



BID PLANS

SHEET

Plan & Profile 64th Ave E [STA 135+00 to 143+80]

Plan & Profile 64th Ave E [STA 138+70 to 143+80]

Plan & Profile 64th Ave E [STA 143+80 to 148+34]

Plan & Profile 64th Ave Dr E [STA 115+00 to 120+30]

| Plan & Profile 64th Ave Dr E [STA 120+30 to 126+10]

Plan & Profile 64th Ave Dr E [STA 126+10 to 128+27]

Plan & Profile 65th Ave E [STA 85+00 to 90+30]

Plan & Profile 65th Ave E [STA 90+30 to 96+10]

Plan & Profile 65th Ave E [STA 96+10 to 101+90]

Plan & Profile Wimerling Ave E [STA 101+90 to 105+20]

Plan & Profile Winter Garden Dr [STA 64+50 to 69+30]

Plan & Profile Winter Garden Dr [STA 69+30 to 75+10]

Plan & Profile Winter Garden Dr [STA 75+10 to 80+90]

Plan & Profile Winter Garden Dr [STA 80+90 to 83+50]

Plan & Profile 5th St E [STA 49+75 to 55+30]

Plan & Profile 5th St E [STA 55+30 to 56+50]

Plan & Profile 9th St E

Pavement Resoration Plan

Survey Baseline Reference

Details

Details

Details

Details

Erosion Control

Survey Control & S.U.E. V.V.H. TABLE

NO.

Notes & Legend

Key Sheet



AVE DR-WINTER **AVE-65TH**

PROJECT # 404-6046070

SURVEY #

SEC./TWN./RGE 25/35/17 SCALE N.T.S. SURVEYED | SURVTECH | 05/2020 DESIGNED | JSS/BLR | 06/2020 | BLR/JSS | 06/2020 JR 10/2020 CHECKED

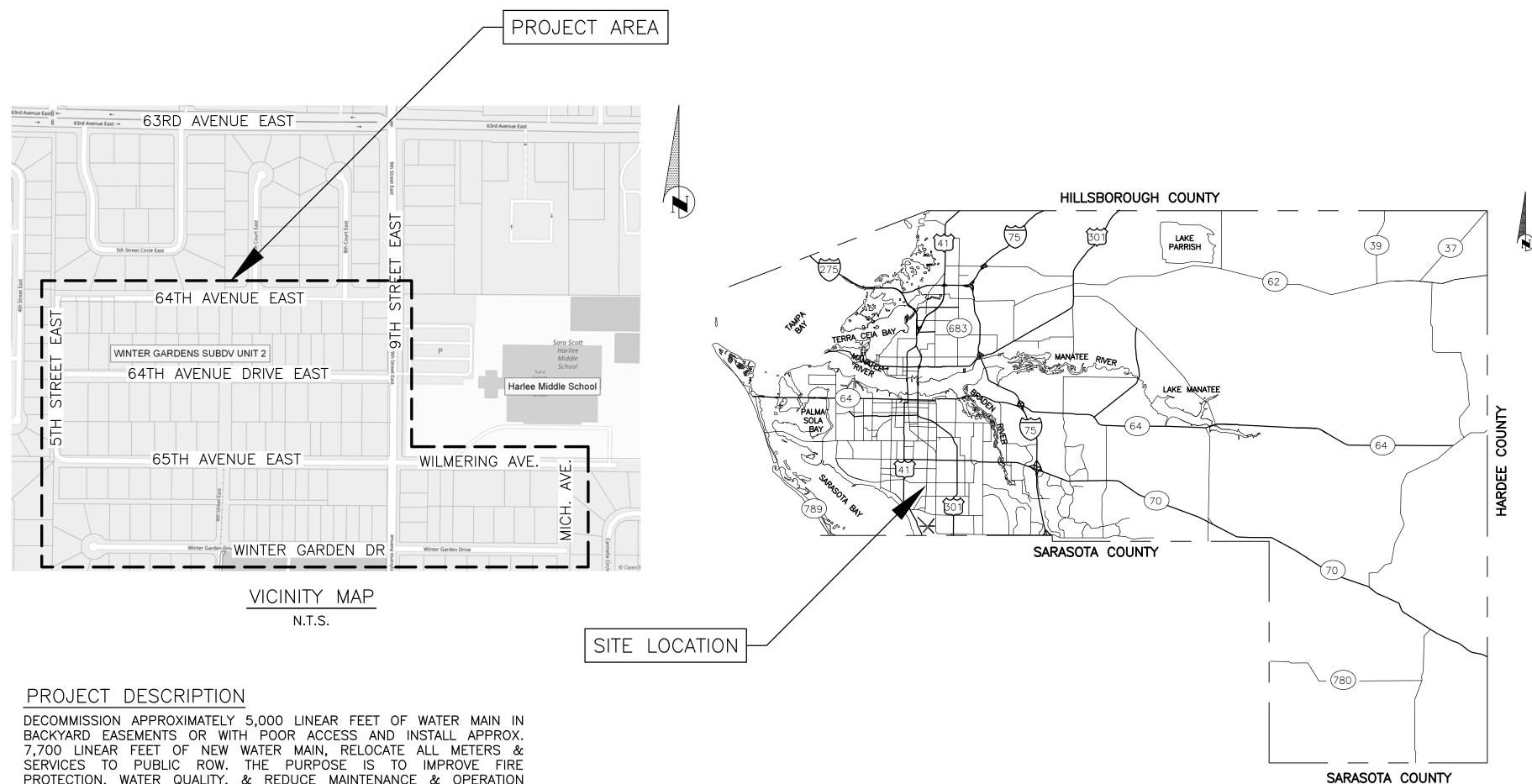
STATE OF

SHEET 01 OF 28

64TH AVE-65TH AVE DR-WINTER GARDENS DR WATER MAIN REPLACEMENT

404-6046070

AUGUST 2022



PROTECTION, WATER QUALITY, & REDUCE MAINTENANCE & OPERATION COSTS.

CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED AS NOT TO INTERFERE WITH SCHOOL VEHICULAR AND/OR PEDESTRIAN TRAFFIC ON 9TH ST E, WILMERLING AVE, AND SURROUNDING ROADWAYS. THE CONTRACTOR SHALL PROVIDE A PROJECT SCHEDULE TO DEMONSTRATE NO IMPACTS DURING SCHOOL OPERATING HOURS, PARTICULARLY DURING TIMES OF PARENT AND/OR BUS DROP-OFF AND PICK-UP.

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: TOM GREEN, P.E. AND CAN BE REACHED AT 941.708.7450 EXT. 7412.
- . SITE VISITS ARE MANDATORY FOR ALL BIDDERS.
- 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.
- 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.
- 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
- 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.
- AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
- NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT 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.
- II. 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.

ENVIRONMENTAL

- 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.
- 4. 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.
- 5. 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.
- 6. 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
- 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.

COVERS, SEWER CLEAN-OUTS, ETC. ALL SHALL SHALL BE ADJUSTED TO FINISHED GRADES.

RIGHT-OF-WAY

- 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, 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.
- 29. ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, MANHOLE
- 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
- 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:
- •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.
- 3. 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
- 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. VACUUM BREAKERS SHALL BE INSTALLED ON ALL EXTERNAL HOSE BIBBS.
- E. 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.
- 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. CONCRETE WITH A MIN. COMPRESSIVE STRENGTH OF 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. LIMEROCK 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
- 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.

- 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
- 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.

SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.

- 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
- 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
- 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 MÉDIA 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
- 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 MAIN 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

- 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)

MAINTENANCE OF TRAFFIC

- 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 OR ADDITIONAL COMPENSATION.
- 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
- 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 THE COST OF PIPE.

OF TRAFFIC CONTROL AND SAFE PRACTICES". A TCP SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

- 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 CLOSURES OR DETOURS.
- 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 FOOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.

LEGEND

EXISTING

	lacksquare	BENCH MARK		BUSH
СМ	•	CONCRETE MONUMENT		TREE
	0	IRON PIPE	1883	OAK TREE
	•	IRON ROD	S	PALM TREE
	Δ	HUB	***************************************	PINE TREE
	o	NAIL & DISK	*	
×5.23		ELEVATION		
1234)	PARCEL ID NO.		
1234)	PARCEL ID NO.	$\sim\sim$	EDGE OF VEGETATION
77)		LOT NO.		CHAIN LINK FENCE
	\leftarrow	GUY WIRE		WOOD FENCE
PP	Ø	POWER POLE		BARBED WIRE FENCE
	₩.	LIGHT POLE	FM	FORCE MAIN
	ď	MAIL BOX	PW	POTABLE WATER
	þ	SIGN		RECLAIMED WATER
REF	9	REFLECTOR	ss	SANITARY SEWER
	0	SPRINKLER	s	STORM DRAIN
	©	GAS MARKER	GAS	GAS LINE
	- O-	BACKFLOW PREVENTER	OCHR	OVERHEAD CHARTER
	Mo	BLOW OFF VALVE	CHR	UNDERGROUND CHARTER
FH '	Φ	FIRE HYDRANT	—— ОЕ ———	OVERHEAD ELECTRIC
WV	\bowtie	WATER VALVE	——— ВЕ ———	UNDERGROUND ELECTRIC
ARV	igatharpoons	AIR RELEASE VALVE	——— OH FTR ———	OVERHEAD FRONTIER
WM		EX. WATER METER		UNDERGROUND FRONTIER
	S	SANITARY SEWER MANHOLE	PCO	UNDERGROUND PRECO
	0	SANITARY SEWER CLEAN OUT	———FPL———	UNDERGROUND FPL
SB#1	◆	SOIL BORING LOCATION	——— OH ———	OVERHEAD UTILITY
TEL C	_	TELEPHONE SERVICE BOX	+++++++++++++++++++++++++++++++++++++++	RAIL ROAD TRACKS
UB)	X	UTILITY BOX		EDGE OF CONCRETE
(UP)		UTILITY RISER	***************************************	EDGE OF ROAD
	[FLOW DIRECTION		TOE OF SLOPE
GI _		GRATE INLET		TOP OF BANK
		MITERED END SECTION		PROPERTY LINE
\mathbb{C})	STORM SEWER MANHOLE		RIGHT OF WAY

ABBREVIATIONS RIGHT OF WAY CONCRETE ASPHALT DRIVEWAY SIDEWALK EDGE OF PAVEMENT BACK OF CURB → FLOW ARROW NEW BACKFLOW PREVENTION ASS'Y RELOCATED EX. METER BOX NEW METER BOX

EMERGENCY CONTACTS

1022 26TH AVENUE EAST BRADENTON, FL. 34208 JIM RENNEBERG, P.E. (941) 708-7450 EXT. 7220 TECO/PEOPLES GAS CO. 8261 VICO COURT SARASOTA, FL. 34240 (813) 275-3762 ALEX MCFARLANE EMERGENCY: 1-877-832-6911

MANATEE COUNTY PUBLIC

WORKS DEPT.

2101 47TH TERRACE EAST BRADENTON, FL 34203 VISHAL KAKAAD, P.E. (941) 749-3500 EXT. 7812 vishal.kakkad@mymanatee.org.

JOHN PLOTT (941) 906-6707 John.Plott@ftr.com FLORIDA POWER & LIGHT 1253 12TH AVENUE EAST PALMETTO, FL 34221 TODD BOLKEMA (941) 927-4262 ÈMERGENCY: 1-800-4-OUTAGE

1701 RINGLING BLVD.

SARASOTA, FL. 34236

FRONTIER

MANATEE COUNTY HEALTH DEPT. 410 6th AVENUE EAST BRADENTON, FL. 34208 HANS ROSE (941) 748-0747 EXT. 1355

todd.bolkema@fpl.com

SERVICE OFFICE STEVE LOPES 6750 FRUITVILLE ROAD SARASOTA, FL. 34240 (941) 377-3722 FLORIDA GAS TRANSMISSION 7804 ANDERSON RD. TAMPA FL 33634 JOHN LUDLOW

SOUTHWEST FLORIDA WATER

MANAGEMENT DISTRICT SARASOTA

PHONE: (813) 466-3327 john.ludlow@sug.com PEACE RIVER ELECTRIC COOPFRATIVE, INC. P.O. BOX 1310 WACHULA, FL 33873 KENDELL COKER (863) 767-4660

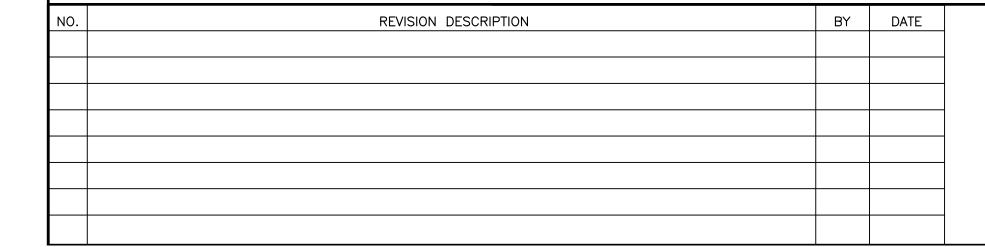
kendell.coker@preco.coop

DEPARTMENT OF ENVIRONMENTAL PROTECTION 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 ED WATSON PHONE: (813) 470-5875 CHARTER COMMUNICATION 5413 E. STATE ROAD 64 BRADENTON, FL. 34208-5535

(941) 748-3816 EXT. 21348

Tom.Wright@charter.com SUNSHINE STATE ONE CALL OF FLORIDA 1-(800) 432-4770

TOM WRIGHT



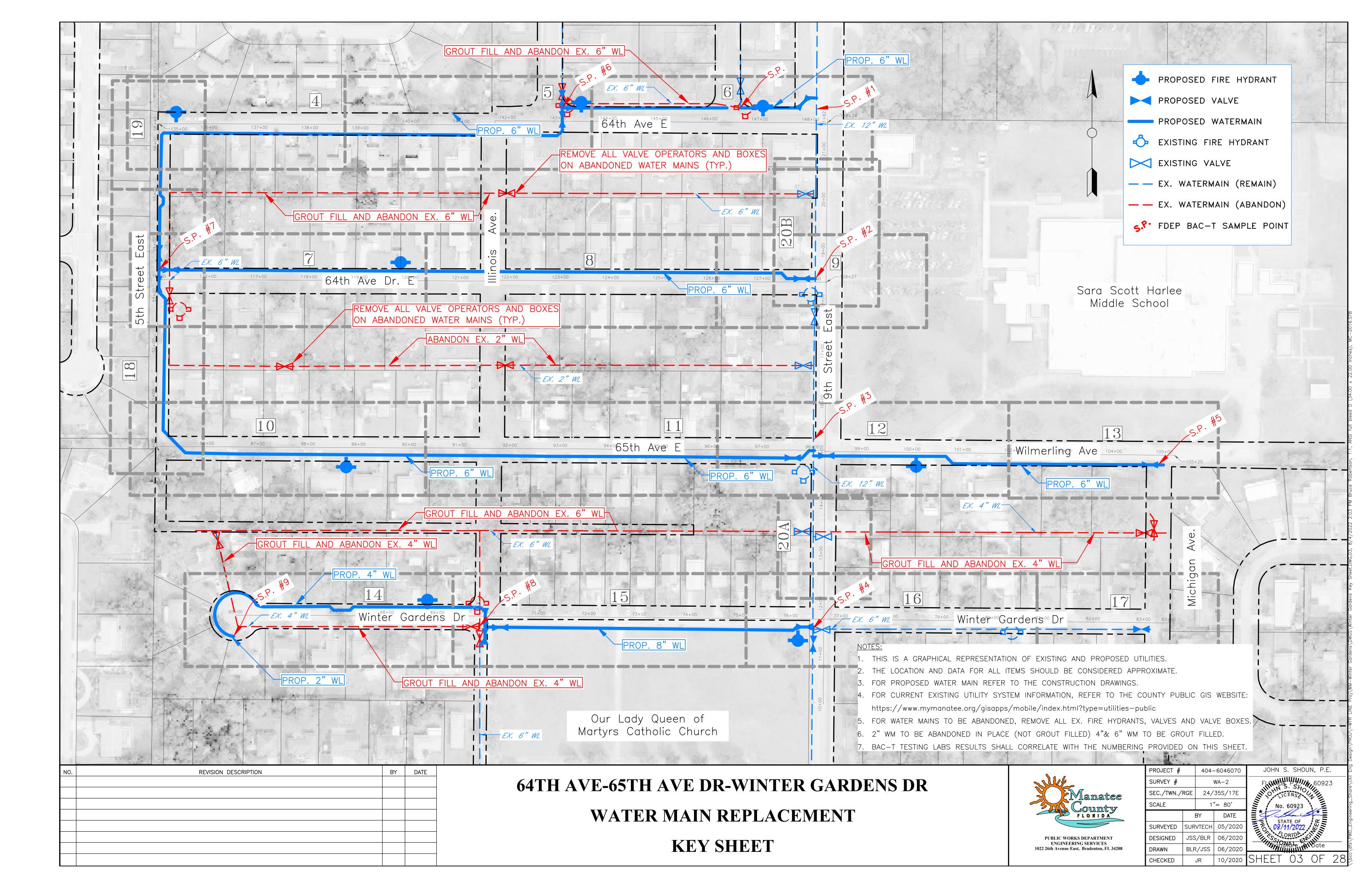
64TH AVE-65TH AVE DR-WINTER GARDENS DR WATER MAIN REPLACEMENT NOTES & LEGEND

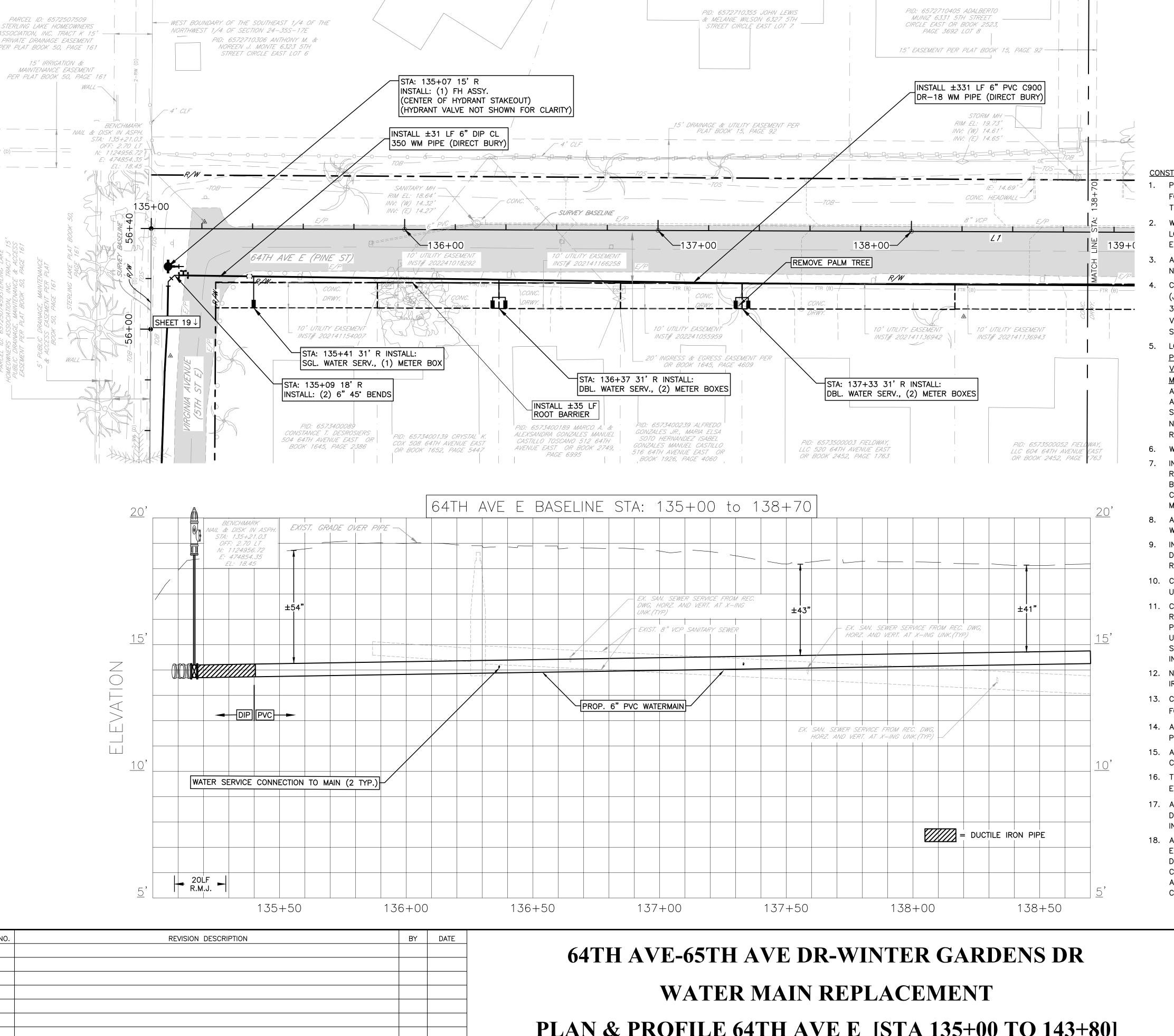


1022 26th Avenue East, Bradenton, FL 34208

PROJECT # 404-604607 SURVEY # WA-2SEC./TWN./RGE 24/35S/17E SCALE N.T.S. BY DATE SURVTECH 05/2020 SURVEYED DESIGNED JSS/BLR | 06/2020 DRAWN BLR/JSS 06/2020 CHECKED JR

JOHN S. SHOUN, P.E. FLO**RIGHIH!#/,**60923 IN S. SHC LICENSE No. 60923 STATE OF Photypae.





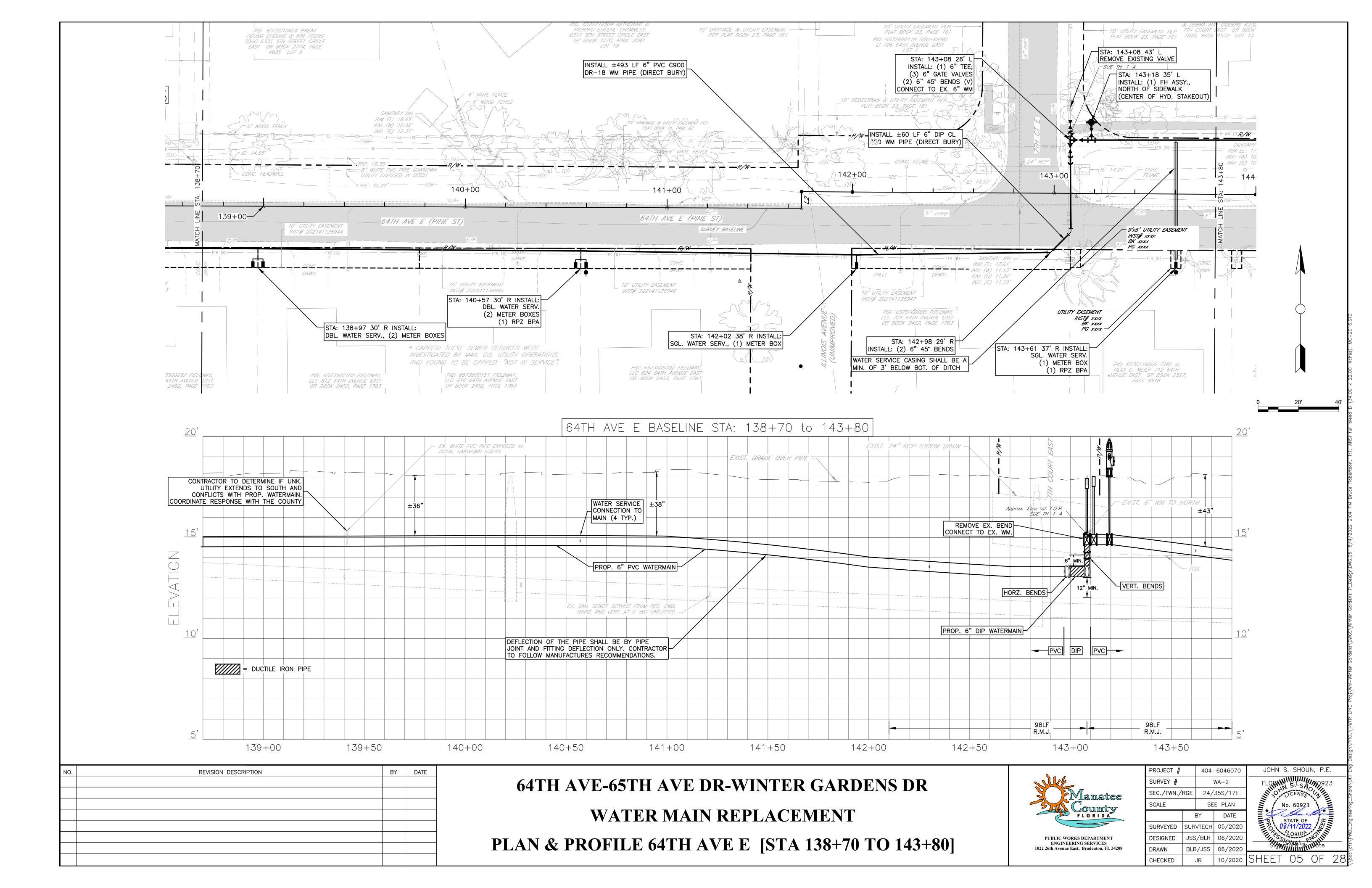
CONSTRUCTION NOTES (APPLICABLE TO ALL PLAN AND PROFILE SHEETS):

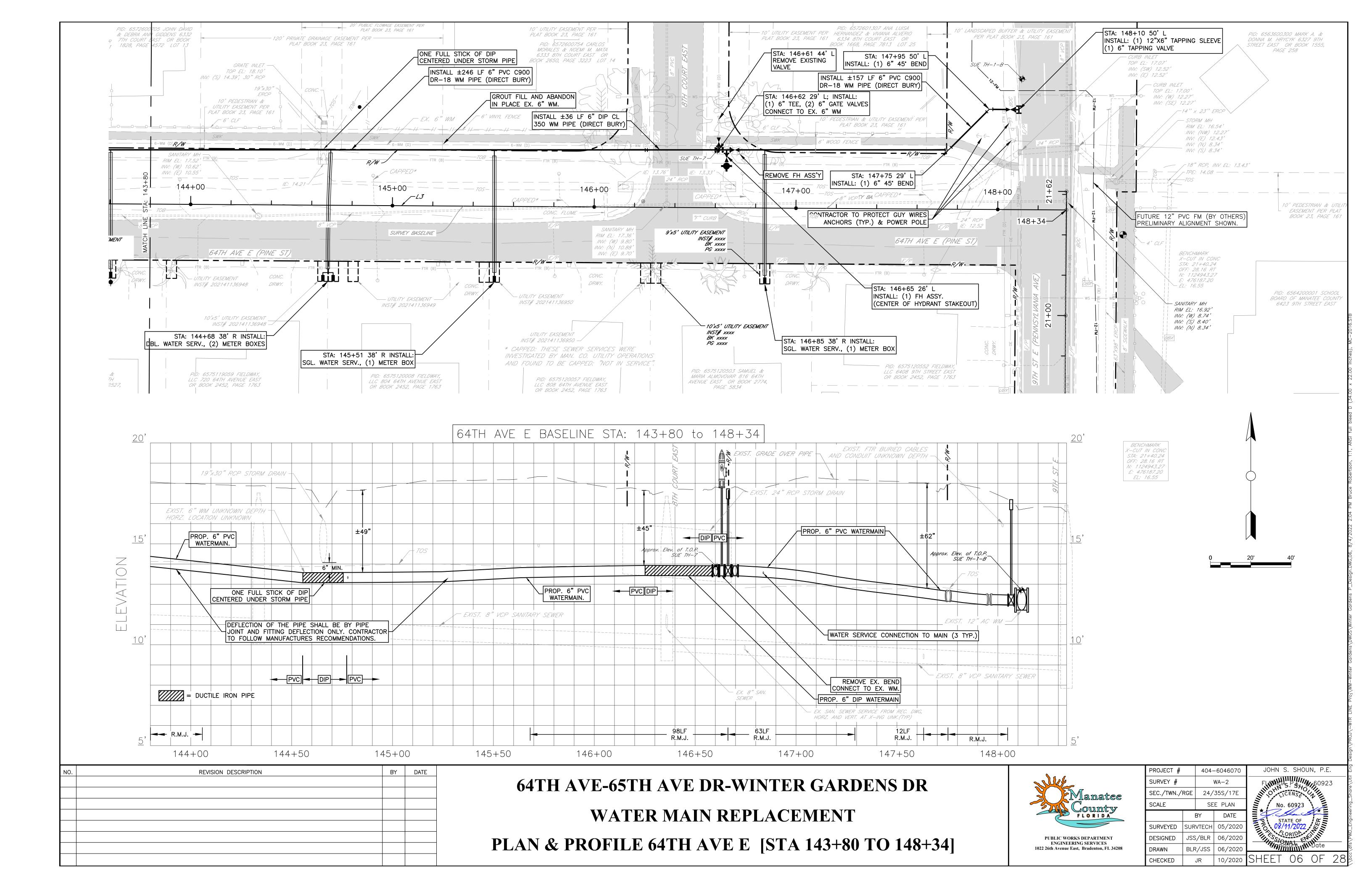
- PRIOR TO INSTALLATION, CONTRACTOR SHALL HAVE ALL PROPOSED EASEMENTS FOR THIS PROJECT STAKED FOR REFERENCE, TO ENSURE PROPER INSTALLATION OF THE METER BOX AND/OR BPA IS CENTERED IN THE EASEMENT AND ALL ABOVEGROUND ITEMS LOCATED IN RELATION TO THE EASEMENT LIMITS.
- WATER CONNECTIONS TO THE EXISTING RESIDENCES ARE UNKNOWN. THE CONTRACTOR/PLUMBER MAY SHIFT LOCATIONS OF THE PROPOSED WATER METER TO OPPOSITE PROPERTY CORNER TO CREATE A MORE EFFICIENT ALIGNMENT TO THE EXISTING WATER SERVICE CONNECTION AT THE RESIDENCE.
- 3. ALL METER BOXES PROPOSED AND/OR RELOCATED SHALL BE INSTALLED PER UW-21, UNLESS OTHERWISE
- 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 REDUCE PRESSURE BACKFLOW PREVENTION ASSEMBLIES (BPA'S) (WILKINS 975XL2 OR APOLLO VALVE RPLF4A) WITH VACUUM BREAKERS ON ALL EXTERIOR HOSE BIBBS, UNLESS OTHERWISE NOTED. SOME LOTS WILL RECEIVE 1-INCH RPZ BPA, AS NOTED IN THE PLANS.
- 5. 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 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.
- 6. WATER SERVICE TAPS SHALL NOT BE LOCATED UNDER DRIVEWAYS.
- INSTALLATION OF THE PROPOSED PIPE SHALL BE AS SHOWN IN THE PLAN AND PROFILE VIEWS, UNLESS REVISIONS ARE APPROVED BY THE COUNTY. 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.
- 8. ALL NECESSARY DEVIATIONS BEYOND THE ACCEPTED TOLERANCES WILL NOT BE ACCEPTED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE COUNTY.
- INSTALLATION VERTICAL AND HORIZONTAL TOLERANCES SHALL BE AS STATED IN THE SPECIFICATION DOCUMENT, SECTION 02617, 1.01.J. PIPE PLACED OUT OF TOLERANCE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO THE COUNTY.
- 10. CONTRACTOR SHALL EXPOSE AND SURVEY THE EXISTING TOP OF "PIPE" ELEVATION AT ALL PROPOSED UTILITY CROSSINGS. THIS INFORMATION SHALL BE PROVIDED ON THE RECORD DRAWINGS.
- 11. CONTRACTOR SHALL USE A TAPE MEASURE AND PROVIDE PHOTOGRAPHIC EVIDENCE THAT ALL MINIMUM REQUIRED HORIZONTAL OR 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. THESE PHOTOS SHALL BE USED TO SUPPORT THE AS-BUILT RECORD INFORMATION.
- 12. 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.
- 13. CONTRACTOR SHALL NOT USE LEVERAGE OR MECHANICAL MEANS TO ALIGN THE PIPE AND/OR FITTINGS FOR ATTACHMENT. THE PIPE SHALL NOT BE "SPRING-LOADED".
- 14. ALL DISTURBED EX. DRAINAGE DITCHES/SWALES SHALL BE RE-GRADED TO ORIGINAL CONDITION TO PROVIDE POSITIVE DRAINAGE.
- 15. 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.
- 16. THERE SHALL BE 3-FOOT MINIMUM HORIZONTAL SEPARATION BETWEEN THE PROPOSED WATER MAIN AND EXISTING/PROPOSED STRUCTURES.
- 17. 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 NEW INSTALLED MAINS.
- 18. ALL OF THE SIGNING AND PAVEMENT MARKINGS SHALL BE 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. TRAFFIC CONTROL DEVICES THAT DO NOT CONFORM TO THESE DOCUMENTS, AND THAT ARE WITHIN THE PUBLICLY MAINTAINED RIGHT-OF-WAY, IF ACCEPTABLE, WILL REQUIRE AN EXECUTED MAINTENANCE AGREEMENT PRIOR TO APPROVAL OF CONSTRUCTION PLANS.

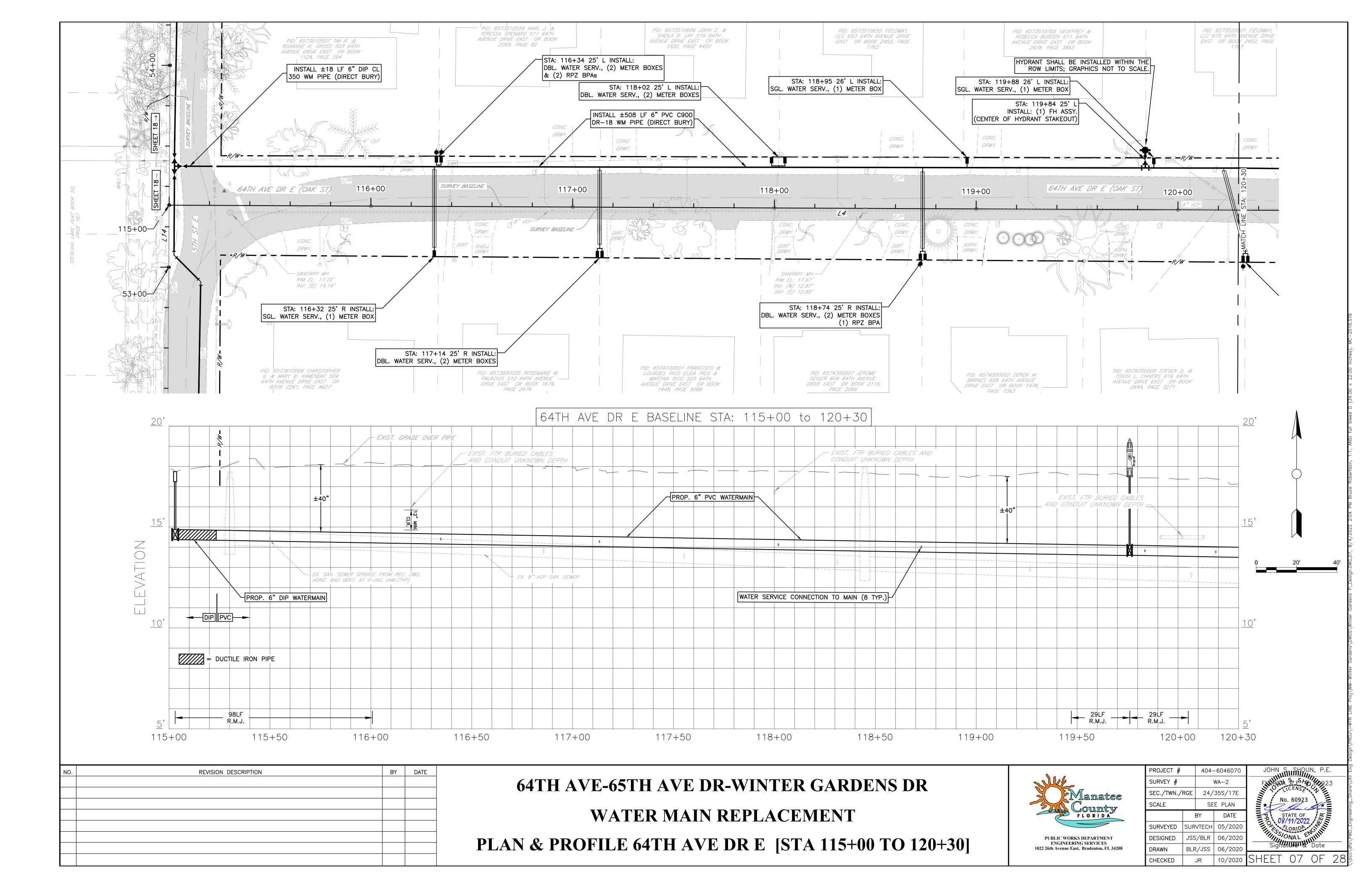
PLAN & PROFILE 64TH AVE E [STA 135+00 TO 143+80]

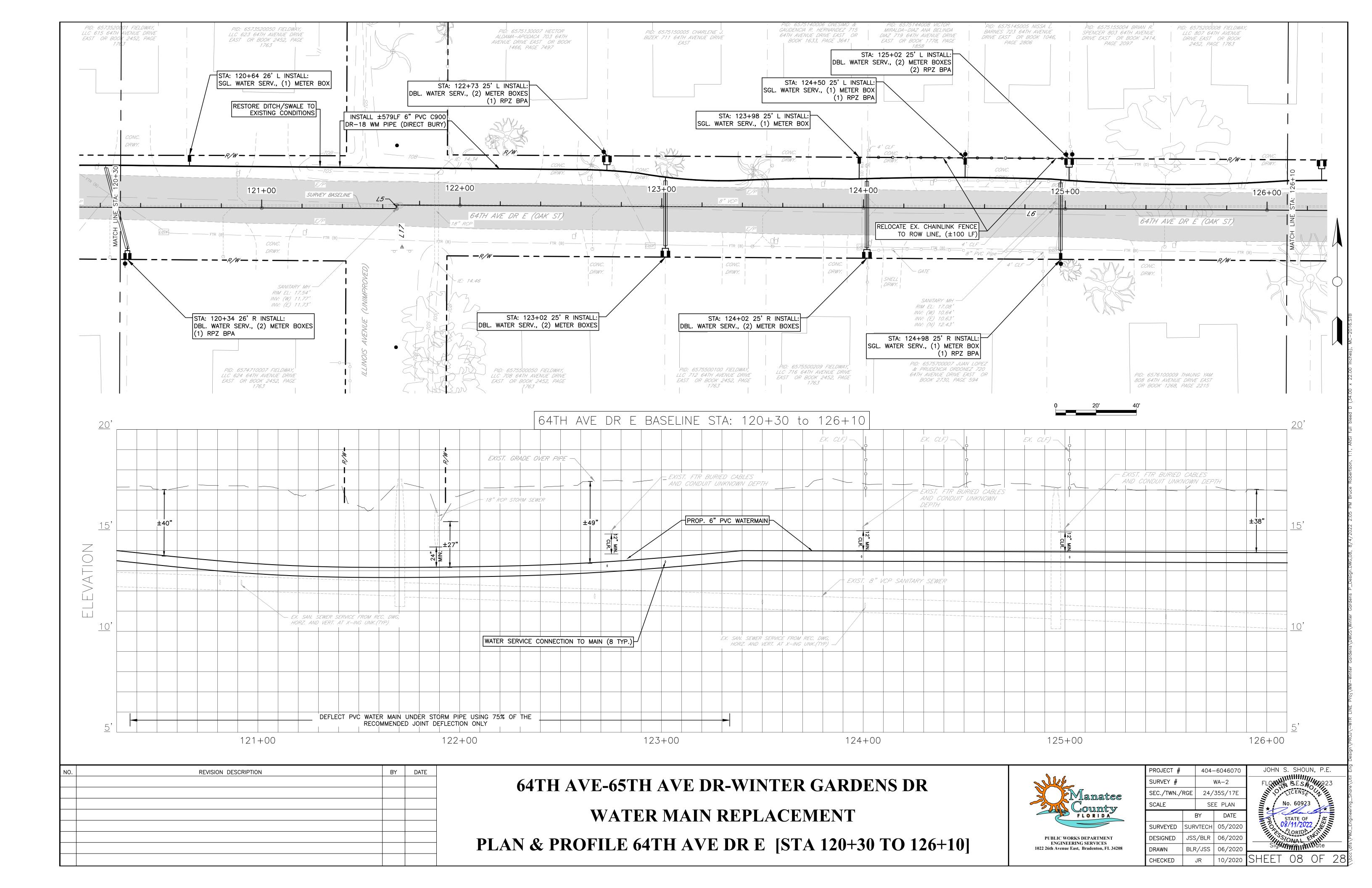


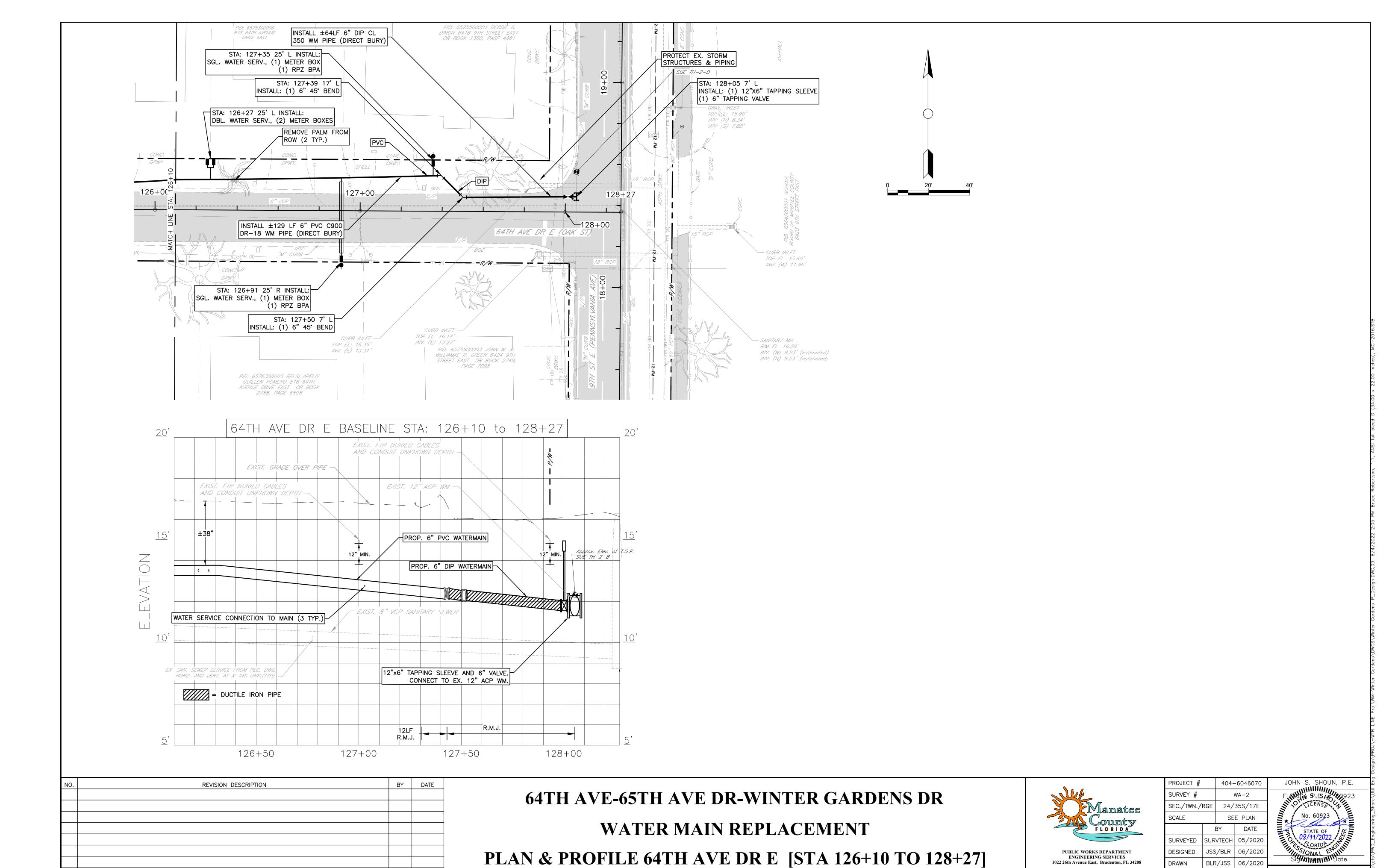
PROJECT #		404-	-6046070	JOHN S. SHOUN, P.E.
SURVEY #		,	WA-2	FLORIGATELY# 60923
SEC./TWN./	RGE	24/	35S/17E	HILLOH TICENSE LY
SCALE		SE	E PLAN	
		BY	DATE	No. 60923
SURVEYED	SUR	VTECH	05/2020	STATE OF 19 19 19 19 19 19 19 19 19 19 19 19 19
DESIGNED	JSS	S/BLR	06/2020	ZORIDA CI
DRAWN	BLF	R/JSS	06/2020	White Buildite
CHECKED		JR	10/2020	SHEET""04" OF



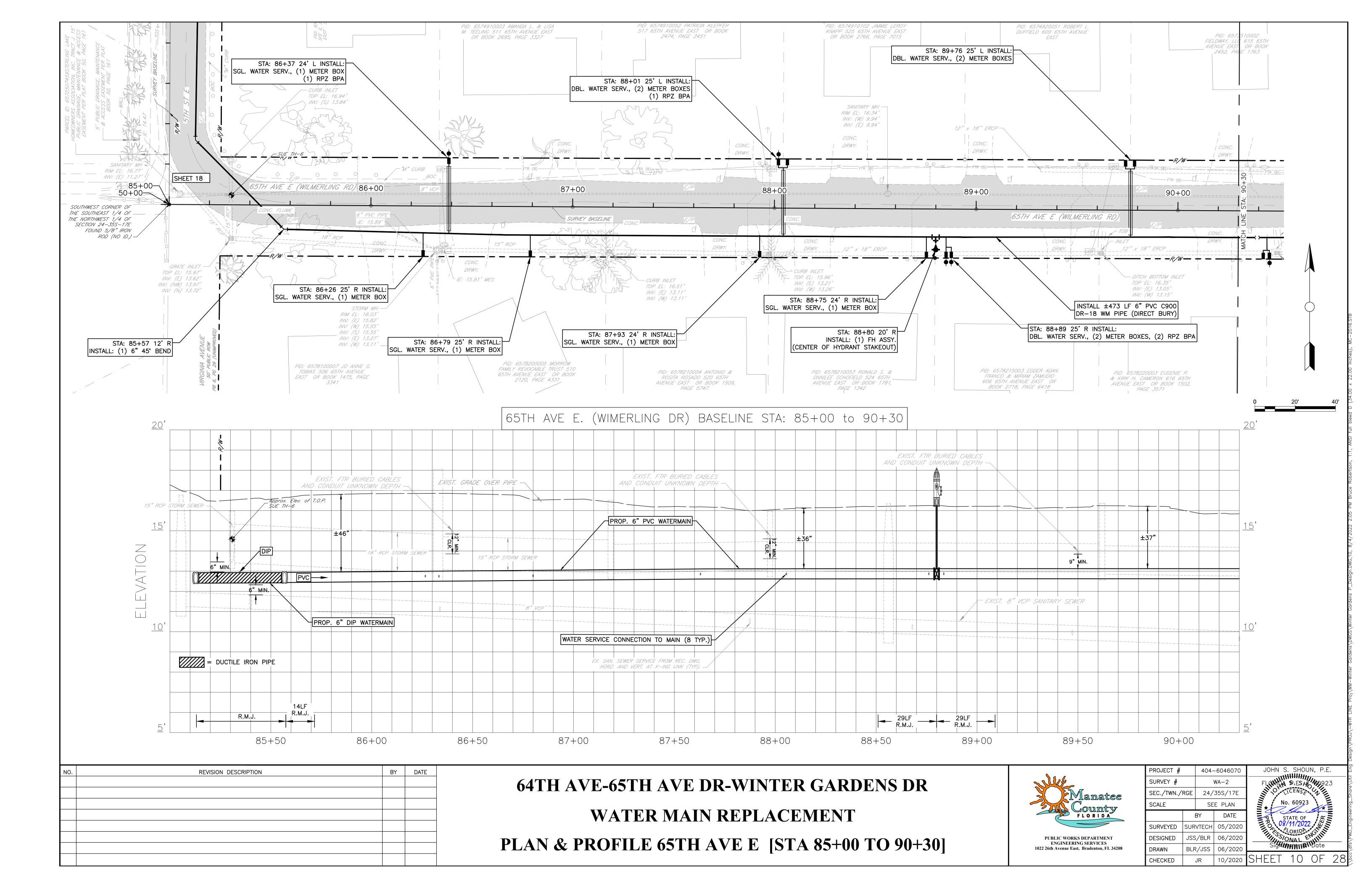


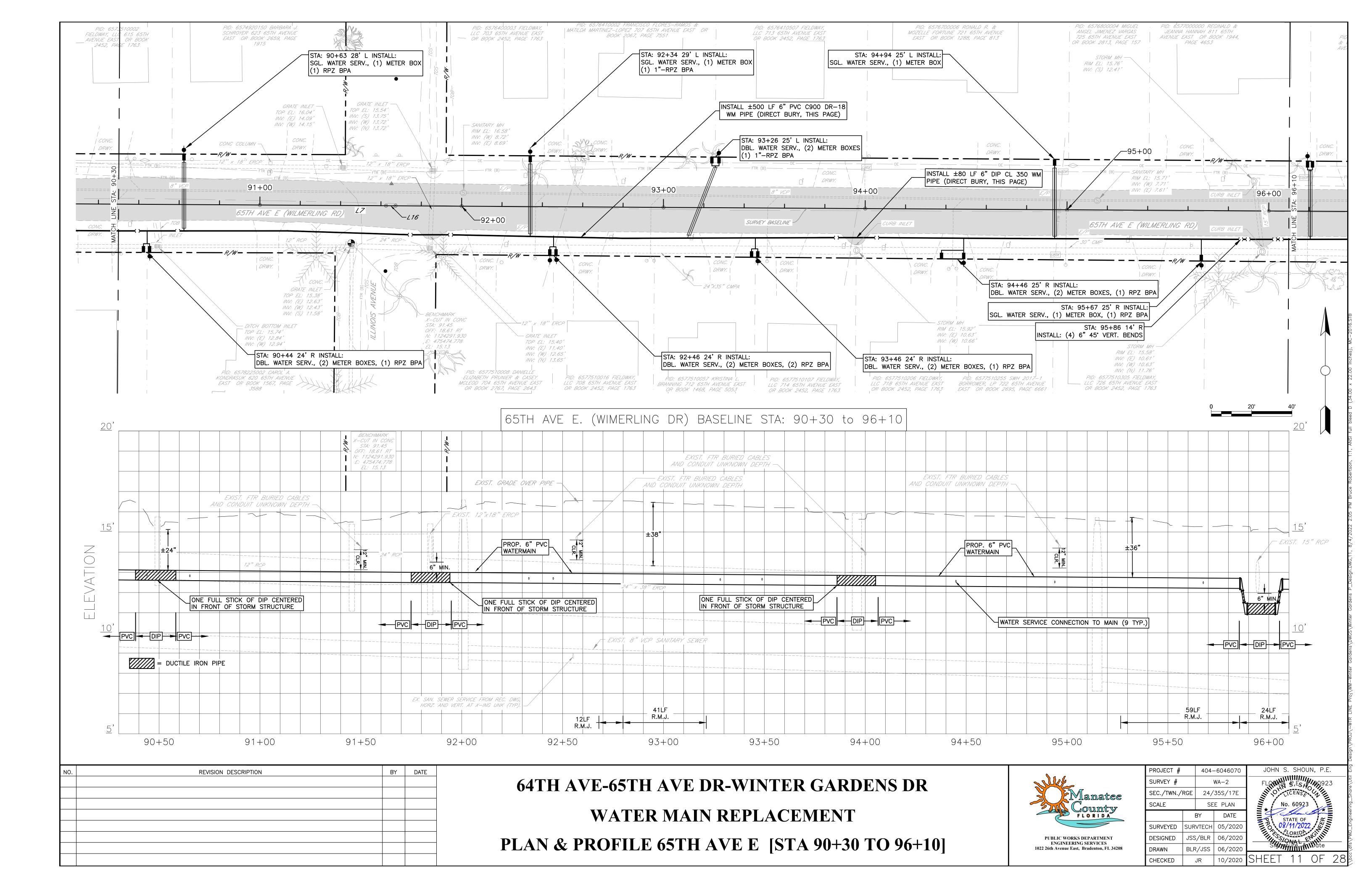


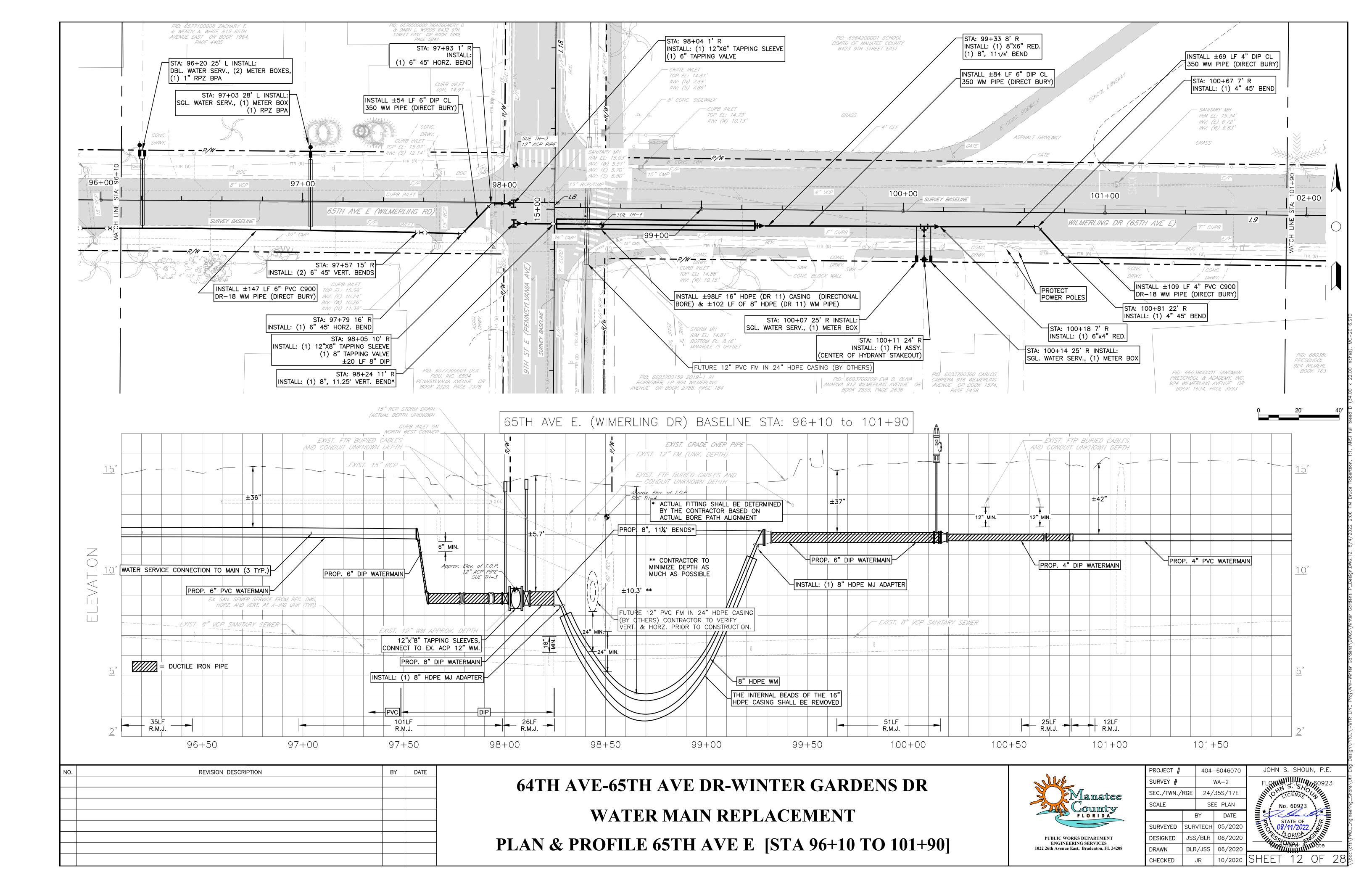


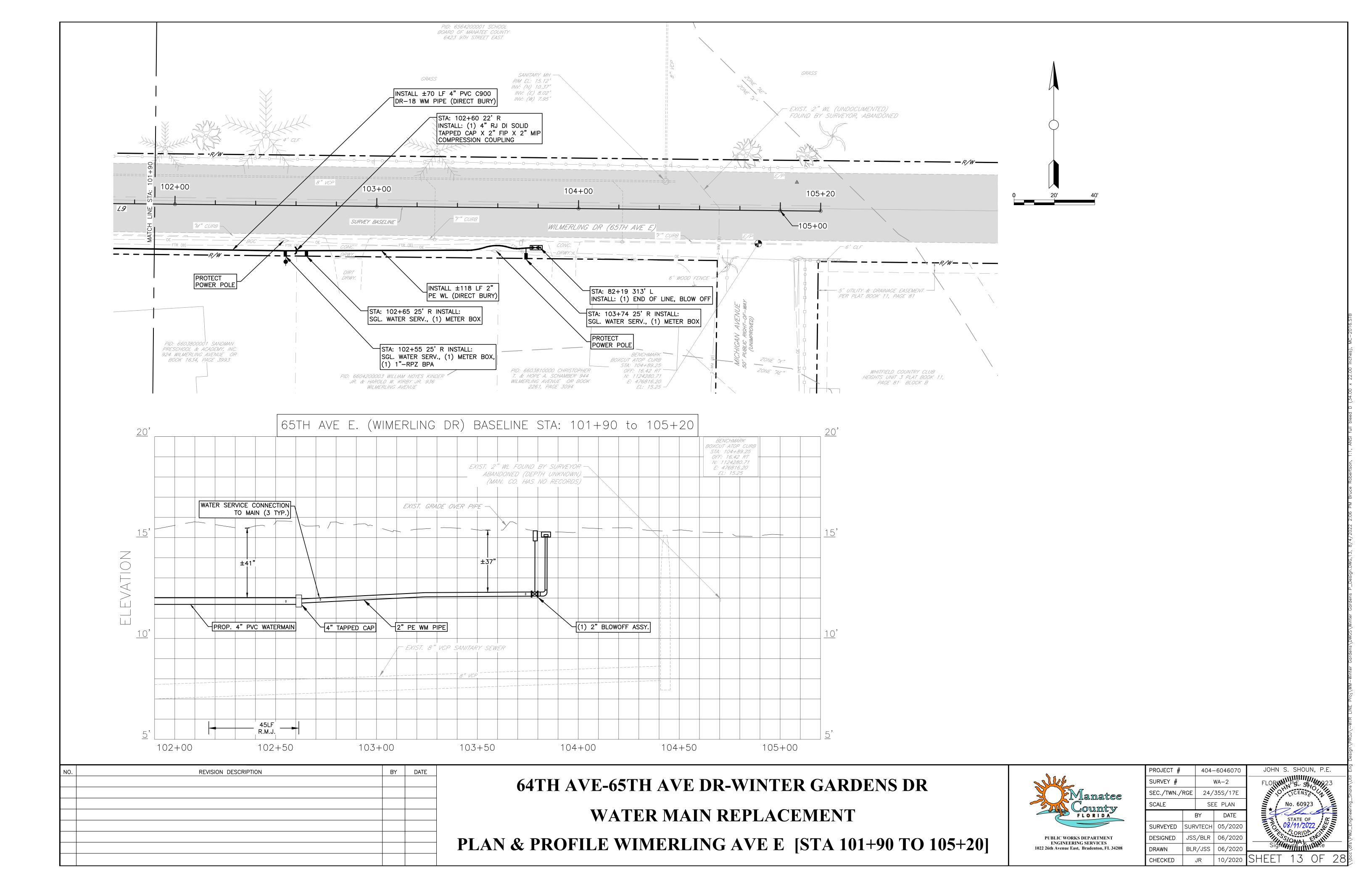


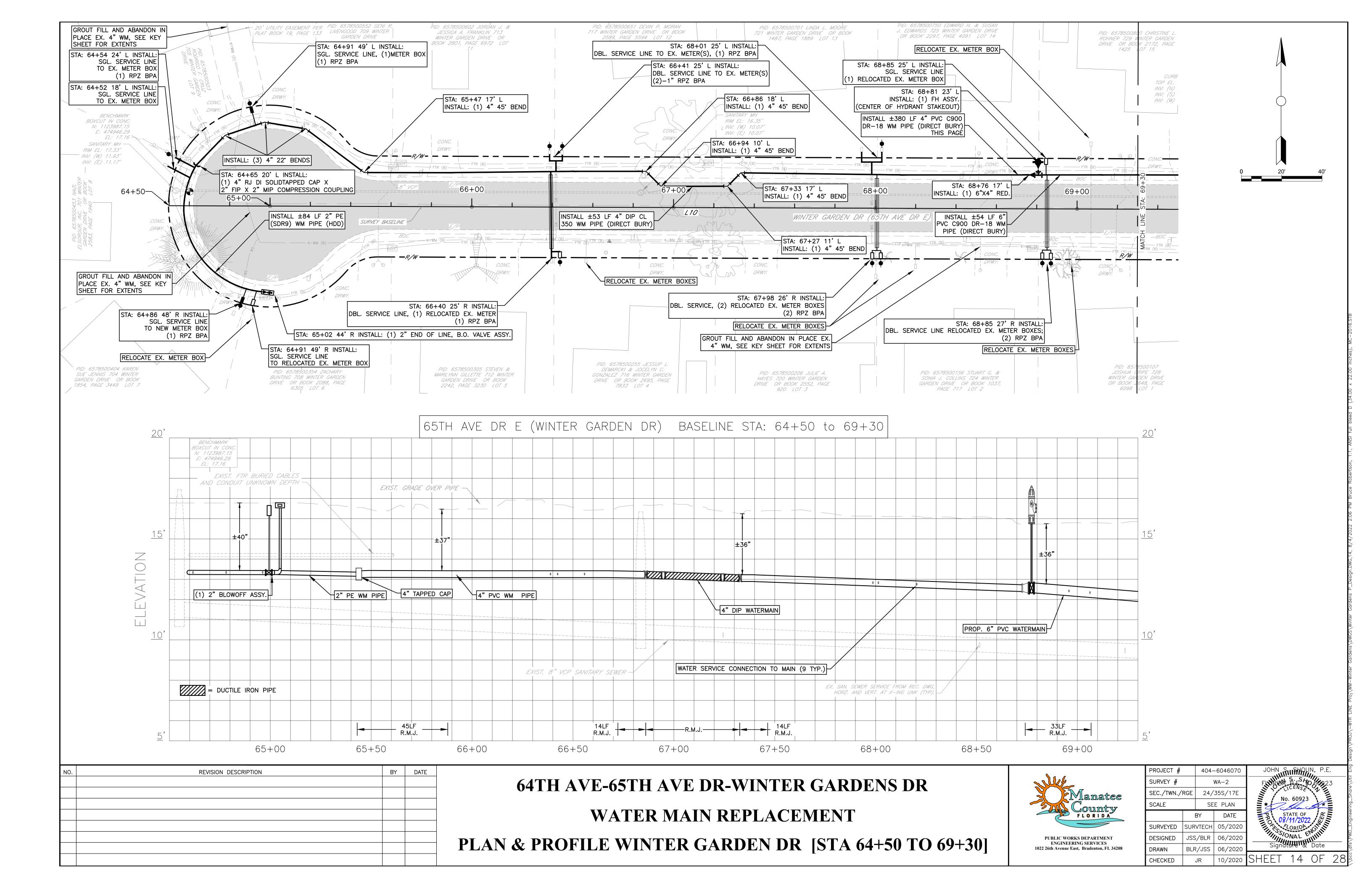
CHECKED

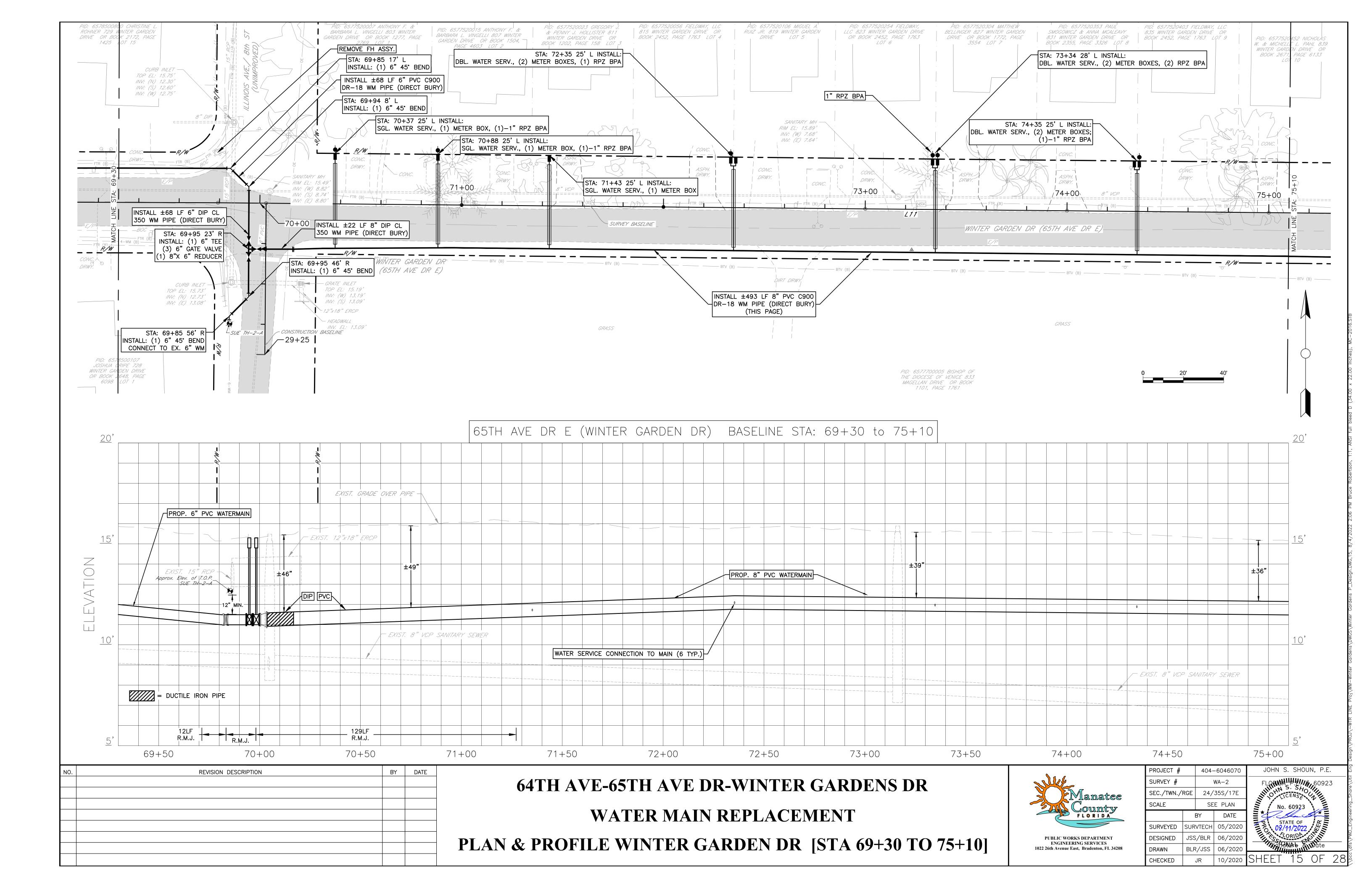


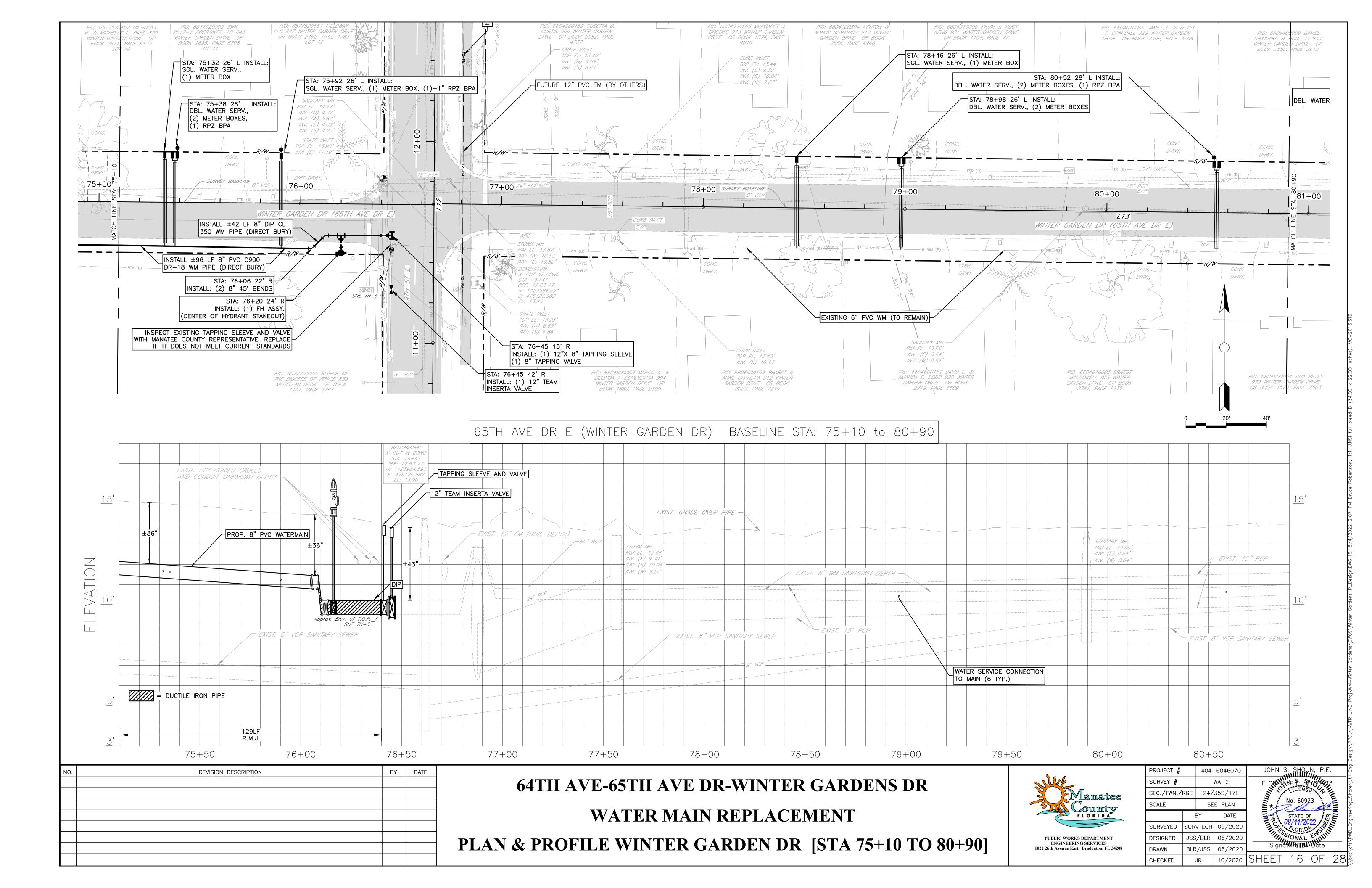


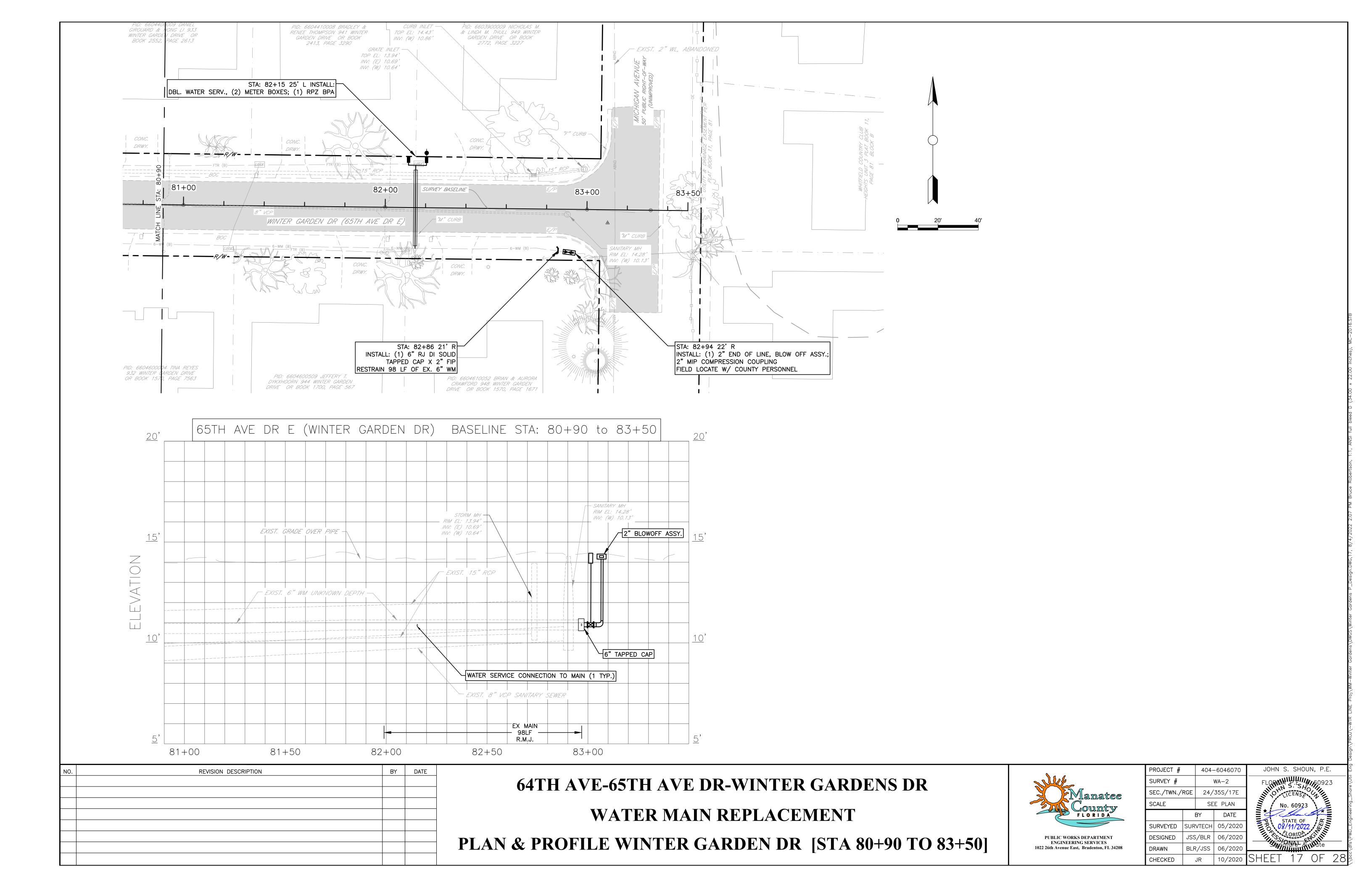


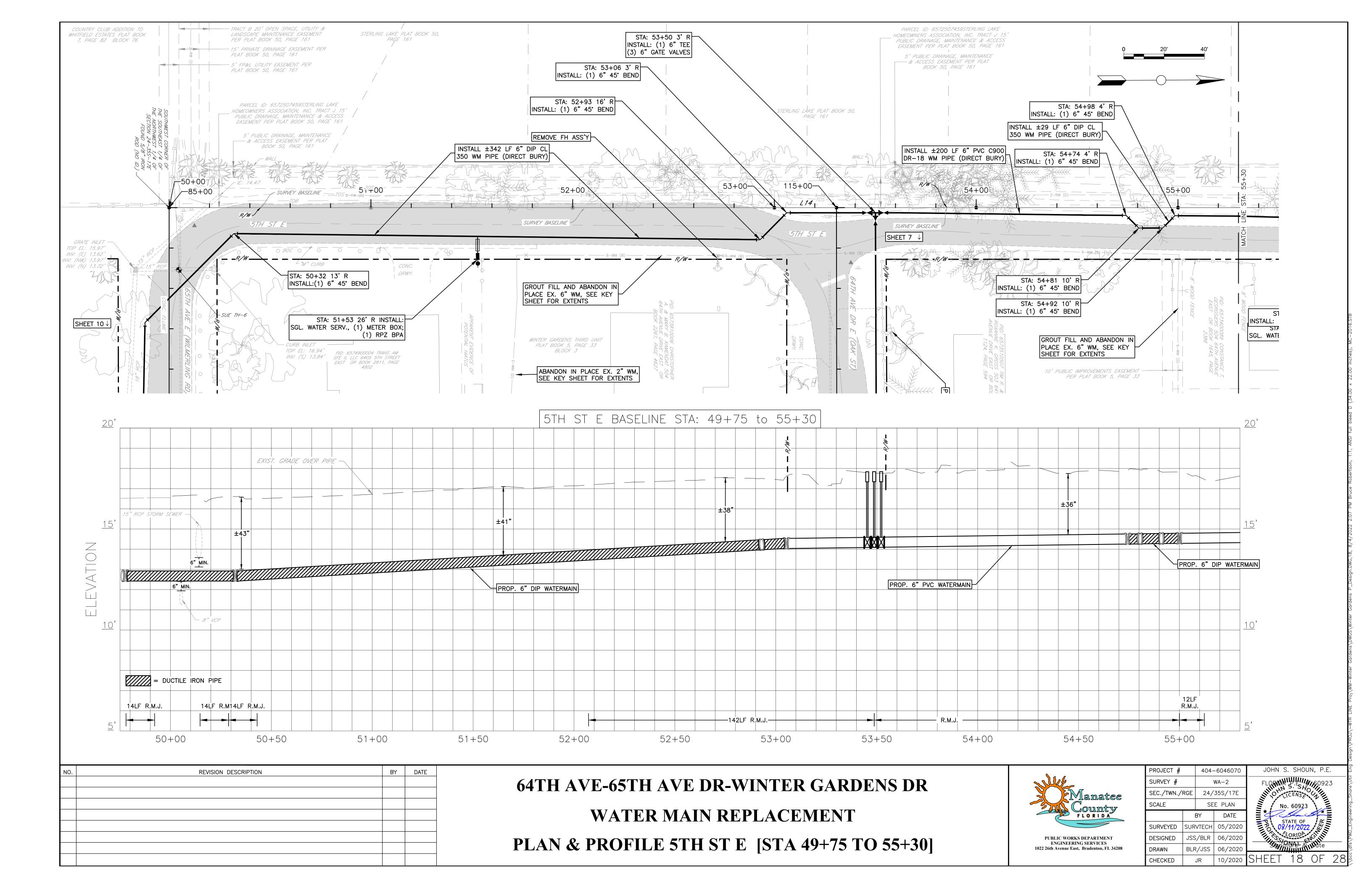


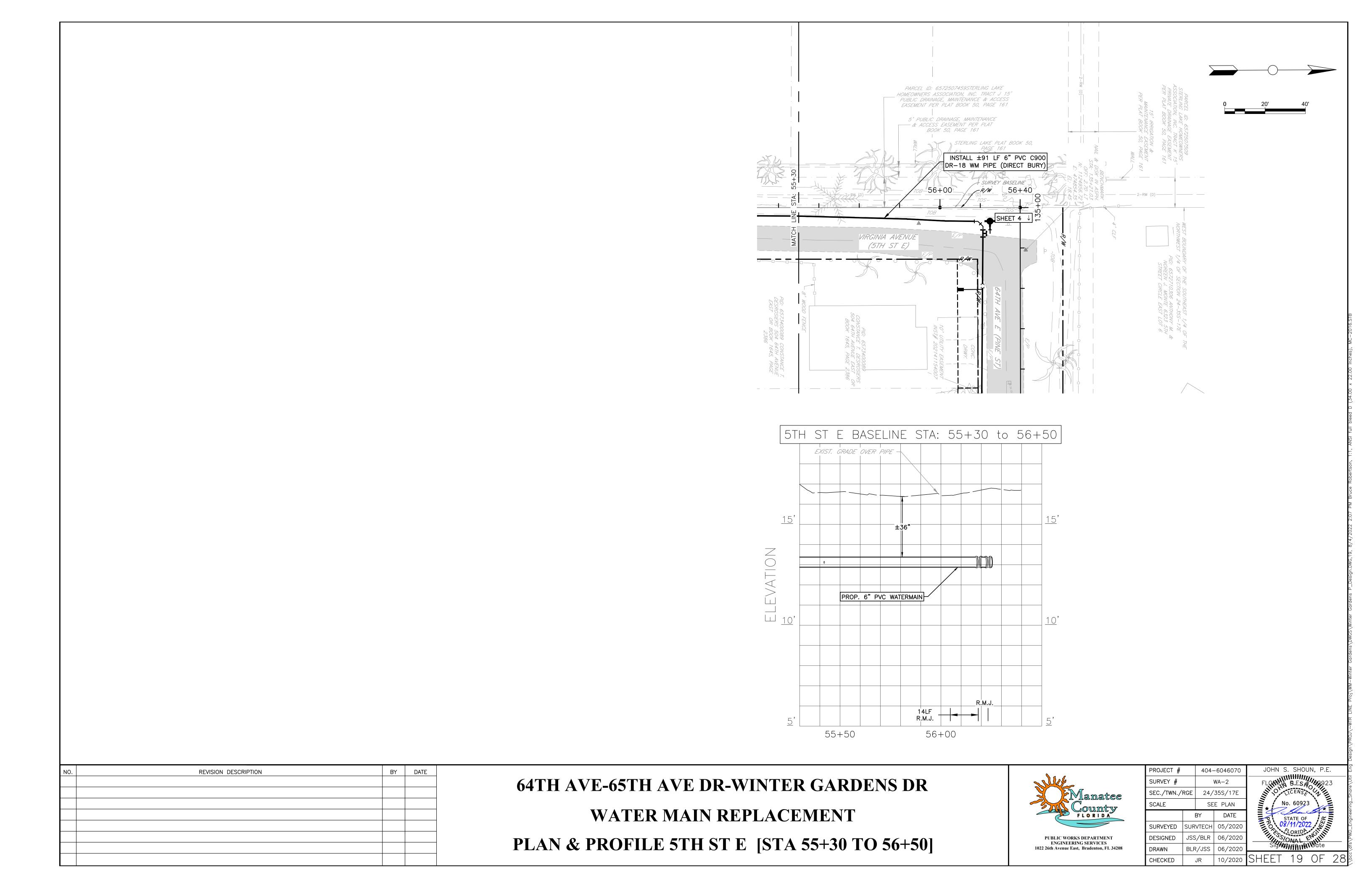


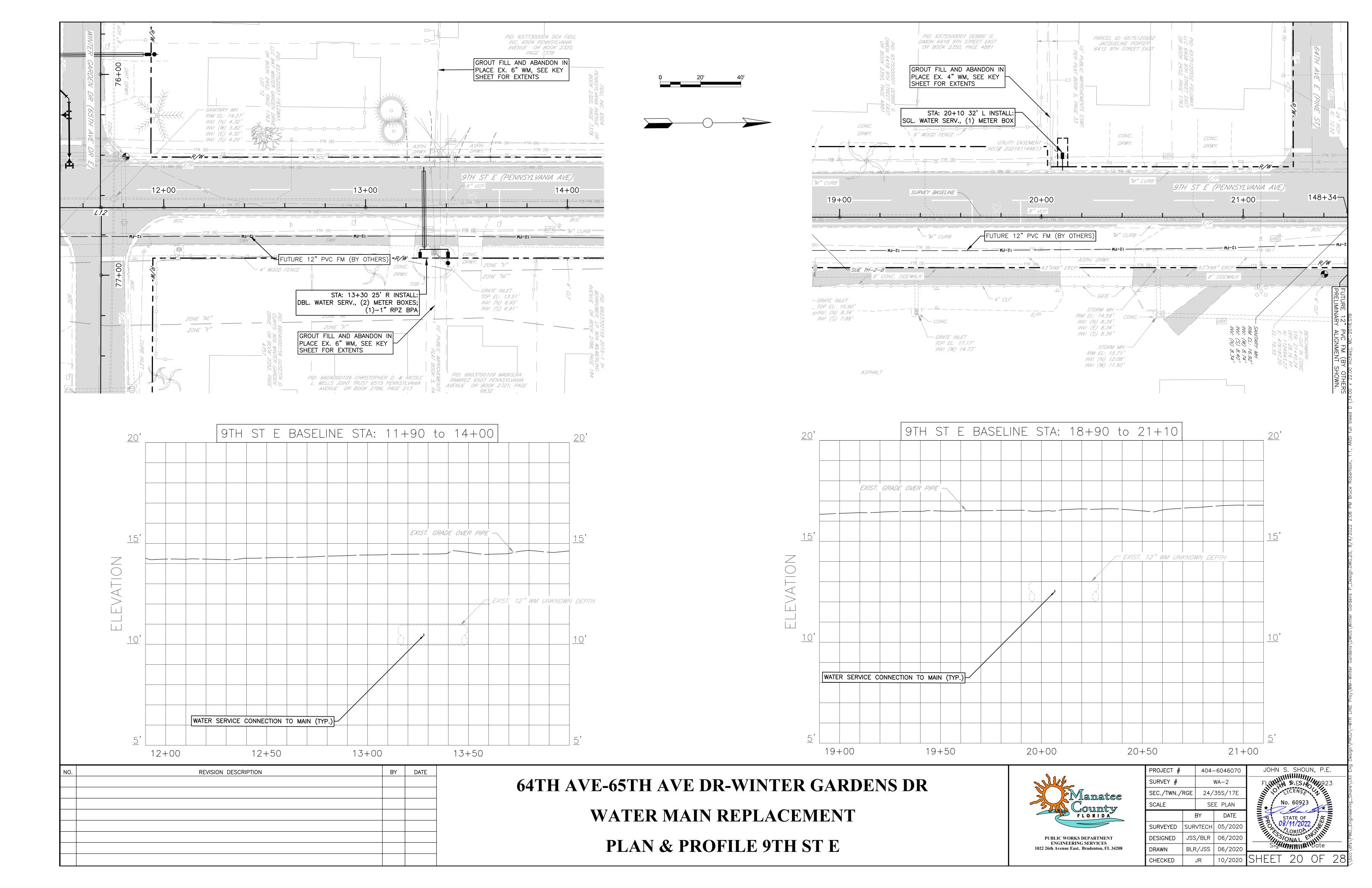


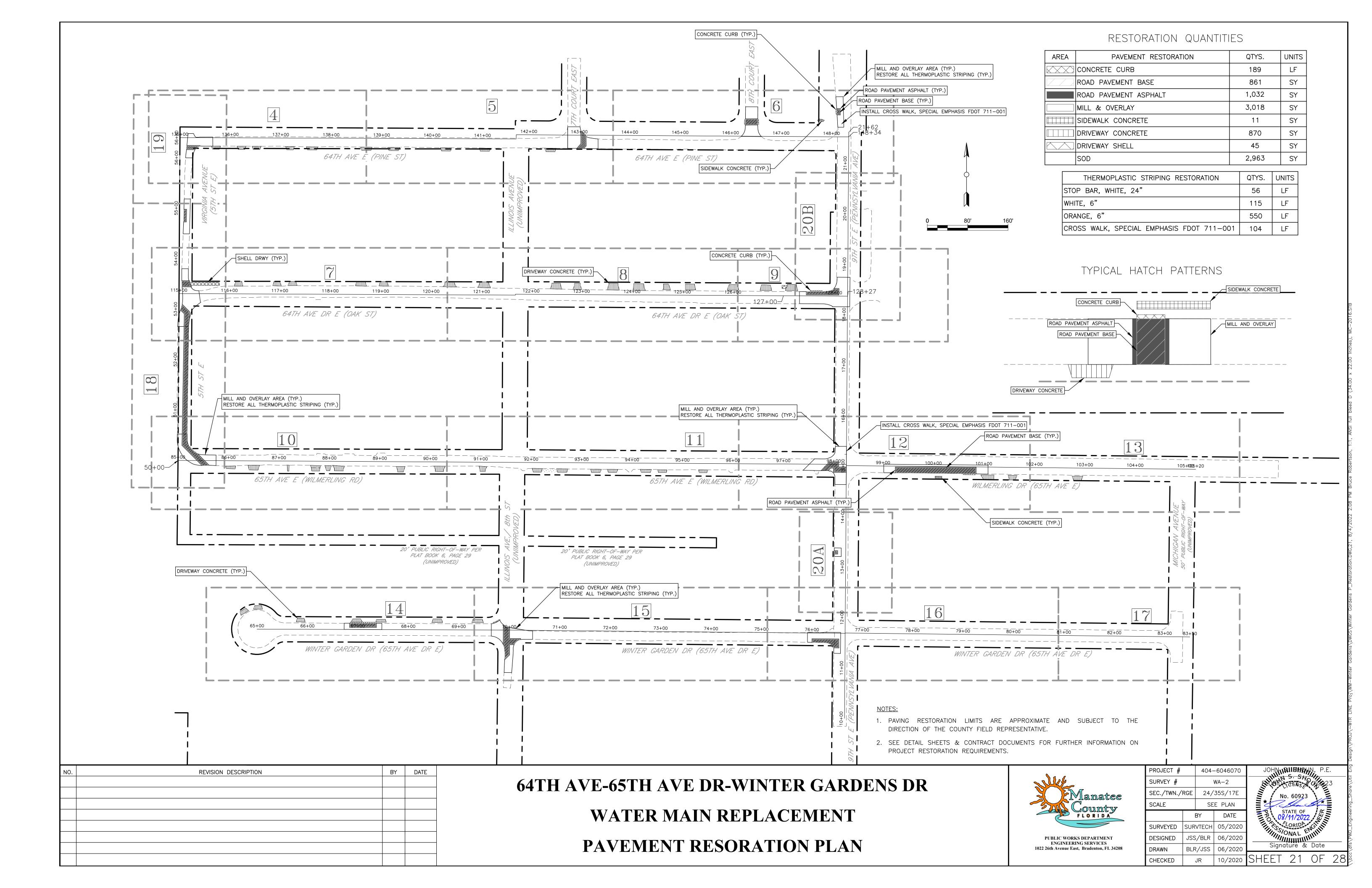












THE INFORMATION BELOW IS EXTRACTED FROM THE SURVEYORS REPORT FOR THE PURPOSE OF CONSTRUCTION. THE FULL SURVEYORS REPORT AND CAD DELIVERABLES ARE AVAILABLE UPON REQUEST, FROM THE MANATEE COUNTY, PUBLIC WORKS DEPARTMENT, UTILITY ENGINEERING DIVISION.

PURPOSE:

THE PURPOSE OF THIS SURVEY IS TO DEPICT THE EXISTING PLANIMETRIC FEATURES AND TOPOGRAPHIC DATA WITHIN THE PUBLIC RIGHT-OF-WAY BOUNDARIES IN ORDER TO ASSIST THE DESIGN AND CONSTRUCTION OF REMOVING AND REPLACING EXISTING WATERMAINS THROUGHOUT THE COUNTY SPECIFIED AREA OF INTEREST.

DATA SOURCES:

THE BEARING STRUCTURE FOR THIS SURVEY, AS DEPICTED WITHIN THE AFORESAID ELECTRONIC DRAWING FILE, IS BASED ON A NORTH AMERICAN DATUM (NAD) 1983 FLORIDA STATE PLANE WEST ZONE, BEARING OF N 00°24'41" E FOR THE SURVEY BASELINE OF 9TH STREET EAST

THIS SURVEY HAS BEEN PERFORMED WITHOUT THE BENEFIT OF TITLE POLICIES OR ABSTRACTS. THEREFORE, THE SIGNING SURVEYOR AND MAPPER CAN MAKE NO GUARANTEES TO OWNERSHIP OR ENCUMBRANCES.

LIMITATIONS:

THE ORIGINAL FIELDWORK FOR THIS SURVEY COMMENCED ON MARCH 17, 2020 AND WAS COMPLETED ON MAY 21, 2020.

THIS IS NOT A BOUNDARY SURVEY, THUS THE RIGHT-OF-WAY MONUMENTS DEPICTED WITHIN THE ELECTRONIC DRAWING FILE WERE SOLELY LOCATED IN ORDER TO CREATE THE ESTABLISHED RIGHT-OF-WAY BOUNDARY GEOMETRY, PROPERTY BOUNDARIES, EASEMENTS, AND THE ASSOCIATED BASELINES OF SURVEY. THE PROPERTY BOUNDARIES DEPICTED WITHIN THE ELECTRONIC DRAWING FILE WERE CREATED PER FOUND MONUMENTATION ALONG THE ASSOCIATED RIGHT-OF-WAY BOUNDARIES OR CALCULATED PER THE AFORESAID RECORDED DOCUMENTS WITHIN THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA. THIS IS NOT A BOUNDARY SURVEY, THUS SAID PROPERTY BOUNDARIES ARE NOT EXACT.

EASEMENTS/RIGHT-OF-WAY:

NO EASEMENT AND/OR RIGHT-OF-WAY INFORMATION WAS PROVIDED, THUS ALL EASEMENT AND RIGHT-OF-WAY INFORMATION DEPICTED WITHIN THE AFORESAID ELECTRONIC DRAWING FILE IS PER THE AFORESAID RECORDED DOCUMENTS WITHIN THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA.

PROJECT DATUMS:

HORIZONTAL:

THE HORIZONTAL DATUM UTILIZED FOR THIS PROJECT IS NAD 1983 FLORIDA WEST ZONE, 2011 ADJUSTMENT, U.S. SURVEY FEET. THE CONTROL UTILIZED TO ESTABLISH SAID DATUM WAS "GIS 080" BEING A NATIONAL GEODETIC SURVEY (NGS) HORIZONTAL CONTROL STATION.

VERTICAL:

THE VERTICAL DATUM UTILIZED FOR THIS PROJECT IS NORTH AMERICAN VERTICAL DATUM (NAVD) 1988, U.S. SURVEY FEET. THE BENCHMARKS UTILIZED WERE MANATEE COUNTY BENCHMARK "126-88-03" AND "126-88-04" WITH ELEVATIONS OF 15.97 FEET AND 16.91 FEET, RESPECTIVELY.

THE VERTICAL DATUM CONVERSION PER "VERTCON" FROM NAVD 1988 TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929 IS: NGVD 1929 = NAVD 1988 + 0.997 FEET,

PREPARED FOR AND CERTIFIED TO: MANATEE COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA SURVEYOR AND MAPPER IN RESPONSIBLE CHARGE: RESPECTFULLY SUBMITTED, AND CERTIFIED BY: SURVTECH SOLUTIONS, INC.

REVISION DESCRIPTION

STACY L. BROWN, P.S.M. #6516 VICE PRESIDENT NOT VALID WITHOUT THE ÖRIGINAL SIGNATURE AND RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

SUE/ VVH TABLE

Location	Northing	Easting	Approximate	Utility Type	Utility Owner	Size	Material
	Florida West	Florida West	T.O.P. Elevation			(Outside Diameter)	
	NAD 1983	NAD 1983	Feet				
	US Survey Feet	US Survey Feet					
1 – A	1124988.7	475633.4	15.1	Water	Manatee County	6 1/2"	PVC
1 – B	1125020.4	476137.2	12.7	Water	Manatee County	12 1/2"	AC P
2-A	1123918.4	475471.0	12.7	Water	Manatee County	6 1/2"	PVC
2-B	1124659.6	476135.2	12.3	Water	Manatee County	12 1/2"	PVC
3	1124324.9	476135.1	9.3	Water	Manatee County	12 1/2"	AC P
4	1124295.4	476177.7	12.9	Drainage	Manatee County	60"	RCP
5	1123949.6	476131.0	10.3	Water	Manatee County	12 1/2"	AC P
6	1124319.0	474860.4	14.6	Drainage	Manatee County	15"	RCP
				Sanitary	Manatee County	8 1/2"	VC P
7	1124985.2	475986.1	13.8	Water	Manatee County	6 1/2"	PVC

Note: T.O.P. Elevations are approximations based upon measure down distince subtracted from the TIN surface at that point. These are NOT FROM A MEASURED GROUND ELEVATION. This is best available data.

DATE

WATER MAIN REPLACEMENT

121+68.65 128+27.12 1124643.76 475498.40 1124639.95 476156.86 WILMERLING Dr. (65th Ave E) Baseline START STATION | END STATION | START NORTHING | START EASTING | END NORTHING | END EASTING 85+00.00 98+24.93 1124314.38 474829.55 1124306.52 476154.46 98 + 27.29476154.46 476154.44 98+24.93 1124306.52 1124304.17 98+27.29 105 + 20.001124304.17 476154.44 1124296.81 476847.12 Winter Garden Dr Baseline

START STATION | END STATION | START NORTHING | START EASTING | END NORTHING | END EASTING

START STATION | END STATION | START NORTHING | START EASTING | END NORTHING | END EASTING

START STATION | END STATION | START NORTHING | START EASTING | END NORTHING | END EASTING

474833.30

475499.92

475499.96

474831.49

475498.39

474986.08

475465.28

476152.06

1124951.55

1124959.77

1124955.57

1124642.02

1124643.76

1123978.30

1123971.80

1123972.32

474829.55 | 1124954.10 | 474833.30

475499.92

475499.96

476159.12

475498.39

475498.40

475465.28

476152.06

476152.06

1124954.10

1124951.55

1124959.77

1124645.10

1124642.02

1123980.04

1123978.30

1123971.80

1124314.38

L13	665.04	S89° 21' 04.20"E	76+66.53	83+31.57	1123972.32	476152.06	1123964.79	476817.06			
	5th St E Baseline										
SEGMENT	LENGTH	DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING			

69+79.21

76+66.01

76+66.53

CONSTRUCTION BASELINE HORIZONTAL CONTROL TABLE

64th Ave E Baseline

64th Ave Dr E Baseline

141+66.62

141+74.84

148+34.02

121+66.91

121+68.65

SEGMENT I

L1

SEGMENT

L5

SEGMENT

L8

L9

SEGMENT

L11

L12

LENGTH

LENGTH

666.91

1.74

LENGTH

LENGTH

686.80

0.51

DIRECTION

N00° 16' 55.98"E

DIRECTION

S89° 44' 06.01"F

N00° 16' 55.98"E

S89° 40' 06.82"E

DIRECTION

SOO°24'41.41"W

DIRECTION

S89° 27' 28.77"E

N00° 24' 41.41"E

L14 | 639.73 | N00° 20' 10.75"E | 50+00.00 | 56+39.73 |

1324.93 | S89°39′36.86"[

692.71 | S89° 23' 28.06"E

479.21 | S89° 47' 31.83"E

135+00.00

141+66.62

141 + 74.84

115+00.00

121+66.91

65+00.00

69 + 79.21

76+66.01

666.62 | S89° 46' 51.97"E

659.18 | S89° 38' 03.72"E

	9th St E Baseline									
SEGMENT	LENGTH	DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING		
L18	1161.50	N00° 24' 41.41"E	10+00.00	21+61.50	1123803.26	476150.85	1124964.73	476159.19		

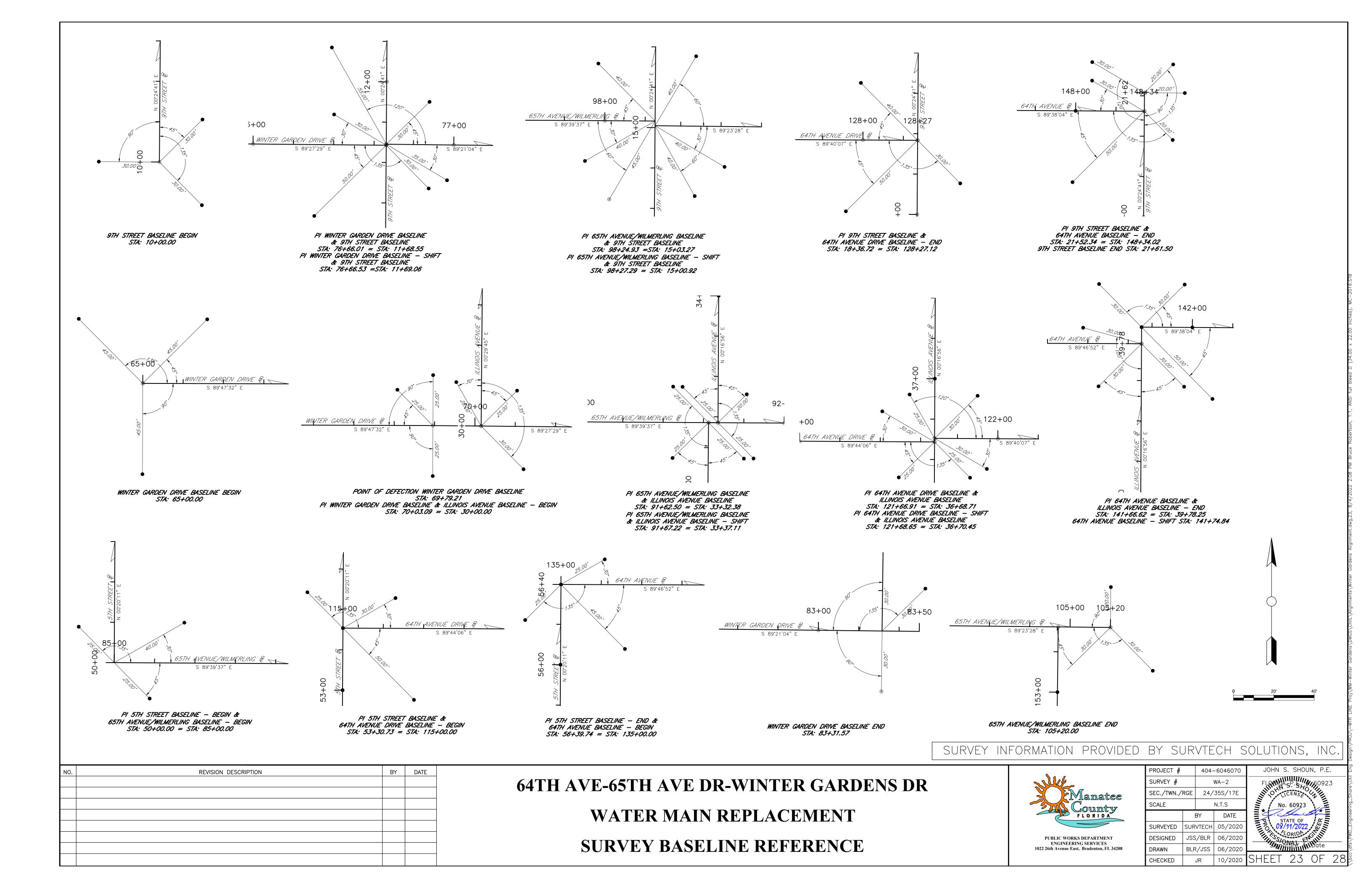
	Illinois Ave Baseline										
SEGMENT	LENGTH	DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING			
L15	332.38	N00° 29′ 45.36″E	30+00.00	33+32.38	1123978.08	475489.16	1124310.45	475492.04			
L16	4.72	S89° 39' 36.86"E	33+32.38	33+37.11	1124310.45	475492.04	1124310.42	475496.76			
L17	641.14	N00° 16' 55.98"E	33+37.11	39+78.25	1124310.42	475496.76	1124951.55	475499.92			

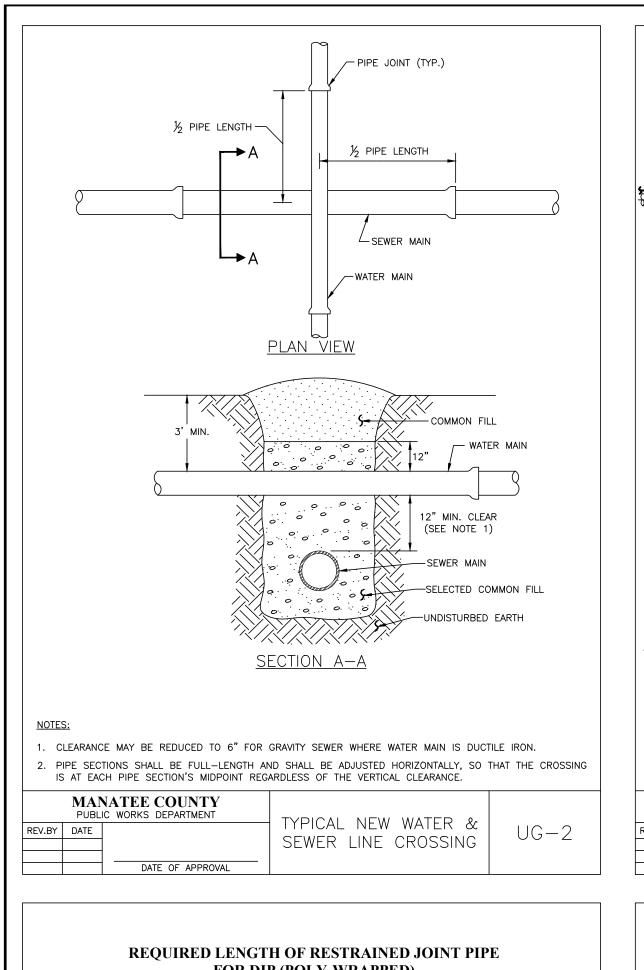
	Michigan Av Baseline									
SEGMENT	LENGTH	DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING		
L19	332.32	N00° 43′ 27.39″E	150+00.00	153+32.32	1123964.79	476817.06	1124297.08	476821.26		

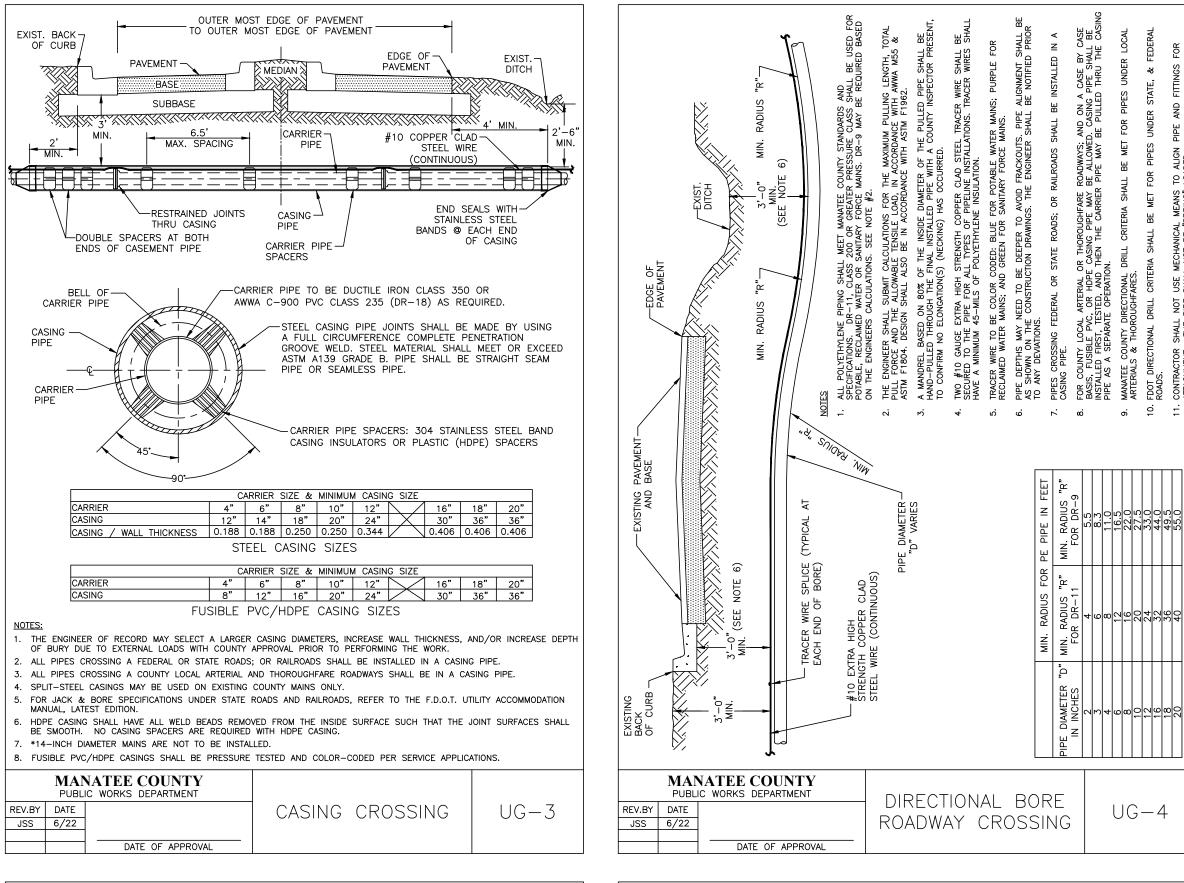


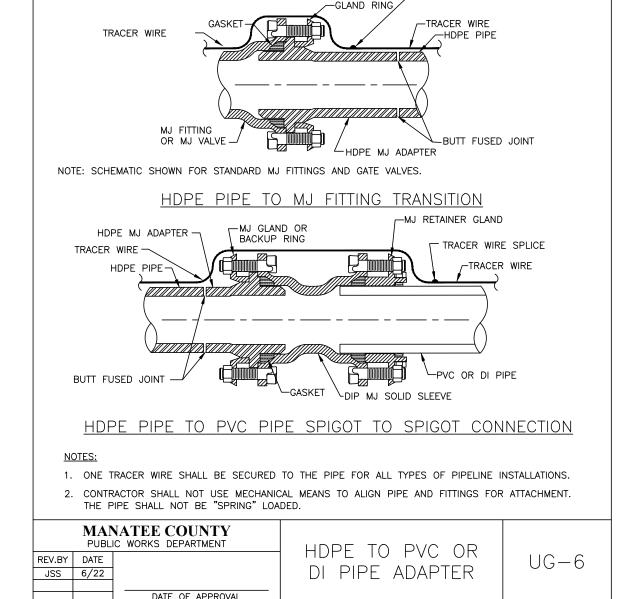
PROJECT #		404-	-6046070	JOHN S. SHOUN, P.E.				
SURVEY #		,	WA-2	FLORING B.Es. # 60923				
SEC./TWN./	RGE	24/	35S/17E	FLORIDA 5, ES # 60923 No. 60923				
SCALE			N.T.S	No. 60923				
		BY	DATE	STATE OF				
SURVEYED	SUR	VTECH	05/2020	STATE OF 08/11/2022				
DESIGNED	JSS	/BLR	06/2020	**************************************				
DRAWN	BLF	R/JSS	06/2020	Signatura in the Signature in the second sec				
CHECKED		JR	10/2020	SHEET 22 OF 28				

64TH AVE-65TH AVE DR-WINTER GARDENS DR SURVEY CONTROL & S.U.E. V.V.H. TABLE









USED TO COMPACT THE SUB-GRADE OR PAVING MATERIALS.

A MINIMUM OF 1-1/4 INCH S-I, WHICHEVER IS GREATER.

REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.

. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.

WHICHEVER IS LESS.

_ SAW CUT JOINT

PRESSURIZED MAINS:—
6" ELECTRICALLY DETECTABLE PATH
MARKING TAPE BETWEEN 12" & 24"
BELOW FINISH SURFACE OVER PIPE.

TAPE SHALL BE MARKED "WATER",
"SEWER" OR "RECLAIMED"

GRAVITY SEWER MAINS:

3" WIDE DETECTABLE TAPE PLACED AT
12 INCHES FROM FINISHED GRADE OR
6" WIDE PLACED BETWEEN 12 INCHES
AND 24 INCHES BELOW FINISHED
GRADE.

(SEE NOTE 11)

UNDISTURBED STABLE MATERIAL MANATEE COUNTY

PUBLIC WORKS DEPARTMENT

(SEE NOTE 2)

USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

O. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.

PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD,

. MILL 25' BACK FROM TRENCH CROSSING SAW CUTS. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE.

MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY

TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANEN

2. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.

MILL EXIST. ASPHALT & PATCH PRIOR TO PLACING FINAL LAYER 3/4" MIN. S-III ASPHALTIC CONCRETE OVERLAY

1-1/4" MIN. S-I ASPHALTIC CONCRETE W/ PRIME COAT (SEE NOTE 5), BOTTOM LAYER

. O SEE NOTE 7-

PIPE O.D.

BEDDING

TRENCH WITH ASPHALT

PAVEMENT SURFACE

TYPE A-1 PIPE

BEDDING (CROSSING)

SEE NOTE 8-

BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT.

SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE. NEW BASE SHALL MATCH EXISTING; OR BE CRUSHED CONCRETE, 8" MIN. THICKNESS, LBR ≥150, WHICHEVER IS

-TRACER WIRE SPLICE

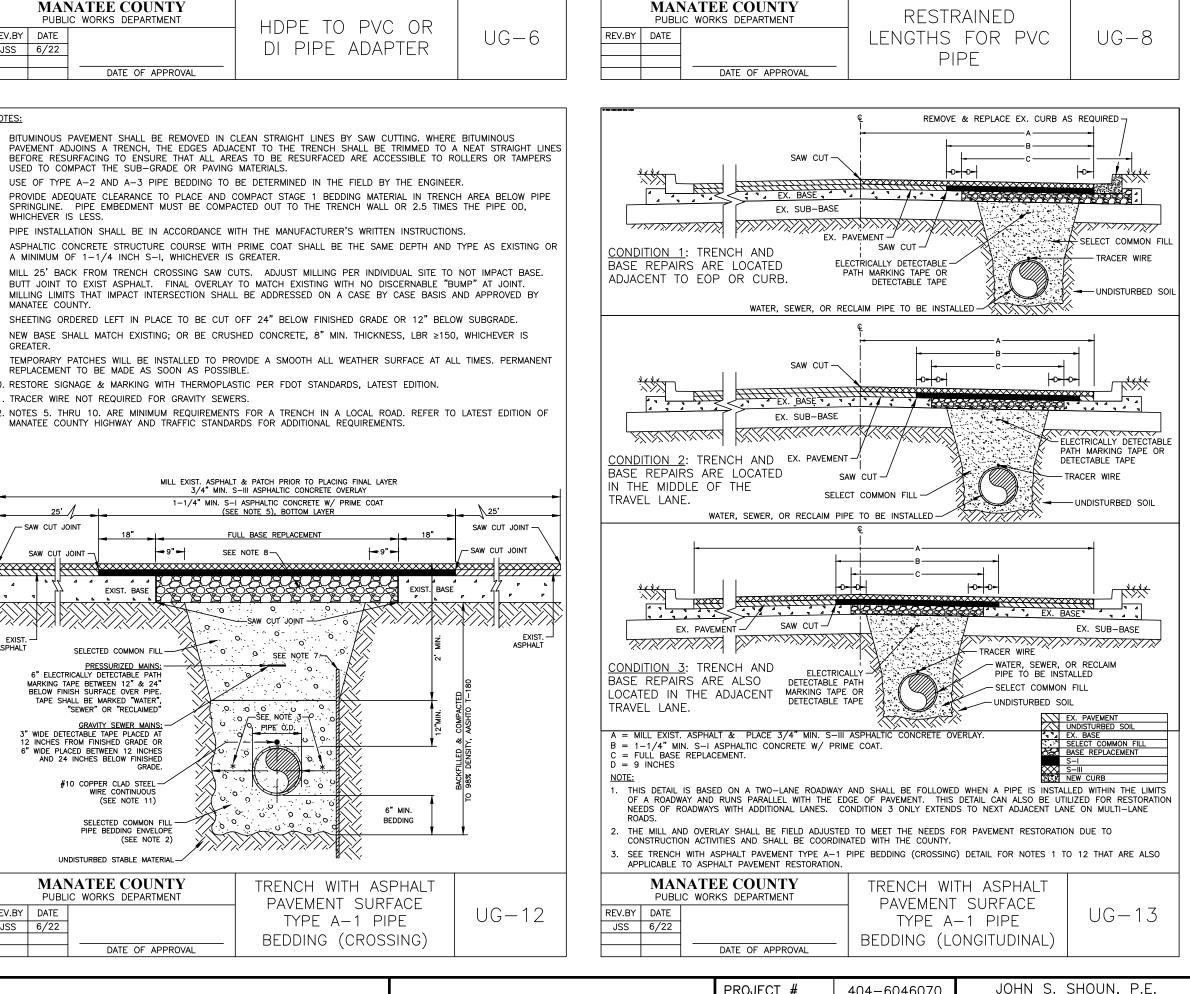
-WEDGE ACTION

TRACER WIRE

BACK-UP RING OR MJ GLAND -

HDPE MJ ADAPTER -

TRACER WIRE



REQUIRED LENGTH OF RESTRAINED JOINT PIPE

FOR C900-16 PVC PIPE (DR-18)

REDUCERS

PLUGS & VALVES

214

184

151 118

100

83

63

HORIZ. BENDS

90° | 45° | 22.5° |

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

6. LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.

OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.

TEST PRESSURE IN EITHER DIRECTION.

5. RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.

4. PIPE SIZES ARE GIVEN IN INCHES.

UTILITIES STANDARDS MANUAL.

FOR PIPE.

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

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

8. RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL UG-10 RESTRAINED LENGTHS

10. ALL THREE "LEGS" OF TEES SHALL BE RESTRAINED PER THE STATED LENGTH IN THE TABLE.

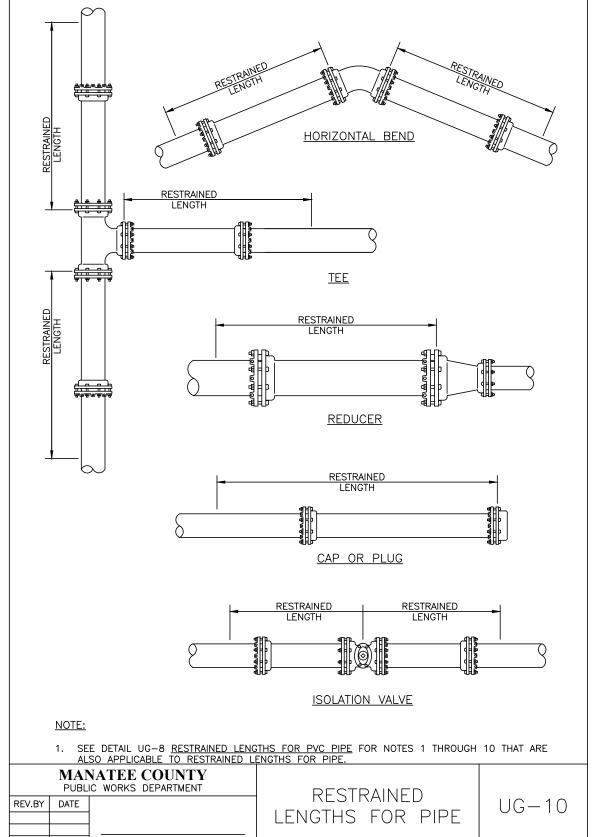
9. ALL RESTRAINED JOINT HARDWARE SHALL CONFORM TO 1.11.17 OF THE PUBLIC WORKS

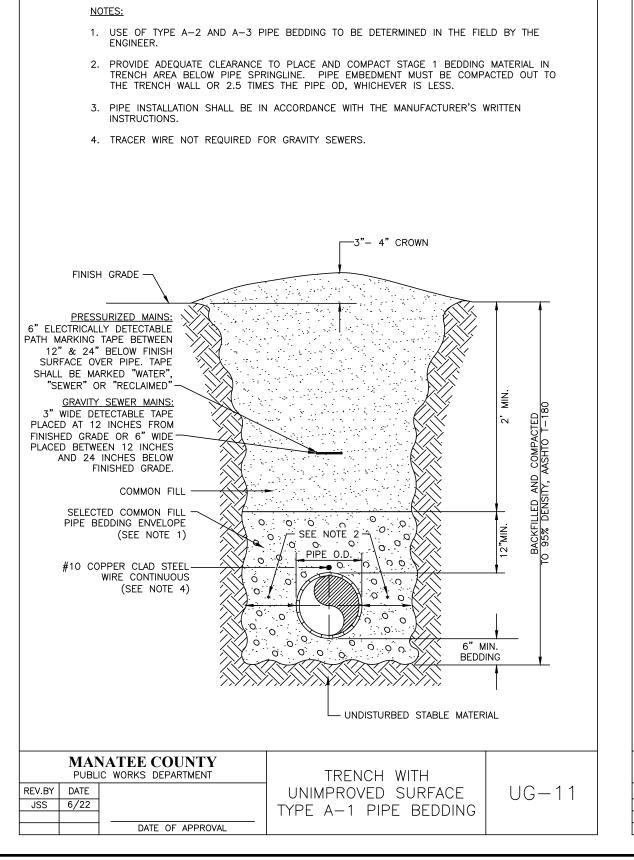
FOR DIP (POLY-WRAPPED)

MAIN	HOR	IZ. B	ENDS		TEES						REDUCERS			PLUGS & VALVES
PIPE SIZE	90°	45°	22.5°			SIZE	LENGTI	Η		SIZE LENGTH				
36	142	59	28	x36 393	x30 318	×24 232	x20 165	x16 84	x12 1	X30 137	X24 247	X20 X1	6359	453
30	124	51	25	X30 333	X24 252	X20 189	X16 115	X12 23	x10 1	X24 137	X20 213	X16 276		391
24	106	44	21	X24 270	X20 211	X16 143	X12 61	X10 10	x8 1	X20 98	X16 178	X12 241		327
20	92	38	18	X20 225	X16 161	X12 85	X10 39	x8_1		X16 98	X12 176	X10 227		280
16	77	32	15	X16 177	X12 107	X10 65	X8 19	x6 1		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	x6 11				X8 51	X6 94	X4 125		153
8	44	18	9	X8 78	X6 30	×4_1				X6 54	X4 92			128
6	34	14	7	X6 46	×4 1					X4 50				98
4	24	10	5	x4 19							·			69

SEE UG-8, <u>RESTRAINED LENGTHS FOR PVC PIPE</u> DETAIL FOR NOTES 1 THROUGH 10 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR DIP.

		NATEE COUNTY IC WORKS DEPARTMENT	- RESTRAINED	
REV.BY	DATE		I FNGTHS FOR DIP	UG-9
		DATE OF APPROVAL	LENOTHS FOR BII	





	DATE OF APPROVAL DATE	E OF APPRO	VAL	
NO.	REVISION DESCRIPTION	BY	DATE	

64TH AVE-65TH AVE DR-WINTER GARDENS DR WATER MAIN REPLACEMENT **DETAILS**



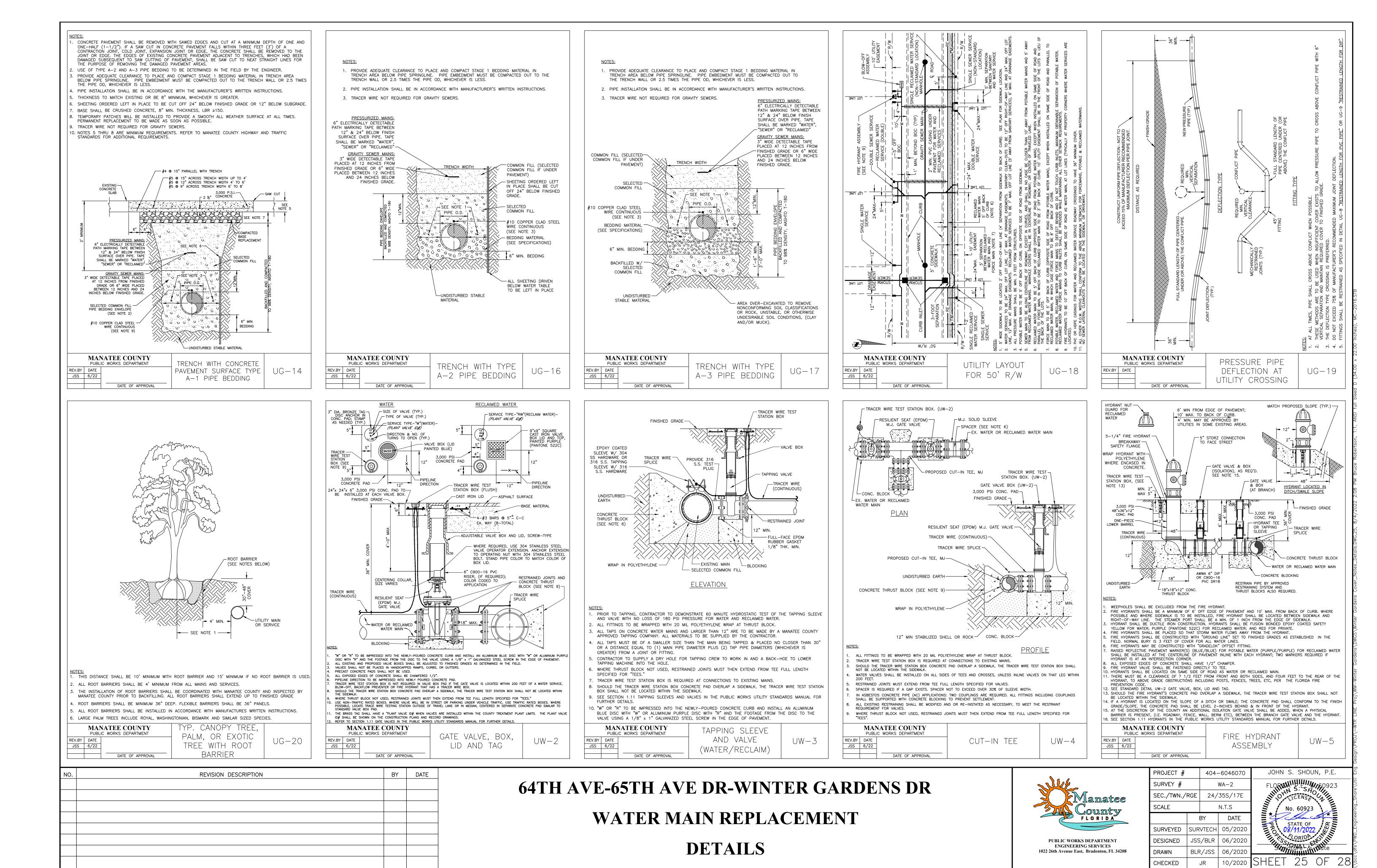
1022 26th Avenue East, Bradenton, FL 34208

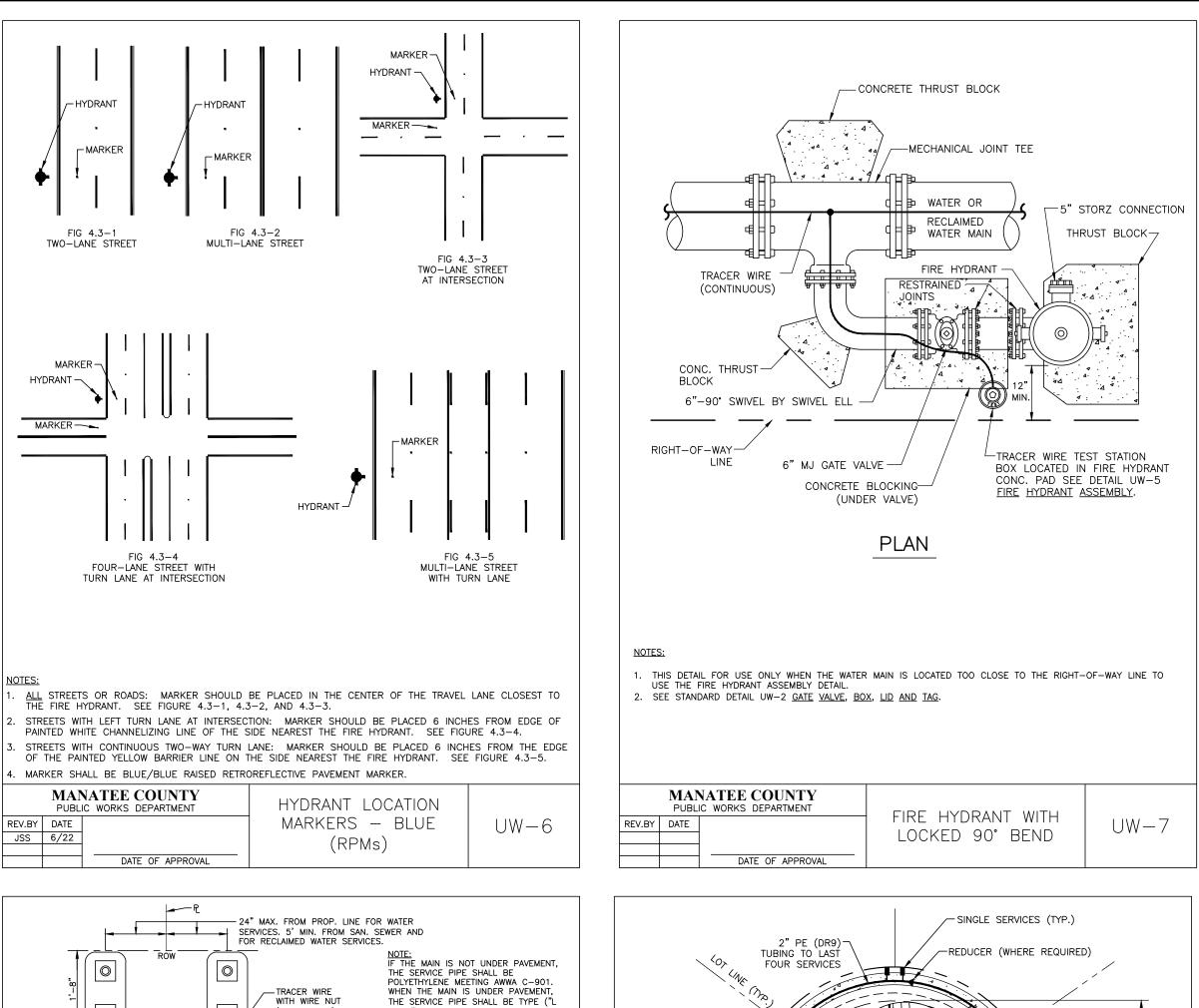
UG-12

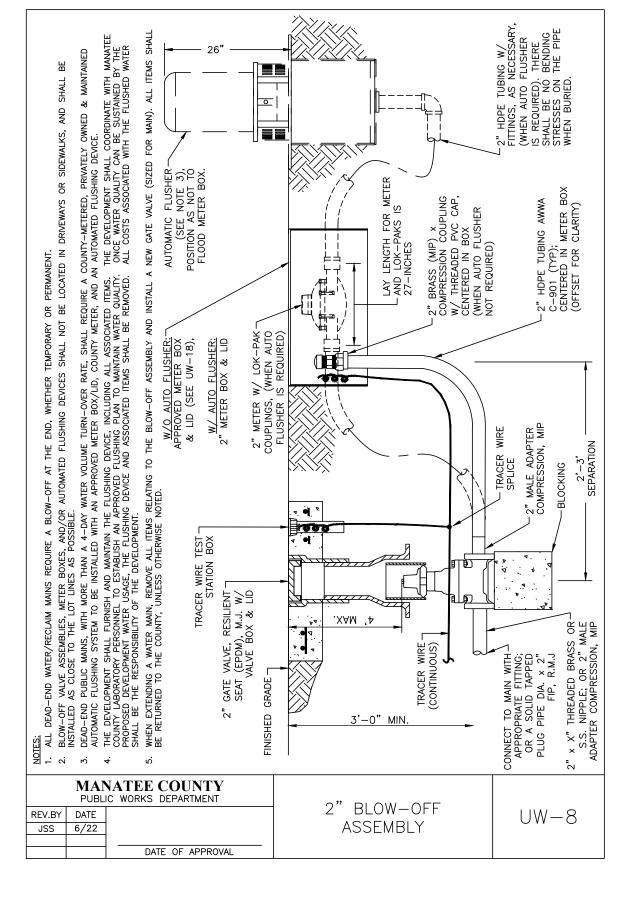
SAW CUT JOINT -

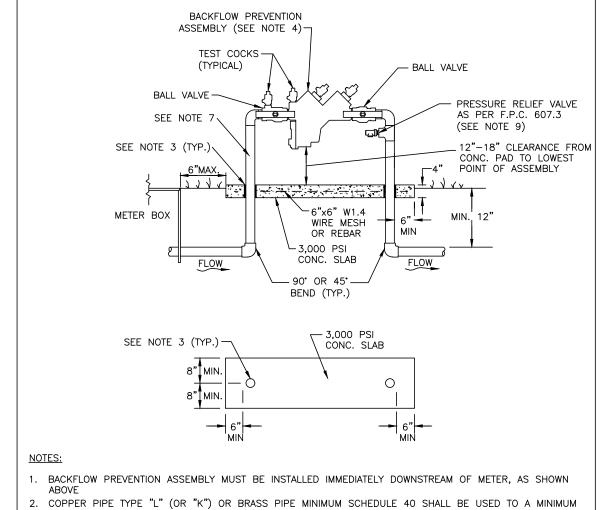
-SAW CUT JOINT

			·		
	PROJECT #		404-	-6046070	JOHN S. SHOUN, P.E.
	SURVEY #		,	WA-2	FLORIDANH HILLINGO 923
	SEC./TWN./RGE SCALE		24/	35S/17E	FLORIDANHIMINO 923 FLORIDANHIMIN 5. 5 HOUND 10 TO ENSE 10 10 10 10 10 10 10 10 10 10 10 10 10
				N.T.S	No. 60923
			BY	DATE	* She she
	SURVEYED	SUR	:VTECH	05/2020	STATE OF 08/11/2022
	DESIGNED	JSS	S/BLR	06/2020	A CORIDA OCITIES
	DRAWN	BLR/JSS		06/2020	Signature Light
	CHECKED	,	JR	10/2020	SHEET 24 OF 28



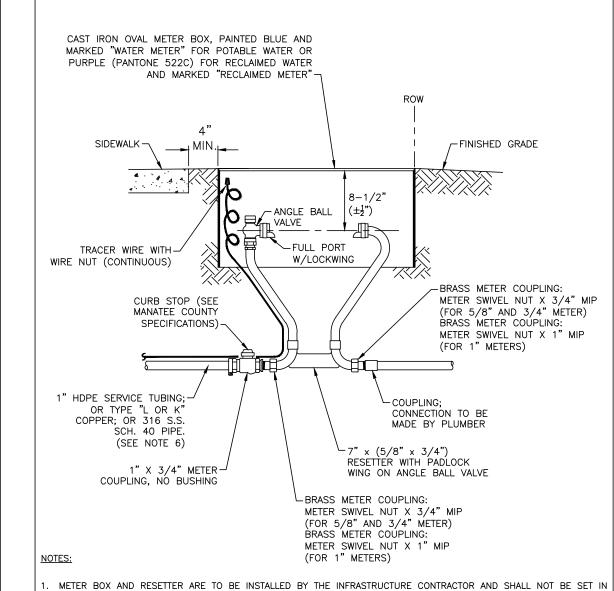






- DEPTH OF 12" BELOW GRADE. PIPES PASSING THROUGH CONCRETE SLAB SHALL BE PROPERLY PROTECTED; POLYETHYLENE WRAPPED OR PVC SLEEVED. COPPER SHALL NOT COME IN CONTACT WITH THE CONCRETE.
- . THE SYSTEM MUST MEET ALL REQUIREMENTS OF THE FLORIDA PLUMBING CODE (LATEST EDITION) AND CHAPTER 2-31, ARTICLE X OF THE MANATEE COUNTY CODE OF ORDINANCES. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
- BACKFLOW PREVENTER SHALL BE TESTED AT THE TIME OF INSTALLATION. PRESSURE REDUCING VALVE IS REQUIRED UPSTREAM OF BACKFLOW PREVENTION ASSEMBLY, IF SYSTEM PRESSURE EXCEEDS 80 PSI.
- 3' MINIMUM CLEARANCE FROM LANDSCAPING PLANTS AND 10' MIN. CLEARANCE FROM TREES TO EDGE OF CONCRETE SLAB AND CLEAR OPENING FOR ACCESS FROM STREET PRESSURE RELIEF VALVE IS REQUIRED ON ALL 3/4" & 1" BACKFLOW PREVENTION ASSEMBLIES. IN
- ADDITION, THE BUILDING DEPARTMENT, MAY REQUIRE AN APPROVED DEVICE FOR THERMAL EXPANSION CONTROL DOWNSTREAM OF THE ASSEMBLY. O. FITTINGS AND CONNECTIONS FOR ABOVE-GROUND INSTALLATIONS SHALL NOT ALLOW ANY MOVEMENT OR
- ROTATION OF BACKFLOW PREVENTION ASSEMBLY.
- 1. REFER TO DETAIL US-21 OR US-22 <u>WATER METER</u> & <u>BACKFLOW PREVENTER FOR LIFT STATIONS</u> FOR WATER SERVICE AT SEWAGE PUMPING STATION. 2. BACKFLOW PREVENTION ASSEMBLIES USED FOR POTABLE APPLICATIONS SHALL BE LEAD FREE AS DEFINED IN THE REDUCTION OF LEAD IN DRINKING WATER ACT, SECTION 1417 OF THE SAFE DRINKING WATER ACT, 42

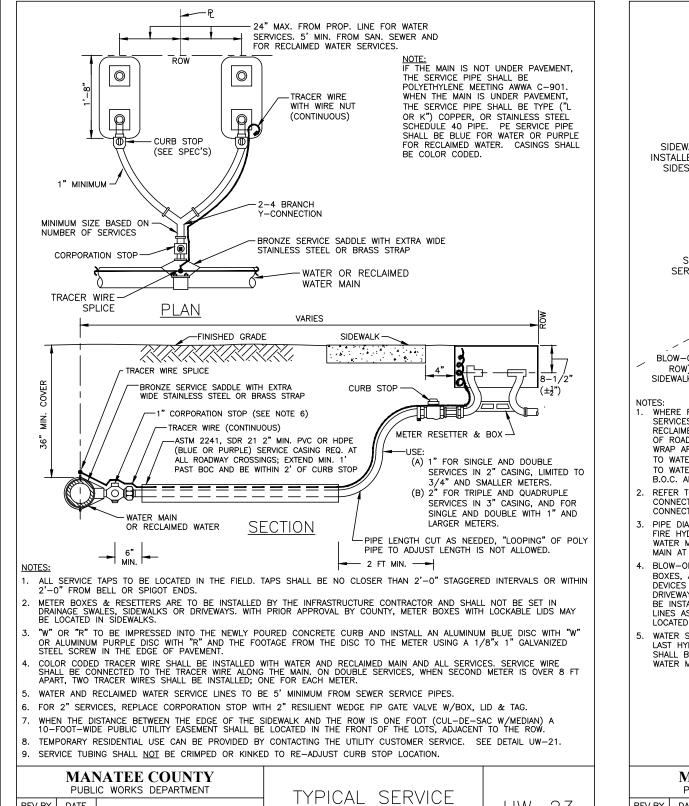
U.	S.C. 300	Dg-6, AS MAY BE AMENDED, AND	IN COMPLIANCE WITH ALL APPLICABLE REGU	JLATIONS	
		NATEE COUNTY IC WORKS DEPARTMENT	3/4" & 1"		
REV.BY	DATE		BACKFLOW	UW-13	
JSS	6/22		PREVENTION		
			100511011		
		DATE OF APPROVAL	<u> ASSEMBLY</u>		[

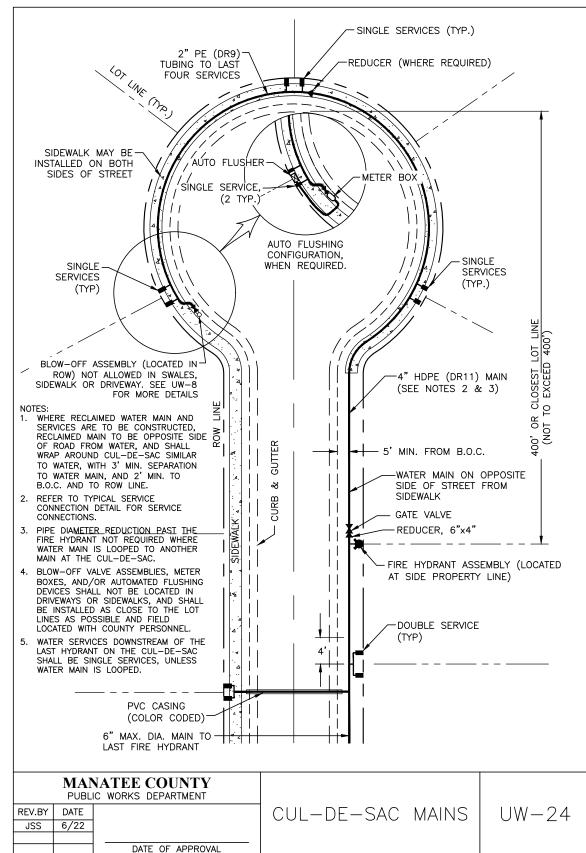


DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS. WITH PRIOR APPROVAL BY COUNTY, METER BOXES WITH LOCKABLE

- THE METER RESETTER SHALL BE INSTALLED IN SUCH A MANNER AS TO ALLOW REMOVAL AND REPLACEMENT WITHOUT DISTURBING THE STRUCTURAL INTEGRITY OF THE PIPING SYSTEM, THE SHUTOFF VALVES, OR THE RESETTER. 3. FOR COMPLETE SERVICE CONNECTION ASSEMBLY, SEE DETAIL UW-23 TYPICAL SERVICE CONNECTION.
- 4. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK AND THE R/W IS ONE FOOT (CUL-DE-SAC W/ MEDIAN) A 10-FOOT-WIDE PUBLIC UTILITY EASEMENT SHALL BE LOCATED IN THE FRONT OF THE LOTS, ADJACENT TO THE
- 5. 3' MINIMUM CLEARANCE FROM LANDSCAPING PLANTS AND 10' MIN. CLEARANCE FROM TREES TO EDGE OF METER, CLEAR ACCESS OPENING TO STREET.
- 6. SERVICE TUBING SHALL <u>NOT</u> BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION. 7. "W" OR "R" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB AND INSTALL AN ALUMINUM BLUE DISC
- WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE METER BOX USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT.

		NATEE COUNTY IC WORKS DEPARTMENT	METER BOX ASSEMBLY	
REV.BY	DATE		FOR 5/8" X 3/4";	UW-20
JSS	6/22		3/4": AND 1" METERS	
			13/4, AND I WEIERS	
		DATE OF APPROVAL	,	





DATE OF APPROVA	AL					DATE OF APPRO)VAL
		REVISION DE	SCRIPTION			BY	DA
-							
		DATE OF AFFINOME		REVISION DESCRIPTION			

CONNECTION

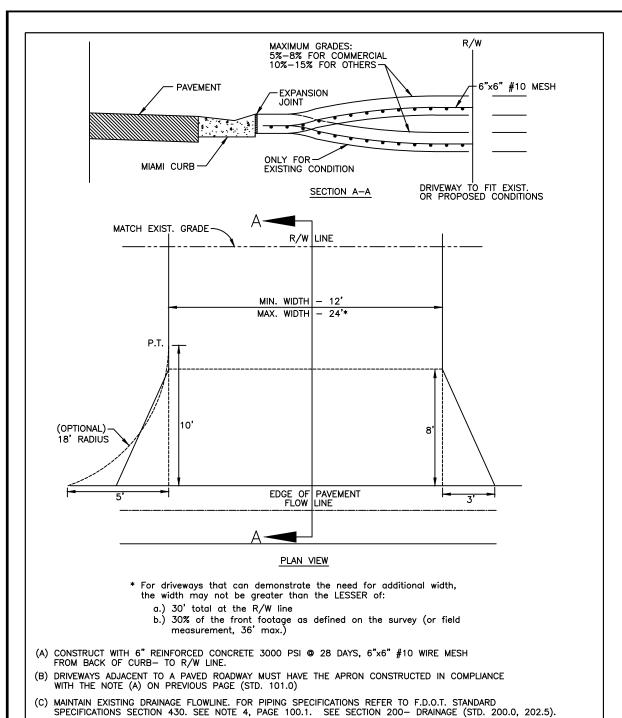
UW-23

64TH AVE-65TH AVE DR-WINTER GARDENS DR WATER MAIN REPLACEMENT **DETAILS**



PROJECT #		404-	-6046070	JOHN S. SI
SURVEY #		,	WA-2	FLONDA SP. B
SEC./TWN./	RGE	24/	35S/17E	No. 609
SCALE		N.T.S		No. 609
	BY		DATE	STATE
SURVEYED	SUR	VTECH	05/2020	08/11/2
DESIGNED JSS		/BLR	06/2020	STATE 08/11/2 20RIV SIONAL SIGNAMIA
DRAWN BLF		R/JSS	06/2020	Signathia
CHECKED		JR	10/2020	SHEET 20

				i d G
PROJECT #		404-6046070		JOHN S. SHOUN, P.E.
SURVEY #		,	WA-2	FLONG S. B. # 180923
SEC./TWN./RGE		24/	35S/17E	FLONDA SP. 15 1 60923 No. 60923
SCALE		N.T.S		No. 60923
		BY	DATE	STATE OF A
SURVEYED SUR		:VTECH	05/2020	08/11/2022 / # = 1
DESIGNED JSS		S/BLR	06/2020	SONAL ENTITION OF THE PROPERTY
DRAWN BLR		R/JSS	06/2020	Signoffication &
CHECKED		JR	10/2020	SHEET 26 OF 28



D) 3'x8' FLARE OR 18' RADIUS WITH CURB TRANSITION (TRANSITION FROM TYPE "F" CURB TO MIAMI CURB) SEE STD. 102.2 NO CHANGE WITH 3' VALLEY CROSSINGS — SEE STDS. 201.0, 201.1, 201.2, 201.4, 201.5, 201.6.

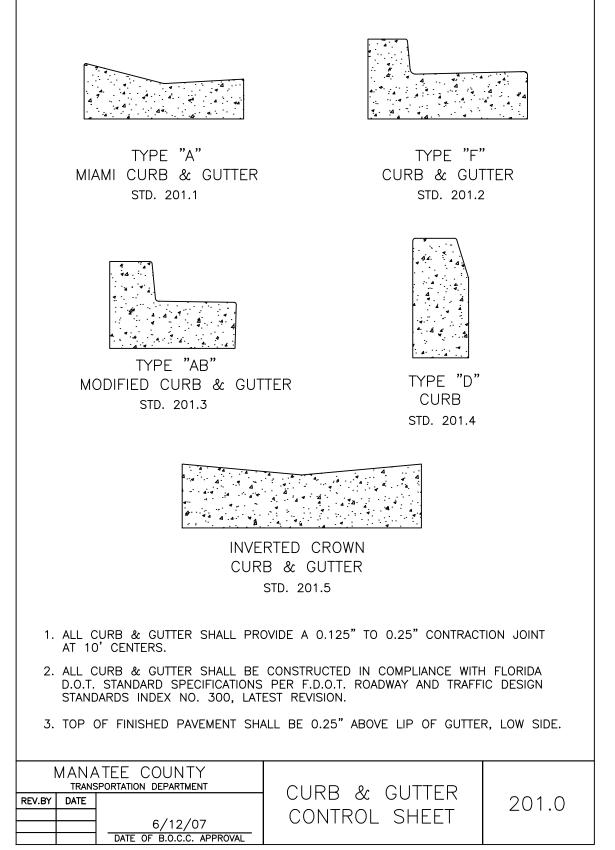
(F) LATERAL ALIGNMENT 45 DEGREES FOR DOUBLE DRIVE PER LOT, 90 DEGREES FOR SINGLE DRIVE, OFF CENTER LINE.

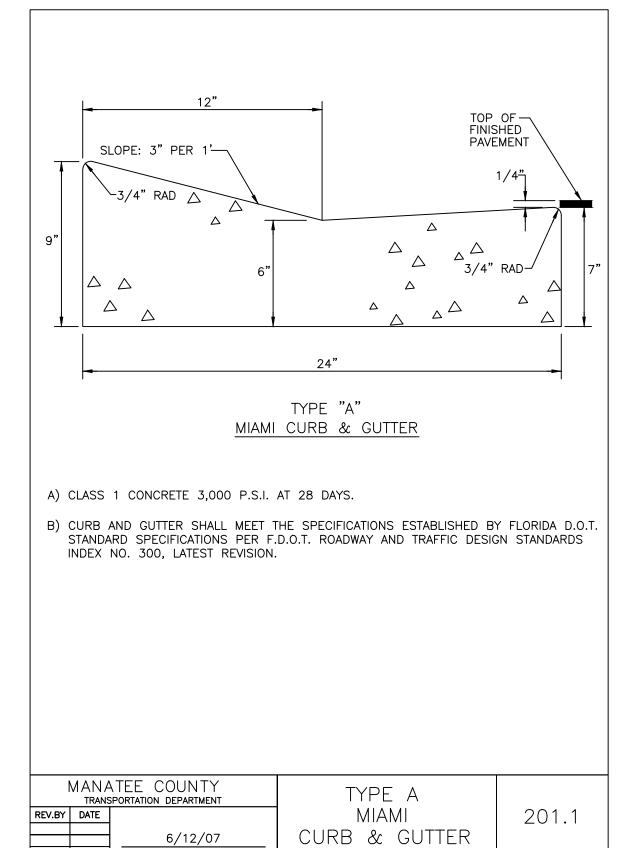
URBAN DRIVES

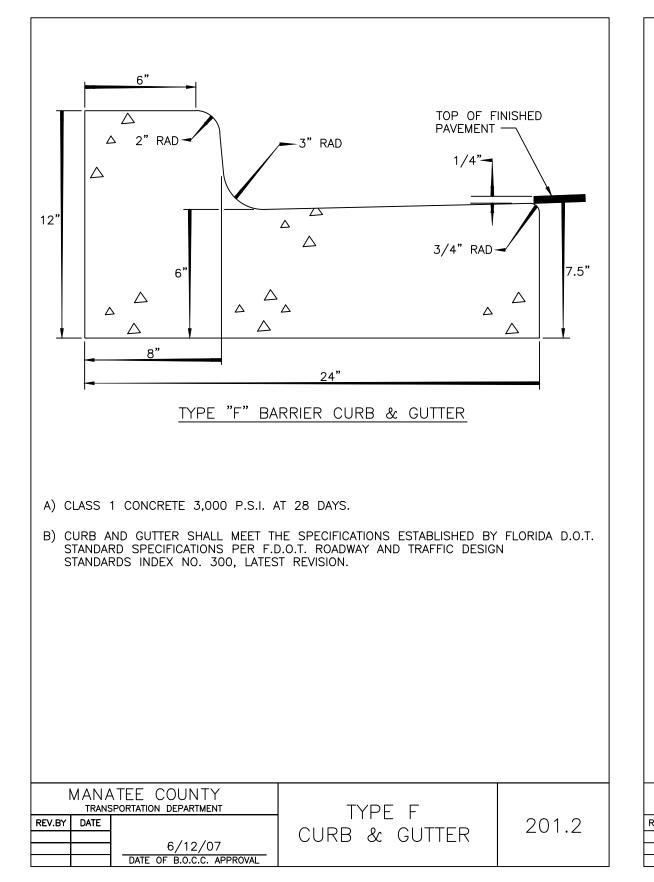
101.1

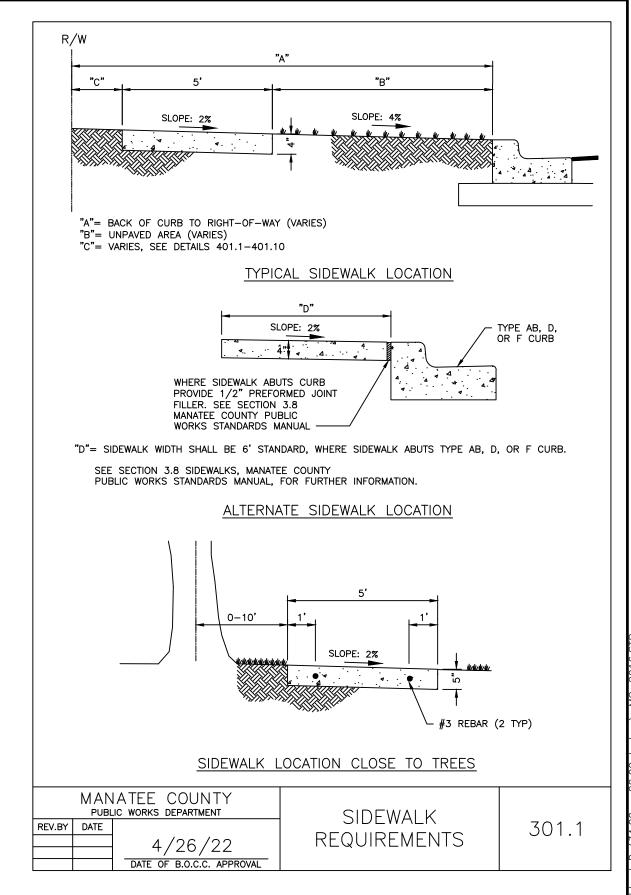
(E) EXPANSION JOINT 0.50" PREFORMED JOINT FILLER OR APPROVED ALTERNATE, DRIVES WIDER THAN 12' (BEYOND FLARE) PLACE JOINT ON 10' CENTER.

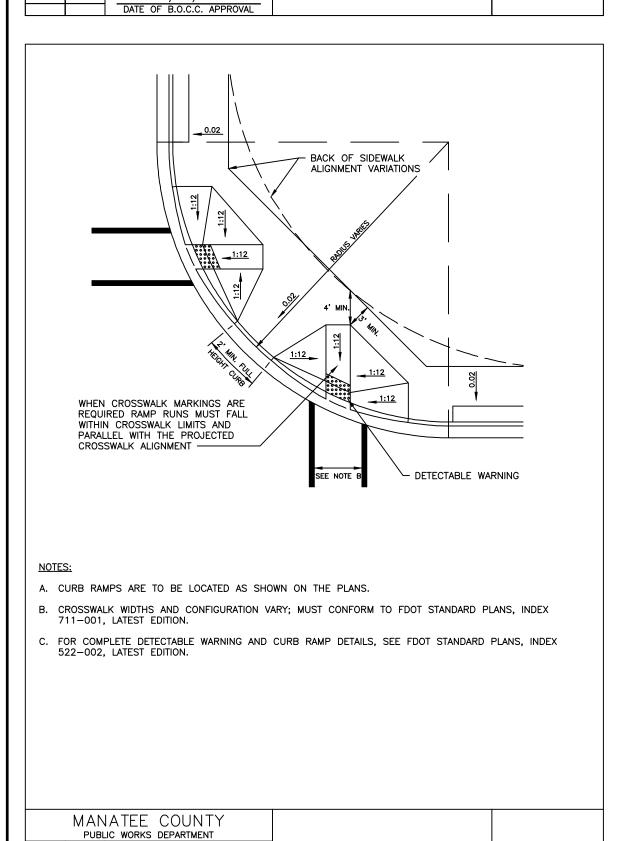
MANATEE COUNTY

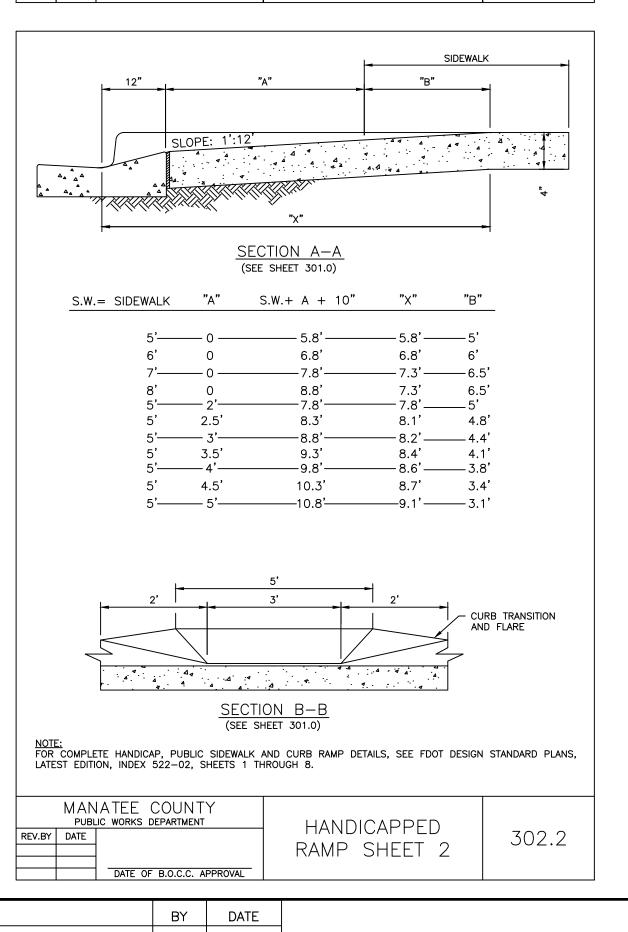


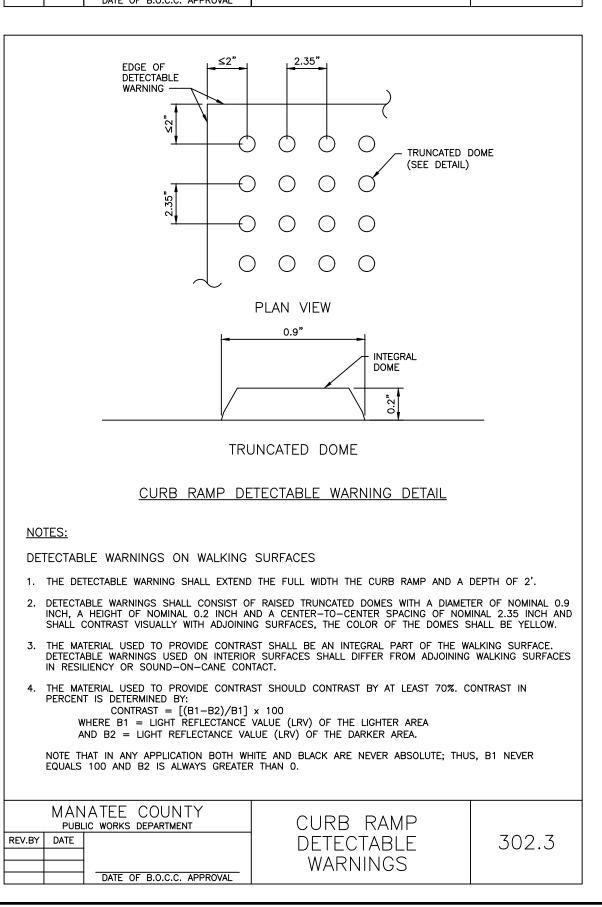


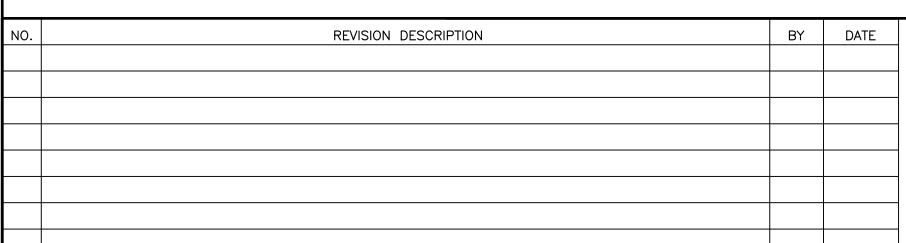












CURB RAMP

4/26/22

302.1

64TH AVE-65TH AVE DR-WINTER GARDENS DR WATER MAIN REPLACEMENT DETAILS



					Desig
	PROJECT #		404-	-6046070	JOHN S. SHOUN, P.E.
	SURVEY # SEC./TWN./RGE		WA-2		FLORIDAI HI
			24/35S/17E		JULICENSE VILLE
	SCALE			N.T.S	No. 60923
			BY	DATE	No. 60923
			VTECH	05/2020	STATE OF 08/41/2022
			S/BLR	06/2020	ZORIDA CITTO
	DRAWN	BLF	R/JSS	06/2020	Sign to WEL & Lake &
	CHECKED		JR	10/2020	SHEET"27 OF 28

