	INDEX OF SHEETS
Sheet Number	Sheet Title
01	Cover
02	Notes
03	Key Sheet & Abandonment Plan
04	72nd Ave NW [FM 22-D, RTU 224]
05	Riverview Blvd Warners Bayou West [FM 21-D, RTU 229]
06	Riverview Blvd Warners Bayou East [FM 4-D, RTU 231]
07	Riverview Blvd Warners Bayou East [FM 4-D, RTU 231]
08	60th St NW [FM 7-D, RTU 230]
09	60th St NW [FM 7-D, RTU 230]
10	5th Ave NW [FM 7-D, RTU 230]
11	59th St W [FM 7-D, RTU 230]
12	59th St W [FM 7-D, RTU 230]
13	59th St W [FM 7-D, RTU 230]
14	59th St W [FM 7-D, RTU 230]
15	59th St W [FM 7-D, RTU 230]
16	59th St W [FM 7-D, RTU 230]
17	Grout fill FM 7-D, in Easement
18	Restoration 1 of 3
19	Restoration 2 of 3
20	Restoration 3 of 3
21	Survey Control, SUE & VVH Tables
22	Details
23	Details
24	Details
25	Riverview & 59th St W Roadway Asbuilt
26	Warners Bayou West Bridge Utility Asbuilt
27	Warners Bayou East Bridge Utility Asbuilt
28	Erosion Control



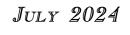
INSTALL APPROXIMATELY A TOTAL OF 5,700 LF OF 4, 6 & 8-INCH REPLACEMENT SEWAGE FORCE MAINS FOR VARIOUS LIFT STATIONS.

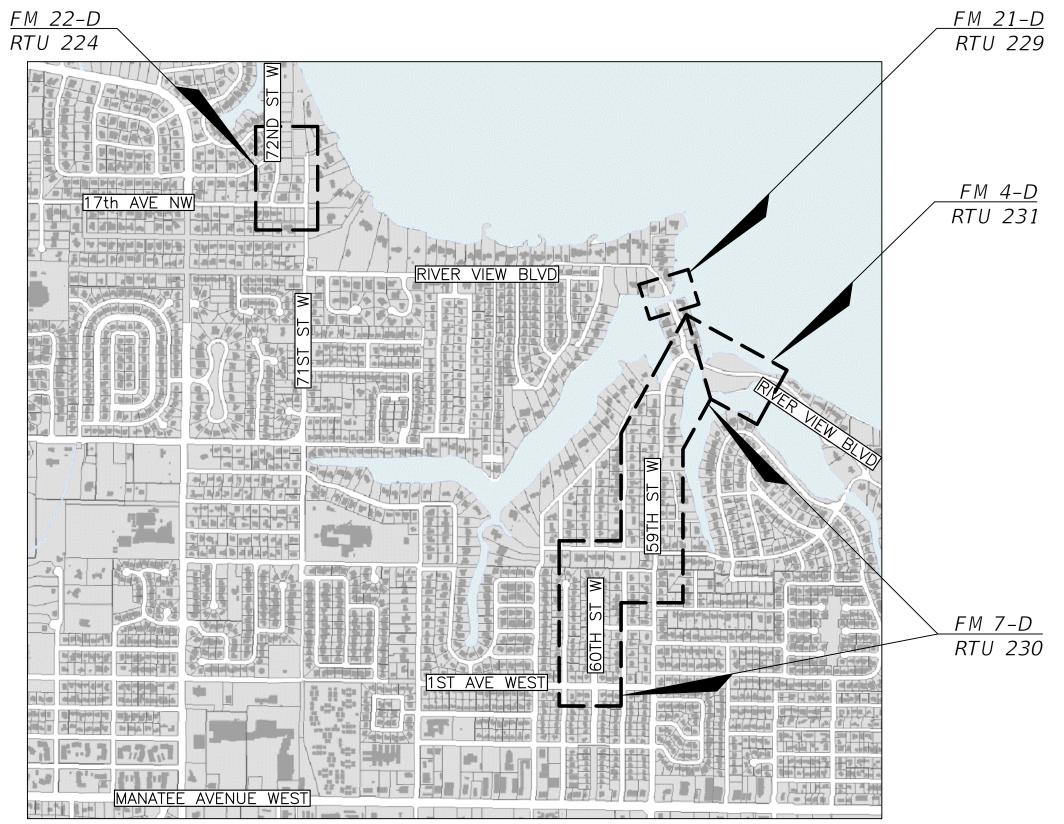


# MANATEE COUNTY UTILITY ENGINEERING SECTION

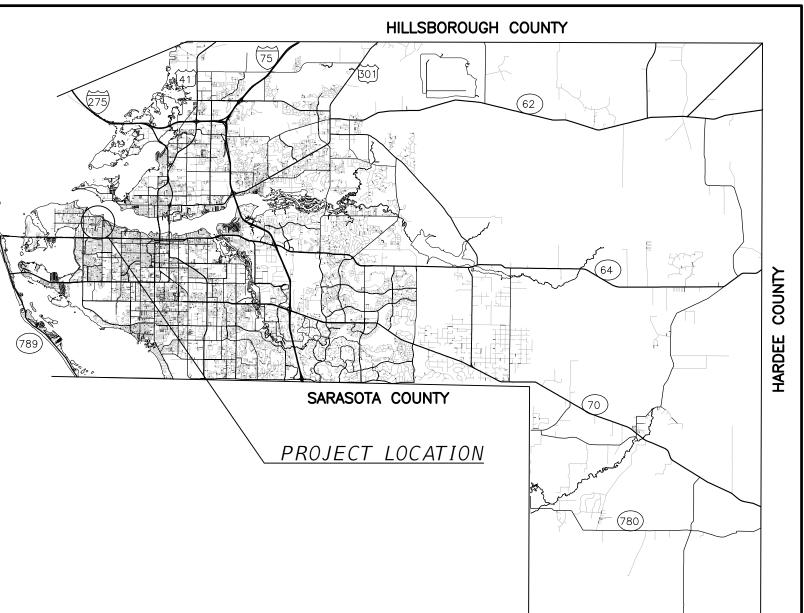
# SOUTHWEST SERVICE AREA D FORCE MAIN REPLACEMENT

## 404-6089781





ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



BID PLANS

PRE-EBUILDER SUBMITTAL 4/22/24





THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY Digitally signed by John S Shoun Date: 2024.07.12 10:55:16 -04'00'

ON THE DATE ADJACENT TO THE SEAL, PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

UTILITY PLANS PROFESSIONAL OF RECORD: J. SHEA SHOUN, P.E. FL LICENSE No: 60923

MANATEE COUNTY PUBLIC WORKS 1022 26th AVENUE EAST BRADENTON, FL 34208

FISCAL	SHEET
YEAR	NO.
2024	01 of 28

SARASOTA COUNTY

G	F	N	F	R	Δ	L
<u> </u>				1 \	<u> </u>	

۱.	ALL	CONSTRUC	CTION A	CTIVITIE	S SHALL	BE COORD	INATED	WITH	THE	PROJECT	MAI	NAGEMENT	DIVIS	SION.
	THE	PROJECT	MANAGE	ER IS:	MARCENEL	JOSEPH,	PE AN	D CAN	ΒE	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 UTILITY AND TRANSPORTATION STANDARDS, FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND/OR THE FLORIDA BUILDING CODE. ALL WORK ON PRIVATE PROPERTY SHALL BE PERFORMED BY A LICENSED PLUMBER REGISTERED IN MANATEE COUNTY, UNLESS OTHERWISE INDICATED ON THE PLANS. 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER. 5. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM
- NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE 6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD
- DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION. 7. 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. 8. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.

- 9. 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.
- 11. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- 12. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

### <u>ENVIRONMENTAL</u>

- 13. 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.
- 14. 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.
- 15. 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.
- 16. 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.
- 17. 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.
- 18. 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.
- 19. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 20. 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.
- 21. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

### <u>RIGHT-OF-WAY</u>

- 22. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 23. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, 52. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S 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 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.
- 25. 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.
- 26. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
- 27. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION 02575.
- 28. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

**UTILITIES** 

- 29. ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, MANHOLE COVERS, SEWER CLEAN-OUTS, ETC.
- 30. 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.
- 31. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER/RECLAIM/SEWER LINES, STORM DRAINS, OTHER UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE COUNTY. ALL EXISTING AND PROPOSED VALVE COVERS, RIMS, ETC, SHALL BE BROUGHT TO FINAL GRADE OF THE PROJECT AREA.
- 32. 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 CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
- 34. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.
- 35. ALL WATER SERVICES TO BE INSTALLED OR MODIFIED ON PRIVATE PROPERTY SHALL REQUIRE A PLUMBING PERMIT;
- 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: SWIMMING POOL
  - •IN-GROUND IRRIGATION SYSTEM OR UNDERGROUND SPRINKLERS,

•	SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL).	
	REVISIONS	
DATE	DESCRIPTION	Manatee
		County
		1022 26th Avenue East, Bradenton, FL 34208

• PROPERTY THAT ABUTS A BODY OF WATER, INCLUDING RIVER, BAY, LAKE OR POND ON THE PROPERTY OR BORDERING THE PRO	OPERTY,
•FLOOD ZONE DESIGNATION, (IF ONLY FLOOD ZONE, INSTALL A DOUBLE CHECK BPA),	
• SOLAR WATER HEATING SYSTEM,	
• COMMERCIAL, INDUSTRIAL, MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY,	

• CROSS CONNECTION IS FOUND. • FOUNTAIN WITH A DEDICATED FILL PIPE,

• FIRE SPRINKLER SYSTEM.

CONSTRUCTION

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.

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

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. ALL RESTORATION LIMITS ARE APPROXIMATE AND SUBJECT TO THE DIRECTION OF THE COUNTY FIELD REPRESENTATIVE.

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.

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. CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER PRIOR TO CONSTRUCTION ACTIVITIES.

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

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.

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 BRASS 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 ENGINEER.

62. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 1.15 AND/OR 1.16 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 AND/OR 1.16 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 1.15 AND 1.16 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. SEE SECTION 01720 FOR FURTHER DETAILED REQUIREMENTS OF THE DAILY RECORD DRAWING DOCUMENTATION.

EXISTING UTILITY LOCATIONS

64. THE FOLLOWING IDENTIFIES THE QUALITY LEVEL OF EXISTING UTILITY LINEWORK ON PLANS. 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 ACCOMMODATION MANUAL (UAM)

	J. SHEA SHOUN, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 60923.	
uс	ITEM HAS BEEN DISITALLY SIGNED AND SEALED BY	

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J. SHEA SHOUN ON THE DATE INDICATED HERE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

MANATEE COUNTY									
PUBLIC WORKS DEPARTMENT									
PROJECT #	404-6089781	SURVEYED	GFY	03/2023					
SEC./TWN./RGE	19,20,29,/34/17	DESIGNED	JSS/BLR	08/2023					
SCALE	SEE PLANS	DRAWN	BLR/JSS	08/2023					

MAINTENANCE OF TRAFFIC

- OR ADDITIONAL COMPENSATION.

- COST OF PIPE.
- CLOSURES OR DETOURS.

- SEPARATE PAYMENT
- STANDARD INDEX 600.

Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:37:33 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using CIP-2023.STB. File Name: FM-AREA D COVER & NOTES.DWG

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 TIME

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. MOT MUST MEET FDOT 102-600 SERIES STANDARDS AT ALL TIMES. FULL CLOSURES SHALL BE AVOIDED. FULL CLOSURES WITH DETOURS MAY BE CONSIDERED (AND ARE NOT GUARANTEED) WITH THREE-WEEK ADVANCE NOTICE AND MUST HAVE PRIOR COUNTY APPROVAL BEFORE IMPLEMENTATION.

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

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.

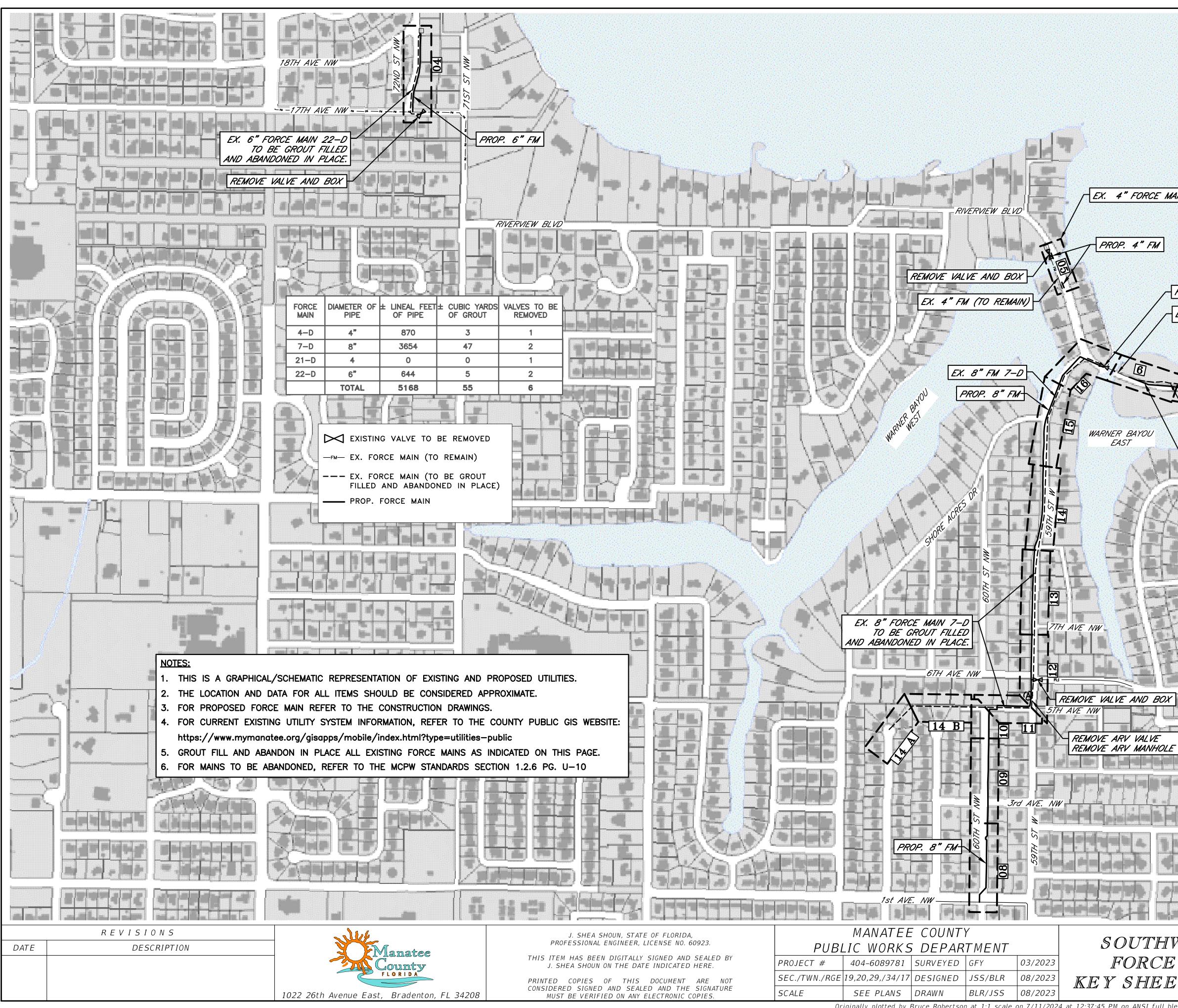
LEGEND

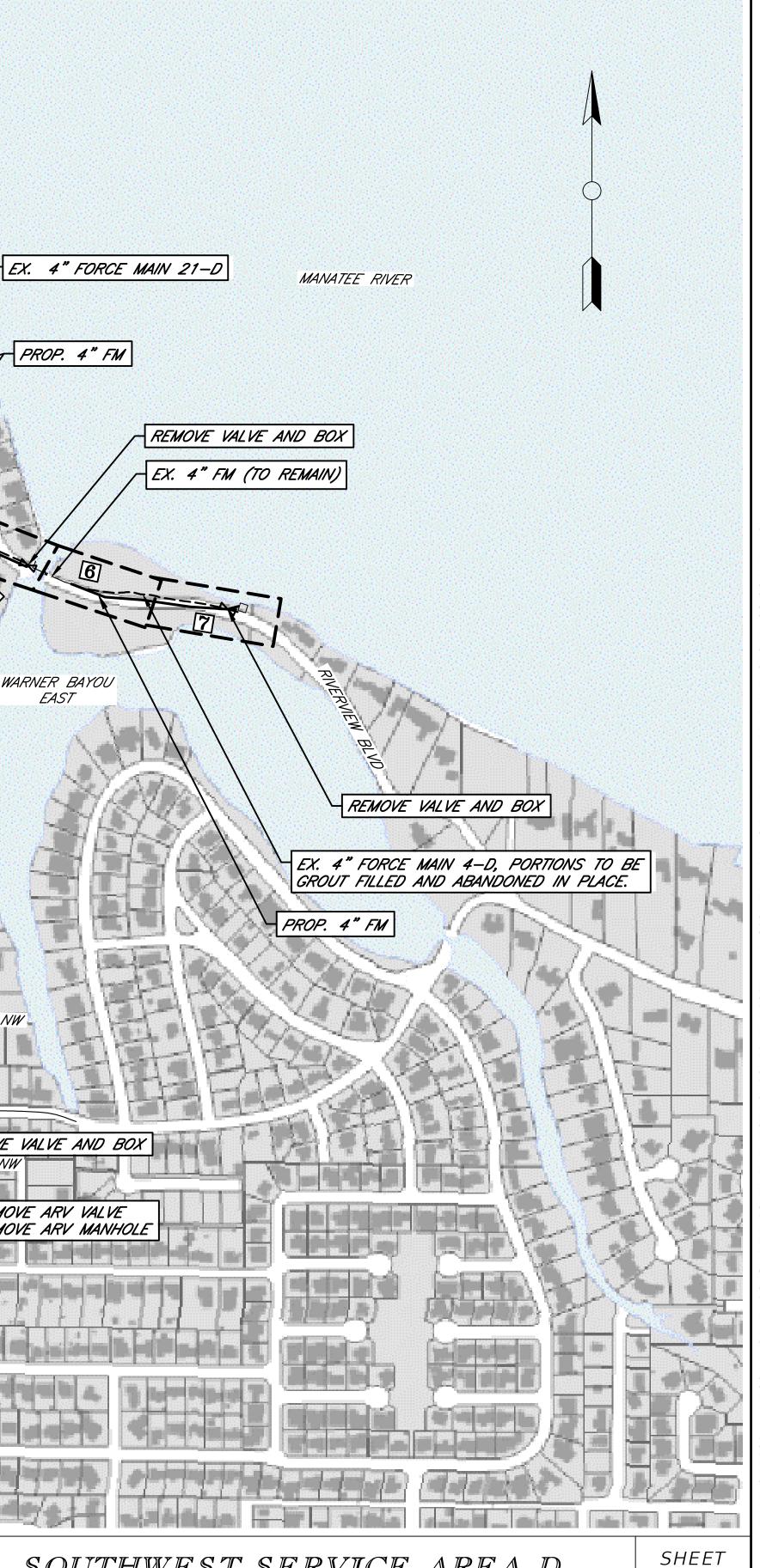
75. ANY MOT ITEM NOT SPECIFICALLY LISTED UNDER A PARTICULAR PAY ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. THERE SHALL BE NO

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.

		E	KISTING	LLGLND					
СМ	• • •	BENCH MARK CONCRETE MONUMENT IRON PIPE IRON ROD HUB	Steart Start	BUSH TREE OAK TREE PALM TREE PINE TREE		AI r/w conc asph	BBREVIATION RIGHT OF WAY CONCRETE ASPHALT	5	
×64 (2)		NAIL & DISK ELEVATION PARCEL ID NO. PARCEL ID NO.	<b>T</b>	EDGE OF VEGETA		DRWY SWK EP BOC	DRIVEWAY SIDEWALK EDGE OF PAVE BACK OF CURI		
PP	L ⊘ □	LOT NO. GUY WIRE POWER POLE LIGHT POLE MAIL BOX		- CHAIN LINK FENG - WOOD FENCE - BARBED WIRE FE - FORCE MAIN - POTABLE WATER		~~~	FLOW ARROW		
REF	ط ہ © ل	SIGN REFLECTOR SPRINKLER GAS MARKER BACKFLOW PREVENTER	RCW     SS     SS     S     S     GAS     GAS     OCHR	- RECLAIMED WATE - SANITARY SEWER - STORM DRAIN - GAS LINE - OVERHEAD CHAR					
FH WV ARV WM	• • © □ ⊗ X 🖞 📓	BLOW OFF VALVE FIRE HYDRANT WATER VALVE AIR RELEASE VALVE WATER METER SANITARY SEWER MANHOLE SANITARY SEWER CLEAN C	UTFPL	- UNDERGROUND C - OVERHEAD ELECT - UNDERGROUND E - OVERHEAD FRON - UNDERGROUND F - UNDERGROUND F - UNDERGROUND F - UNDERGROUND F - 00/CDUGAD LITUTE	TRIC Electric Tier Trontier Preco TPL				
GI	(TED BX	SOIL BORING LOCATION TELEPHONE SERVICE BOX UTILITY BOX UTILITY RISER FLOW DIRECTION GRATE INLET MITERED END SECTION		- OVERHEAD UTILIT - RAIL ROAD TRACI - EDGE OF CONCR EDGE OF ROAD - TOE OF SLOPE TOP OF BANK PROPERTY LINE	KS				
			EMERG	ENCY C	ONTACT	S			
MANATEE C PUBLIC WO UTILITY ENC SHEA SHOU 1022 26TH BRADENTON (941) 708- TECO/PEOF ALEX MCFA 8261 VICO SARASOTA, (813) 275- EMERGENCY FRONTIER JOHN PLOT 1701 RINGI	RKS D GINEER JN, P.E AVENI I, FL. -7450 PLES G RLANE COUR FL. 34 -3762 (: 1-8	EPT. TOE ING 125 E. PAL UE EAST (94 34208 EME EXT. 7661 TOE EXT. 7661 TOE GAS CO. MAN HAN T 410 4240 BRA (94 .77-832-6911 SOU MAN SAF	RIDA POWER & DD BOLKEMA 3 12TH AVENUE METTO, FL 3422 1) 927-4262 RGENCY: 1-800 DD.BOLKEMA@FPL VATEE COUNTY H IS ROESE 0 6TH AVENUE E DENTON, FL 34 1) 748-0747 E UTHWEST FLORID VAGEMENT DISTR RASOTA SERVICE VE LOPES, P.E.	E EAST 21 	FLORIDA GA JOHN LUDLA 7804 ANDEI TAMPA FL 3 PHONE: (81 E-MAIL: CH FDEP, SOUT ED WATSON 13051 N. T TEMPLE TEF (813) 470- CHARTER CO TOM WRIGH 5413 E. ST BRADENTON, (941) 748-	OW RSON RD. 33634 3) 466–3 AD.HARREL HWEST DIS ELECOM P RRACE, FL 5875 OMMUNICAT T ATE ROAD , FL. 3420	5327 L@SUG.COM STRICT PKWY 33637 TIONS 64 08-5535	DEPT./TRAFFIC 2101 47TH TEF BRADENTON, FL VISHAL KAKKAD (941) 749–350	NC. 33873 R O OPRECO.COOP TY PUBLIC WORKS ENGINEERING/ ATMS RACE EAST 34203 , P.E. O EXT. 7812 OMYMANATEE.ORG.
SARASOTA, (941) 906- JOHN.PLOT	-6707	SAF	0 FRUITVILLE R ASOTA, FL. 342 1) 377–3722		TOM.WRIGHT SUNSHINE S FLORIDA 1-	STATE ONE	CALL OF	1411 9TH ST. BRADENTON, FL JIM MCLELLAN JIM.MCLELLAN@C PHONE: (941)	34205
	_	THWES RCE M						$\supset$	SHEET NO.
	- 2			TES					02 of 28
:33 PM on J	ANSI	full bleed D (34.00	) x 22.00 Incl	nes) paper us	sing CIP-20	23.STB.	File Name:	FM-AREA D C	OVER & NOTES.D

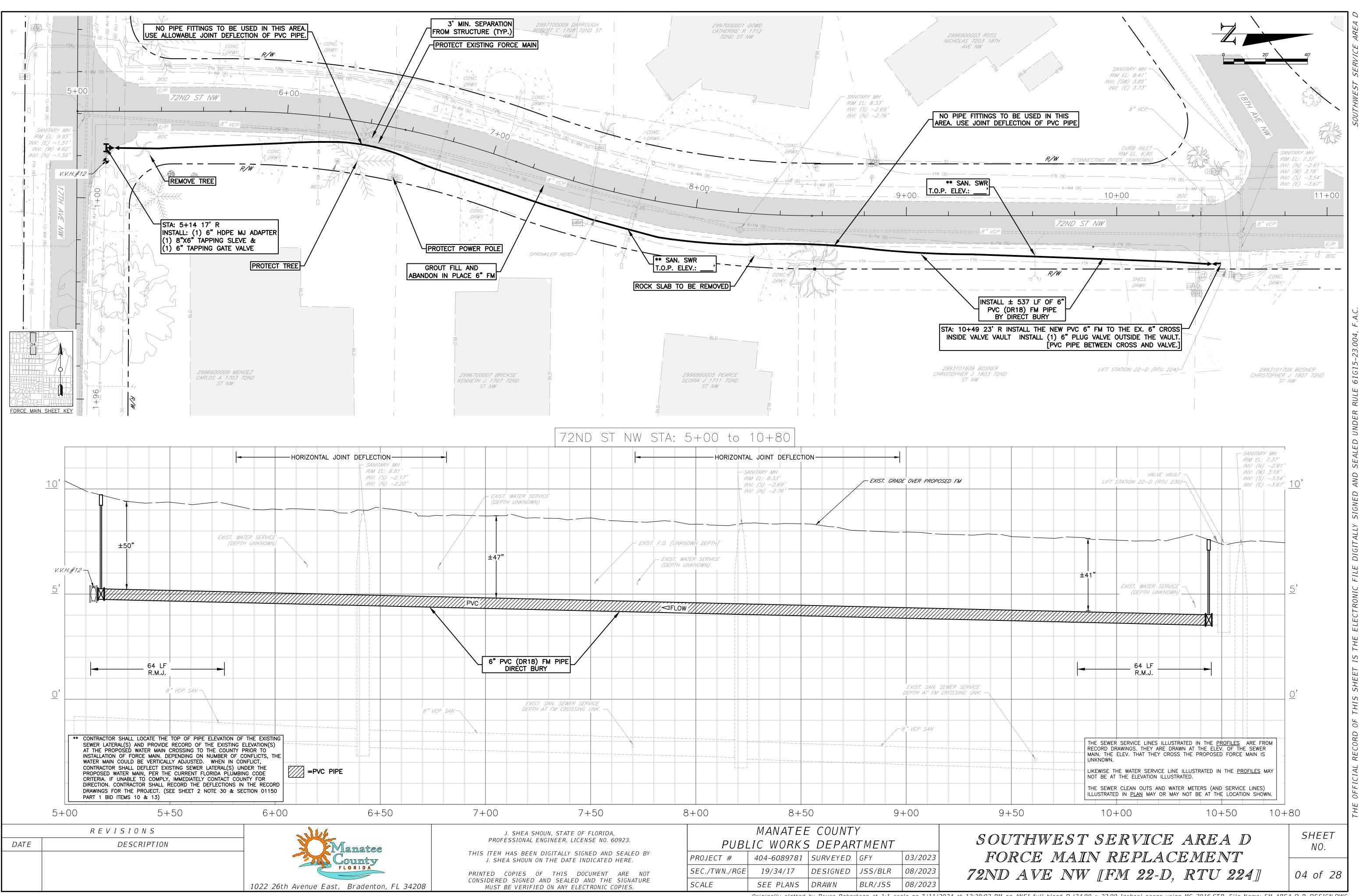




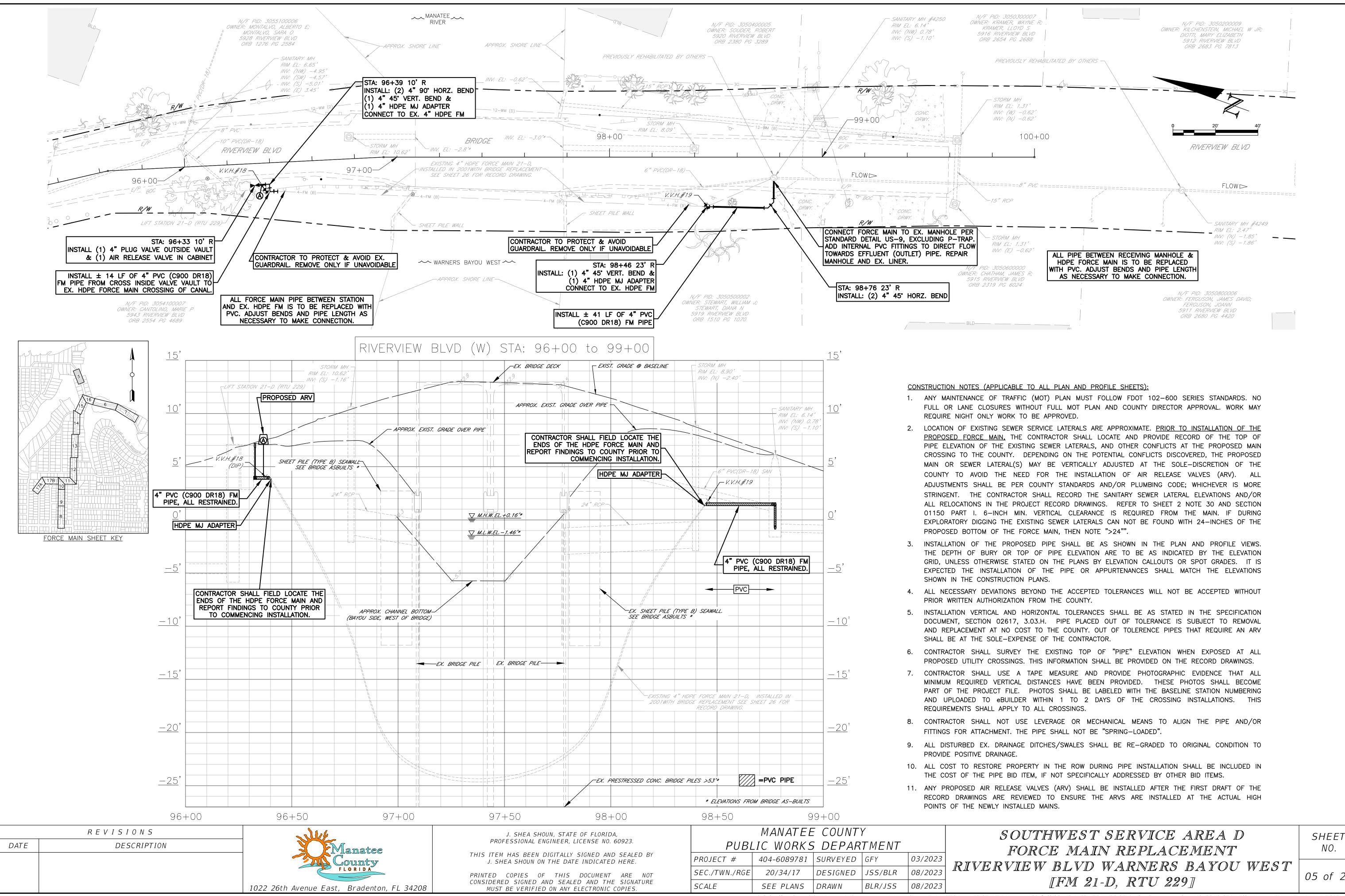
SOUTHWEST SERVICE AREA D FORCE MAIN REPLACEMENT KEY SHEET & ABANDONMENT PLAN 03 of 28

NO.

Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:37:45 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using CIP-2023.STB. File Name: FM-AREA D KEY SHEETS.DWG

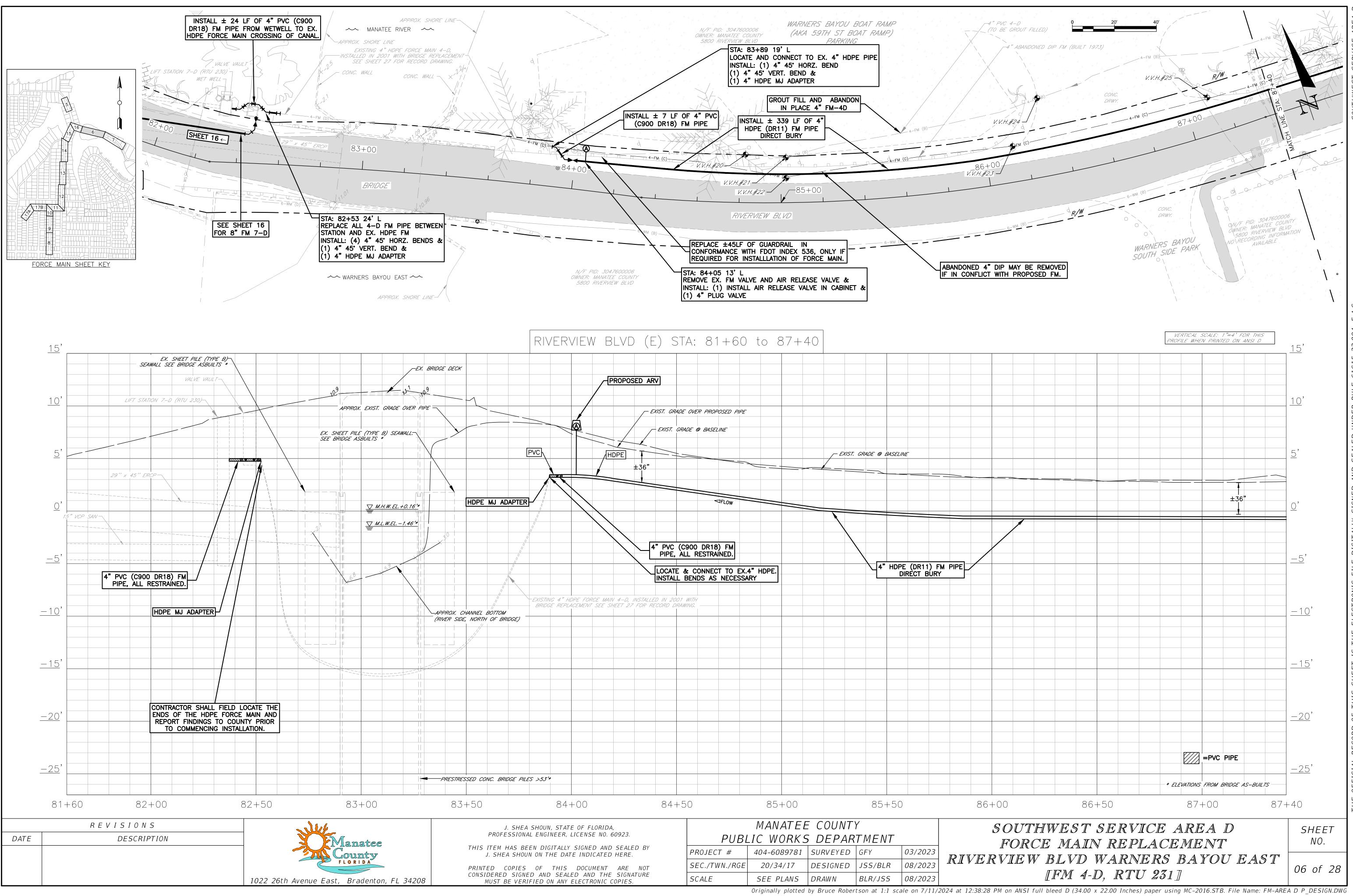


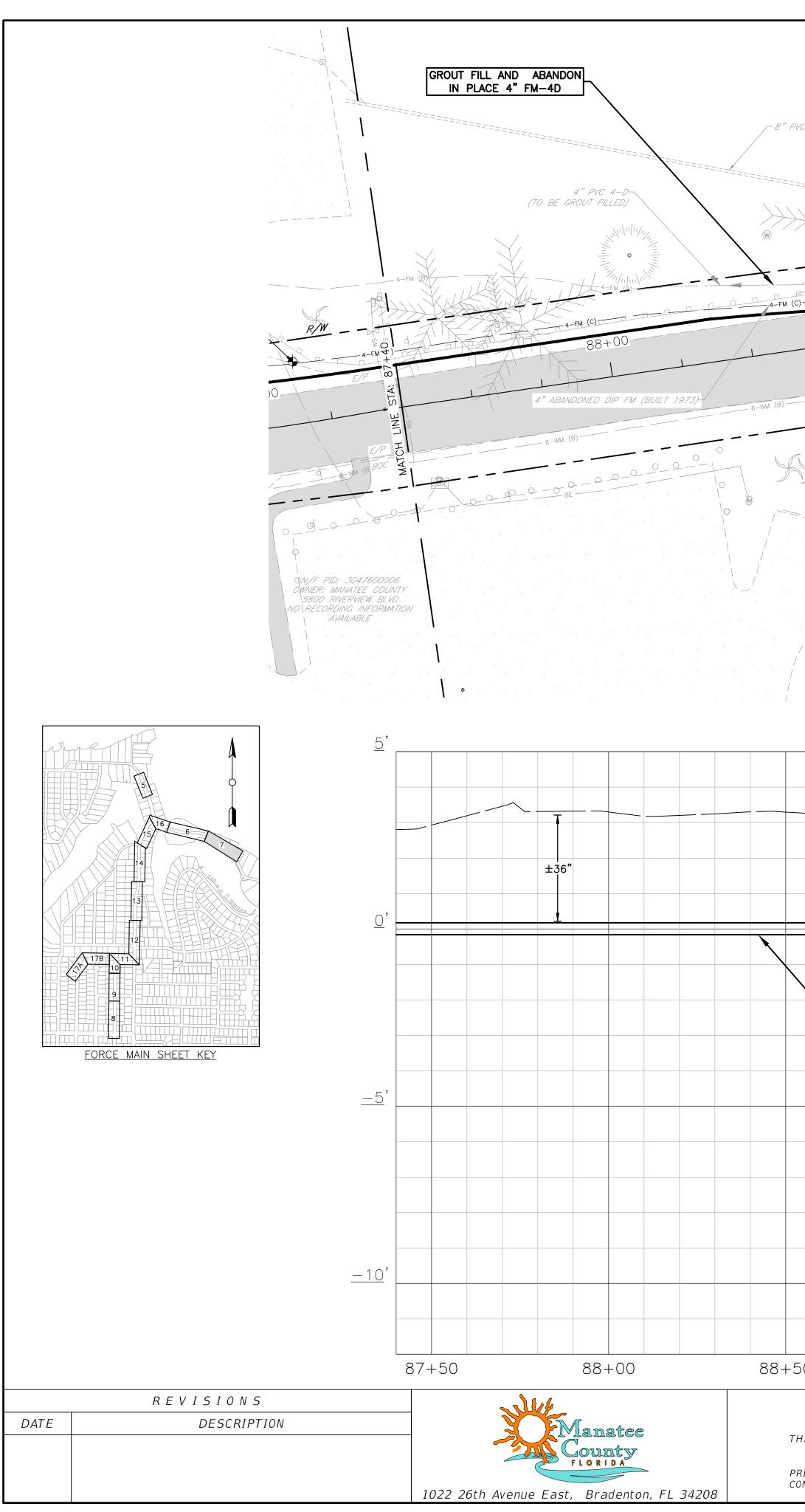
Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:38:02 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P\_DESIGN.DWG



NO. 05 of 28

Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:38:15 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P DESIGN.DWG



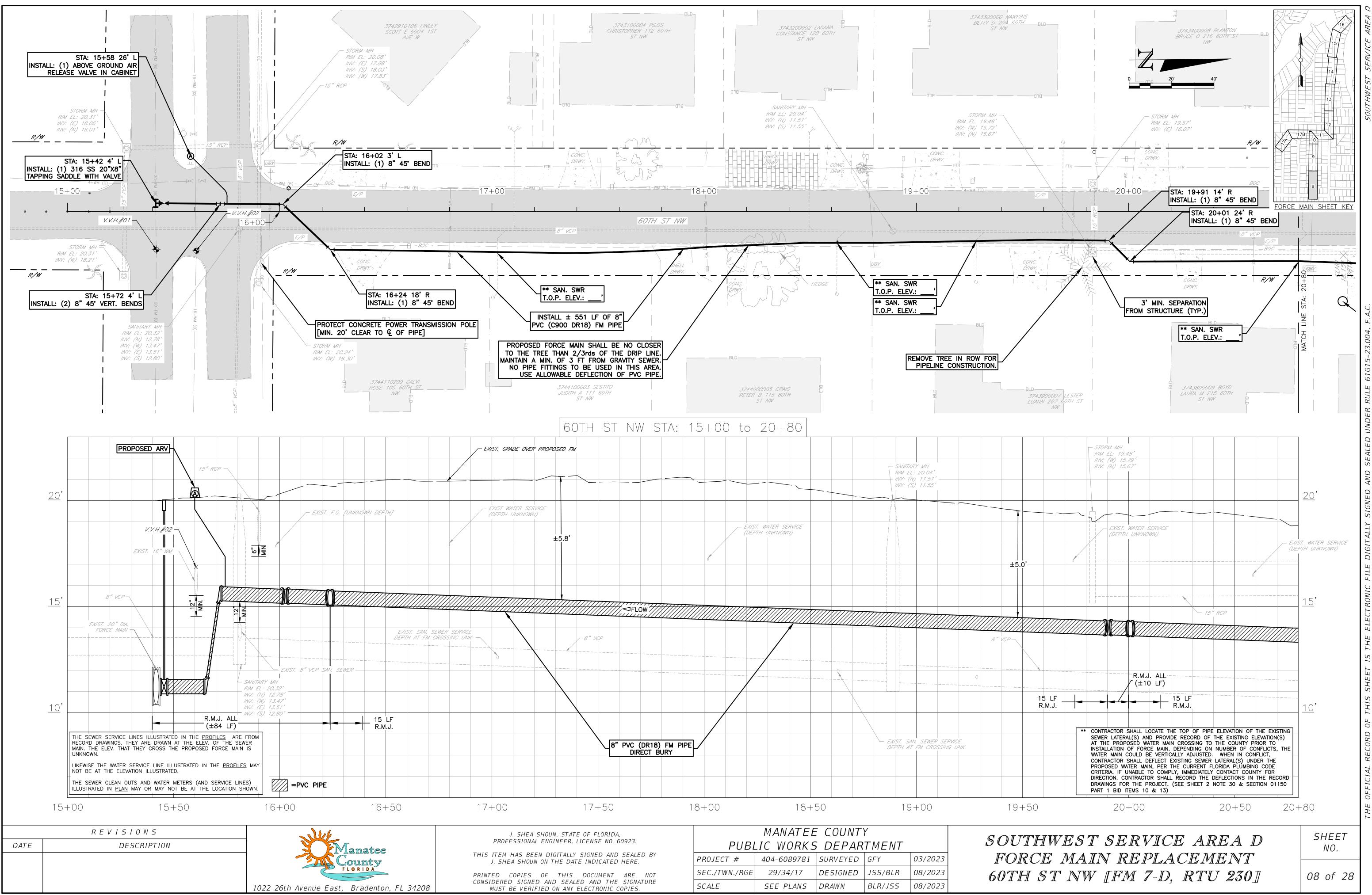


		- APoo							
OŴNER: 5800 NO RECO	PID: 3047600006 MANATEE COUNTY RIVERVIEW BLVD ORDING INFORMATION AVAILABLE	I PROX	SHORE LINE		ONNECT TO EX. CR & (1) 4" PL	STA: 90 OSS INSIDE VA INSTALL (1) 4* UG VALVE OUTS	+94 18' L LVE VAULT. ' 90' BEND SIDE VAULT		
<i>IC</i>		SANITARY MH – RIM EL: 3.27'			-8" PVC				
		INV: (W) -5.48' INV: (SE) -5.52'			SANITAR.			-	
=====						V) -5.62'		\ \	
		-======================================							
4-FM (B)		4_FM (B)		4-FM (C) 4-FM(B)		4-FM (C)			
	89+00								
	RIVER	VIEW BLVD				)+00		7=========	
	6-WM	(B)		б-WM (B)		6-WM (B)			
			/	/		0-WM (B)			5-W (B)
	HDPE (DR1	1) FM PIPE			10" PVC(DR	r—18)—/		1	
K. 7					4" ABANDONED DIP FM	(BUILT 1973)	/		
			/		RACTOR TO PROTE		/		
	3'	MIN. SEPARATION STRUCTURE (TYP.)		GUAF	RACTOR TO PROTE	NLY IF UNAVOID	DABLE		
					INSTALL	± 14 LF OF 4	" PVC		
				· ·	(0	± 14 LF OF 4 2900 DR18) FM			
	, ,								
			-)						
	RIVERVI	ew blvd (e	) SIA	A: 8/+40	to 91+6	50	LIFT STATIOI	V 4—D VALVE V,	'4 <i>ULT</i>
		– EXIST. GRADE OVER	FM				PROP	. 4" PLUG V	ALVE
						4" F	VC (C900 DR PE, ALL REST		
						±36"			
					HDPE	↓			
						E	IDPE MJ ADAP	TER	
4" H	DPE (DR11) FM PIPE DIRECT BURY						-	HDPE DR11	PVC DR18
				-8" PVC SAN				0" PVC(DR-18)	SAN
			SANITARY						SANITAR RIM EL:
			RIM EL: 3 INV: (W) INV: (SE)	-5.48' INV: (N	W) -5.62'				
50	89+0	0	89+50	)	90+00		90+50	)	91+
					MANATEE				
PROFESS	SHEA SHOUN, STATE O SIONAL ENGINEER, LICI	ENSE NO. 60923.		PUBI	IC WORKS				Å
	S BEEN DIGITALLY SI SHOUN ON THE DATE I	GNED AND SEALED BY INDICATED HERE.		PROJECT #	404-6089781	SURVEYED	GFY	03/2023	RIVER
ONSIDERED S	PIES OF THIS D SIGNED AND SEALED VERIFIED ON ANY ELE	AND THE SIGNATURE	F	SEC./TWN./RGE SCALE	20/34/17 SEE PLANS	DESIGNED DRAWN	JSS/BLR BLR/JSS	08/2023 08/2023	
Μυσι ΒΕ	VENTILU UN ANT ELE	. CINUNIC CUPIES,	1				· - =	· · · 1	

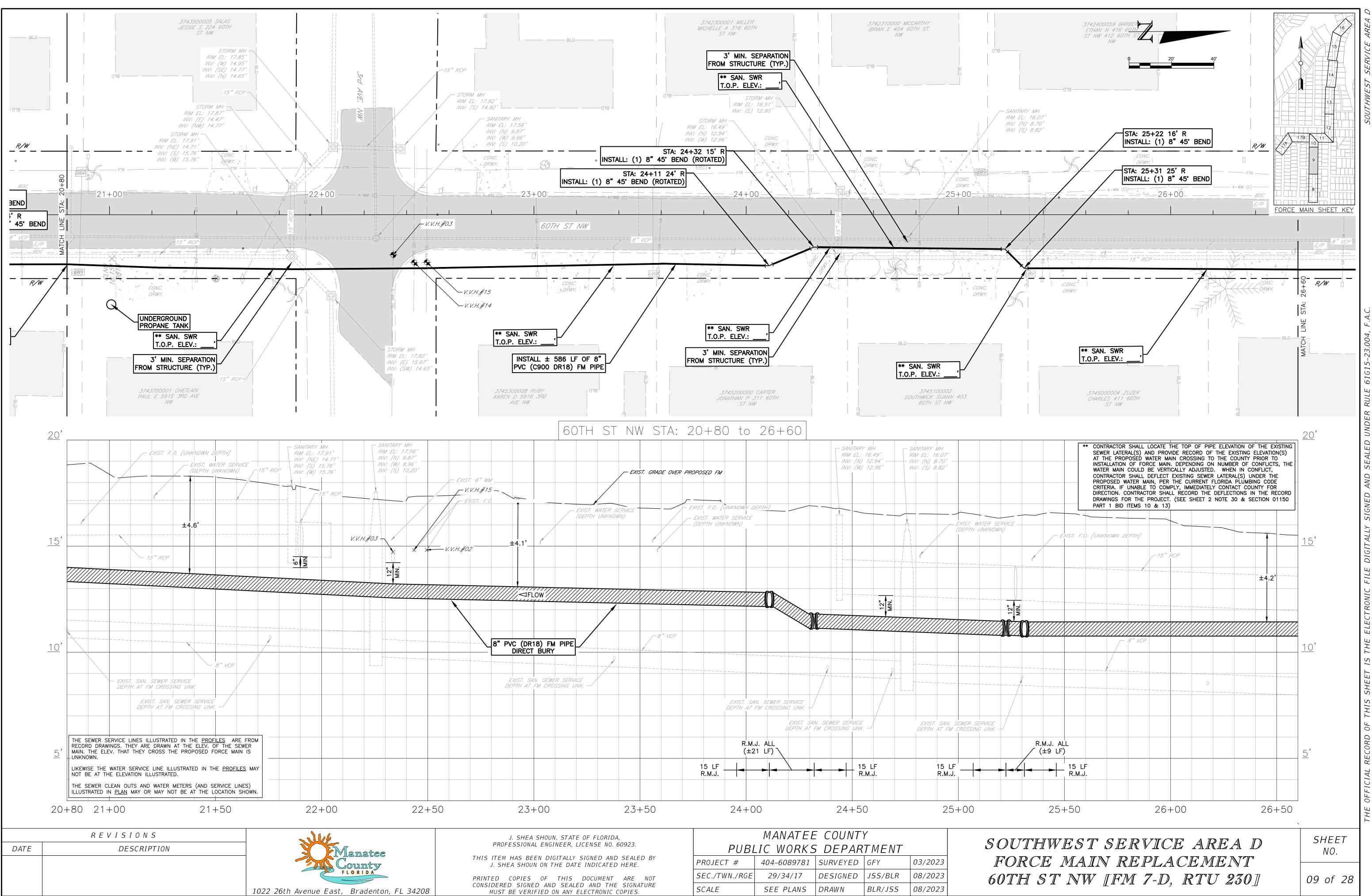
[FM 4-D, RTU 231] SEE PLANS | DRAWN | BLR/JSS | 08/2023 | Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:38:42 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P\_DESIGN.DWG

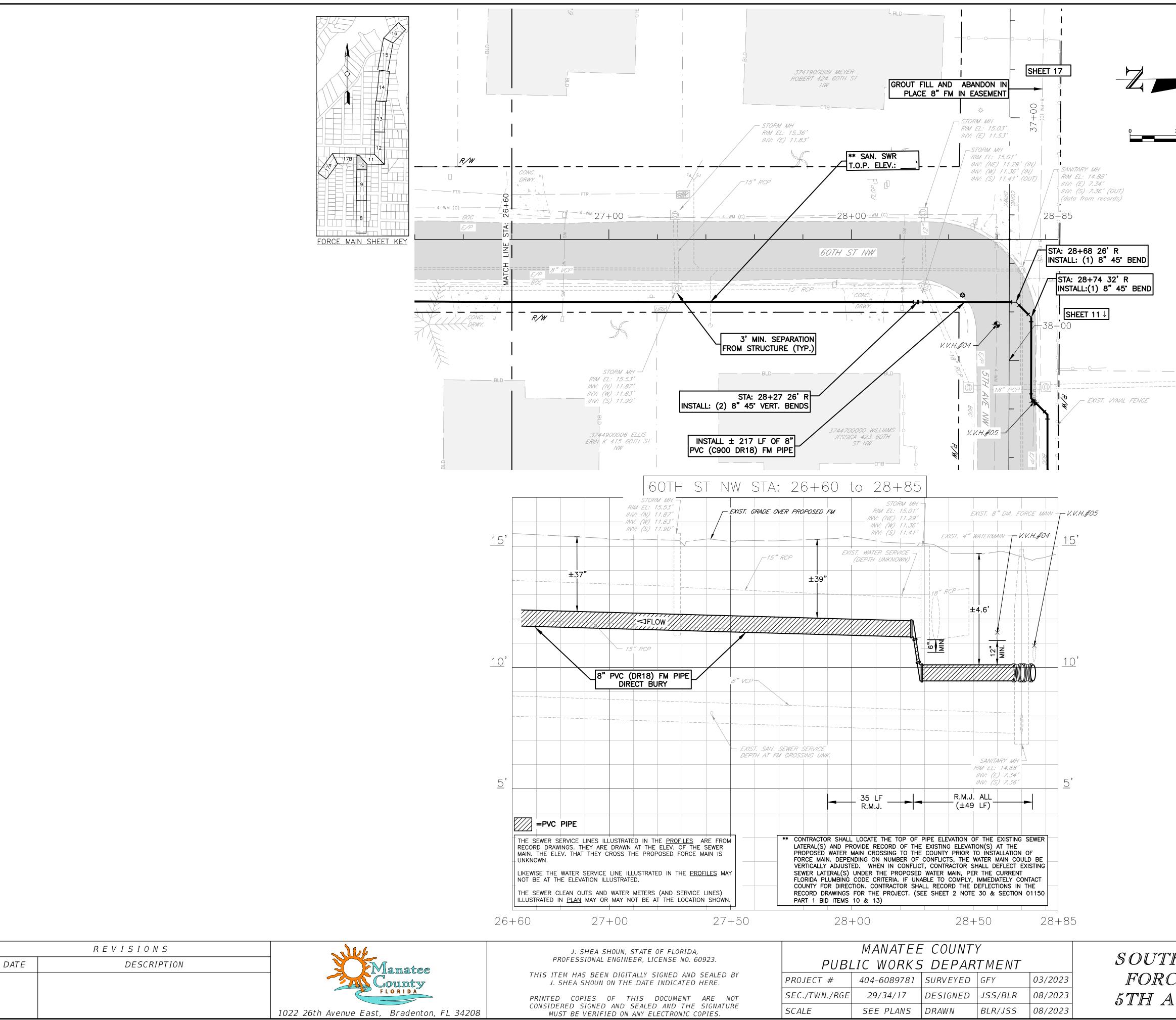
\_\_LIFT STATION 4-D (RTU 231) \_\_\_\_\_10" PVC(DR-18) — SANITARY MH RIM EL: 3.17' INV: (SE) –6.53' INV: (W) -6.43' INV: (N) -6.71' N/F PID: 3049000007 OWNER: 150 SECOND AVENUE INC 5260 RIVERVIEW BLVD ORI 202241095377 91+84 91+00 N/F PID: 3049000007 OWNER: 150 SECOND AVENUE INC 5260 RIVERVIEW BLVD ORI 202241095377 \_\_LIFT STATION 4\_D WET WELL · ()' 10" PVC(DR-18) SAN--5' i| i+--+----| ++--+ <u>-10</u>' RY MH -6.53' -=PVC PIPE -*6.43* ' -6.71' 91+50 -00 SOUTHWEST SERVICE AREA D SHEET FORCE MAIN REPLACEMENT NO. RVIEW BLVD WARNERS BAYOU EAST

07 of 28



Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:38:53 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P\_DESIGN.DWG

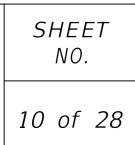


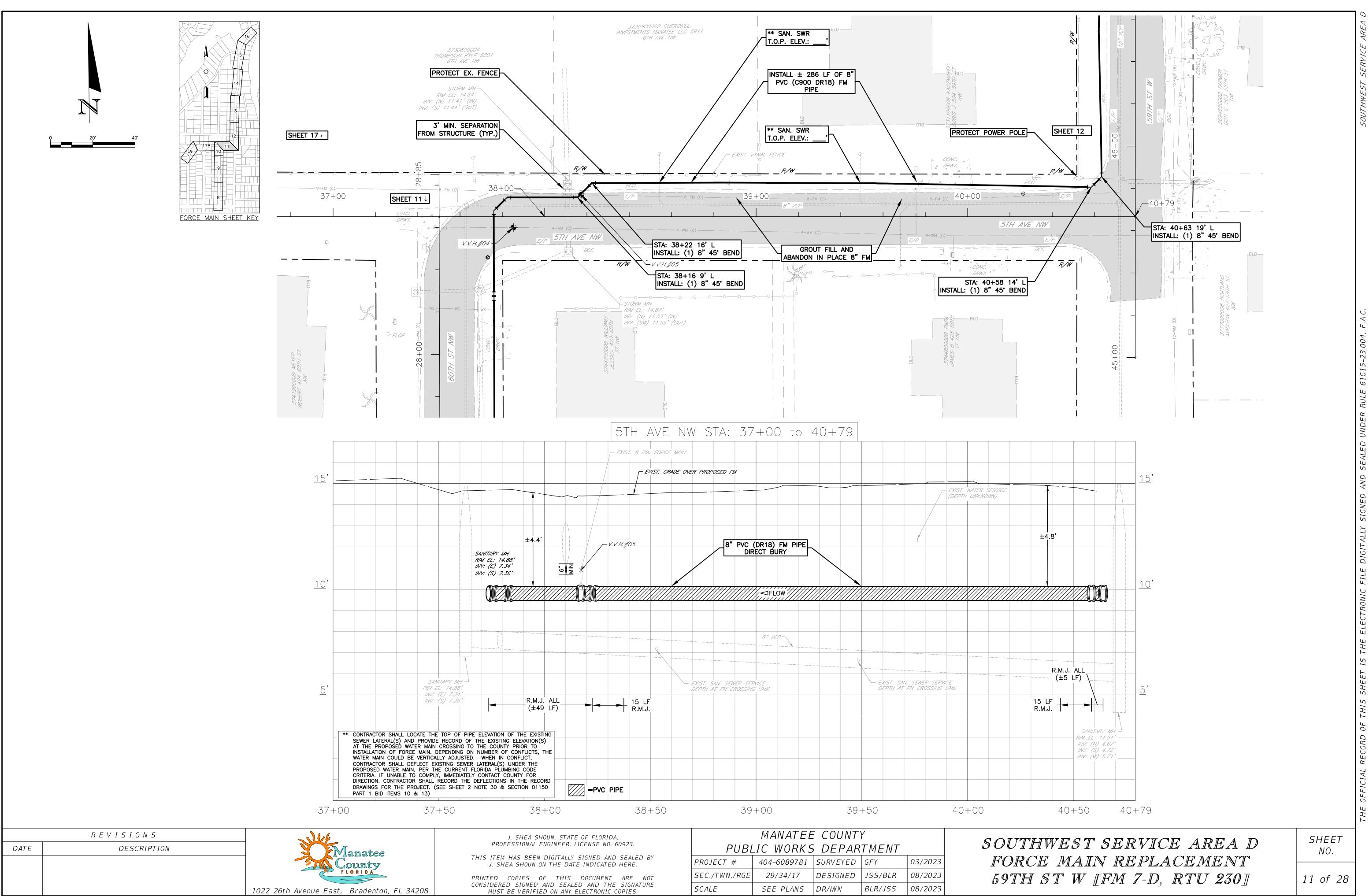


1022	26th	Avenue	East,	Bradenton,	FL	342

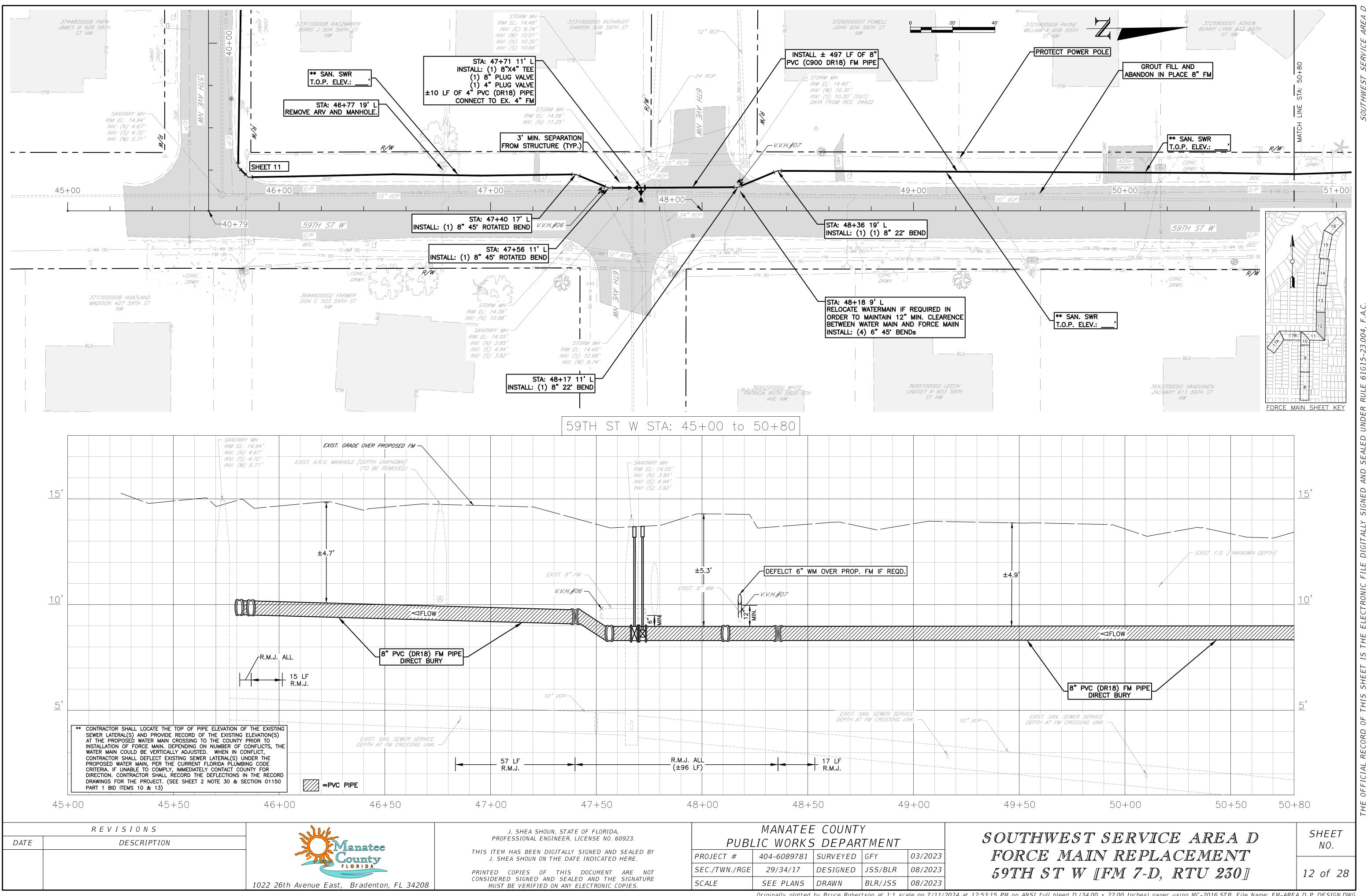
Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:39:23 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P\_DESIGN.DWG

SOUTHWEST SERVICE AREA D FORCE MAIN REPLACEMENT 5TH AVE NW [FM 7-D, RTU 230]

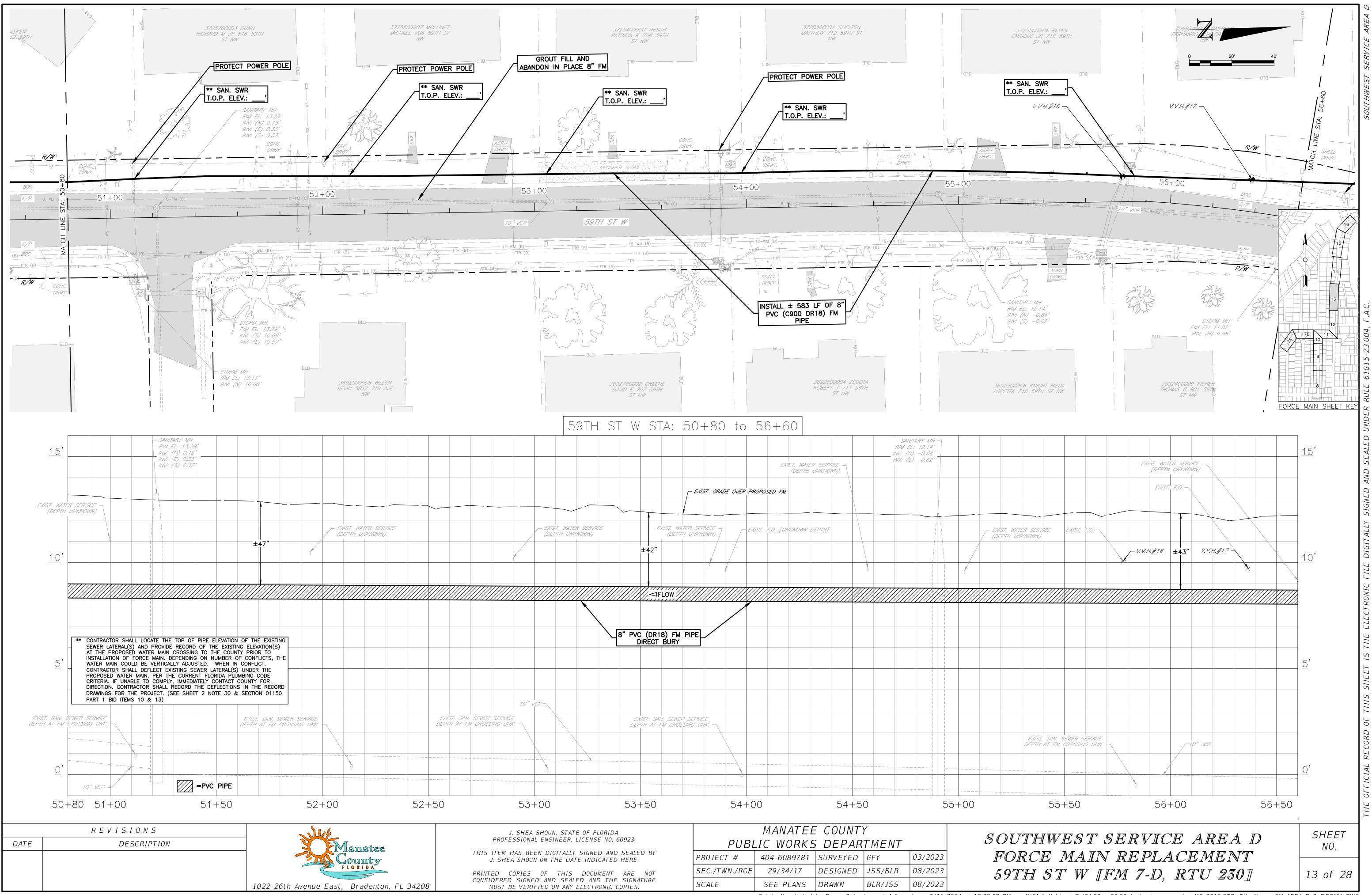




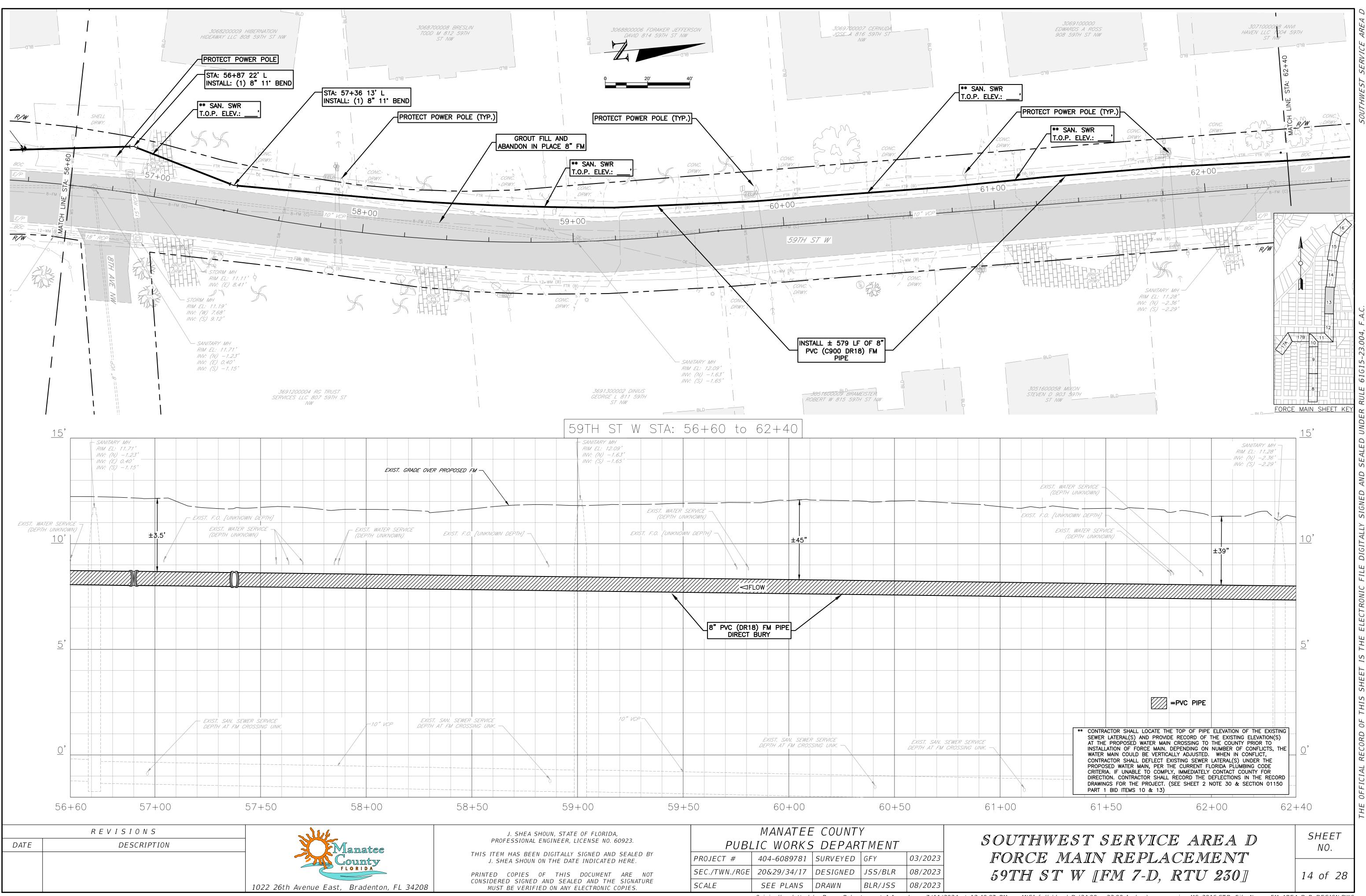
Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:39:32 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P\_DESIGN.DWG



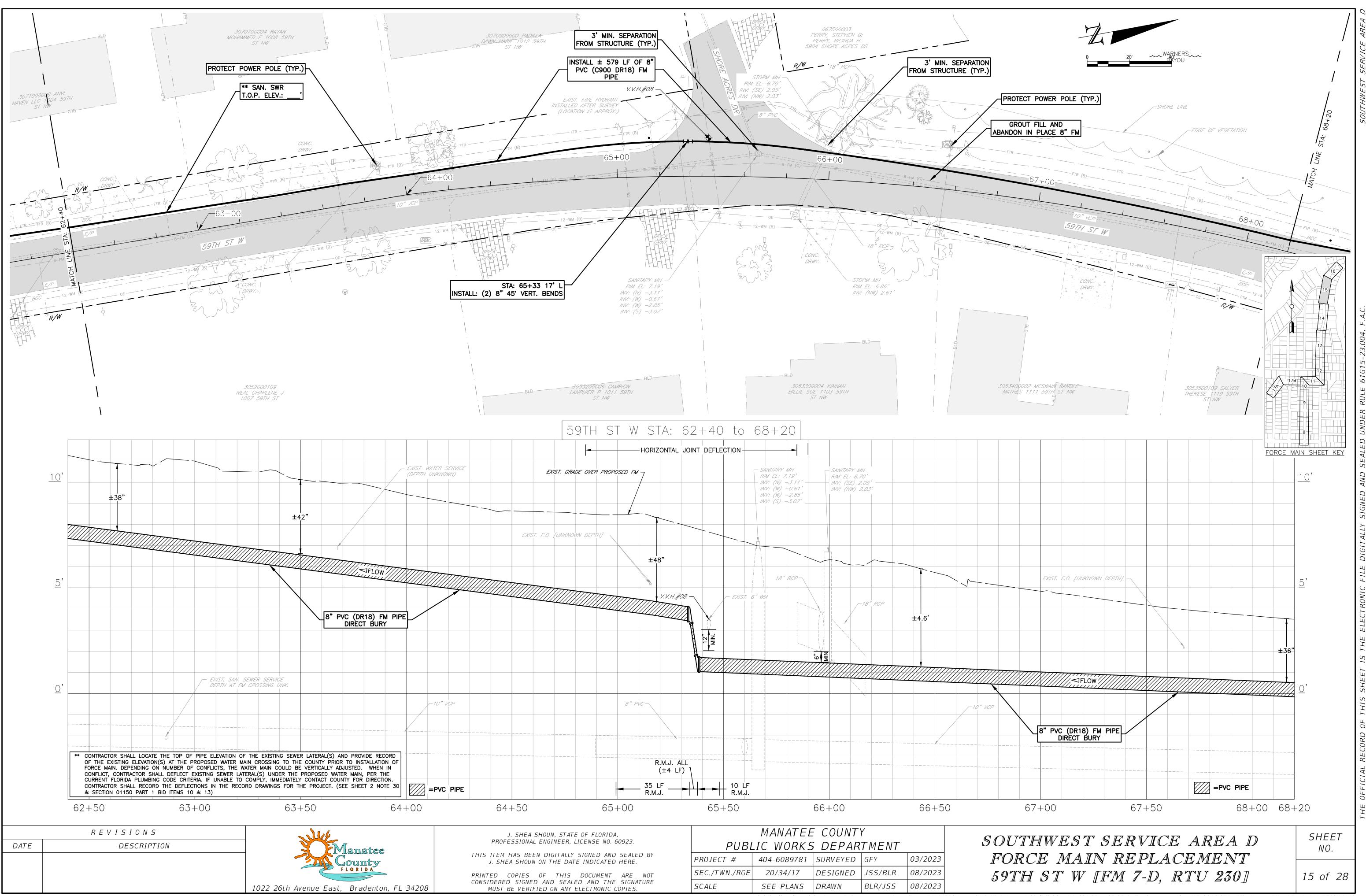
Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:53:15 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P\_DESIGN.DWG



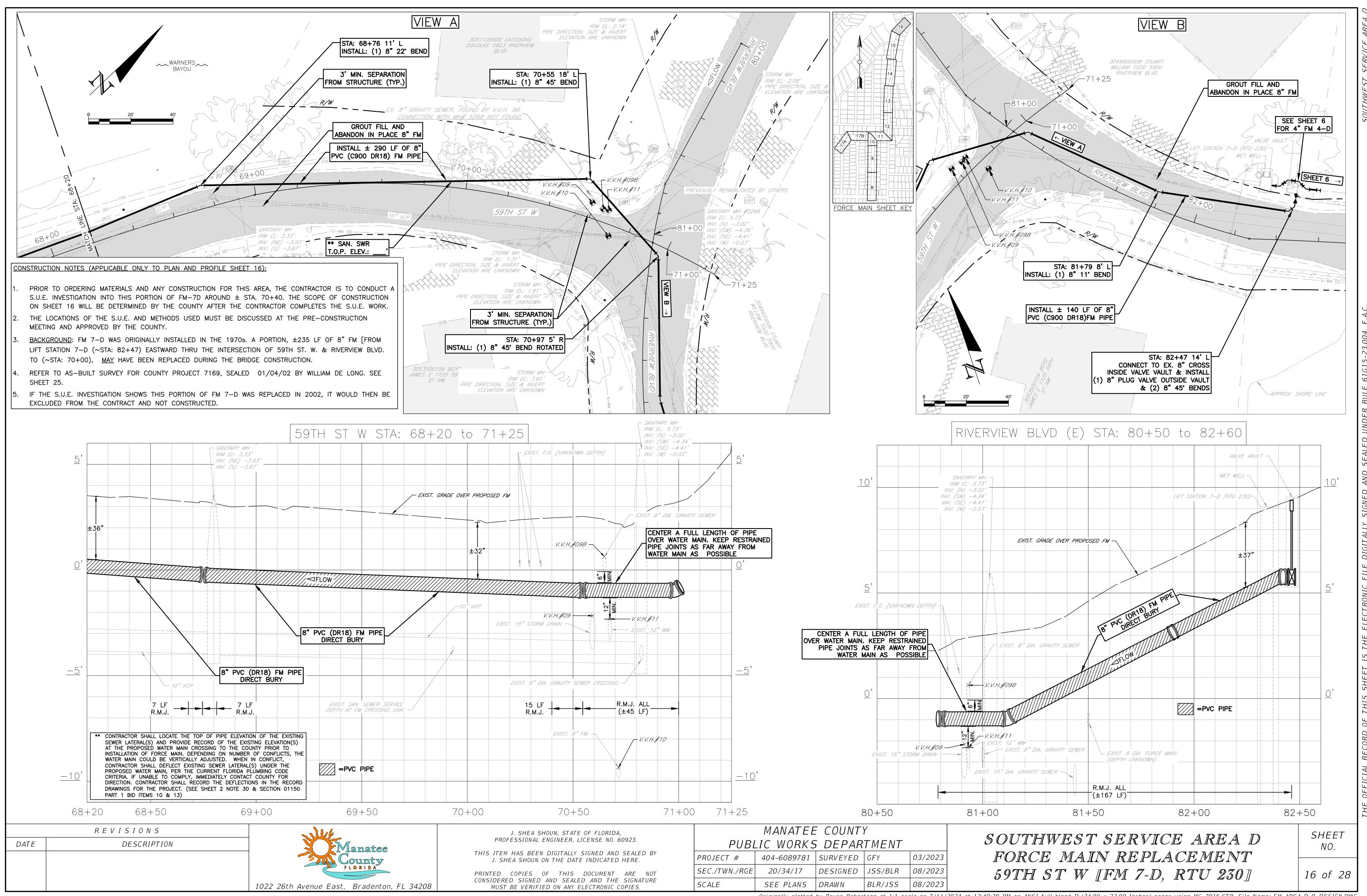
Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:39:57 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P\_DESIGN.DWG



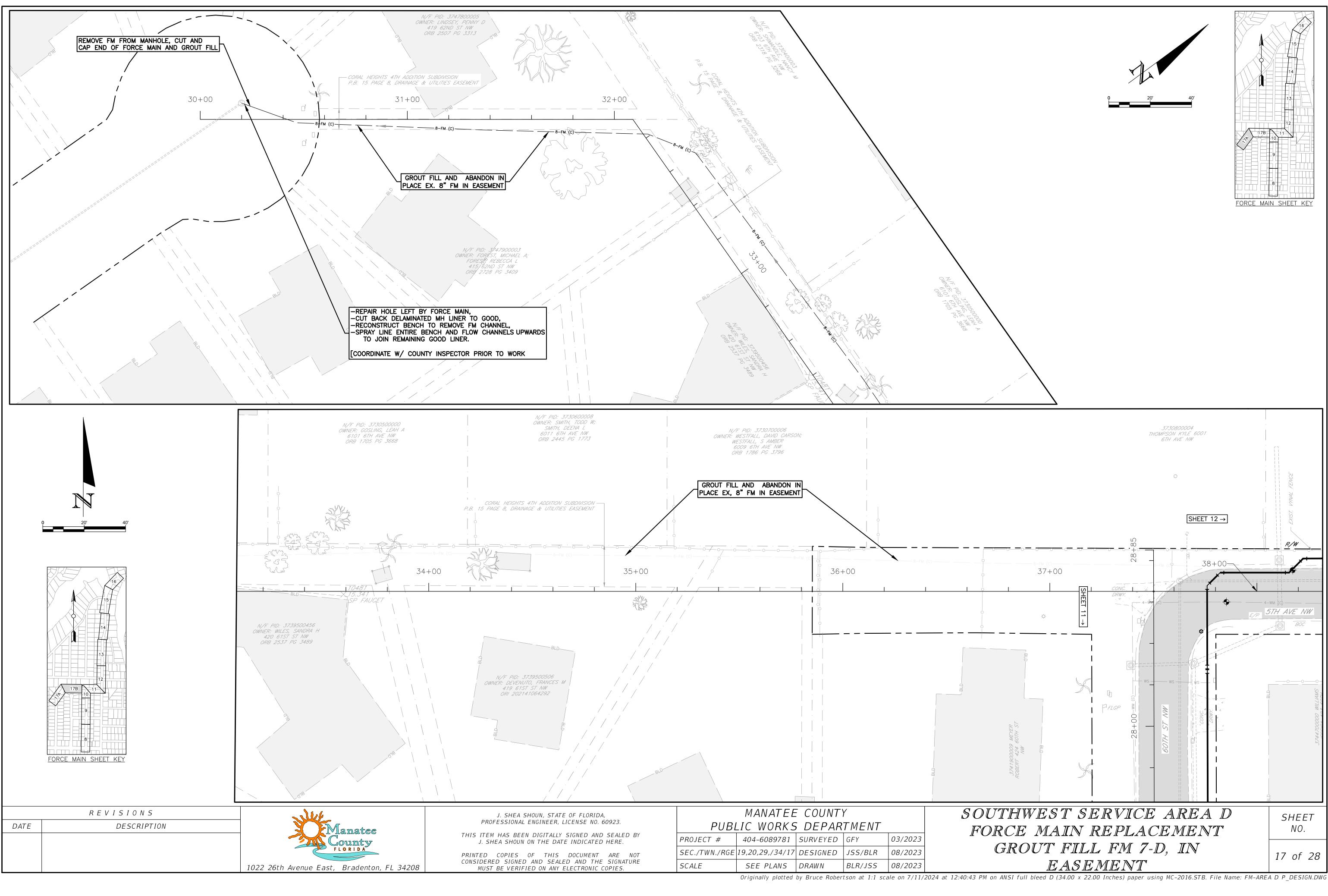
Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:40:07 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P\_DESIGN.DWG

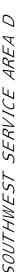


Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:40:17 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P\_DESIGN.DWG

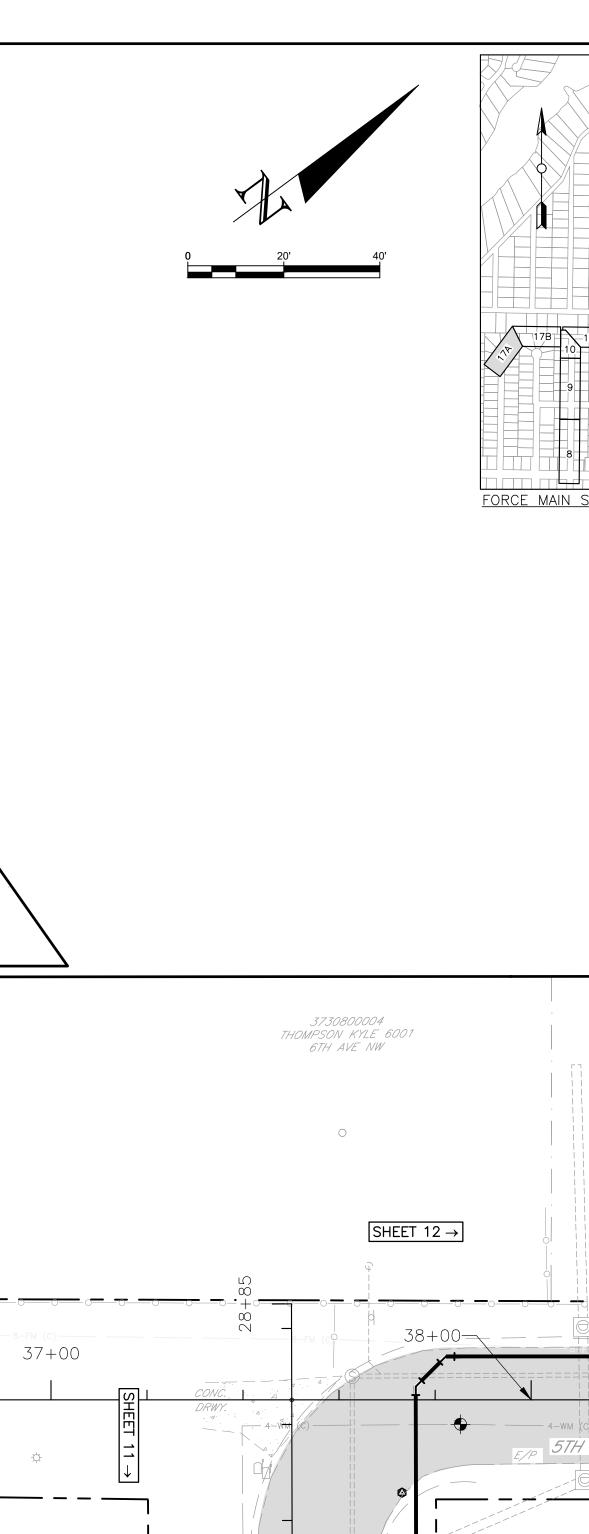


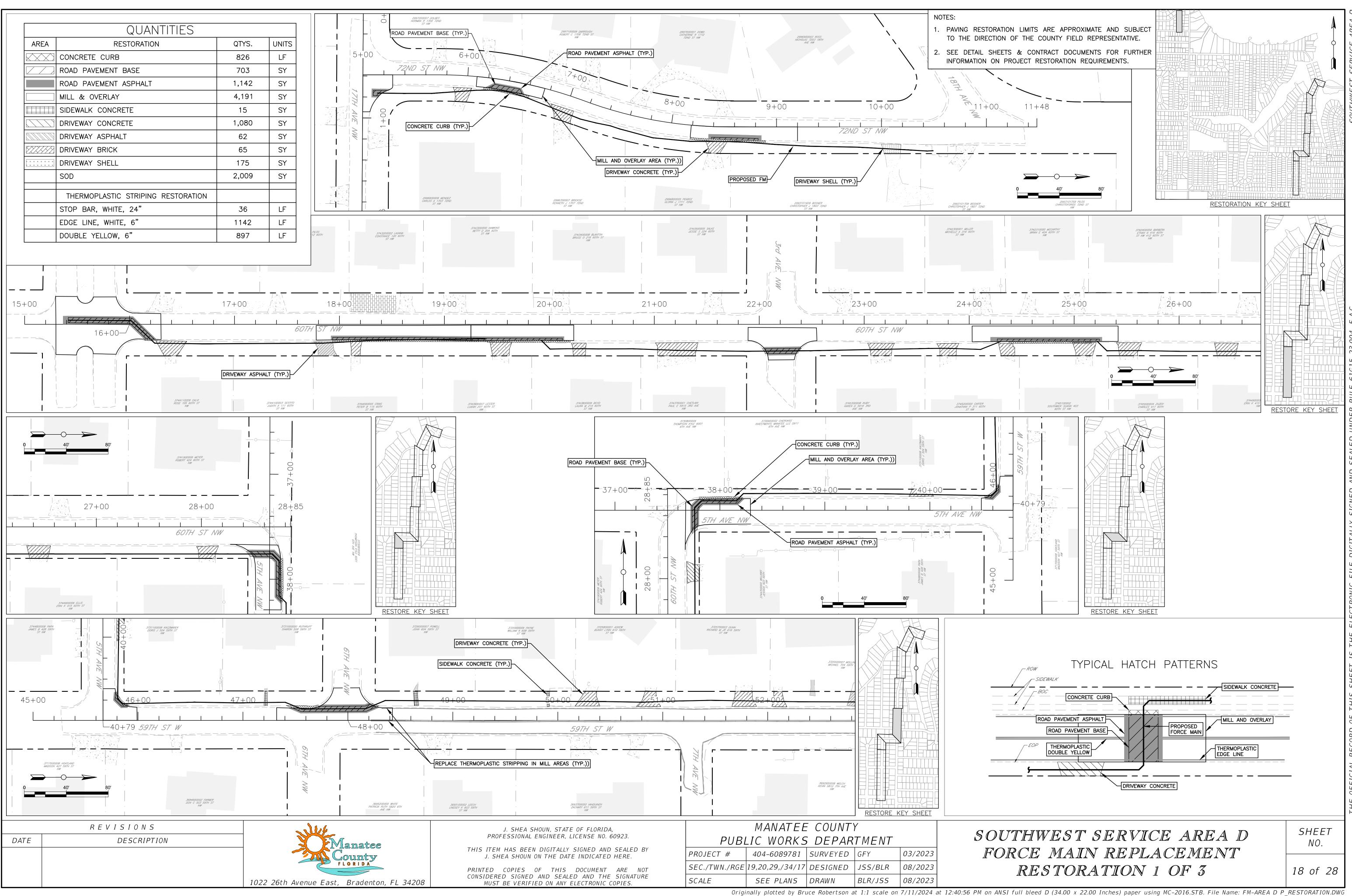
Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:40:29 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P\_DESIGN.DWG

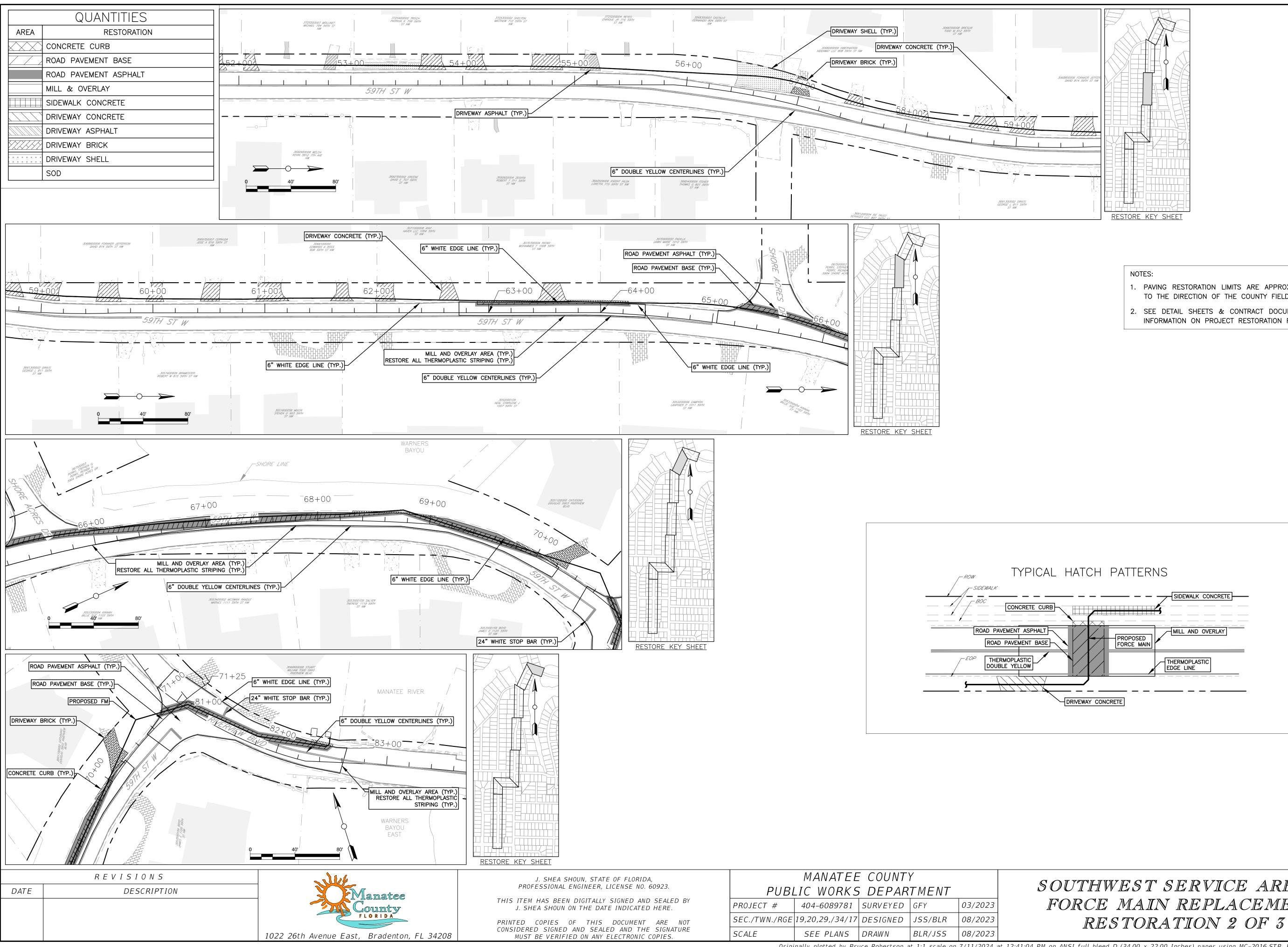












RINTED	COPIES	OF	THIS	D	осим	ENT	ARE	NOT
ONSIDER	ED SIGNED	AND	SEAL	ED	AND	THE	SIGNA	ATURE
MILC			NI ANIV	EIE	CTDO	NICC	ODIEC	

PUBI		SOU			
PROJECT #	404-6089781	SURVEYED	GFY	03/2023	FC
SEC./TWN./RGE	19,20,29,/34/17	DESIGNED	JSS/BLR	08/2023	
SCALE	SEE PLANS	DRAWN	BLR/JSS	08/2023	

- 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.

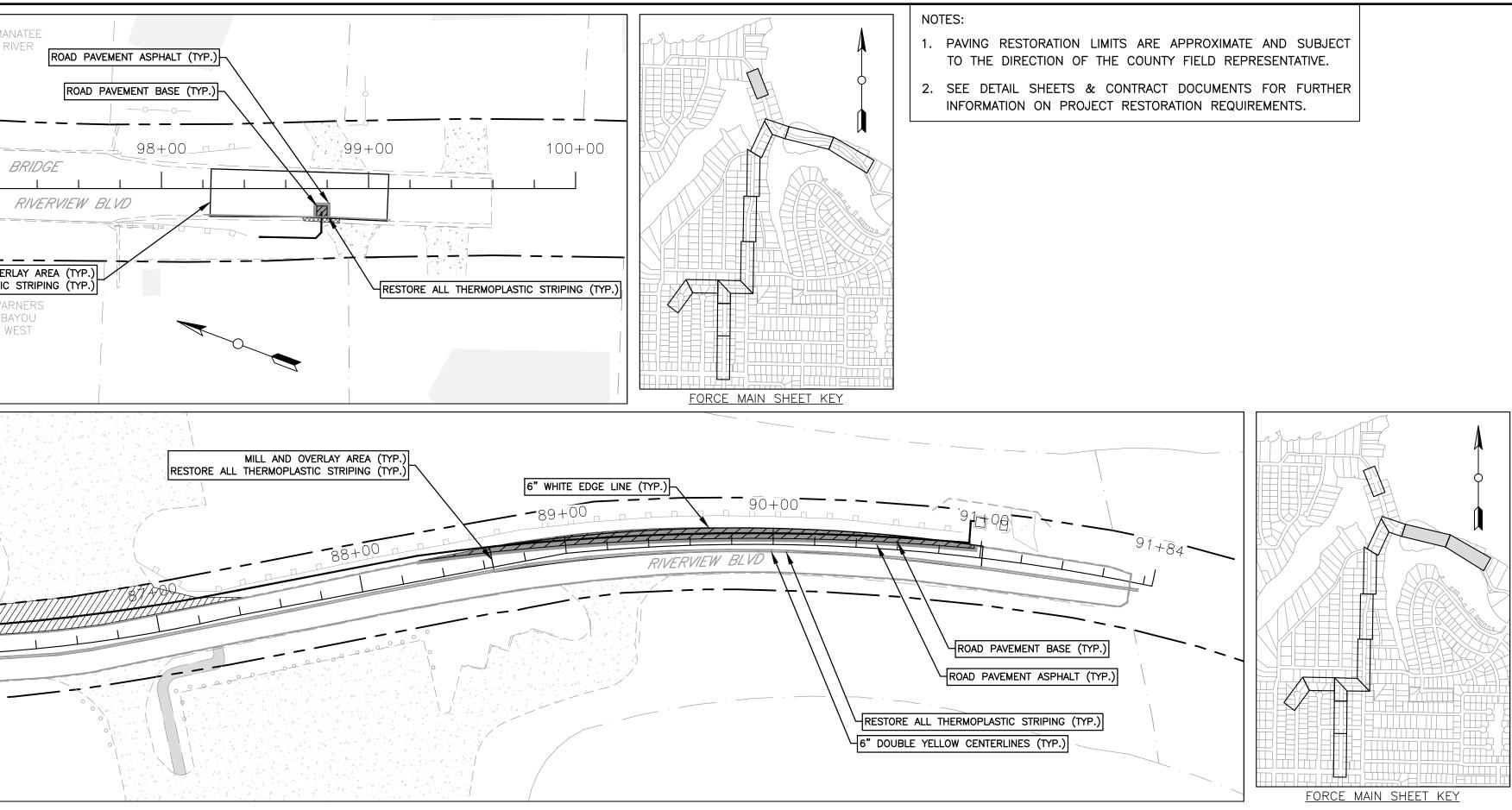
Si	HEE NO.	
19	of	28

19

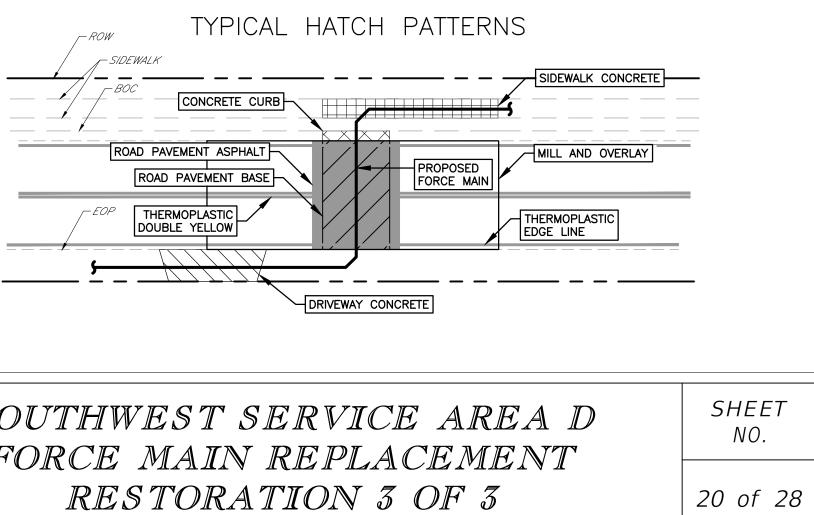
RF

	QUANTITIES		
AREA	RESTORATION		. MAN
	CONCRETE CURB		
	ROAD PAVEMENT BASE		
	ROAD PAVEMENT ASPHALT		
	MILL & OVERLAY		97+00
	SIDEWALK CONCRETE	95+00	
	DRIVEWAY CONCRETE	96+00=	
	DRIVEWAY ASPHALT		
	DRIVEWAY BRICK		MILL AND OVER
<pre></pre>	DRIVEWAY SHELL		RESTORE ALL THERMOPLASTIC
	SOD		WAF   BA   W
	MANATEE RIVER	Image: state	

	REVISIONS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	J. SHEA SHOUN, STATE OF FLORIDA,		MANATEL	E COUNT	Y		C
DATE	DESCRIPTION	E Manatee	PROFESSIONAL ENGINEER, LICENSE NO. 60923.	PUB	LIC WORKS	5 DEPAR	TMENT		SC SC
		County	THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J. SHEA SHOUN ON THE DATE INDICATED HERE.	PROJECT #	404-6089781	SURVEYED	GFY	03/2023	$\square$
		FLORIDA	PRINTED COPIES OF THIS DOCUMENT ARE NOT	SEC./TWN./RGE	19,20,29,/34/17	DESIGNED	JSS/BLR	08/2023	1
		1022 26th Avenue East, Bradenton, FL 34208	CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	SCALE	SEE PLANS	DRAWN	BLR/JSS	08/2023	



Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:52:32 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using MC-2016.STB. File Name: FM-AREA D P\_RESTORATION.DWG



## BASELINE HORIZONTAL CONTROL TABLES

						72nd St NW					
SEGMENT	LENGTH	RADIUS	DELTA ANGLE	LINE/CHORD	CHORD LENGTH	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END EASTING
L1	72.79			N00°00'00.00"E		5+00.00	1156668.23	450811.46	5+72.79	1156741.02	450811.46
C1	83.84	396.98	012.10	N06°03'00.96"E	83.68	5+72.79	1156741.02	450811.46	6+56.63	1156824.24	450820.28
C2	54.73	396.98	007.90	N16°02'59.43"E	54.68	6+56.63	1156824.24	450820.28	7+11.36	1156876.79	450835.40
С3	41.57	396.98	006.00	N17°43'47.41"E	41.55	7+11.36	1156876.79	450835.40	7+52.93	1156916.37	450848.05
C4	102.06	396.98	014.73	N07°21'53.66"E	101.78	7+52.93	1156916.37	450848.05	8+54.99	1157017.31	450861.10
L2	181.21			N00° 00' 00.00"E		8+54.99	1157017.31	450861.10	10+36.20	1157198.52	450861.10
L3	111.93			N00° 00' 00.00"E		10+36.20	1157198.52	450861.10	11+48.13	1157310.45	450861.10

						17th Ave NW					
SEGMENT	LENGTH	RADIUS	DELTA ANGLE	LINE/CHORD	CHORD LENGTH	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END E
L4	195.71			S89° 37' 00.00"E		0+00.00	1156668.62	450752.54	1+95.71	1156667.32	450948

	Riverview Blvd (W)											
SEGMENT	LENGTH	RADIUS	DELTA ANGLE	LINE/CHORD	CHORD LENGTH	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END E	
L7	63.86			S32°47'33.18"E		95+00.00	1155841.80	455143.35	95+63.86	1155788.11	45517	
L6	129.82			S22° 37' 45.62"E		95+63.86	1155788.11	455177.94	96+93.68	1155668.29	45522	
L5	306.20			S19°46'31.80"E		96+93.68	1155668.29	455227.89	99+99.88	1155380.14	45533	

	Riverview Blvd (E)												
SEGMENT	LENGTH	RADIUS	DELTA ANGLE	LINE/CHORD	CHORD LENGTH	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END E		
L8	75.73			S17°54'48.62"E		80+00.00	1155104.79	455407.18	80+75.73	1155032.74	45543		
C5	151.58	339.81	025.56	S44°40'50.35"E	150.32	80+75.73	1155032.74	455430.47	82+27.30	1154925.85	45553		
C6	206.18	2086.66	005.66	S66° 46' 47.00"E	206.09	82+27.30	1154925.85	455536.17	84+33.48	1154844.60	45572		
C7	301.65	708.26	024.40	S78°52'15.12"E	299.38	84+33.48	1154844.60	455725.57	87+35.13	1154786.81	45601		
L9	164.54			S88° 43' 23.97"E		87+35.13	1154786.81	456019.32	88+99.67	1154783.14	45618		
C8	284.59	934.20	017.45	S74°43'50.83"E	283.49	88+99.67	1154783.14	456183.82	91+84.26	1154708.49	45645		

						59th St WEST					
SEGMENT	LENGTH	RADIUS	DELTA ANGLE	LINE/CHORD	CHORD LENGTH	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END E
L10	1088.61			N00° 51' 02.51"E		45+00.00	1152520.03	455077.98	55+88.61	1153608.52	45509
С9	145.00	663.09	012.53	N11° 38' 00.98"E	144.71	55+88.61	1153608.52	455094.14	57+33.61	1153750.26	45512
C10	235.28	715.37	018.84	N07°46'30.48"E	234.22	57+33.61	1153750.26	455123.32	59+68.89	1153982.33	45515
L11	431.52			NOO°49'18.23"E		59+68.89	1153982.33	455155.01	64+00.41	1154413.80	45516
C11	499.06	1101.63	025.96	N16°16'42.80"E	494.80	64+00.41	1154413.80	455161.20	68+99.47	1154888.77	45529
C12	225.57	314.00	041.16	N53° 31' 18.66"E	220.75	68+99.47	1154888.77	455299.89	71+25.03	1155020.00	45547

	5th Ave NW										
SEGMENT	LENGTH	RADIUS	DELTA ANGLE	LINE/CHORD	CHORD LENGTH	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END EASTING
L12	208.96			N35°58'03.34"E		30+00.00	1152429.91	454086.01	32+08.96	1152599.03	454208.74
L13	870.31			S89°11'12.80"E		32+08.96	1152599.03	454208.74	40+79.28	1152586.68	455078.97

	60th St NW										
SEGMENT	LENGTH	RADIUS	DELTA ANGLE	LINE/CHORD	CHORD LENGTH	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END EASTING
L14	694.55			N00° 38' 58.32"E		15+00.00	1151226.31	454734.48	21+94.55	1151920.82	454742.35
L15	60.00			N00° 33' 14.09"E		21+94.55	1151920.82	454742.35	22+54.55	1151980.81	454742.93
L16	630.58			N00° 38' 58.55"E		22+54.55	1151980.81	454742.93	28+85.13	1152611.35	454750.08

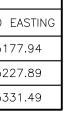
	REVISIONS	- Alle	
DATE	DESCRIPTION	Manatee	
		County	TF
		FLORIDA	PF CC
		1022 26th Avenue East, Bradenton, FL 34208	

## THE INFORMATION BELOW IS EXTRACTED FROM GEORGE F YOUNG SURVEYORS REPORT FOR THE PURPOSE OF CONSTRUCTION. THE FULL SURVEYORS REPORT AND CAD DELIVERABLES ARE AVAILABLE UPON REQUEST, FROM THE MANATEE COUNTY, PUBLIC WORKS DEPARTMENT, CIP DESIGN & REVIEW DIVISION, UTILITY ENGINEERING SECTION.

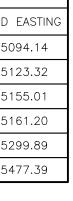
- 1. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT. THIS IS NOT A BOUNDARY SURVEY.
- 2. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF THE RECORD DOCUMENTS AS SHOWN AND STATED HEREON, ALL OF THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA.
- 3. THE OWNERS AND RECORDING INFORMATION FOR 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.
- "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.

SUE / VVH TABLE

361.10	
361.10	
EASTING	
48.25	
	1



EASTING 5430.47 536.17 5725.57 5019.32 183.82 457.30



EASTING 208.74 078.97

Organization:	GFY
Project Name:	22YO4102LS
Project Date:	12/12/2023
Book	250

ook:	259												
				Utililty				Ex. Ground	Т.О.Р.	Measure			
V.V.H	Description	Diameter	Material	Туре	XY Source	Easting	Northing	Elevation	Elevation	Down (ft)	Utility Owner	SHEET	GFY's #
#		(in)				(ft)	(ft)	(ft)	(ft)	(ft)			
#01	Force Main	20	unk	FM	RTK/GPS	452349.5	1132445.9	20.1	12.1	8.0	Manatee Co	8	201
#02	Water Main	16"	CIP	WM	RTK/GPS	454753.7	1151286.8	20.1	16.9	3.2	Manatee Co	8	202
#03	Water Main	6"	AC	WM	RTK/GPS	454761.7	1151959.8	17.2	14.7	2.4	Manatee Co	9	203
#04	Water Main	4"	AC	WM	RTK/GPS	454784.9	1152585.8	14.6	11.4	3.2	Manatee Co	10	206
#05	Force Main	8"	DIP	FM	RTK/GPS	454817.1	1152600.7	14.2	10.9	3.3	Manatee Co	10	207
#06	Force Main	unk	unk	FM	RTK/GPS	455072.0	1152772.6	13.8	9.8	4.0	Manatee Co	12	208
#07	Water Main	6"	CIP	WM	RTK/GPS	455069.2	1152838.2	13.6	9.7	4.0	Manatee Co	12	209
#08	Water Main	6"	AC	WM	RTK/GPS	455160.8	1154558.6	7.5	3.5	4.0	Manatee Co	12	212
#09	Storm Water	unk	unk	STORM	RTK/GPS	455413.0	1155001.9	2.6	-2.2	4.8	Manatee Co	16A	213
#9B	Sanitary Sewer	8"	PVC	SS	RTK/GPS	455418.8	1155003.4	2.5	0.6	1.9	Manatee Co	16A	214
#10	Force Main	unk	unk	FM	RTK/GPS	455429.7	1154996.3	2.1	-9.4	11.5	Manatee Co	16A	216
#11	Water Main	unk	unk	WM	RTK/GPS	455421.0	1155004.9	2.5	-2.3	4.8	Manatee Co	16A	215
#12	Force Main	8"	POLY	FM	RTK/GPS	450835.0	1156681.9	10.0	5.3	4.6	Manatee Co	4	217
#14	Cable	1"	LEAD	ВТ	RTK/GPS	454765.4	1151969.6	17.5	14.8	2.7	Verizon	9	204
#15	Cable	1"	DIR BUR	ВТ	RTK/GPS	454765.4	1151975.6	17.5	14.8	2.7	Verizon	9	205
#16	Cable	1 1/4"	SUB DUCT (X2)	FOC	RTK/GPS	455082.1	1153597.7	12.3	10.1	2.2	Verizon	13	210
#17	Cable	1 1/4"	SUB DUCT	FOC	RTK/GPS	455085.4	1153658.7	12.4	9.7	2.6	Verizon	13	211
#18	Force Main	4"	DIP	FM	RTK/GPS	455194.3	1155715.0	7.4	4.1	3.3	Manatee Co	5	105
#19	Force Main	4"	HDPE	FM	RTK/GPS	455257.5	1155517.3	8.1	1.8	6.3	Manatee Co	5	106
#20	Force Main	4"	PVC	FM	RTK/GPS	455779.0	1154848.3	4.8	1.3	3.5	Manatee Co	6	108
#21	Force Main	4"	UNK	FM	RTK/GPS	455796.7	1154840.8	3.9	-6.1	10.0	Manatee Co	6	103
#22	Force Main	4"	UNK	FM	RTK/GPS	455793.8	1154831.6	4.3	-5.7	10.0	Manatee Co	6	104
#23	Force Main	4"	DIP	FM	RTK/GPS	455900.8	1154811.8	3.1	-0.6	3.7	Manatee Co	7	102
#24	Force Main	4"	PVC	FM	RTK/GPS	455919.0	1154829.8	3.1	0.1	3.1	Manatee Co	7	107
#25	Force Main	4"	DIP	FM	RTK/GPS	455995.8	1154804.4	2.7	-0.8	3.6	Manatee Co	7	101

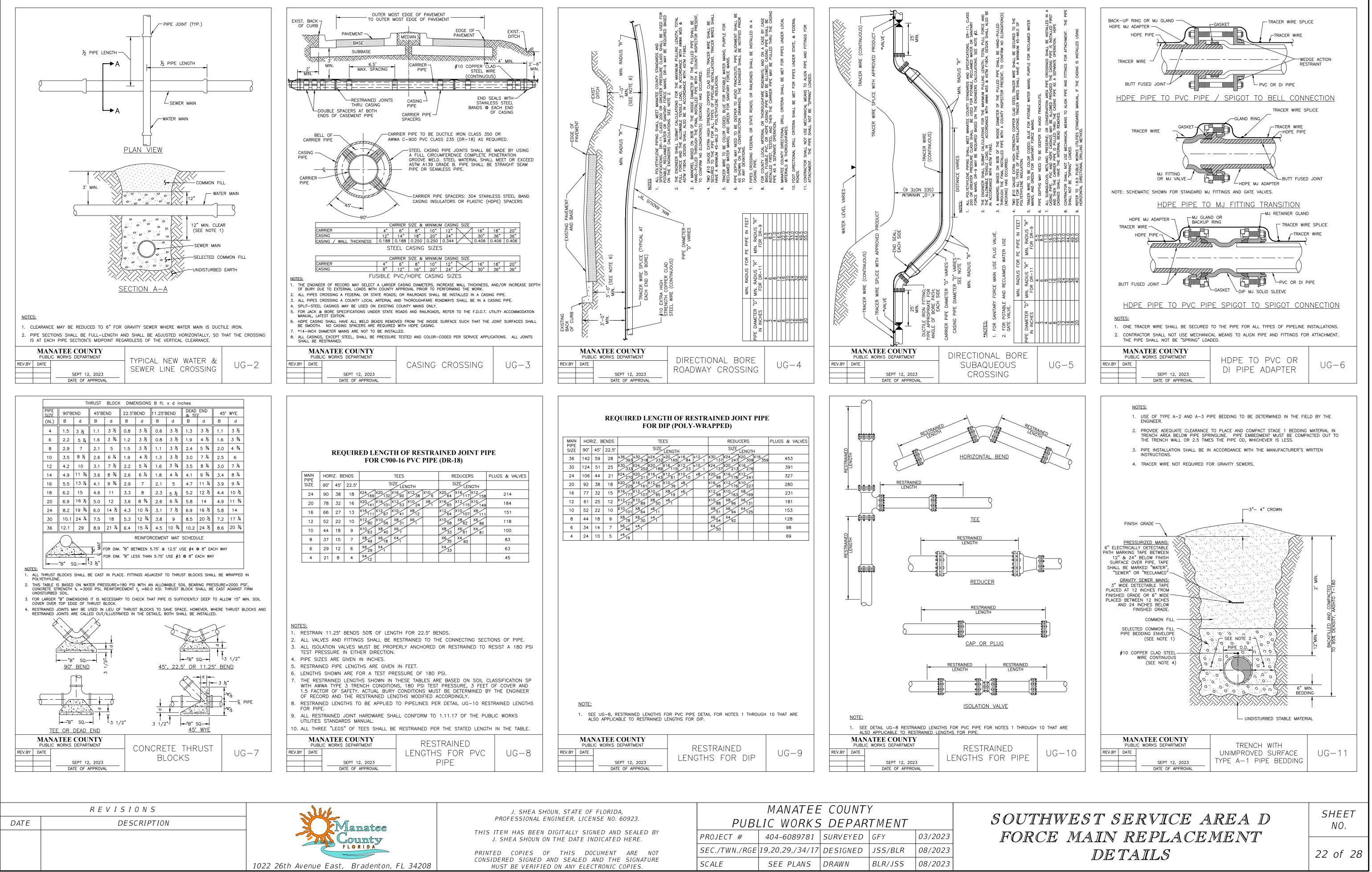
	I							
J. SHEA SHOUN, STATE OF FLORIDA,		MANATEE COUNTY						
PROFESSIONAL ENGINEER, LICENSE NO. 60923.	PUB	PUBLIC WORKS DEPARTMENT						
HIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J. SHEA SHOUN ON THE DATE INDICATED HERE.	PROJECT #	404-6089781	SURVEYED	GFY	03/2023	F		
RINTED COPIES OF THIS DOCUMENT ARE NOT	SEC./TWN./RGE	19,20,29,/34/17	DESIGNED	JSS/BLR	08/2023	SU		
NSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	SCALE	SEE PLANS	DRAWN	BLR/JSS	08/2023			
	Origi	nally platted by Bru	ca Robertson at	1.1 scale on	7/11/2021 at	12:11:27 PM on A		

7. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. ELEVATIONS ARE RELATIVE TO MANATEE COUNTY SURVEY DEPARTMENT BENCHMARK

UTHWEST SERVICE AREA D	
ORCE MAIN REPLACEMENT	
VRVEY CONTROL, SUE & VVH	
TABLES	4

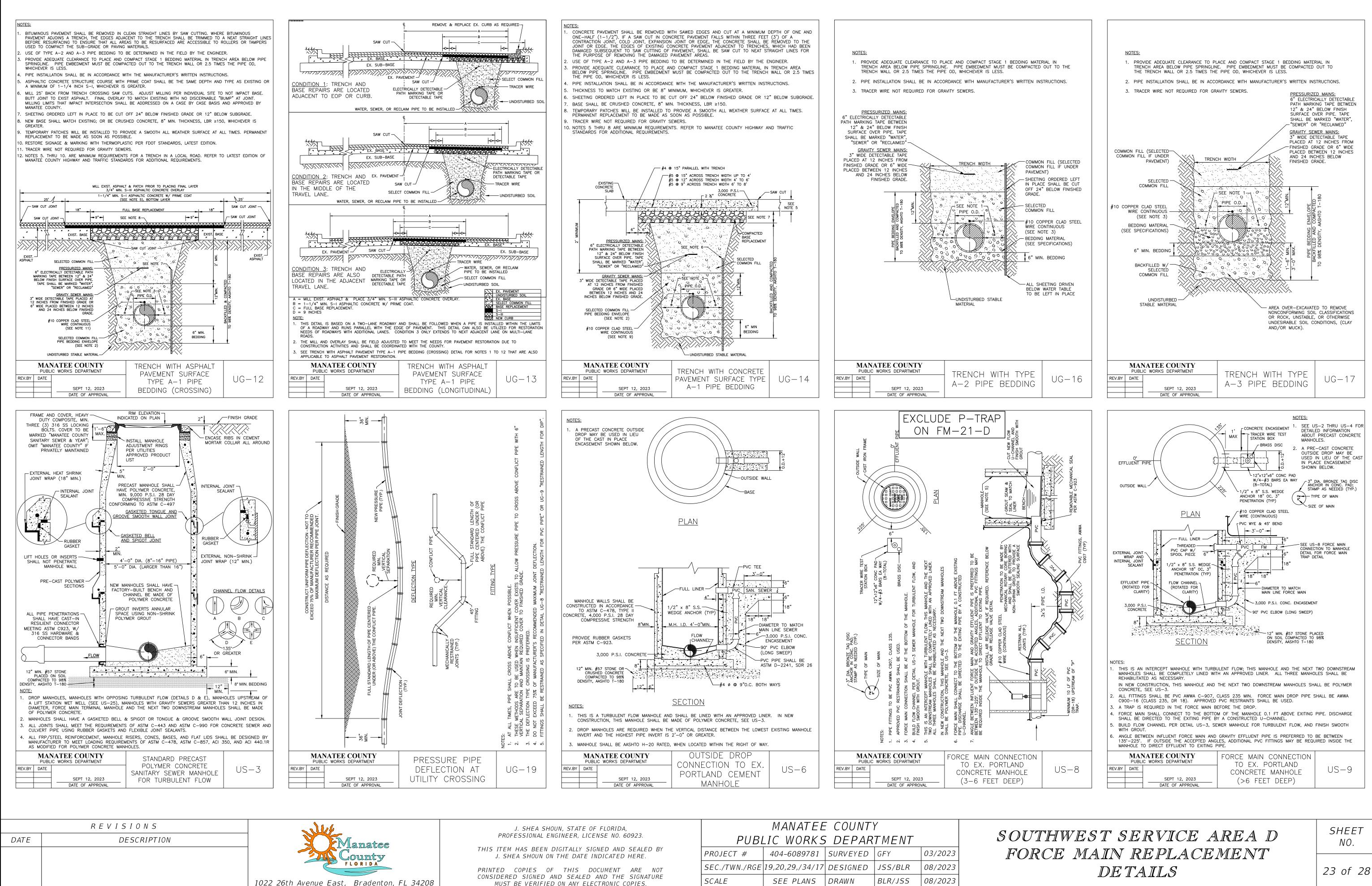
SHEET NO. 21 of 28

Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:41:27 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using CIP-2023.STB. File Name: FM-AREA D COVER & NOTES.DWG



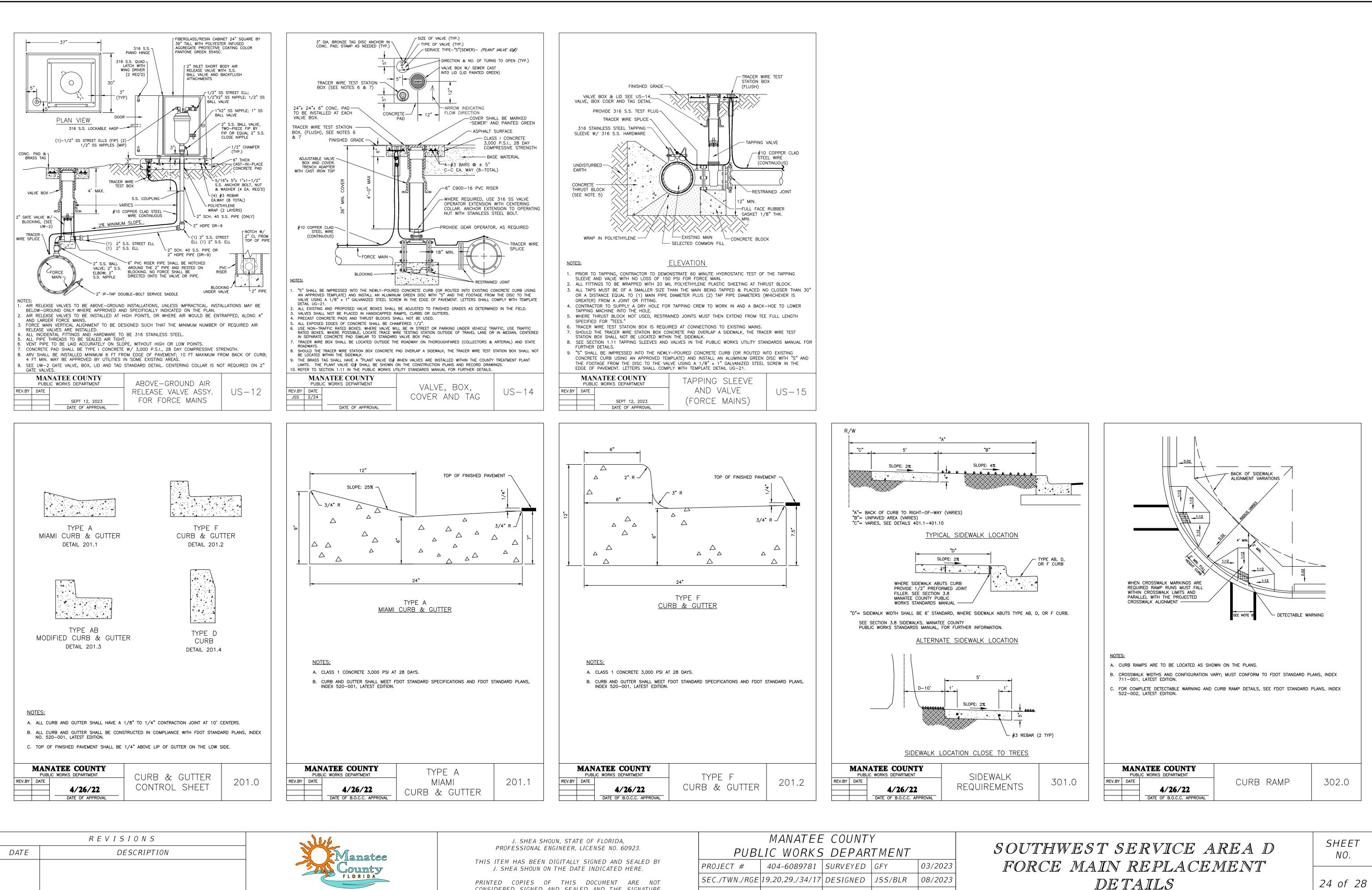
J. SHEA SHOUN, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 60923.	PUBI	MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J. SHEA SHOUN ON THE DATE INDICATED HERE.	PROJECT #		SURVEYED	GFY	03/2023	$\mathbb{F}C$
PRINTED COPIES OF THIS DOCUMENT ARE NOT	SEC./TWN./RGE	19,20,29,/34/17	DESIGNED	JSS/BLR	08/2023	
CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	SCALE	SEE PLANS	DRAWN	BLR/JSS	08/2023	

Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:41:34 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using CIP-2023.STB. File Name: FM-AREA D COVER & NOTES.DWG



J. SHEA SHOUN, STATE OF FLORIDA,		MANATEE	E COUNTY	Y		
PROFESSIONAL ENGINEER, LICENSE NO. 60923.	PUBL	SO				
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J. SHEA SHOUN ON THE DATE INDICATED HERE.	PROJECT #	404-6089781	SURVEYED	GFY	03/2023	FC
PRINTED COPIES OF THIS DOCUMENT ARE NOT	SEC./TWN./RGE	19,20,29,/34/17	DESIGNED	JSS/BLR	08/2023	
CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	SCALE	SEE PLANS	DRAWN	BLR/JSS	08/2023	
	Origin	ally platted by Bry	co Dobortcon at	1,1 , , , , , , , , , , , , , , , , , ,	7/11/2024 2	+ 17,11,11 DM on AND

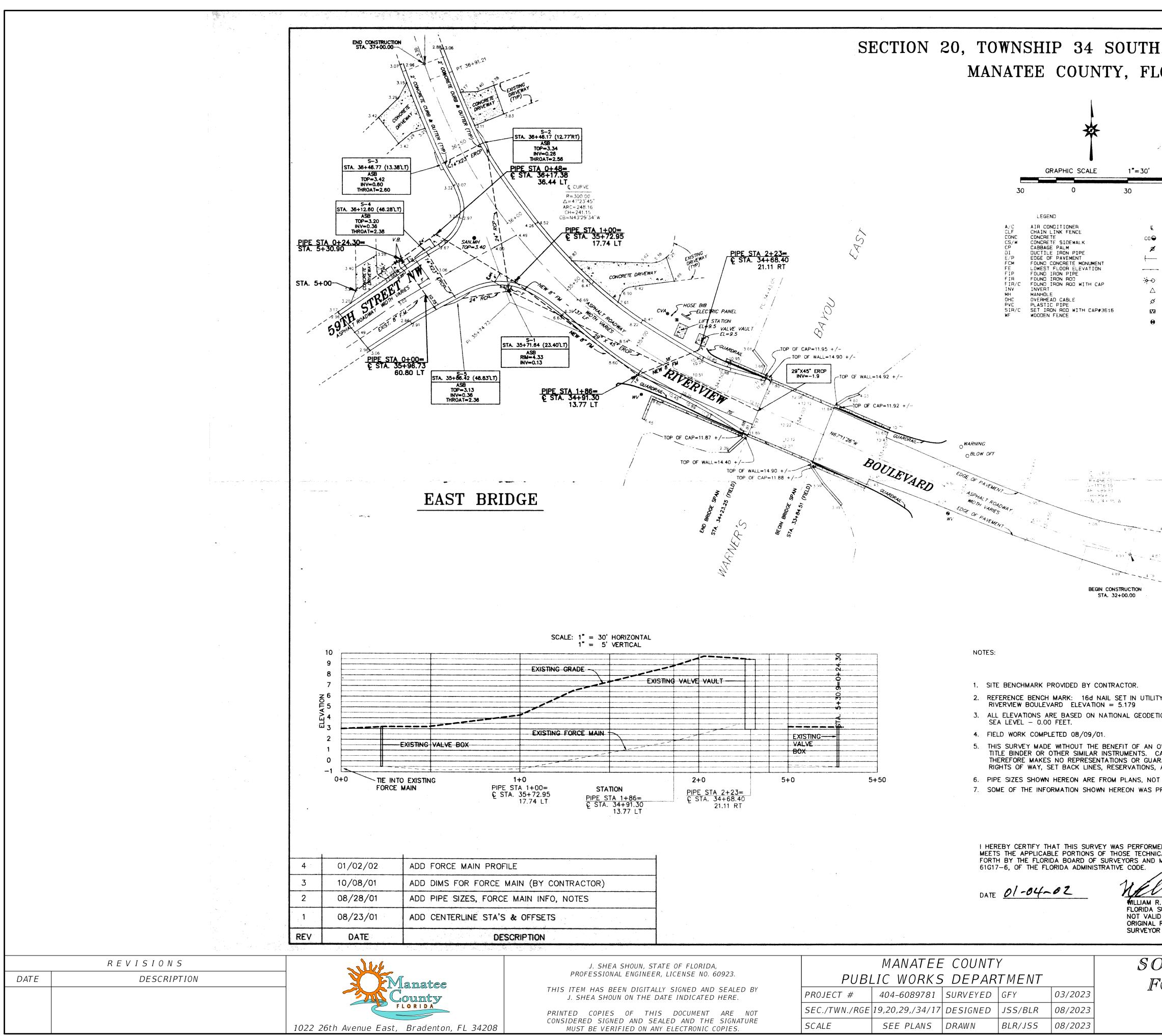
Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:41:44 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using CIP-2023.STB. File Name: FM-AREA D COVER & NOTES.DWG



1022 26th Avenue East, Bradenton, FL 34208

J. SHEA SHOUN, STATE OF FLORIDA,		MANATEE	E COUNT	Y		SO
PROFESSIONAL ENGINEER, LICENSE NO. 60923.	PUBI	LIC WORKS	5 DEPAR	TMENT		SO
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J. SHEA SHOUN ON THE DATE INDICATED HERE.	PROJECT #	404-6089781	SURVEYED	GFY	03/2023	FC
FRIMED COFIES OF THIS DOCOMENT ARE NOT	SEC./TWN./RGE	19,20,29,/34/17	DESIGNED	JSS/BLR	08/2023	
CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	SCALE	SEE PLANS	DRAWN	BLR/JSS	08/2023	

Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:41:54 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using CIP-2023.STB. File Name: FM-AREA D COVER & NOTES.DWG

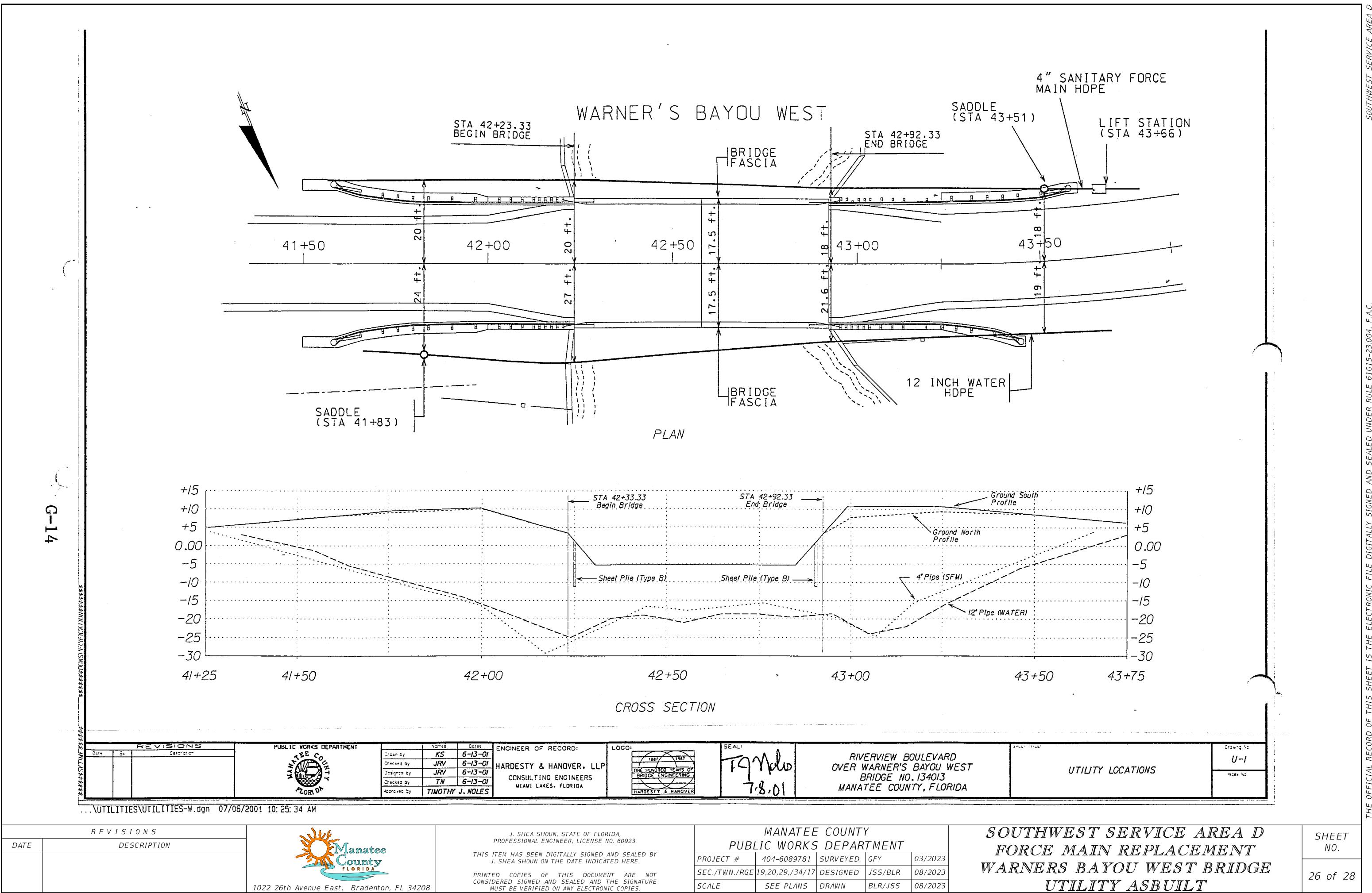


TRACTOR)	
NOTES	
	ъ.,

		MANATEE	COUNT	Y		SO
	F					
	PROJECT #	404-6089781	SURVEYED	GFY	03/2023	
	SEC./TWN./RGE	19,20,29,/34/17	DESIGNED	JSS/BLR	08/2023	
	SCALE	SEE PLANS	DRAWN	BLR/JSS	08/2023	

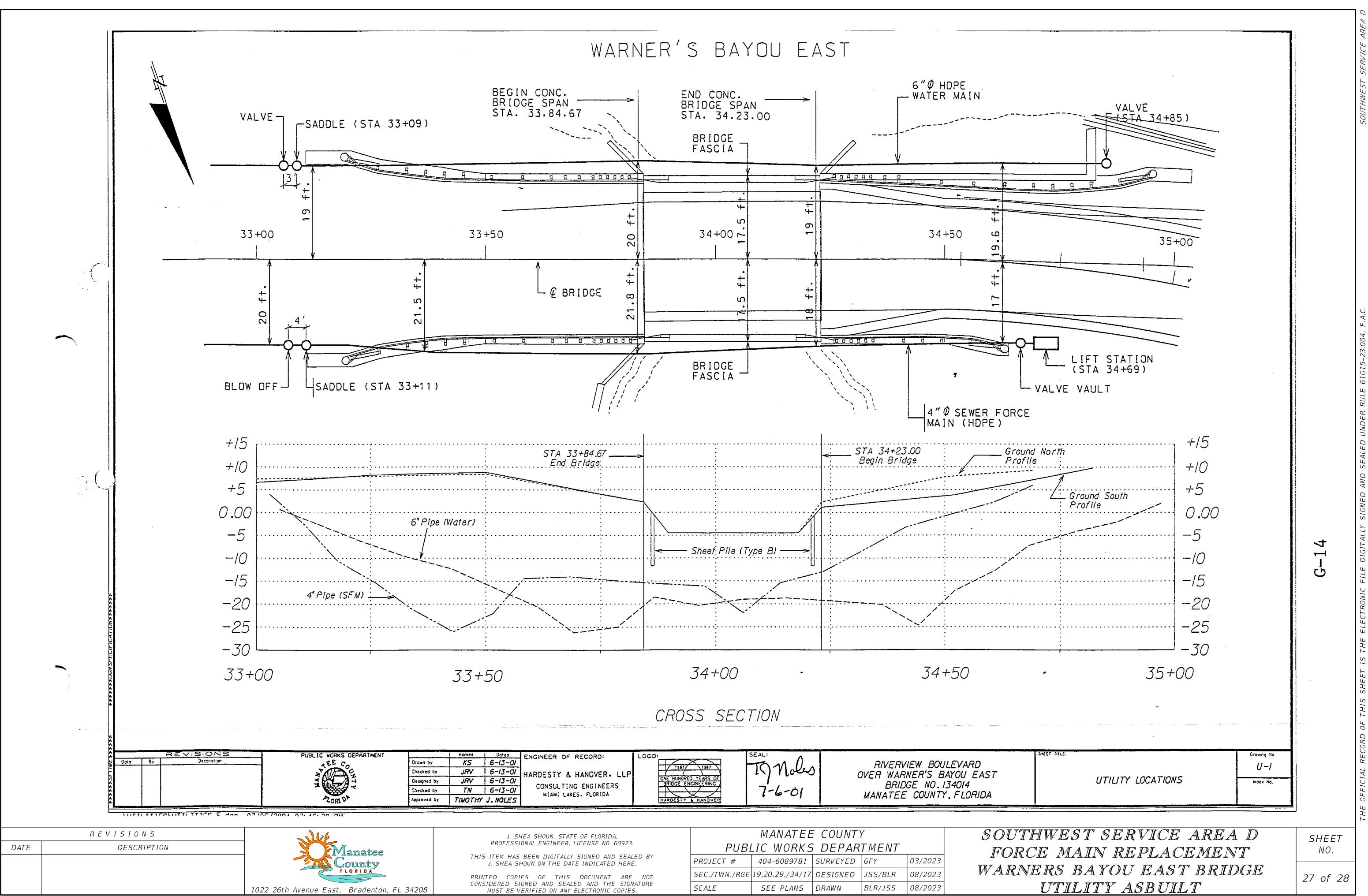
Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:42:04 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using CIP-2023.STB. File Name: FM-AREA D COVER & NOTES.DWG

		2998 - 2 ( <sup>9</sup> 8) - 200 - 1 - 200 - 200 - 1 - 2	
, RANGE 17 EAST ORIDA	AS - BUILT SURVEY		
60 SYMBOL LEGEND KENTERLINE LEANOUT DONCRETE UTILITY POLE KUY AND ANCHOR MAND RAIL LIGHT POLE MINITY POLE MATER METER MATER VALVE	CAMPBELL CONSULTANTS, INC. LAND SURVEYORS 5022 73RD A VENUE NORTH PINELLAS PARK, FLORIDA 33781 PHONE (727) 548-0584 ~ FAX (727) 548-0545		
POLE # 5919 AT VERTICAL DATUM OF 1929. MEAN NERSHIP AND ENCUMBRANCE REPORT, APBELL CONSULTANTS, INC., NTEES PERTAINING TO EASEMENTS, GREEMENTS OR OTHER SIMILAR MATTERS. IELD VERIFIED. DVIDED BY CONTRACTOR.	CERTIFIED TO: MANATEE COUNTY, FLORIDA EAST AND WEST WARNER'S BAYOU BRIDGES REPLACEMENT COUNTY PROJECT NO. 7169		
UNDER MY DIRECTION AND THAT IT STANDARDS FOR SURVEYS AS SET APPERS, PURSUANT TO CHAPTER UNDELLONG, P.S.& M. RVEYORS REG. NO. 3616 MITHOUT THE SIGNATURE AND AND MAPPER.	DWG DATE: 08/16/01 DRAWN BY: DJD CHECKED BY: WRD CHECKED BY: WRD SCALE: 1" = 30' JOB NUMBER: 2000-71-9B		
UTHWEST SERVIO DRCE MAIN REPL RIVERVIEW & 597 ROADWAY ASB	CE AREA D ACEMENT TH ST W		SHEET NO. 25 of 28

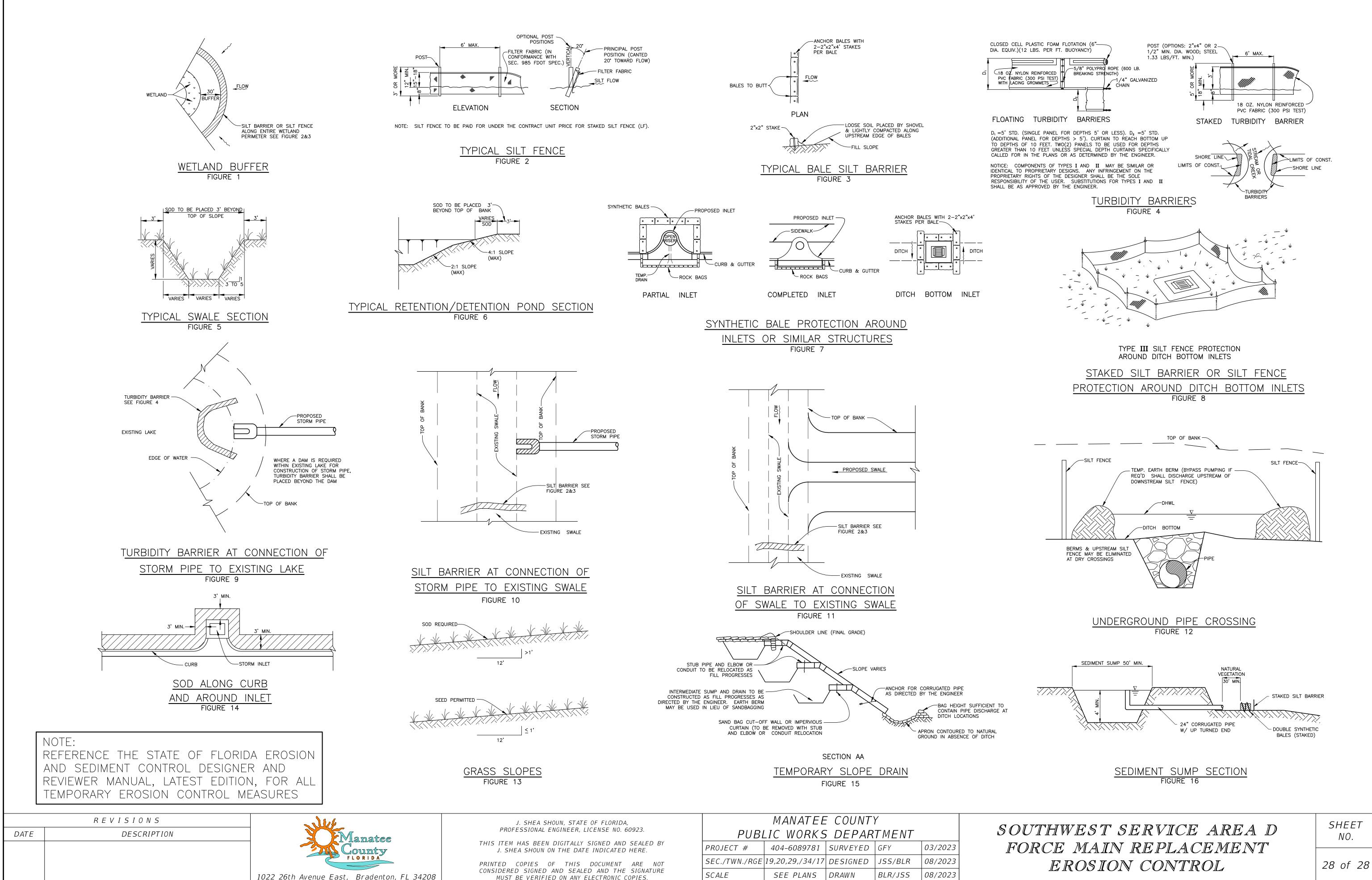


J. SHEA SHOUN, STATE OF FLORIDA,		MANATEE COUNTY						
PROFESSIONAL ENGINEER, LICENSE NO. 60923.	PUB	PUBLIC WORKS DEPARTMENT						
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J. SHEA SHOUN ON THE DATE INDICATED HERE.	PROJECT #	404-6089781	SURVEYED	GFY	03/2023	F		
PRINTED COPIES OF THIS DOCUMENT ARE NOT	SEC./TWN./RGE	19,20,29,/34/17	DESIGNED	JSS/BLR	08/2023	$W\!A$		
CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	SCALE	SEE PLANS	DRAWN	BLR/JSS	08/2023			
	Origi	ally platted by Pru	co Robortcon at	1.1 ccalo on	7/11/2021 of	17.17.11 DM on A		

Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:42:14 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using CIP-2023.STB. File Name: FM-AREA D COVER & NOTES.DWG



Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:42:24 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using CIP-2023.STB. File Name: FM-AREA D COVER & NOTES.DWG



Originally plotted by Bruce Robertson at 1:1 scale on 7/11/2024 at 12:42:34 PM on ANSI full bleed D (34.00 x 22.00 Inches) paper using CIP-2023.STB. File Name: FM-AREA D COVER & NOTES.DWG