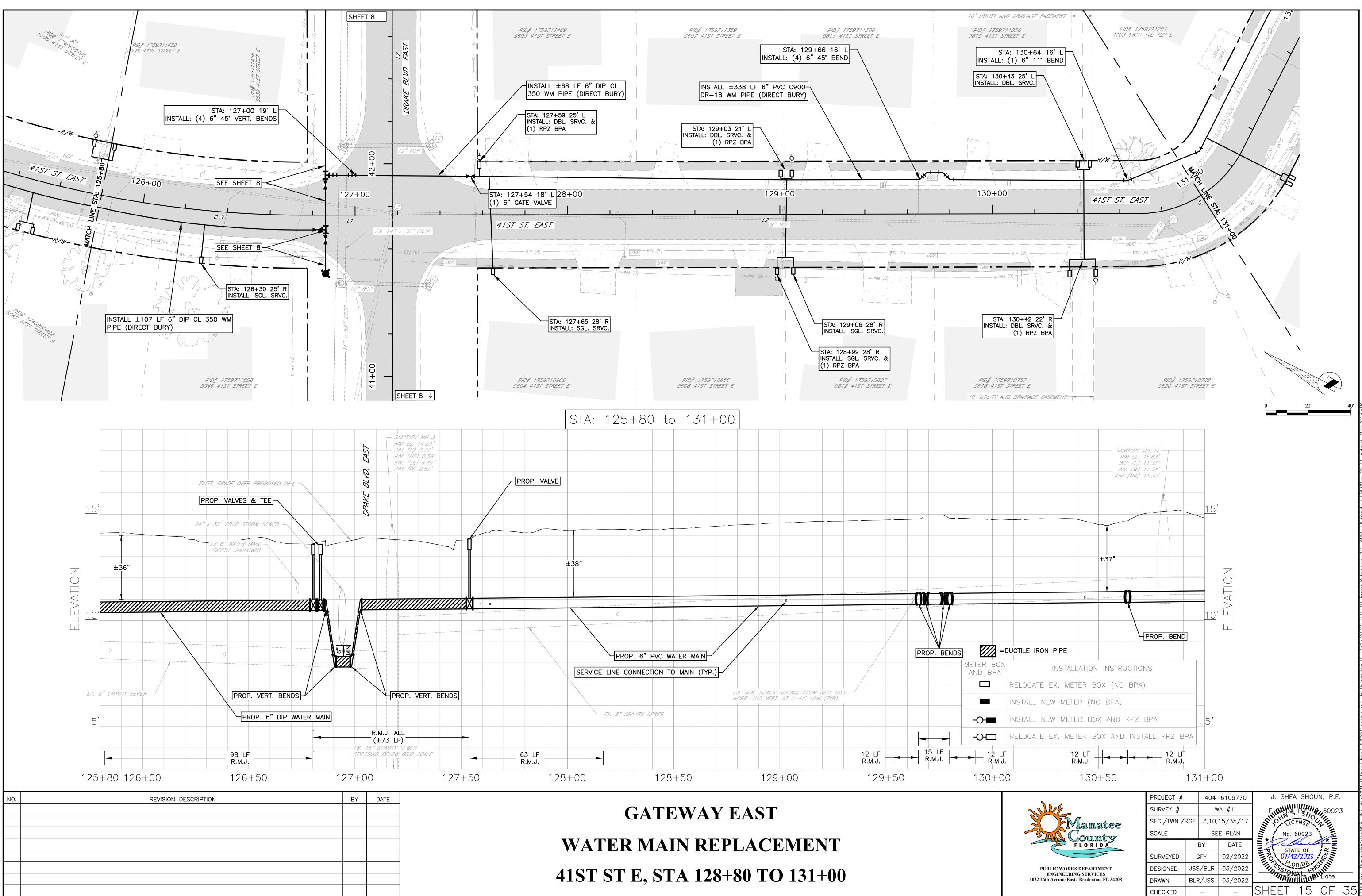
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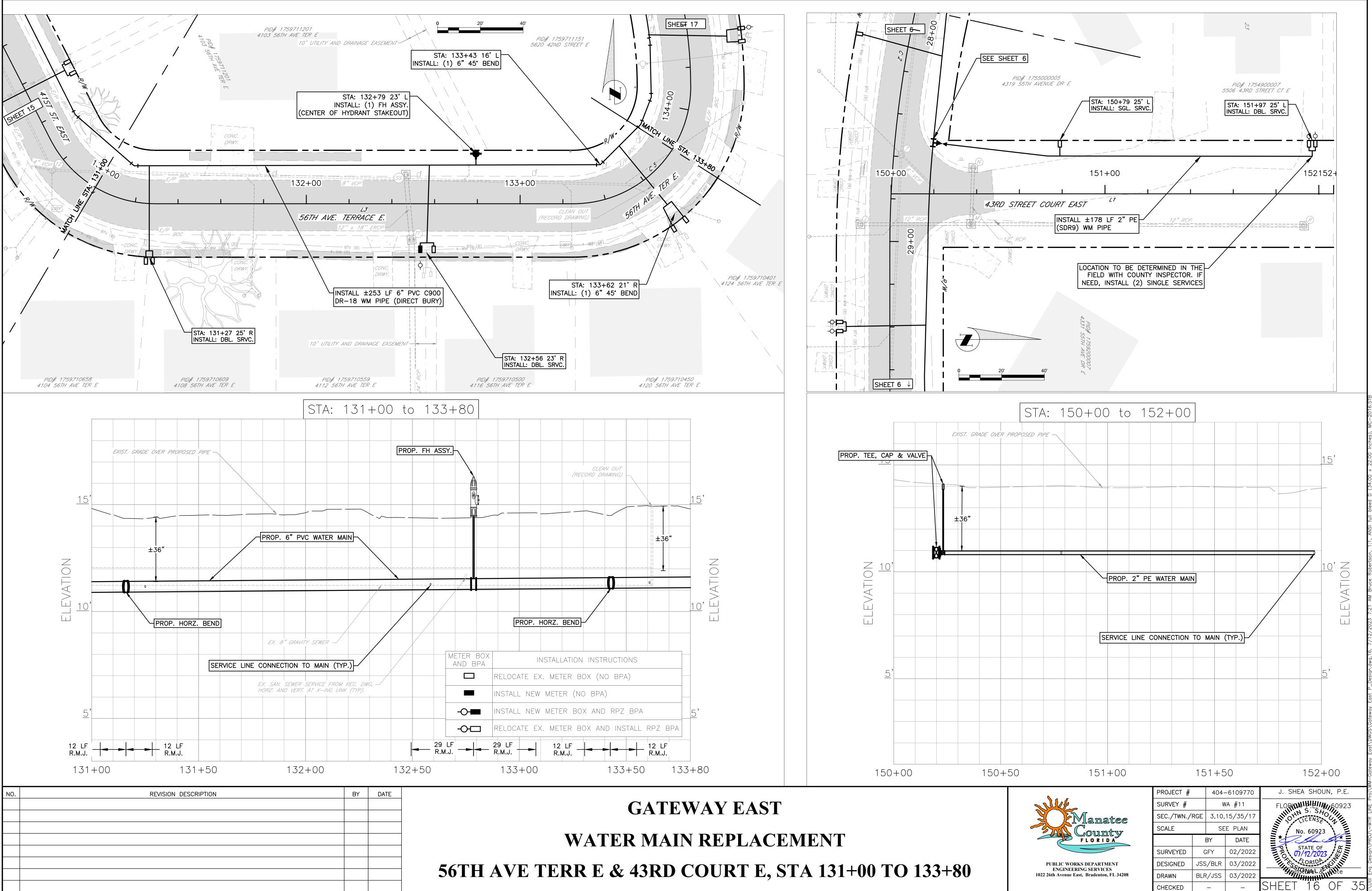


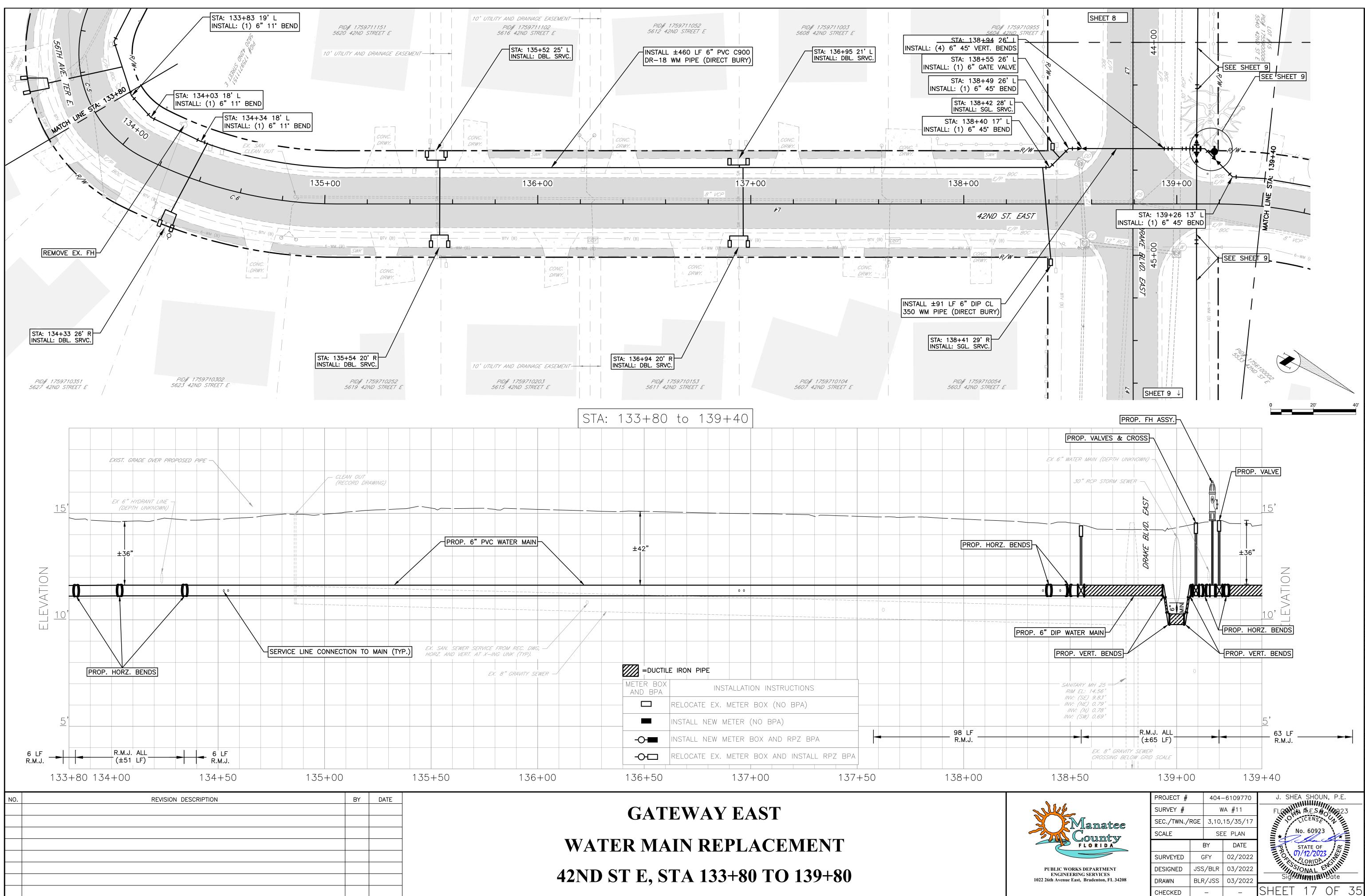








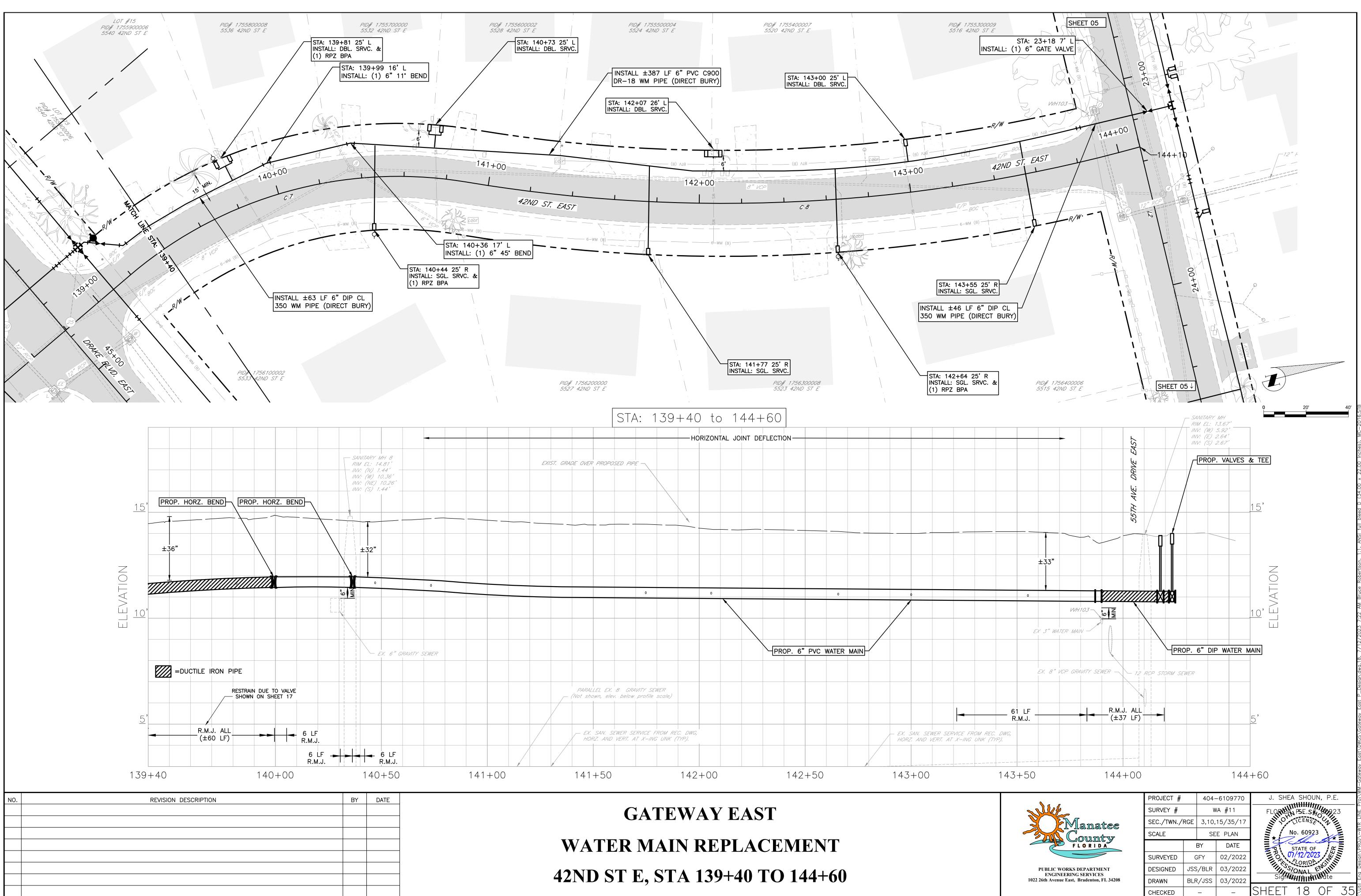


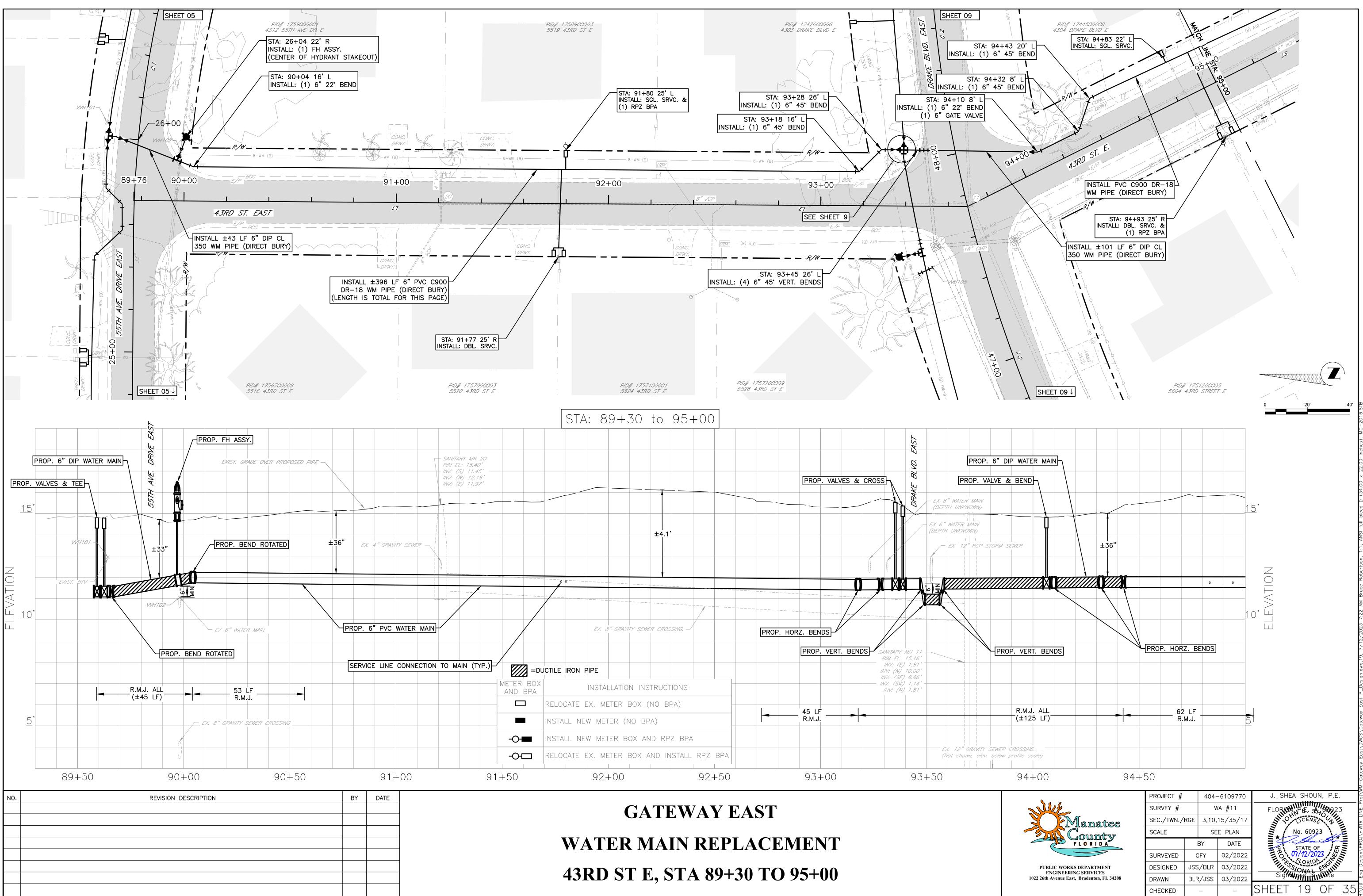


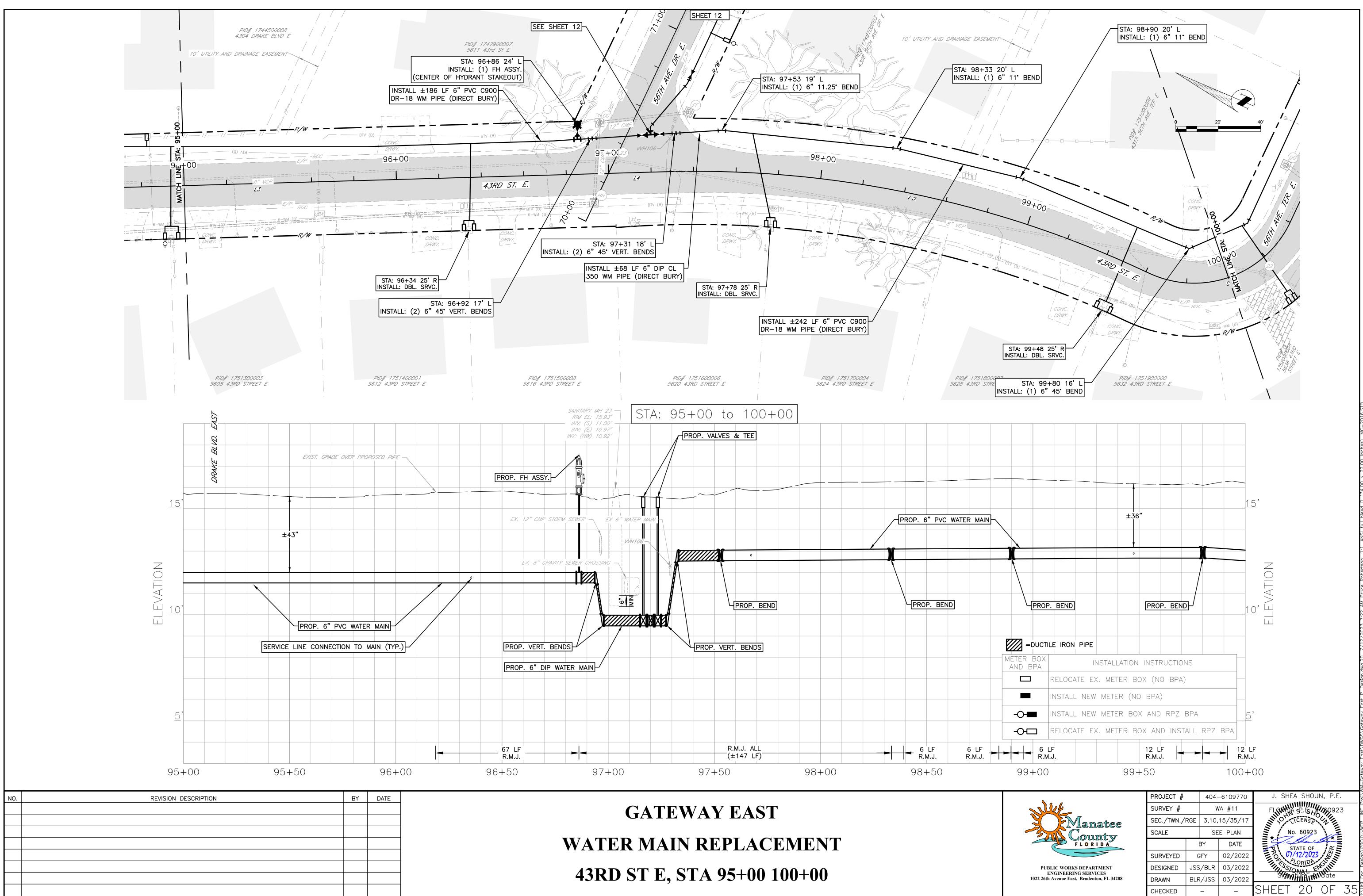
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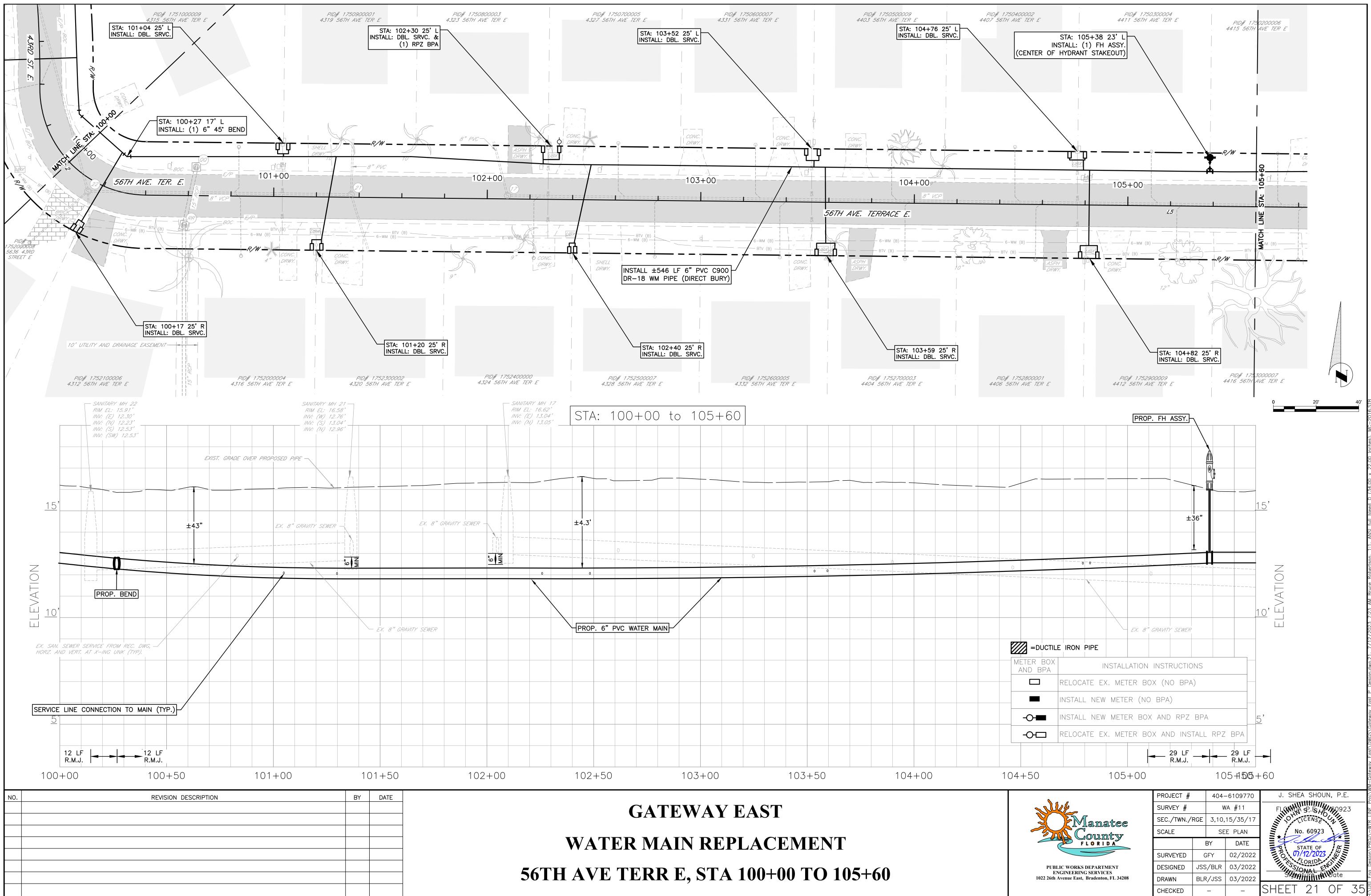
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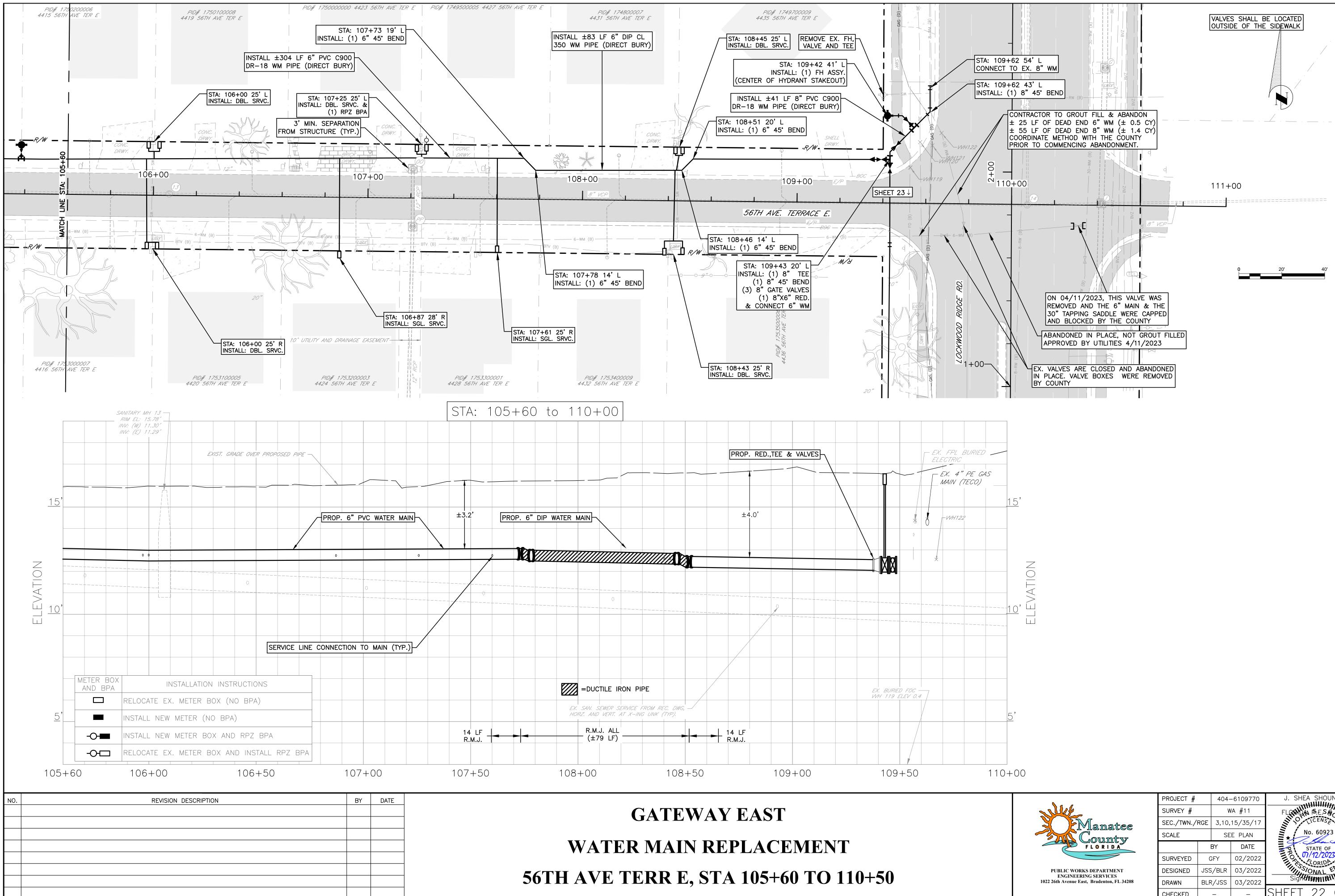
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PROJECT # 404-		404-	-6109770	J. SHEA SHOUN, P.E.
SURVEY # W		/A #11	FLORIDAN P.E.S.H 000823	
SEC./TWN./RGE		3,10,	15/35/17	FLOWERN P.E.S. HO 60923
SCALE		SE	E PLAN	No. 60923
		BY	DATE	D STATE OF
SURVEYED		GFY	02/2022	07/12/2023
DESIGNED	JSS	S/BLR	03/2022	
DRAWN	BLF	R/JSS	03/2022	Signationellist
CHECKED		-	_	SHEET 22 OF 35

PID# 1766901059

MÄNATEE COUNTY

<u>8" HIGH PRESSURE GAS MAIN CROSSING</u>

PRIOR TO EXCAVATING WITHIN 15 FEET OF THE HIGH PRESSURE GAS MAIN.

- 1) MAKE SURE 811 HAS BEEN CONTACTED FOR THE PROPOSED EXCAVATION.
- 2) CONTACT CORY HODGSON OF FLORIDA GAS TRANSMISSION 575-703-8366.
- 3) DO NOT DIG UNTIL THE F.G.T. REPRESENTATIVE IS ON SITE.

WHEN INSTALLING THE NEW WATER MAIN UNDER THE GAS MAIN:

- 4) MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION WITH THE FITTINGS AS SHOWN THE ON PLAN.
- 5) THE USE OF ANY ADDITIONAL FITTINGS REQUIRES A GREATER SEPARATION DISTANCE FROM THE GAS MAIN. MAINTAIN A MINIMUM 24" OF VERTICAL SEPARATION IF ANY ADDITIONAL FITTINGS ARE USED BEYOND WHAT IS SHOWN, IN THIS AREA.

REVISION DESCRIPTION	BY	DATE
	REVISION DESCRIPTION	REVISION DESCRIPTION BY

GATEWAY EAST WATER MAIN REPLACEMENT LOCKWOOD RIDGE RD STA 0+00 TO 2+50

30' HOUSTON TEXAS GAS & OIL CORPORATION EASEMENT

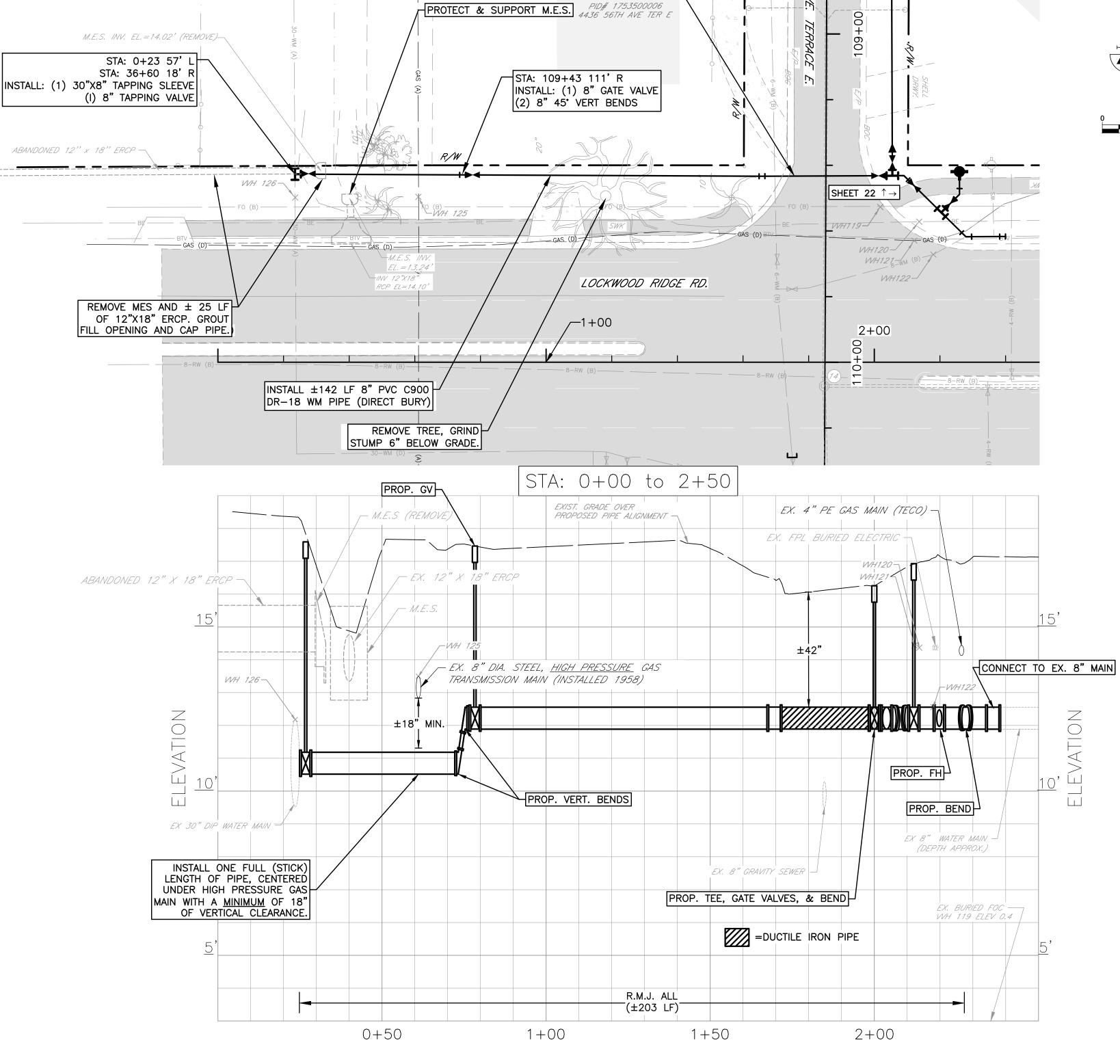
BOOK 399, P.G. 121

PID# 1766908359 BARRINGTON RIDGE

HOMEOWNERS ASSOC.

EX. 8" DIA. STEEL, HIGH PRESSURE GAS MAIN —

EX 30" DIP WATER MAIN —



INSTALL ±40 LF 8" DIP CL

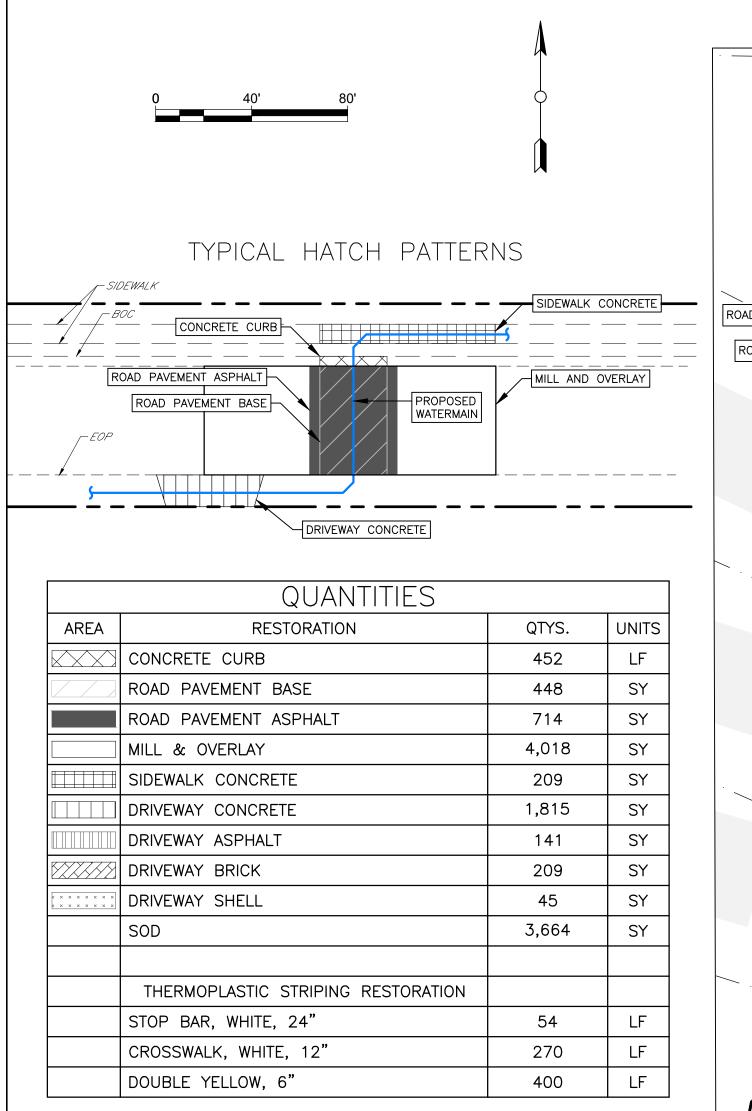
350 WM PIPE (DIRECT BURY)

4

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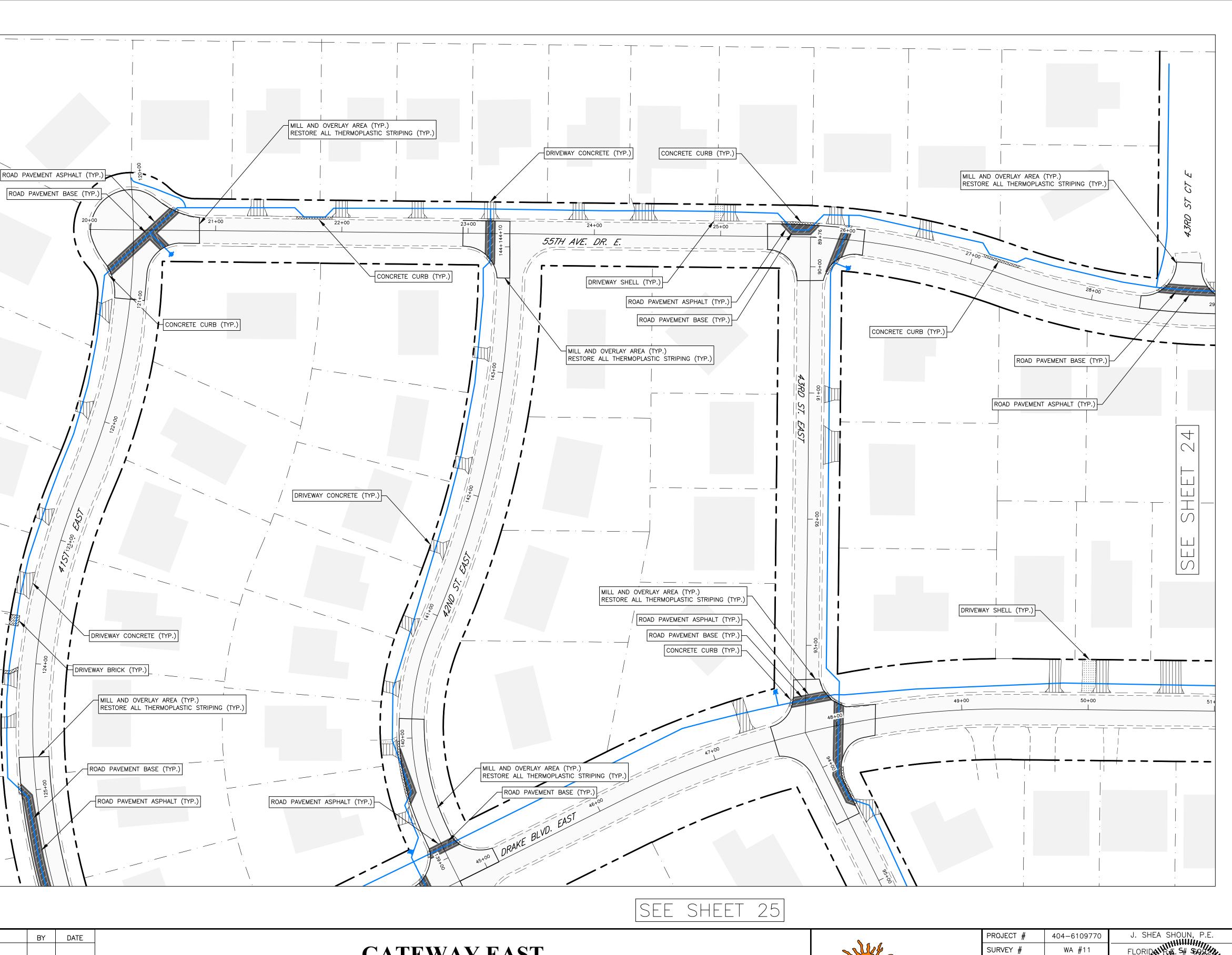
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PROJECT #	404-		-6109770	J. SHEA SHOUN, P.E.
SURVEY #		W	/A #11	FLORDA PSE.S# 00923
SEC./TWN./	RGE	3,10,	15/35/17	FLORD A FSE.SHOOD 23
SCALE		SE	E PLAN	No. 60923
		BY	DATE	
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DESIGNED	JSS	S/BLR	03/2022	SIGALAL EN IN
DRAWN	BLF	R/JSS	03/2022	Sig Hau And A
CHECKED		_	-	SHEET 23 OF 35



NOTES:

- 1. PAVING RESTORATION LIMITS ARE APPROXIMATE AND SUBJECT TO THE DIRECTION OF THE COUNTY FIELD REPRESENTATIVE.
- 2. SEE DETAIL SHEETS & CONTRACT DOCUMENTS FOR FURTHER INFORMATION ON PROJECT RESTORATION REQUIREMENTS.

23	24
25	26



NO.	REVISION DESCRIPTION	BY	DATE	

GATEWAY EAST WATER MAIN REPLACEMENT SITE RESTORATION

Manatee Gounty FLORIDA

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

PROJECT #		404-	-6109770	J. SHI
SURVEY #		W	/A #11	FLORID
SEC./TWN./	RGE	3,10,	15/35/17	
SCALE		SE	E PLAN	
		BY	DATE	
SURVEYED	C	GFY	02/2022	
DESIGNED	JSS	S/BLR	03/2022	
DRAWN	BLR/JSS		03/2022	Sign
CHECKED		_	_	SHEET

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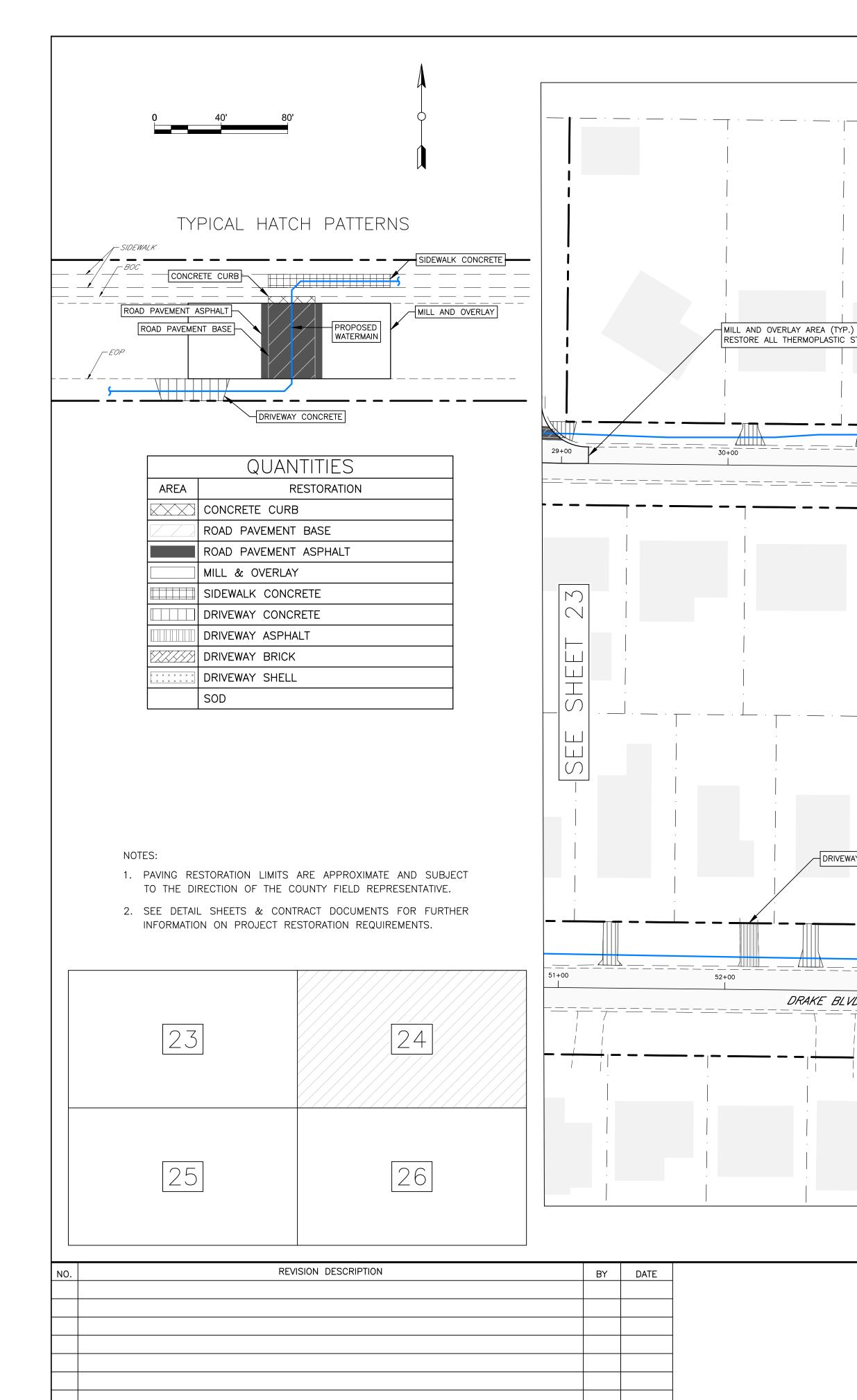
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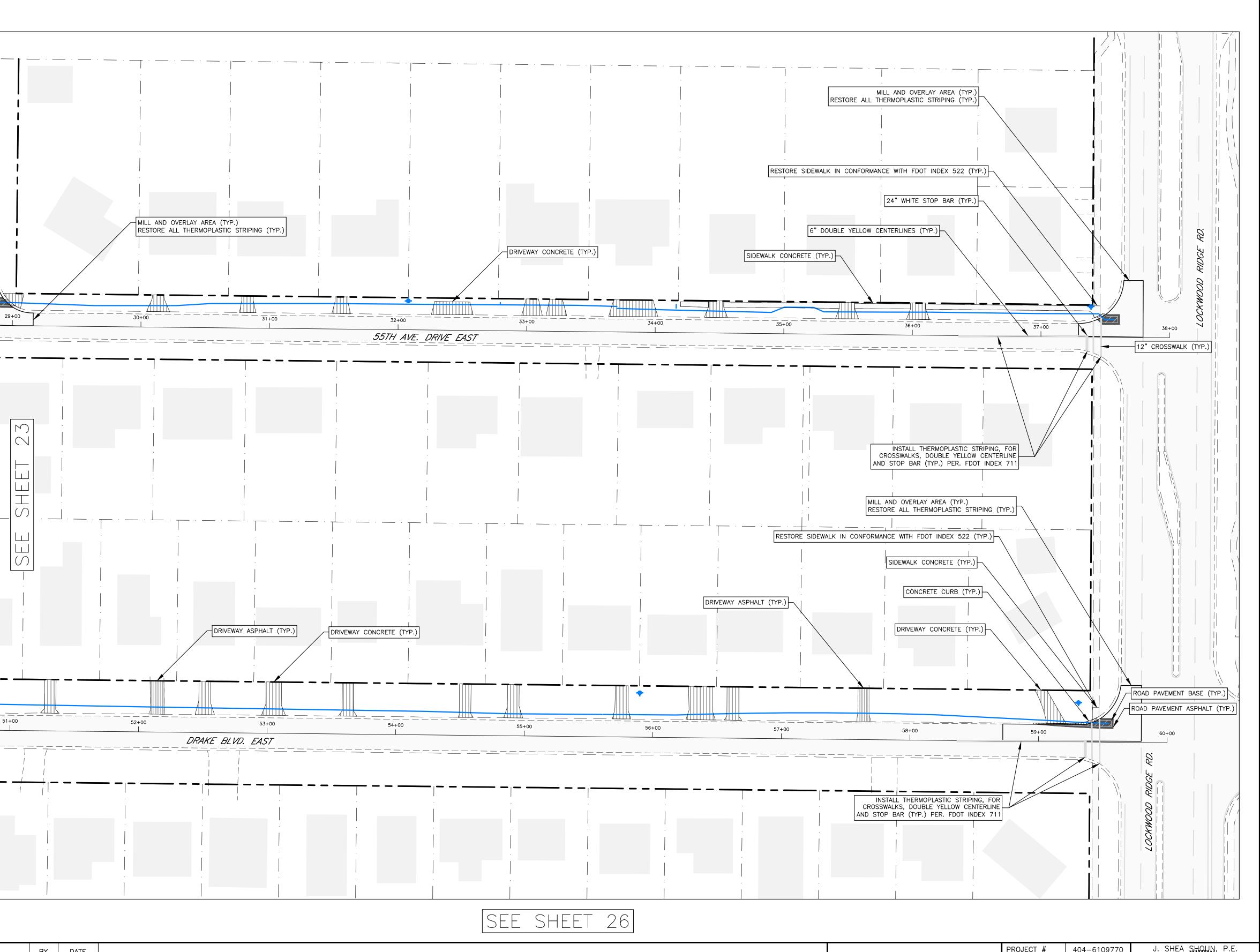
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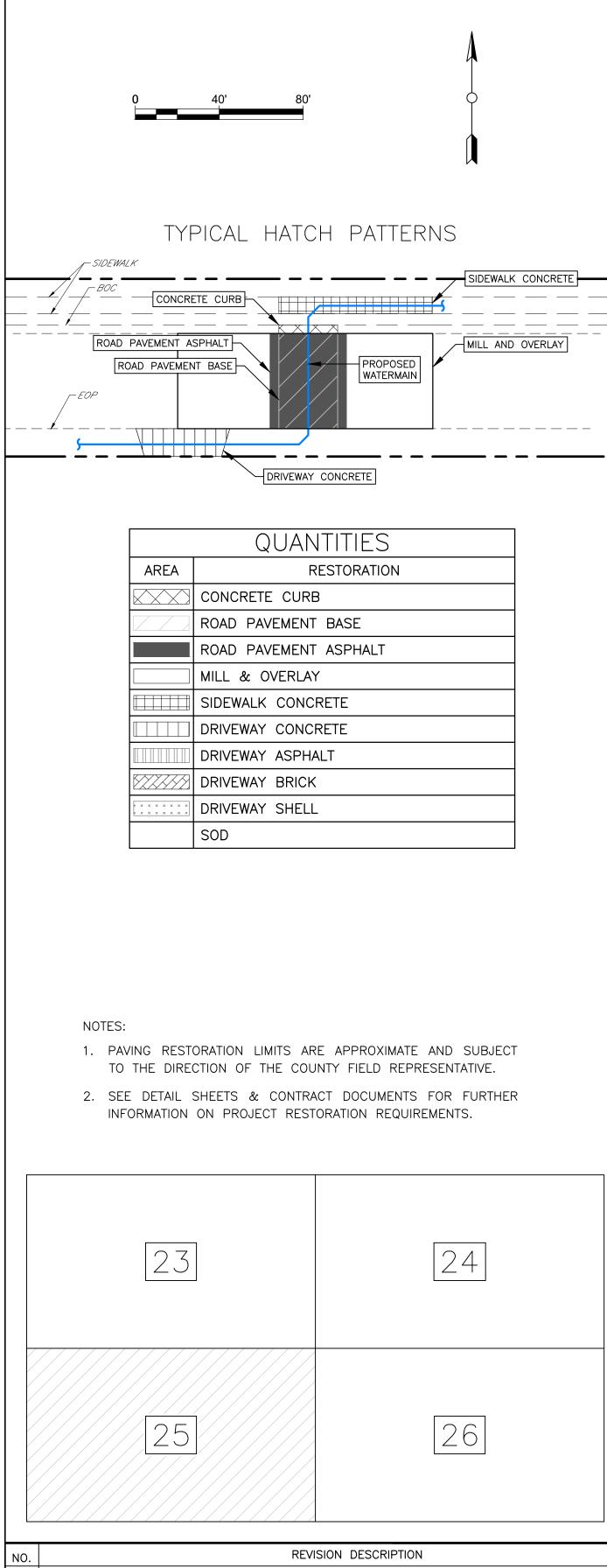
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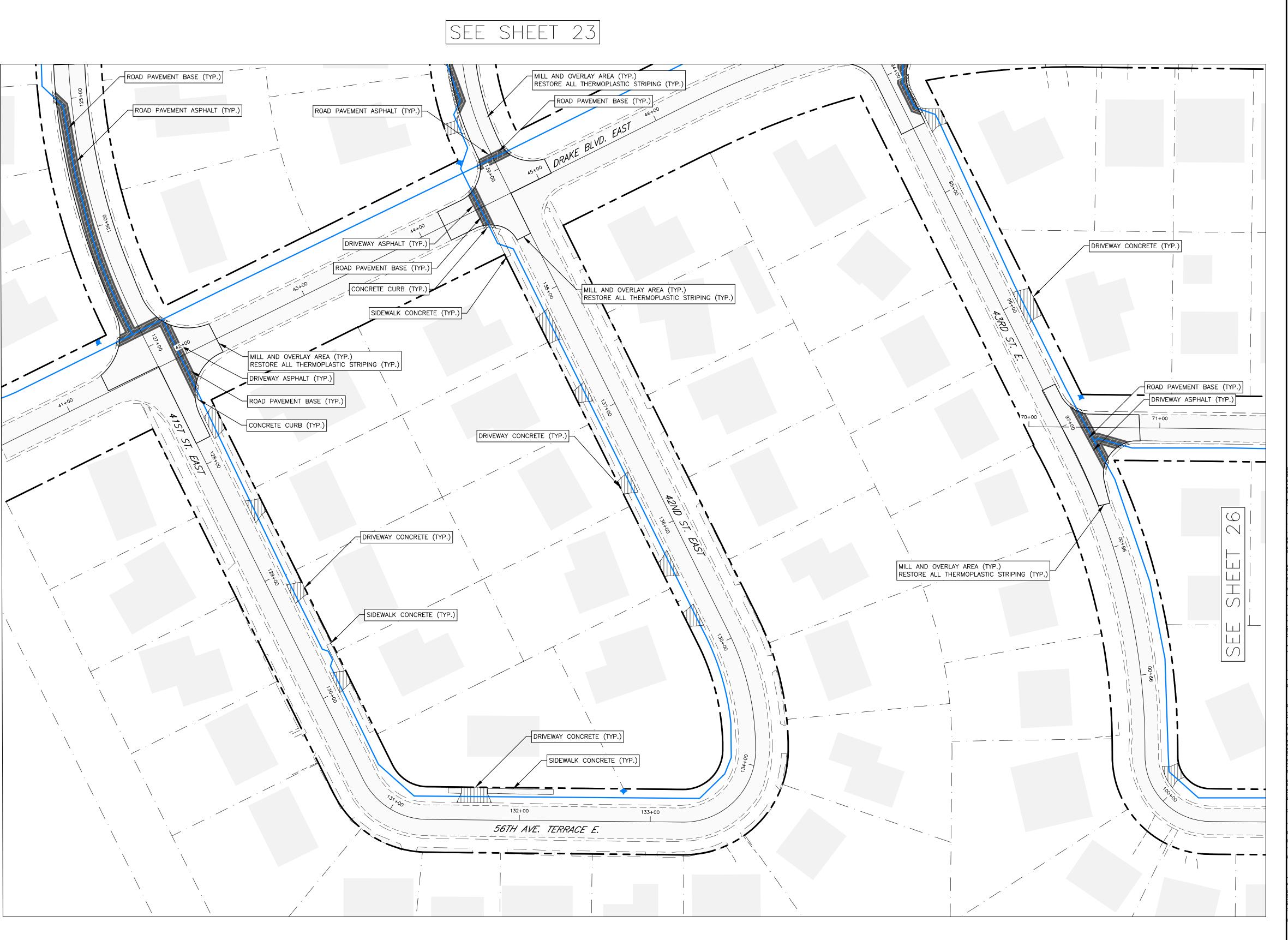




GATEWAY EAST WATER MAIN REPLACEMENT SITE RESTORATION

					NA N	-
	PROJECT #		404-	-6109770	J. SHEA SHOUN, P.E.	5
- Alles	SURVEY #		W	/A #11	FLORNANE F. F. TO STA	1
Manatee	SEC./TWN./I	RGE	3,10,	15/35/17	LICENSE N	i :
County	SCALE		SE	E PLAN	No. 60923	:
FLORIDA			BY	DATE	STATE OF	
	SURVEYED	0	βFY	02/2022	C S S LORIDA	
PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES	DESIGNED	JSS	/BLR	03/2022	ONAL CINING P	ת נ
1022 26th Avenue East, Bradenton, FL 34208	DRAWN	BLF	R/JSS	03/2022	Signature	i
	CHECKED		_	_	SHEET 25 OF 35	



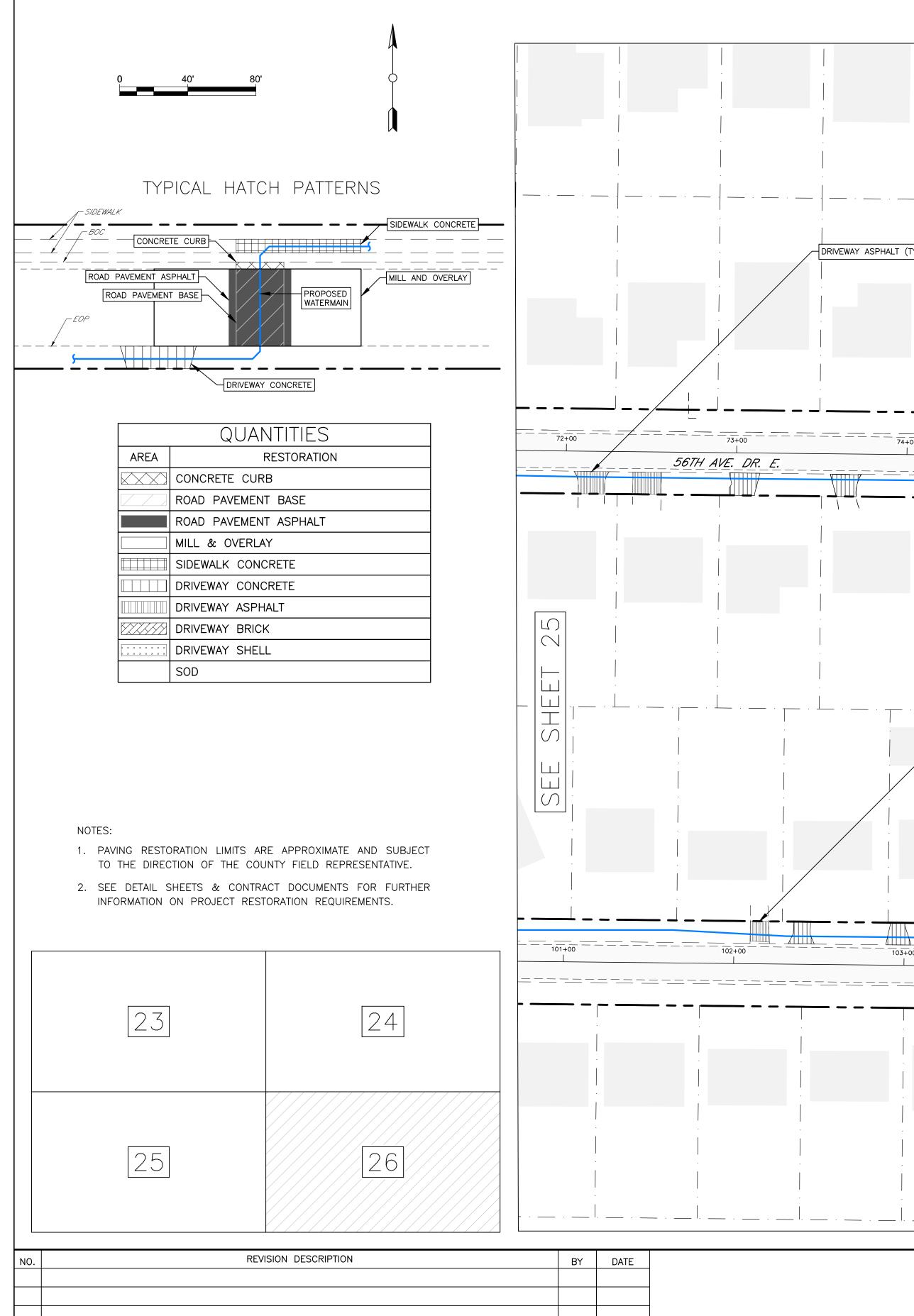


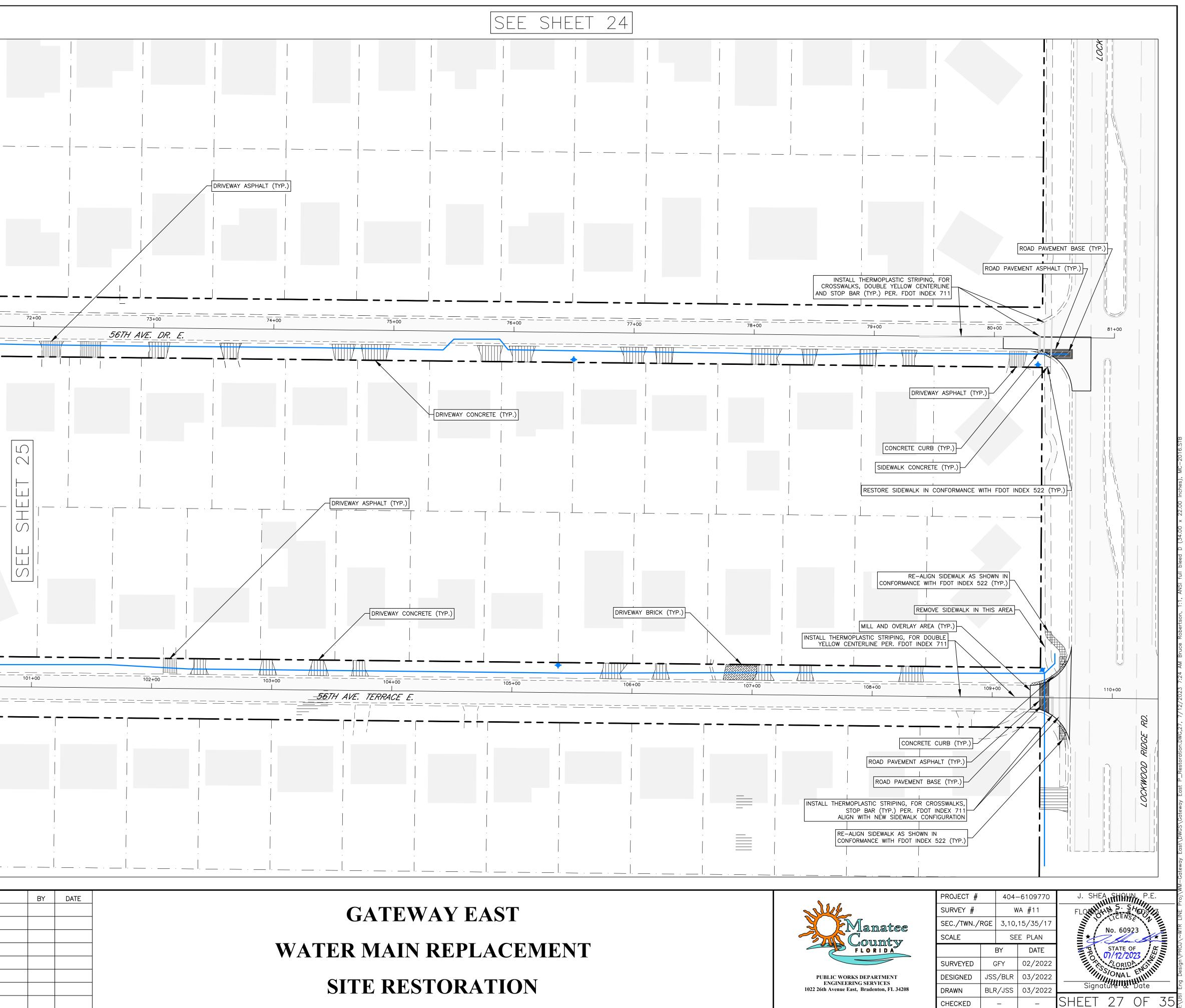
NO.	REVISION DESCRIPTION	BY	DATE

GATEWAY EAST WATER MAIN REPLACEMENT SITE RESTORATION

	PROJECT #		404-	-6109770	J. SHE	AURHOU	MILP.E	
Neg.	SURVEY #		W	/A #11	FLORIDA	FIEEN	E 6092	
Manatee	SEC./TWN./RG		3,10,15/35/17			No. 609	23	
County	SCALE		SEE PLAN			STATE (
FLORIDA			BY	DATE	RON	07/12/2	023	
	SURVEYED G		GFY 02/2022			SIONAL	ENGIN	N
PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES	DESIGNED	JSS	/BLR	03/2022			Junn.	
1022 26th Avenue East, Bradenton, FL 34208	DRAWN	BLF	R/JSS	03/2022	Signo	iture &	Date	L
	CHECKED		_	_	SHEET	26	OF	35

sign/PROJ/~WIR LINE Proj/WM-Gateway East/DWGS/Gateway East P_Kestoration.DWG;26, //12/2023 /:24 AM Bruce Robertson, 1:1, ANSI tull bleed D (34.00 x 22.00 Inches), MC-





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THE INFORMATION BELOW IS EXTRACTED FROM GEORGE F YOUNG SURVEYORS REPORT FOR THE PURPOSE OF CONSTRUCTION. THE FULL SURVEYORS REPORT AND CAD DELIVERABLES ARE AVAILABL MANATEE COUNTY, PUBLIC WORKS DEPARTMENT, CIP DESIGN & REVIEW DIVISION, UT

- 1. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT. THIS IS NOT A BOUNDARY SURVEY.
- 2. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF THE RECORD DOCUMENTS AS SHOWN AND STATED HEREON, ALL OF THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA.
- 3. THE OWNERS AND RECORDING INFORMATION FOR ADJACENT PROPERTIES ARE PER THE MANATEE COUNTY PROPERTY APPRAISER'S WEBSITE ON 8/16/2021. PROPERTY LINES, RIGHT OF WAY LINES AND EASEMENTS SHOWN HEREIN SHOULD BE CONSIDERED APPROXIMATE.
- 4. THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1" = 40' OR SMALLER.
- 5. RIGHT-OF-WAY LINES SHOWN ARE TO BE CONSIDERED APPROXIMATE BASED ON LAST DEED OF RECORD OR PLAT RECORD(S) OF ADJOINING PROPERTIES. THE PURPOSE OF THIS SURVEY WAS NOT INTENDED TO BE CONSTRUED AS DETERMINATION OF THE RIGHT-OF-WAY.
- 6. BEARINGS AND COORDINATES (IN U.S. SURVEY FEET) ARE BASED ON NATIONAL GEODETIC SURVEY (NGS), FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) 2011 ADJUSTMENT.
- 7. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. ELEVATIONS ARE RELATIVE TO MANATEE COUNTY SURVEY DEPARTMENT BENCHMARK "DESOTO" HAVING AN ELEVATION OF 18.77 FEET.
- 8. GEORGE F. YOUNG, INC. AND THE UNDERSIGNED MAKE NO REPRESENTATIONS OR GUARANTEES PERTAINING TO EASEMENTS, RIGHTS-OF-WAY, SET BACK LINES, RESERVATIONS AND/OR AGREEMENTS.
- 9. THE SURVEY BASELINES SHOWN HEREIN ARE MONUMENTED EVERY 100 FOOT STATION WITH A NAIL AND DISK LABELED "GFY BASELINE". THE BEGINNING, END AND CHANGE IN DIRECTIONS OF THE BASELINE ARE MONUMENT WITH REFERENCES. THESE REFERENCES CAN BE FOUND ON SHEET 6. 10. THE PRINTED DIMENSIONS SHOWN ON THIS SURVEY SUPERSEDE ANY SCALED DIMENSIONS; THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.
- 11. THIS SURVEY HAS BEEN EXCLUSIVELY PREPARED FOR THE NAMED ENTITIES SHOWN HEREON AND IS NOT TRANSFERABLE. NO OTHER PERSON OR ENTITY IS ENTITLED TO RELY UPON AND/OR RE-USE THIS SURVEY FOR ANY PURPOSE WITHOUT THE EXPRESSED, WRITTEN CONSENT OF GEORGE F. YOUNG, INC. AND THE UNDERSIGNED PROFESSIONAL SURVEYOR AND MAPPER.
- 12. UNAUTHORIZED COPIES AND/OR REPRODUCTIONS VIA ANY MEDIUM OF THIS SURVEY OR ANY PORTIONS THEREOF ARE EXPRESSLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF GEORGE F. YOUNG, INC. AND THE UNDERSIGNED PROFESSIONAL SURVEYOR AND MAPPER.
- 13. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES ARE PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- 14. THIS SURVEY IS VALID AS TO THE LAST DATE OF FIELD SURVEY AND NOT THE SIGNATURE DATE (IF ANY).
- 15. THERE MAY BE ADDITIONAL EASEMENTS, RESERVATIONS, RESTRICTIONS AND/OR OTHER MATTERS OF RECORD AFFECTING THIS PROPERTY THAT ARE NOT SHOWN HEREON THAT MAY (OR MAY NOT) BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. THE UNDERSIGNED HAS NOT PERFORMED AN INDEPENDENT SEARCH FOR ADDITIONAL RECORDS. 16. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEAL OF A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER.

INFORMATION USED FOR DETERMINATION OF EASEMENTS/PROPERTY LINES/RIGHT OF WAY LINES

BRADEN RIVER CITY UNIT NO. 1 PB 12 PG 69 GATEWAY EAST UNIT 5 PB 18 PG 42

GATEWAY EAST UNIT 5 PB 13 PG 55

			42ND	STE-	56TH AVE	TERR E – 41ST	ST E			
SEGMENT	LINE/CHORD BEARING	LINE LENGTH	CHORD LENGTH	ARC LENGTH	RADIUS	START TANGENT	START STATION	END STATION	START NORTHING EASTING	END NORTHING EASTING
C1	S08°32'05.73"W		243.24'	245.80'	490.73'	S05°48'51.83"E	120+00.00	122+45.80	1,130,616.5382 490,477.0188	1,130,616.5382 490,477.0188
C2	S03°19'14.35"W		342.28'	349.50'	494.80'	S23°33'21.60"W	122+45.80	125+95.30	1,130,375.9946 490,440.9194	1,130,375.9946 490,440.9194
C3	S21°37'43.65"E		82.20'	82.29'	494.80'	S16°51'50.73"E	125+95.30	126+77.59	1,130,034.2893 490,421.0932	1,130,034.2893 490,421.0932
L1	S26°23'35.65"E	40.00'					126+77.59	127+17.59	1,129,957.8769 490,451.3915	1,129,922.0463 490,469.1726
L2	S26°23'35.65"E	351.30'					127+17.59	130+68.89	1,129,922.0463 490,469.1726	1,129,607.3643 490,625.3358
C4	S57°53'35.65"E		57.47'	60.47'	55.00'	S26°23'46.30"E	130+68.89	131+29.36	1,129,607.3643 490,625.3358	1,129,607.3643 490,625.3358
L3	S89°23'35.65"E	195.40'					131+29.36	133+24.76	1,129,576.8191 490,674.0163	1,129,574.7498 490,869.4054
C5	N45°36'24.35"E		77.78'	86.39'	55.00'	S89°23'40.28"E	133+24.76	134+11.16	1,129,574.7498 490,869.4054	1,129,574.7498 490,869.4054
C6	N12°52'03.63"W		93.62'	94.49'	200.87'	N00°36'30.32"E	134+11.16	135+05.65	1,129,629.1631 490,924.9835	1,129,629.1631 490,924.9835
L4	N26°23'38.58"W	413.79'					135+05.65	139+19.43	1,129,720.4337 490,904.1339	1,130,091.0872 490,720.1879
C7	N01°23'39.62"W		164.66'	170.00'	194.80'	N26°23'43.40"W	139+19.43	140+89.44	1,130,091.0872 490,720.1879	1,130,091.0872 490,720.1879
C8	N11°08'06.04"E		318.39'	320.92'	737.16'	N23°36'24.15"E	140+89.44	144+10.35	1,130,255.6970 490,716.1812	1,130,255.6970 490,716.1812

BASELINE HORIZONTAL CONTROL TABLE

NO. REVISION DESCRIPTION BY DAT	TE

SURVEY DATA

GATEWAY EAST WATER MAIN REPLACEMENT

SEGMENT	LINE/CHORD BEARING	LINE LENGTH	CHORD LENGTH	ARC LENGTH	RADIUS	START TANGENT	START STATION	END STATION	START NORTHING EASTING	END NORTHING EASTING
L1	S89°23'35.65"E	1100.00'					70+00.00	81+00.00	1,129,876.7735 491,133.7685	1,129,865.1 492,233.7

	DRAKE BLVD E												
SEGMENT	LINE/CHORD BEARING	LINE LENGTH	CHORD LENGTH	ARC LENGTH	RADIUS	START TANGENT	START STATION	END STATION	START NORTHING EASTING	END NORTHING EASTING			
L1	N63°36'24.35"E	175.88'					40+00.00	41+75.88	1,129,843.8616 490,311.6239	1,129,922.0463 490,469.1726			
L2	N63°40'09.64"E	149.98'					41+75.88	43+25.87	1,129,922.0463 490,469.1726	1,129,988.5722 490,603.5965			
L3	N63°36'24.35"E	175.01'					43+25.87	45+00.88	1,129,988.5722 490,603.5965	1,130,066.3690 490,760.3636			
L4	N63°31'54.01"E	124.99'					45+00.88	46+25.87	1,130,066.3690 490,760.3636	1,130,122.0771 490,872.2515			
C1	N69°59'54.57"E		148.41'	148.71'	666.45'	N63°36'21.07"E	46+25.87	47+74.58	1,130,122.0771 490,872.2515	1,130,122.0771 490,872.2515			
C2	N83°30'06.87"E		165.00'	165.42'	666.45'	N76°23'28.07"E	47+74.58	49+40.00	1,130,172.8386 491,011.7063	1,130,172.8386 491,011.7063			
L5	S89°23'03.81"E	1060.00'					49+40.00	60+00.00	1,130,191.5113 491,175.6428	1,130,180.1225 492,235.5810			

	56TH AVE TERR E - 43RD ST E CBL													
SEGMENT	LINE/CHORD BEARING	LINE LENGTH	CHORD LENGTH	ARC LENGTH	RADIUS	START TANGENT	START STATION	END STATION	START NORTHING EASTING	END NORTHING EASTING				
L1	SO0°36'24.35"W	246.26'					89+76.37	92+22.63	1,130,565.5709 491,015.8664	1,130,319.3227 491,013.2586				
L2	SO0°36'25.65"W	146.49'					92+22.63	93+69.12	1,130,319.3227 491,013.2586	1,130,172.8386 491,011.7063				
L3	S26°22'53.98"E	330.78'					93+69.12	96+99.90	1,130,172.8386 491,011.7063	1,129,876.5096 491,158.6871				
L4	S26°23'35.65"E	26.47'					96+99.90	97+26.37	1,129,876.5096 491,158.6871	1,129,852.7987 491,170.4538				
C1	S12°54'13.59"E		232.84'	235.01'	498.33'	S26°24'50.41"E	97+26.37	99+61.38	1,129,852.7987 491,170.4538	1,129,852.7987 491,170.4538				
C2	S44°23'23.73"E		70.73'	78.57'	50.00'	SO0°37'44.81"W	99+61.38	100+39.96	1,129,625.8398 491,222.4501	1,129,625.8398 491,222.4501				
L5	S89°23'35.65"E	1060.04'					100+39.96	111+00.00	1,129,575.2934 491,271.9313	1,129,564.0677 492,331.9156				

	55TH AVE DR E												
SEGMENT	LINE/CHORD BEARING	LINE LENGTH	CHORD LENGTH	ARC LENGTH	RADIUS	START TANGENT	START STATION	END STATION	START NORTHING EASTING	END NORTHING EASTING			
L1	S89°27'11.79"E	183.51'					20+00.00	21+83.51	1,130,571.4285 490,444.5988	1,130,569.6775 490,628.1016			
L2	S89°23'37.26"E	363.17'					21+83.51	25+46.68	1,130,569.6775 490,628.1016	1,130,565.8344 490,991.2474			
C1	S80°30'21.42"E		176.81'	177.66'	522.10'	N89°44'44.46"E	25+46.68	27+24.34	1,130,565.8344 490,991.2474	1,130,565.8344 490,991.2474			
C2	S79°35'55.79"E		177.53'	178.39'	521.99'	S69°48'29.39"E	27+24.34	29+02.73	1,130,536.6711 491,165.6321	1,130,536.6711 491,165.6321			
L3	S89°23'35.65"E	897.26'					29+02.73	38+00.00	1,130,504.6203 491,340.2426	1,130,495.1185 492,237.4554			

L3	S89°23'35.65"E	897.26'					29+02.73	38+00.00	1,130,504.6203 491,340.2426	1,130,495.1185 492,237.4554
					43RD ST	T CT E				
SEGMENT	LINE/CHORD BEARING	LINE LENGTH	CHORD LENGTH	ARC LENGTH	RADIUS	START TANGENT	START STATION	END STATION	START NORTHING EASTING	END NORTHING EASTING
L1	N00°36'24.35"E	206.93'					150+00.00	152+06.93	1,130,505.4857 491,315.2504	1,130,712.4049 491,317.4417

ort f	FOR THE	PURPOSE	OF
_E UP	ON REQ	UEST, FRO	M THE
TILITY	ENGINE	ERING SEC	TION.

BASELINE HORIZONTAL CONTROL TABLES



PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 3420

PROJECT #		404-	-6109770	J. SHEA SHOUN, P.E.
SURVEY #		W	/A #11	RUBA BAO AN 60923
SEC./TWN./	RGE	3,10,	15/35/17	TICENSE 7
SCALE			N.T.S	No. 60923
		BY	DATE	D STATE OF
SURVEYED	0	θFY	02/2022	07/12/2023
DESIGNED	JSS	/BLR	03/2022	SIONAL ENTIT
DRAWN	BLR/JSS		03/2022	Engli Atwink Date
CHECKED		_	_	SHEET 28 OF 35
	SURVEY # SEC./TWN./ SCALE SURVEYED DESIGNED DRAWN	SURVEY # SEC./TWN./RGE SCALE SCALE SURVEYED CO DESIGNED JSS DRAWN BLF	SURVEY # W SEC./TWN./RGE 3,10, SCALE 5 SURVEYED BY SURVEYED GFY DESIGNED JSS/BLR DRAWN BLR/JSS	SURVEY # WA #11 SEC./TWN./RGE $3,10,15/35/17$ SCALE N.T.S SURVEYED BY DATE SURVEYED GFY 02/2022 DESIGNED JSS/BLR 03/2022 DRAWN BLR/JSS 03/2022

SUE / VVH TABLE

Organization: GFY Project Name: 19Y15611LS Project Date: 1/31/2023

				Utililty				Ex. Ground	T.O.P.	Measure	
V.V.H	Description	Diameter	Material	Туре	XY Source	Easting	Northing	Elevation	Elevation	Down (ft)	Utility Owner
#		(in)				(ft)	(ft)	(ft)	(ft)	(ft)	
101	Fiber Optic Cable	1.5"	Cable	FOC	GPS	491052.8	1130578.1	15.03'	12.97'	2.06'	Froniter
102	Water Main	6"	Asbestos-cement	WM	GPS	491039.1	1130543.6	14.95'	11.05'	3.90'	Manatee Co
103	Water Main	6"	Asbestos-cement	WM	GPS	490756.5	1130547.7	13.63'	9.97'	3.66'	Manatee Co
104	Water Main	8"	Asbestos-cement	WM	GPS	490743.9	1130089.3	14.61'	10.56'	4.05'	Manatee Co
105	Water Main	6"	Asbestos-cement	WM	GPS	490983.5	1130189.4	15.74'	11.59'	4.15'	Manatee Co
106	Water Main	6"	Asbestos-cement	WM	GPS	491185.7	1129857.2	15.78'	12.31'	3.47'	Manatee Co
107	Water Main	8"	PVC	WM	GPS	492194.9	1130514.2	15.33'	12.18'	3.15'	Manatee Co
108	Buried Electric x 3	2"	PVC	BE	GPS	492190.1	1130512.3	15.29'	12.53'	2.76'	Florida Power
109	Gas Main	4"	Poly	GM	GPS	492185.4	1130508.0	15.37'	12.71'	2.66'	TECO
110	Fiber Optic Cable	NFV	Cable	FOC	GPS	492180.5	1130507.9	15.34'	4.34'	11.00'	Zayo
111	Buried Electric x 3	2"	PVC	BE	GPS	492189.2	1130199.9	15.89'	12.99'	2.90'	Florida Power
112	Water Main	8"	PVC	WM	GPS	492188.7	1130199.9	15.90'	12.03'	3.87'	Manatee Co
113	Fiber Optic Cable	NFV	Cable	FOC	GPS	492184.6	1130196.2	15.90'	9.20'	6.70'	Zayo
114	Gas Main	4"	Poly	GM	GPS	492182.4	1130196.4	15.88'	12.53'	3.35'	TECO
115	Water Main	8"	PVC	WM	GPS	492194.2	1129849.9	16.40'	13.35'	3.05'	Manatee Co
116	Buried Electric x 3	2"	PVC	BE	GPS	492190.2	1129850.0	16.34'	13.39'	2.95'	Florida Power
117	Gas Main	4"	Poly	GM	GPS	492181.2	1129853.3	16.26'	13.47'	2.79'	TECO
118	Fiber Optic Cable	NFV	Cable	FOC	GPS	492185.2	1129852.1	16.23'	10.67'	5.56'	Zayo
119	ED119	NFV	NFV	NFV	GPS	492184.8	1129582.3	16.52'	-0.48'	17.00'	Zayo
120	Buried Electric x 3	2"	PVC	BE	GPS	492189.3	1129594.1	17.12'	14.37'	2.75'	Florida Power
121	Gas Main	4"	Poly	GM	GPS	492195.0	1129592.6	16.85'	14.44'	2.41'	TECO
122	Water Main	NFV	PVC	WM	GPS	492199.3	1129598.3	16.92'	12.56'	4.36'	Manatee Co
123	Water Main	6"	PVC	WM	GPS	490381.8	1130137.5	14.70'	11.25'	3.45'	Manatee Co
124	Water Main	6"	PVC	WM	GPS	490387.3	1130076.9	14.69'	10.49'	4.20'	Manatee Co

Organization: GFY Project Name: 19Y15611LS (Supplement) Project Date: 5/24/2023

				Utililty				Ex. Ground	T.O.P.	Measure	
V.V.H	Description	Diameter	Material	Туре	XY Source	Easting	Northing	Elevation	Elevation	Down (ft)	Utility Owner
#		(in)				(ft)	(ft)	(ft)	(ft)	(ft)	
125 (1)	High Pressure Gas Main	8"	Steel	GAS	GPS	492180.8	1129441.6	17.02'	13.50'	3.52'	Florida Gas Transmission
126 (2)	Water Main	30"	Assumed DIP	WM	GPS	492180.8	1129404.0	18.52'	12.18'	6.34'	Manatee Co

(1) Surveyors # VVH 101 (2) Surveyors # VVH 102

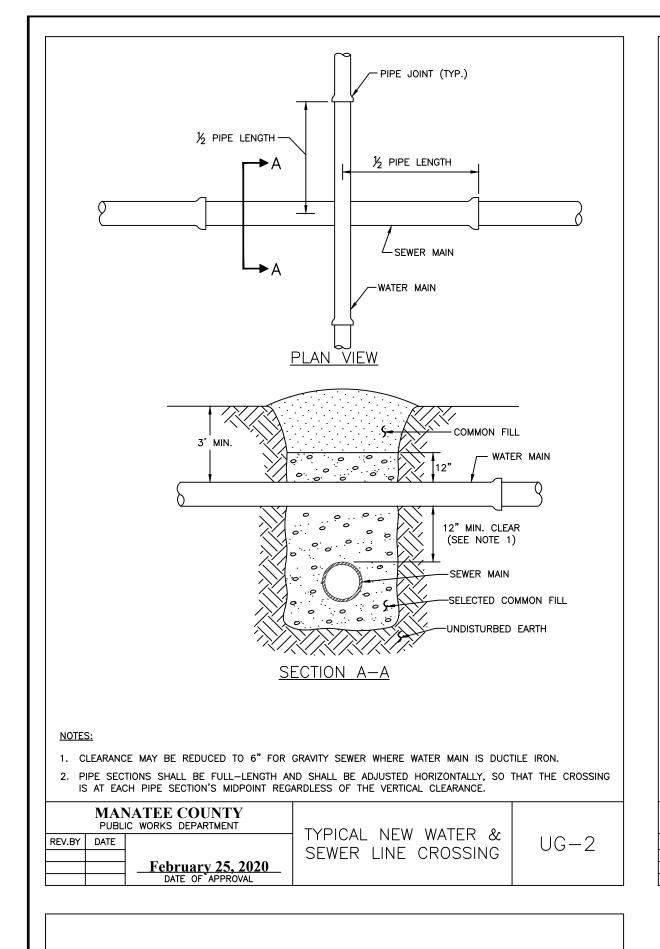
NO.	REVISION DESCRIPTION	BY	DATE

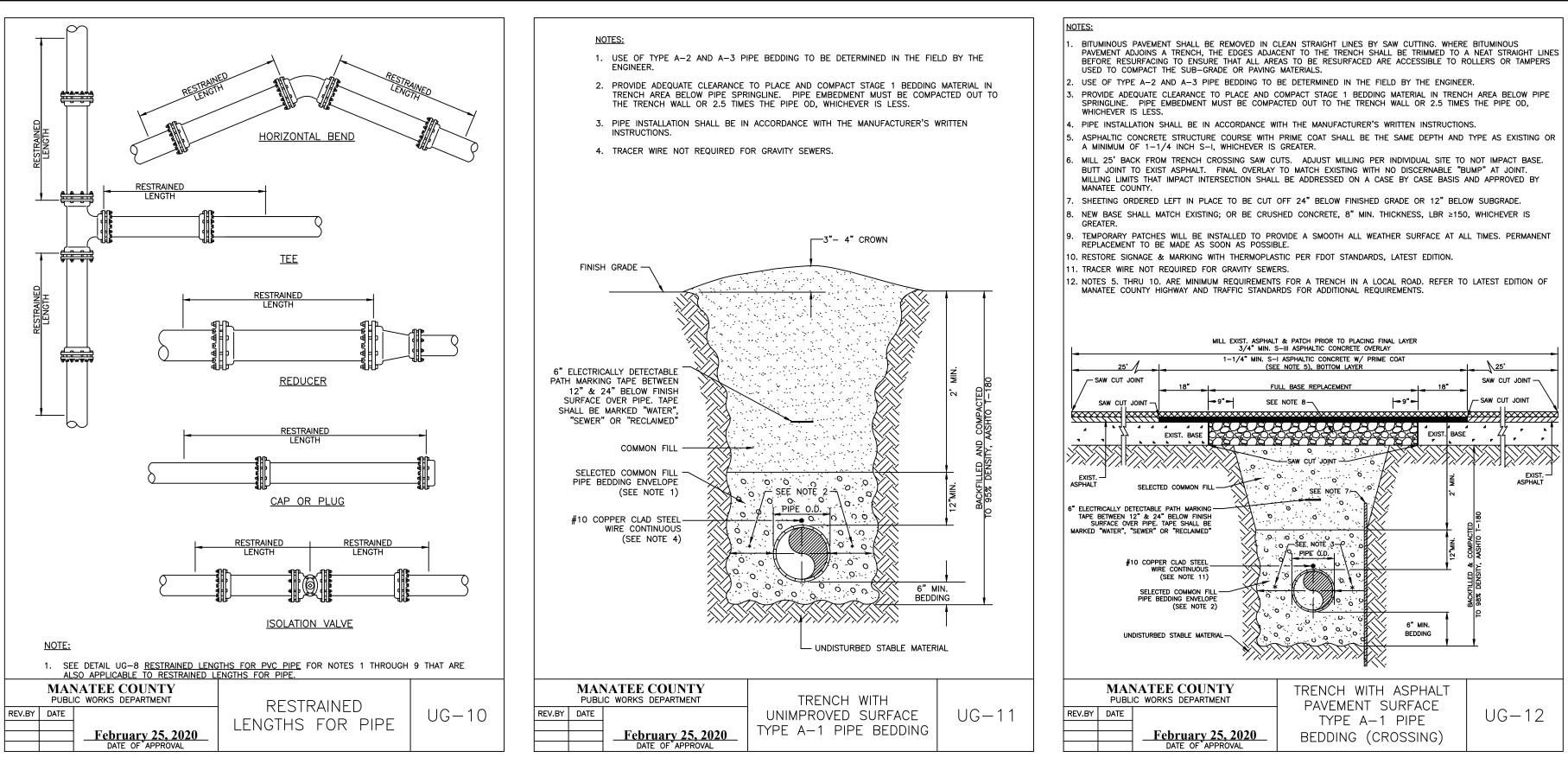
GATEWAY EAST WATER MAIN REPLACEMENT SUE DATA



PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

PROJECT #		404-	-6109770	J. SHEA SHOUN, P.E.
SURVEY #		WA #11		FLOAD AN 5-ES 140 80923
SEC./TWN./	RGE	3,10,	15/35/17	FLOR DA FESHO 80923 VICENSE No. 60923
SCALE			N.T.S	No. 60923
		BY	DATE	
SURVEYED		GFY	02/2022	10,07/12/2023
DESIGNED	JSS	6/BLR	03/2022	STATE OF 07/12/2023
DRAWN	BLR/JSS		03/2022	Signourne Date
CHECKED		_	_	SHEET 29 OF 35
			1	





REOUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DIP (POLY-WRAPPED)

PIPE	HOR	RIZ. B	ENDS			TE	ES					CERS		PLUGS & VALVE
SIZE	90°	45'	22.5			SIZE	LENGTH	4			SIZE	LENGT	н	
36	142	59	28	×36 393	x30 318	×24 232	x20 165	×16 84	×12 1	X30 137	247	309	X16 359	453
30	124	51	25	333	252	189	X16 115	X12 23	×10		x20 /	X16 276	1	391
24	106	44	21	X24 270	211	X16 143	X12/	X10 10	x8 1	X20 98	X16 178	X12 241		327
20	92	38	18		X16 161	X12 85	X10 39	×8 1		/ 98	X12 176	X10 227	,	280
16	77	32	15	X16 177	X12 107	X10 65	X8 19	×6		X12 98	X10 163	X8 169		231
12	61	25	12	X12 127	X10 89	X8 50	×6_1			X10 88	X8 96	X6 131		181
10	52	22	10	X10 101	X8 64	×6 11				X8 51	X6 94	X4 125	i	153
8	44	18	9	X8 78	X6 30	×4				X6 54	X4 92			128
6	34	14	7	X6 46	×41					X4 50	~			98
4	24	10	5	×4 19						ſ				69
1	NOTE:													
	1. SI	EE UG	9—8, <u>Б</u> АРРЦІСА	RESTRAIN ABLE TO	<u>NED LE</u>) RESTI	NGTHS RAINED	FOR P LENGT	<u>VC PIP</u> HS FOR	E DETA	IL FOR	NOTES	1 THF	ROUGH	9 THAT ARE

NO.	REVISION DESCRIPTION	BY	DATE

GATEWAY EAST WATER MAIN REPLACEMENT DETAILS

REQUIRED LENGTH OF RESTRAINED JOINT P	PE
FOR C900-16 PVC PIPE (DR-18)	

									-			
MAIN PIPE	HOR	IZ. BE	ENDS			TEES			R	EDUCER	S	PLUGS & VALVES
SIZE	90°	45 °	22.5*		SIZE LENGTH						IGTH	
24	90	38	18	X24 169	X20 132	X16 90	X12 38	X10 6	X20 64	X16 117	X12 158	214
20	78	32	16	X20 141	X16 101	X12 53	X10 24	X8 1	X16 65	X12 115	X10 149	184
16	66	27	13	X16 111	X12 67	X10 41	X8 12		X12 64	X10 107	X8 111	151
12	52	22	10	X12 80	X10 56	X8 31	X6 1		X10 58	X8 62	X6 86	118
10	44	18	9	X10 63	X8 40	X6 7			X8 33	X6 61	X4 81	100
8	37	15	7	X8 49	X6 18	X4 1			X6 35	X4 60		83
6	29	12	6	X6 29	X4 1				X4 33			63
4	21	8	4	X4 12								45

NOTES: . RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.

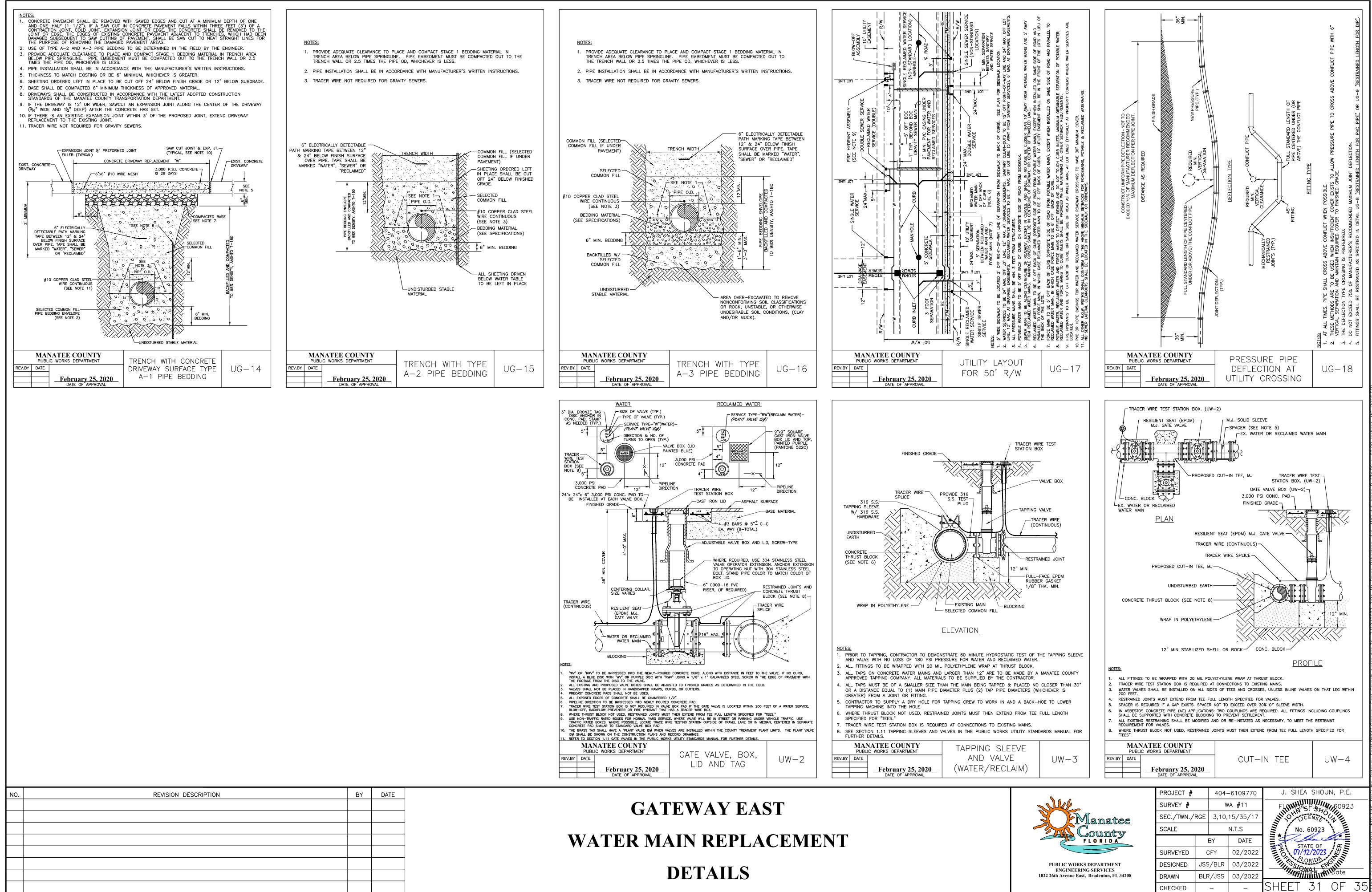
- 2. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE. 3. ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
- 4. PIPE SIZES ARE GIVEN IN INCHES.
- 5. RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET. 6. LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
- 7. THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
- 8. RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL UG-10 <u>RESTRAINED LENGTHS</u> FOR PIPE.
- 9. ALL RESTRAINED JOINT HARDWARE SHALL CONFORM TO 1.11.17 OF THE PUBLIC WORKS UTILITIES STANDARDS MANUAL. 10. ALL THREE "LEGS" OF TEES SHALL BE RESTRAINED PER THE STATED LENGTH IN THE TABLE.

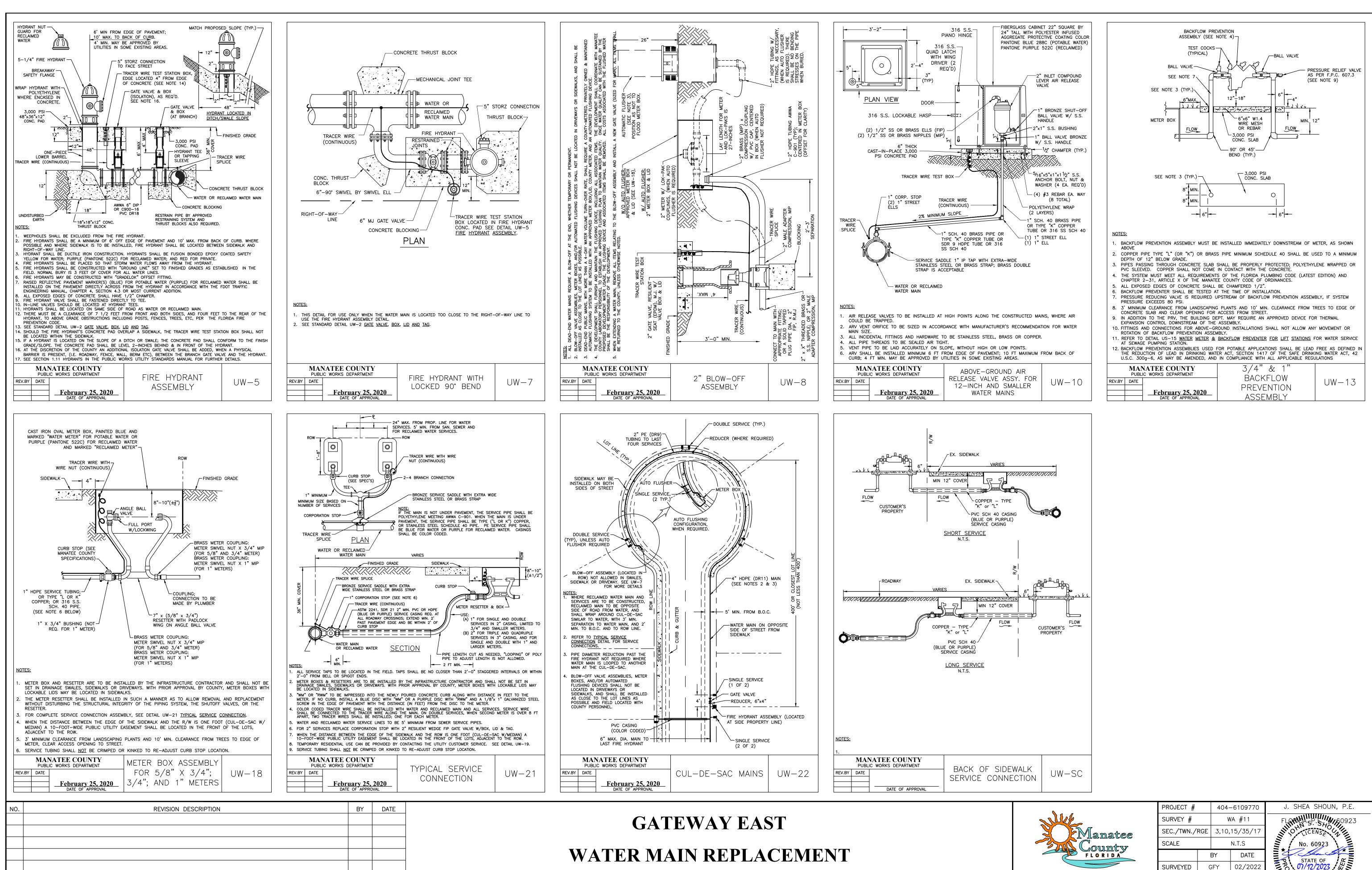
		NATEE COUNTY	RESTRAINED	
REV.BY	DATE		LENGTHS FOR PVC	UG-8
		February 25, 2020 DATE OF APPROVAL	PIPE	

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Manatee
FLORIDA

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 3420

PROJECT #		404-	-6109770	J. SHEA SHOUN, P.E.
SURVEY #		WA #11		FLORIA PSE.S# 50923
SEC./TWN./RGE		3,10,15/35/17		FLORDAN FSE.S#400923
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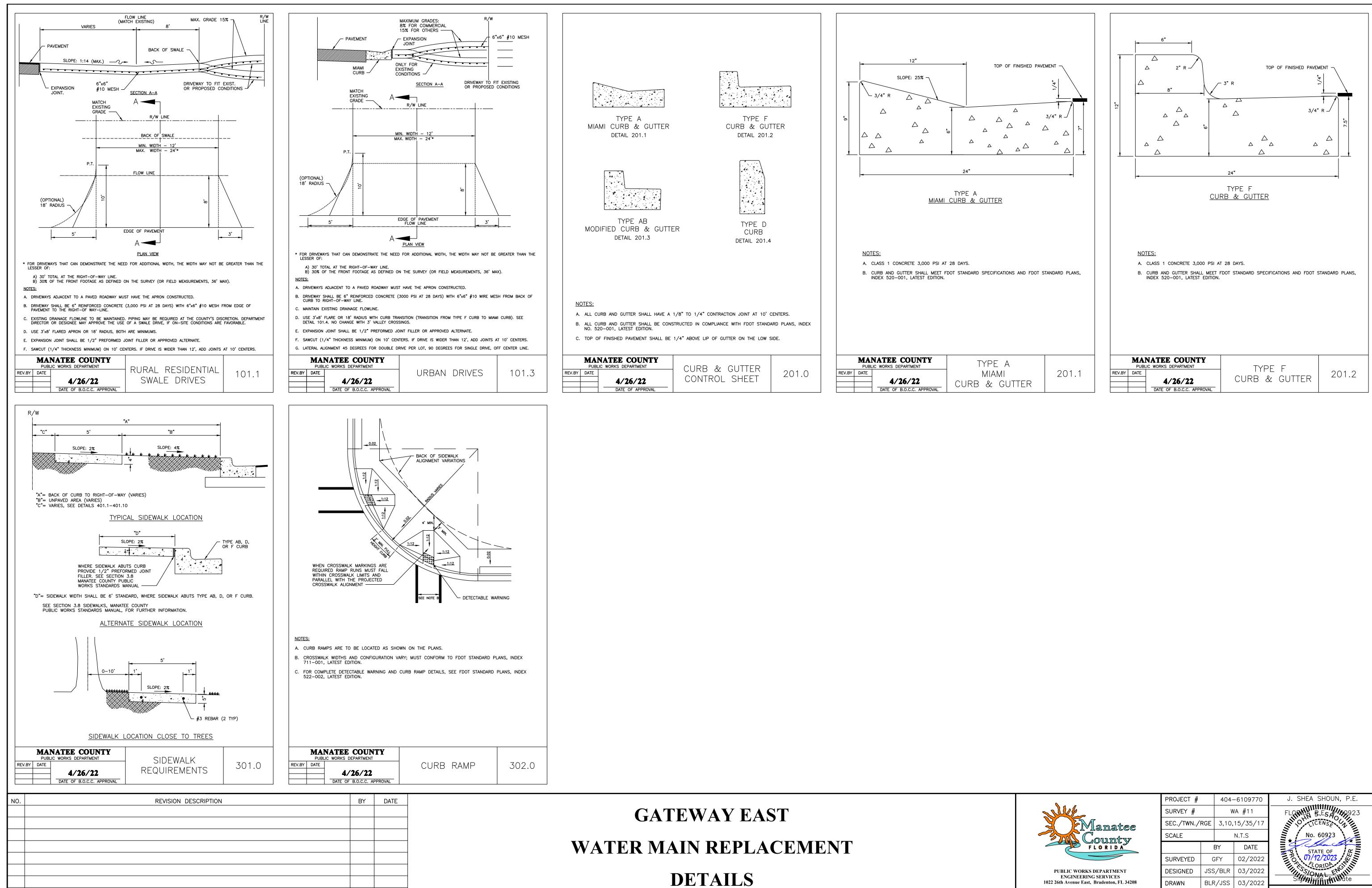
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PUBLIC WORKS DEPARTMENT

ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 03/2022

03/2022



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	PROJECT #		404-	-6109770	J. SHE	JN, P.E		
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County	SCALE		N.T.S			0. 6092	3	
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PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES	DESIGNED	JSS	/BLR	03/2022	SIONAL		ENGINI	d De
1022 26th Avenue East, Bradenton, FL 34208	DRAWN	BLR	/JSS	03/2022	Sign	Him	Wate	
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EXISTING SANIT	ARY SEWER STRUCTURE TABLE
MANHOLE NUMBER	MANHOLE ELEVATIONS.
1	RIM=15.20' 8" VCP(E)10.73' 8" VCP(S)10.60'
2	RIM=14.30' 8" VCP (N) 8.85' 8" VCP (S) 8.67'
3	RIM=14.23' 8" VCP (N) 7.77' 15" VCP (NE) 0.59' 8" VCP (SE) 9.40' 15" VCP (W) 0.57'
4	RIM=13.67' 8" VCP (W) 5.92' 8" VCP (E) 2.64' 8" VCP (S) 2.67'
5	RIM=15.58' 6" VCP (N) 12.01' 6" VCP (S) 11.97' 8" VCP (W) 11.52'
6	RIM=15.59' 8" VCP (E) 9.69' 6" VCP (S) 11.15' 6" VCP (N) 11.12' 8" VCP (W) 9.60'
7	RIM=14.35' 8" VCP (E) 4.80' 6" VCP (NE) 4.70' 8" VCP (W) 4.51'
8	RIM=14.81' 8" VCP (N) 1.44' 6" VCP (W) 10.36' 6" VCP (NE) 10.26' 8" VCP (S) 1.44'
9	RIM=15.93' 10" VCP (E) 5.75' 10" VCP (W) 5.68'
10	RIM=15.72' 10" VCP (E) 4.62' 12" PVC(DR-18) Pipe (W) 4.62'
11	RIM=15.16' 12" PVC(DR-18) Pipe (E) 1.81' 8" VCP (N) 10.00' 8" VCP (SE) 8.86' 15" VCP (SW) 1.14' 6" VCP (N) 1.81'
12	RIM=15.63' 8" VCP (E) 11.31' 4" VCP (W) 11.34' 8" VCP (NW) 11.30'
13	RIM=15.78' 8" VCP (W) 11.30' 8" VCP (E) 11.29'
14	RIM=18.00' 8" VCP (W) 9.51' 8" VCP (E) 9.97' 8" VCP (N) 9.31'
15	RIM=17.76' 8" VCP (S) 8.17' 8" VCP (W) 10.03' 8" VCP (N) 8.24'

EXISTING SANITARY S	EWER STRUCTURE TABLE
MANHOLE NUMBER	MANHOLE ELEVATIONS.
16	RIM=16.05' 8" VCP (W) 11.52' 8" VCP (E) 10.59' 6" PVC (N) 11.70' 6" PVC (S) 11.76'
17	RIM=16.62' 8" VCP (E) 13.04' 8" PVC (N) 13.05'
18	RIM=16.54' 8" VCP (E) 12.75' 6" PVC (N) 12.93' 6" PVC (S) 12.86'
19	RIM=17.10' 8" VCP (E) 6.89' 8" VCP (S) 6.78' 10" VCP (W) 6.59'
20	RIM=15.40' 8" VCP (S) 11.45' 4" VCP (W) 12.18' 4" VCP (E) 11.97'
21	RIM=16.58' 8" VCP (W) 12.76' 8" PVC (S) 13.04' 8" PVC (N) 12.96'
22	RIM=15.91' 8" VCP (E) 12.30' 8" VCP (N) 12.23' 6" PVC (S) 12.53' 6" PVC (SW) 12.53'
23	RIM=15.93' 8" VCP (S) 11.00' 8" VCP (E) 10.97' 8" VCP (NW) 10.92'
24	RIM=16.62' 8" VCP (W) 12.83' 6" PVC (S) 12.90' 6" PVC (N) 13.00'
25	RIM=14.56' 8" VCP (SE) 9.83' 15" VCP (NE) 0.79' 8" VCP (N) 0.78' 15" VCP (SW) 0.69'
26	RIM=15.83' 8" VCP (W) 7.25'

BY DATE REVISION DESCRIPTION NO.

	ATER STRUCTURE TABLE
A	STRUCTURE ELEVATIONS. <i>RIM=14.78'</i> 53" ERCP (SE) 9.39'
AA	RIM=14.06' 38" ERCP (SW) 9.20' 15" RCP (SE) 9.61' 30" RCP (NE) 9.22'
В	RIM=14.76' 53" ERCP (NW) 9.55' 53" ERCP (SE) 9.60'
BB	RIM=15.14' 18" ERCP (N) 11.96'
С	RIM=14.56' 53" ERCP (NW) 9.81' 23" ERCP (S) 9.63'
СС	RIM=15.62' 15" RCP(NW)10.02'
D	RIM=16.36' 23" ERCP (N) 10.72' 23" ERCP (S) 10.75'
DD	RIM=14.54' 12" RCP (NE) 12.02'
E	RIM=17.44' 23" ERCP (N) 11.80' 23" ERCP (S) 11.83'
EE	RIM=14.07' 12" RCP (SW) 11.91' 12" CMP (NE) 11.92' 12" RCP (N) 11.90'
F	RIM=16.37' 23" ERCP (N) 11.24' 23" ERCP (S) 11.33'
FF	RIM=15.53' 12" CMP (NW) 12.59'
G	RIM=17.06' 23" ERCP (N) 13.74' 23" ERCP (S) 13.61'
GG	RIM=15.62' 12" CMP (SE) 12.59' 12" CMP (W) 12.76'
Н	RIM=17.70' 23" ERCP (N) 13.69'
HH	RIM=15.83' 12" CMP (E) 12.80' 12" CMP (NW) 12.84'
/	RIM=17.86' 23" ERCP (N) 13.90' 23" ERCP (S) 13.87'
//	RIM=15.12' 12" CMP (SE) 11.97' 18" CMP (N) 11.70' 12" CMP (SW) 11.97'
J	RIM=14.99' 18" RCP(S)12.10' 18" RCP(N)12.11'
JJ	RIM=15.86' 15" CMP (E) 13.04' 15" CMP (N) 12.95'

GATEWAY EAST WATER MAIN REPLACEMENT **EX. GRAVITY STRUCTURE TABLES**

	TER STRUCTURE TABLE
STRUCTURE NAME	STRUCTURE ELEVATIONS.
K	RIM=14.92' 18" RCP(N)12.09'
<i>^</i>	18" RCP (S) 12.07'
KK	RIM=15.84' 15" CMP(W)13.42'
	15" CMP (S) 13.54'
	RIM=14.47'
Ĺ	12" RCP (N) 12.12'
LL	RIM=16.09' 15" CMP (N) 13.54'
	RIM=14.44' 12" RCP(S) 12.04'
M	12" RCP (W) 12.04"
	12" RCP (N) 12.03'
	RIM=15.65'
MM	18" RCP (N) 12.75'
	15" RCP (SE) 12.68'
	<i>RIM=11.96'</i>
N	12" RCP (E) 9.70'
	RIM=16.98'
	15" RCP (NW) 12.88'
NN	12" RCP (W) 12.97'
	15" CMP (S) 12.97'
	RIM=10.07'
0	12" RCP (E) 6.94'
	RIM=15.61'
00	12" RCP (S) 13.92'
	DUL 14.01'
P	RIM=14.01' 12" RCP(W)10.62'
/	12" RCP (N) 9.60'
	DU1-15 57'
pp	RIM=15.57' 12" RCP(N) 13.90'
, ,	12" RCP (S) 13.80'
0	RIM=13.87' 12" RCP(S)9.63'
ч [.]	12" RCP (N) 10.42'
	R/M=16.04'
QQ	RIM=16.04 15" RCP (S) 13.68'
R	RIM=12.89' 12" RCP(S) 10.20'
	<i>RIM=16.29'</i>
RR	15" RCP (N) 13.36' 15" RCP (S) 12.81'
C	RIM=14.59' 15" RCP(E)7.75'
S	13 RCP (E) 7.75 18" RCP (W) 8.32'
SS	RIM=14.58' 18" ERCP (S) 10.70'
Structure – (3076)	RIM=15.38'
Structure – (3077)	RIM=15.23'
	1

EXIST	ING STORMWATER STRUCTURE TABLE
STRUCTURE NAME	STRUCTURE ELEVATIONS
Structure – (3079)	RIM=14.45' 18" Horizontal Elliptical Concrete Pi
Structure – (3080)	RIM=16.14' 18" Horizontal Elliptical Concrete Pl
Τ	RIM=14.54' 15" RCP (W) 9.10'
77	RIM=14.27' 18" ERCP (N) 10.23" 24" RCP (S) 10.06'
U	RIM=10.21' 15" RCP(NW)6.50'
V	RIM=13.96' 15" RCP (SE) 9.52' 38" ERCP (NE) 9.07 53" ERCP (SW) 8.76
W	RIM=14.38' 30" RCP (SW) 11.09 12" RCP (S) 11.75' 24" RCP (NE) 11.11
X	RIM=15.38' 24" RCP (SW) 11.80 18" CMP (S) 11.88' 12" RCP (E) 11.85'
Y	RIM=15.13' 12" RCP (W) 12.01' 18" ERCP (S) 12.32'

•	PROJECT #		404-	-6109770	J. SHE	A SHOU	N, P.E	•
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County	SCALE		SEE PLAN			0. 60923		
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