

GENERAL

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: ALBERT ROSENSTEIN, PE AND CAN BE REACHED AT 941.708.7450 x7219.
- 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 WILL BE BASED.
- 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.

SAFETY

- 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 1926.850, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
- STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
- STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
- SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
- ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
- 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 STACKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
- ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 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.
- FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

- ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 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.
- THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
- 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.
- 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.
- 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

- ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, MANHOLE COVERS, ETC. ALL SHALL BE ADJUSTED TO FINISHED GRADES.
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
- 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.
- 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.
- 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 WILL BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
- 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.

- ALL WATER SERVICES TO BE INSTALLED OR MODIFIED ON PRIVATE PROPERTY SHALL REQUIRE A PLUMBING PERMIT;
 - 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.
 - 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.
 - 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.
 - ALL BPA SHALL BE INSTALLED 4-5 FEET FROM THE EDGE OF DRIVEWAYS OR ANY OTHER ITEMS/FEATURES THE BPA MAY CREATE AN OBSTRUCTION TO ITS USE.
 - VACUUM BREAKERS SHALL BE INSTALLED ON ALL EXTERNAL HOSE BIBBS.
 - 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.

RESTORATION

- ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 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.
- 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.
- ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513 OF THE INFRASTRUCTURE ENGINEERING STANDARD SPECIFICATION.
- 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.
- 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.
- 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.
- RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST. RESTORATION EFFORTS SHALL BE INCLUDED IN THE PROJECT SCHEDULING AND PHASING PLAN TO DEMONSTRATE HOW THE RESTORATION WILL BE ACHIEVED.

CONSTRUCTION

- 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.
- NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
- THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
- 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.
- ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
- 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.
- 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.
- 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.
- 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.
- ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- 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.
- 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.
- 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.
- 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.
- 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.
- FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 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.
- THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS OF THE WORK AS CONSTRUCTED. AS-BUILT DRAWINGS SHALL INCLUDE THE LOCATION OF ABANDONED MAINS CUT AND PLUG POINTS. AS-BUILT DRAWINGS SHALL BE ANNOTATED EACH DAY AS THE WORK PROCEEDS AND SHALL BE AVAILABLE TO THE COUNTY PROJECT MANAGER AND/OR FIELD INSPECTOR FOR REVIEW ON AN ONGOING BASIS. AS-BUILT DRAWINGS SHALL PROVIDE THE HORIZONTAL AND VERTICAL INSTALLED LOCATION OF ALL NEW PIPELINE, FITTINGS, VALVES AND APPURTENANCES REFERENCED TO FIXED SURFACE FEATURES THAT ARE SHOWN ON THE CONSTRUCTION DRAWINGS AND/OR RIGHT-OF-WAY LINES, PROPERTY CORNERS OR OTHER SURVEYED POINTS. THE CONTRACTOR SHALL BE ABLE TO PRESENT THE RECORD DRAWINGS TO THE COUNTY PROJECT MANAGER AND/OR INSPECTOR ON DEMAND AS THE WORK PROGRESSES.

EXISTING UTILITY LOCATIONS

- THE FOLLOWING IDENTIFIES THE QUALITY LEVEL OF EXISTING UTILITY LINWORK 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 ACCOMODATION MANUAL (UAM)

MAINTENANCE OF TRAFFIC

- 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.
- 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.
- THE CONTRACTOR SHALL USE, BUT ARE NOT LIMITED TO, FDOT INDICES 415, 600, 615, 616, AND 621. THE RECOMMENDED FDOT DESIGN STANDARD INDICES ARE CONCEPTUAL.
- 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.
- MOTORIZED AND MECHANICAL EQUIPMENT SHALL BE EFFECTIVELY SHIELDED, PADDED, OR LOCATED TO MINIMIZE NOISE.
- 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.
- ACCESS TO ALL SIDE STREETS AND DRIVEWAYS MUST BE PROVIDED AND MAINTAINED DURING CONSTRUCTION.
- 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.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO WORKING NEAR THEIR EXISTING FACILITIES.
- CONSTRUCTION SEQUENCES SHALL BE COORDINATED TO PROVIDE POSITIVE DRAINAGE OF THE TRAVELWAYS AT ALL TIMES.
- ANY MOT ITEM NOT SPECIFICALLY LISTED UNDER A PARTICULAR PAY ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. THERE SHALL BE NO SEPARATE PAYMENT.
- THE MAXIMUM SPACING BETWEEN WARNING DEVICES USED FOR DELINEATION BETWEEN THE TRAVELWAY(S) AND CONSTRUCTION AREA SHALL BE AS PER FDOT STANDARD INDEX 600.
- 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.

LEGEND

EXISTING		ABBREVIATIONS	
CM	BENCH MARK CONCRETE MONUMENT IRON PIPE IRON ROD HUB NAIL & DISK PARCEL ID NO. PARCEL ID NO. LOT NO. GUY WIRE PP POWER POLE LIGHT POLE MAIL BOX SIGN REF REFLECTOR SPRINKLER GAS MARKER BACKFLOW PREVENTER BLOW OFF VALVE FH FIRE HYDRANT WV WATER VALVE ARV AIR RELEASE VALVE WM WATER METER SANITARY SEWER MANHOLE SANITARY SEWER CLEAN OUT SB#1 SOIL BORING LOCATION TEL TELEPHONE SERVICE BOX UTILITY BOX UTILITY RISER GI FLOW DIRECTION GRATE INLET MITERED END SECTION STORM SEWER MANHOLE	BUSH TREE OAK TREE PALM TREE PINE TREE EDGE OF VEGETATION ----- CHAIN LINK FENCE ----- WOOD FENCE ----- BARBED WIRE FENCE ----- FM ----- FORCE MAIN ----- PW ----- POTABLE WATER ----- RW ----- RECLAIMED WATER ----- SS ----- SANITARY SEWER ----- S ----- STORM DRAIN ----- GAS ----- GAS LINE ----- ODR ----- OVERHEAD CHARTER ----- CHR ----- UNDERGROUND CHARTER ----- OE ----- OVERHEAD ELECTRIC ----- BE ----- UNDERGROUND ELECTRIC ----- OH FTR ----- OVERHEAD FRONTIER ----- FTR ----- UNDERGROUND FRONTIER ----- PCC ----- UNDERGROUND PRECO ----- FPL ----- UNDERGROUND FPL ----- OH ----- OVERHEAD UTILITY +++++ RAIL ROAD TRACKS ----- EDGE OF CONCRETE ----- EDGE OF ROAD ----- TOE OF SLOPE ----- TOP OF BANK ----- PROPERTY LINE ----- RIGHT OF WAY	R/W RIGHT OF WAY CONC CONCRETE ASPH ASPHALT DRWY DRIVEWAY SWK SIDEWALK EP EDGE OF PAVEMENT BOC BACK OF CURB FA FLOW ARROW PROPOSED DOUBLE CHECK BPA REDUCED PRESSURE BPA REUSE EX. METER BOX NEW METER BOX

EMERGENCY CONTACTS

MANATEE COUNTY PUBLIC WORKS DEPT. 1022 26TH AVENUE EAST BRADENTON, FL 34208 JIM RENNEBERG, P.E. (941) 708-7450 EXT. 7220 FAX: (941) 708-7415	FRONTIER 1701 RINGLING BLVD. SARASOTA, FL 34236 JOHN PLOTT (941) 906-6707 FAX: (941) 906-6706 John.Plott@ftr.com	SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SARASOTA SERVICE OFFICE STEVE LOPES 6750 FRUITVILLE ROAD SARASOTA, FL 34240 (941) 377-3722 CHAD HARRELL PHONE: (813) 466-3327 E-mail: chad.harrell@sug.com	DEPARTMENT OF ENVIRONMENTAL PROTECTION 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 ED WATSON PHONE: (813) 470-5875 FAX: (813) 470-5993 CHARTER COMMUNICATION 5413 E. STATE ROAD 64 BRADENTON, FL 34208-5535 TOM WRIGHT (941) 748-3816 EXT. 21348 Tom.Wright@charter.com SUNSHINE STATE ONE CALL OF FLORIDA 1-800) 432-4770
TECO/PEOPLES GAS CO. 8261 VICO COURT SARASOTA, FL 34240 (941) 342-4030 DAN SHANAHAN FAX: (941) 342-4011 EMERGENCY: 1-877-832-6911	FLORIDA POWER & LIGHT 1253 12TH AVENUE EAST PALMETTO, FL 34221 GREG COKER (941) 723-4430 FAX: (941) 723-4444 EMERGENCY: 1-800-4-OUTAGE Greg.Coker@fpl.com	FLORIDA GAS TRANSMISSION 7804 ANDERSON RD. TAMPA FL 33634 CHAD HARRELL PHONE: (813) 466-3327 E-mail: chad.harrell@sgug.com	PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL 33873 KENDALL COKER (863) 767-4660 kendall.coker@preco.coop
ATMS 2101 47TH TERRACE EAST BRADENTON, FL 34203 VISHAL KAKKAD, P.E. (941) 749-3500 EXT. 7812 FAX: (941) 749-3571 vishal.kakkad@mymnanatee.org.	MANATEE COUNTY HEALTH DEPT. 410 6TH AVENUE EAST BRADENTON, FL 34208 KENDALL COKER (863) 767-4660 FAX: (941) 749-9364		

NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT NOTES & LEGEND



PROJECT #	404-6030272	J. SHEA SHOUN, P.E.	
SURVEY #	WA:3	FLORIDA PROFESSIONAL ENGINEER LICENSE No. 60923	
SEC./TWN./RGE	11/35S/17E	STATE OF FLORIDA PROFESSIONAL ENGINEER No. 60923 03/27/2023	
SCALE	N.T.S.	DATE	
SURVEYED	SUR/TECH	BY	DATE
DESIGNED	JSS/BLR	05/2020	06/2020
DRAWN	BLR/JSS	06/2020	
CHECKED	-	-	
SHEET 02 OF 41			

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- NOTES:**
1. THIS IS A GRAPHICAL/SCHEMATIC REPRESENTATION OF EXISTING AND PROPOSED UTILITIES.
 2. THE LOCATION AND DATA FOR ALL ITEMS SHOULD BE CONSIDERED APPROXIMATE.
 3. FOR PROPOSED WATER MAIN REFER TO THE CONSTRUCTION DRAWINGS.
 4. FOR CURRENT EXISTING UTILITY SYSTEM INFORMATION, REFER TO THE COUNTY PUBLIC GIS WEBSITE:
<https://www.mymanatee.org/gisapps/mobile/index.html?type=utilities-public>
 5. GROUT FILL AND ABANDON IN PLACE 3", 4"& 6" WM INDICATED ON THIS PAGE.
 6. FOR WATER MAINS TO BE ABANDONED, REMOVE ALL VALVES AND VALVE BOXES.
 7. BAC-T TESTING LABS RESULTS SHALL CORRELATE WITH THE NUMBERING PROVIDED ON THIS SHEET. IF CERTIFIED IN PHASES, SAMPLE POINT LOCATIONS WILL BE REQUIRED TO BE ADJUSTED TO ACCOMMODATE CERTIFICATION PHASING PLAN.

GROUT FILL AND VALVE REMOVAL

DIAMETER OF PIPE	LINEAL FEET OF PIPE	CUBIC YARDS OF GROUT	VALVES TO BE REMOVED
3"	8455	15	
4"	2244	7	
6"	3887	28	
TOTAL	14761	51	20

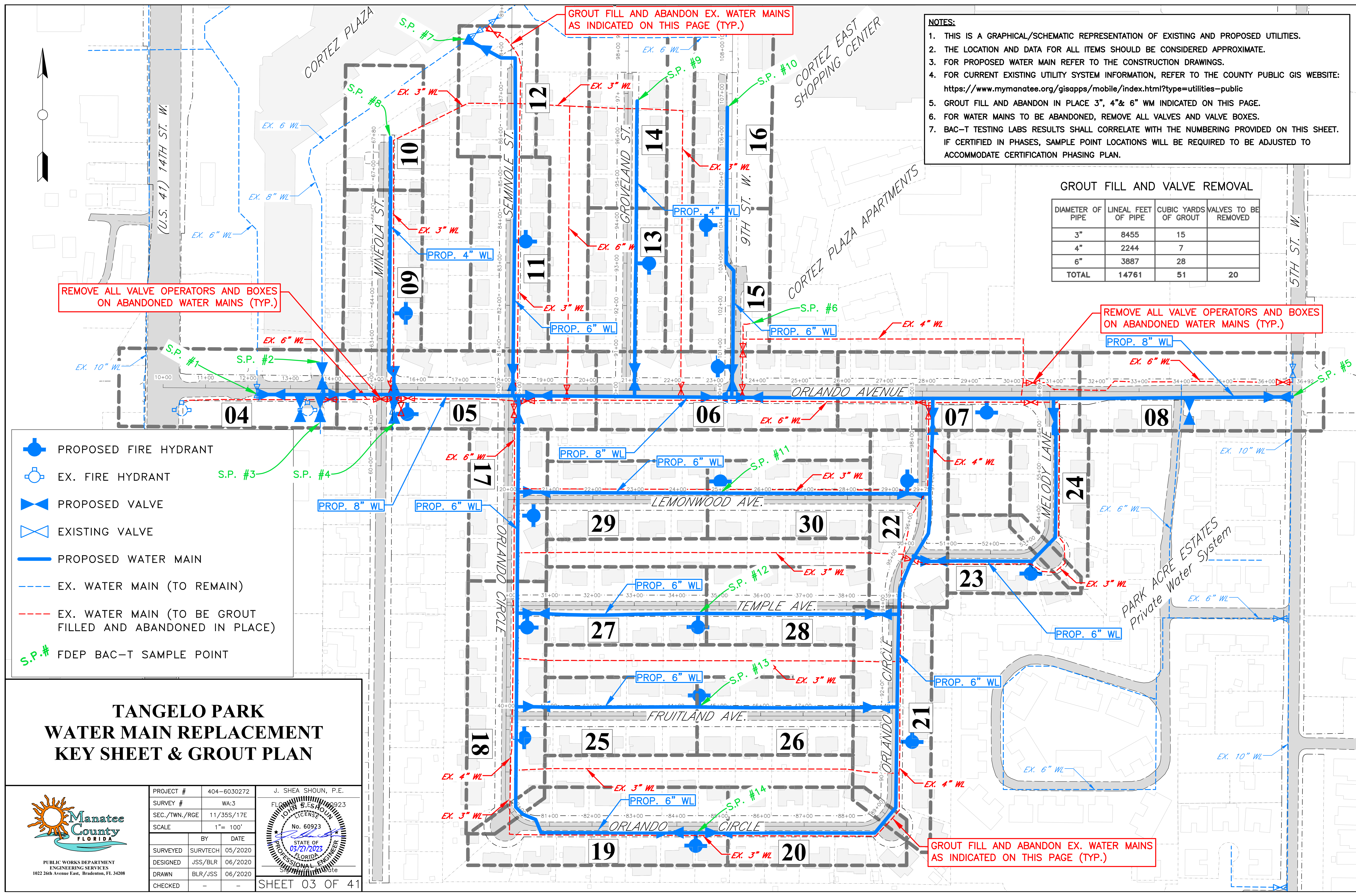
- PROPOSED FIRE HYDRANT
- EX. FIRE HYDRANT
- PROPOSED VALVE
- EXISTING VALVE
- PROPOSED WATER MAIN
- EX. WATER MAIN (TO REMAIN)
- EX. WATER MAIN (TO BE GROUT FILLED AND ABANDONED IN PLACE)
- FDEP BAC-T SAMPLE POINT

TANGELO PARK WATER MAIN REPLACEMENT KEY SHEET & GROUT PLAN

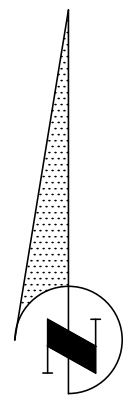
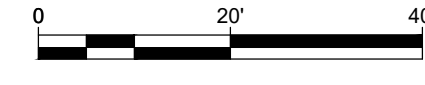


PROJECT #	404-6030272	J. SHEA SHOUN, P.E.
SURVEY #	WA:3	FLORENCE S. SHOUN, P.E.
SEC./TWN./RGE	11/35S/17E	FLORIDA LICENSE No. 60923
SCALE	1" = 100'	STATE OF FLORIDA PROFESSIONAL ENGINEER
BY	DATE	03/21/2023
SURVEYED	SURVTECH	05/2020
DESIGNED	JSS/BLR	06/2020
DRAWN	BLR/JSS	06/2020
CHECKED	-	-

SHEET 03 OF 41

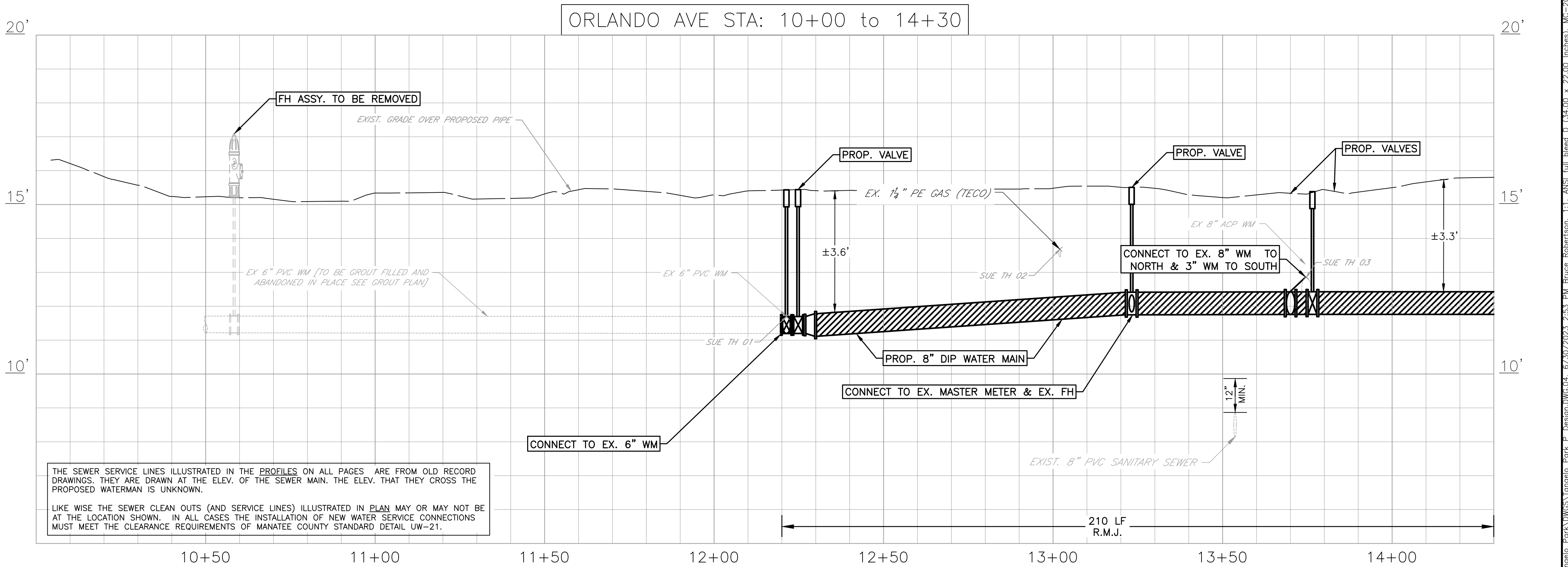
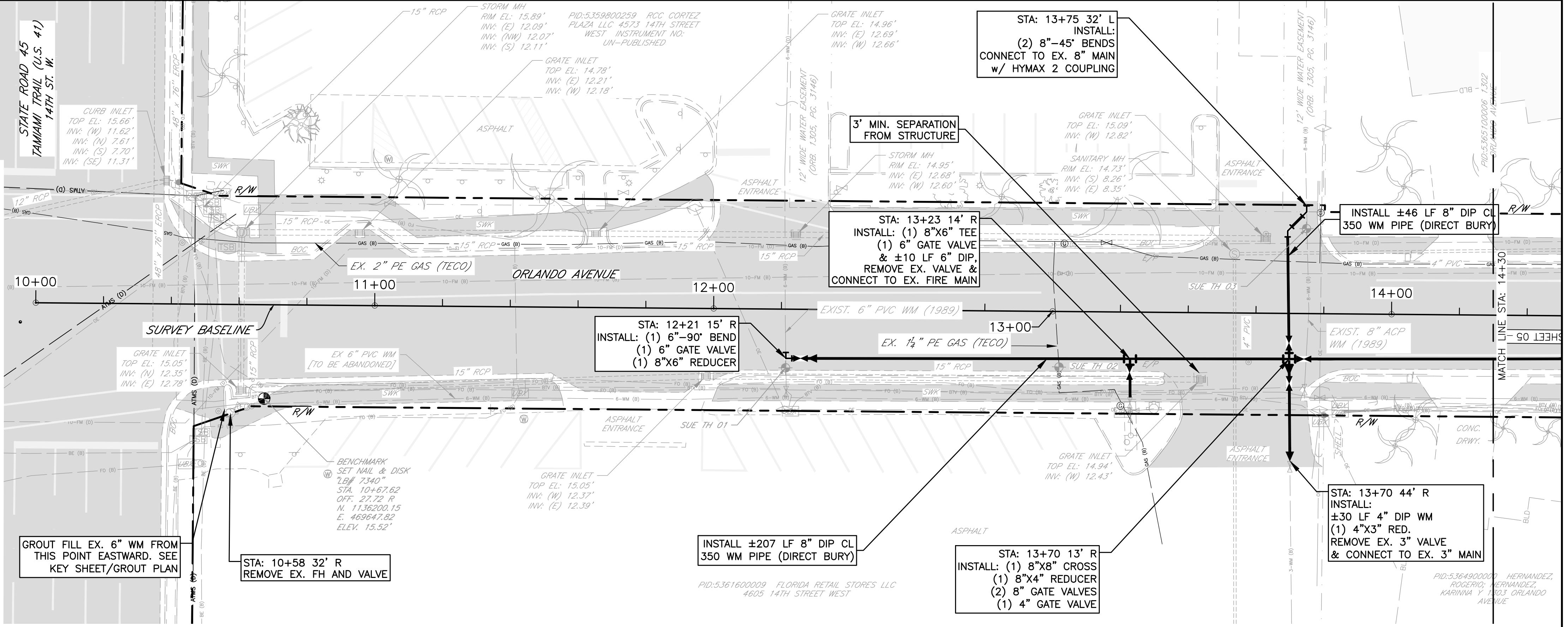


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CONSTRUCTION NOTES (APPLICABLE TO ALL PLAN AND PROFILE SHEETS):

- 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.
- ALL METER BOXES PROPOSED AND/OR RELOCATED SHALL BE INSTALLED PER UW-21, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE ALL WATER SERVICE LINE INSTALLATIONS WITH THE UTILITY DEPARTMENT (JAMES LEE @ 941-792-8811 x5055) PRIOR TO INSTALLATION. THE CONTRACTOR SHALL INSTALL 3/4-INCH REDUCED PRESSURE (RPZ) OR DOUBLE CHECK (DC) BACKFLOW PREVENTION ASSEMBLIES (BPA'S) WITH VACUUM BREAKERS ON ALL EXTERIOR HOSE BIBBS, UNLESS OTHERWISE NOTED. A FEW LOTS WILL RECEIVE 1-INCH RPZ OR DC BPA.
- 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.
- WATER SERVICE TAPS SHALL NOT BE LOCATED UNDER DRIVEWAYS.
- INSTALLATION OF THE PROPOSED PIPE SHALL BE AS SHOWN IN THE PLAN AND PROFILE VIEWS. THE DEPTH OF BURY OR TOP OF PIPE ELEVATION ARE TO BE AS INDICATED BY THE ELEVATION GRID, UNLESS OTHERWISE STATED ON THE PLANS BY ELEVATION CALLOUTS OR SPOT GRADES. IT IS EXPECTED THE INSTALLATION OF THE PIPE OR APPURTENANCES SHALL MATCH THE ELEVATIONS SHOWN IN THE CONSTRUCTION PLANS.
- 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.
- 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.
- CONTRACTOR SHALL USE A TAPE MEASURE AND PROVIDE PHOTOGRAPHIC EVIDENCE THAT ALL MINIMUM REQUIRED VERTICAL DISTANCES HAVE BEEN PROVIDED. THESE PHOTOS SHALL BECOME PART OF THE PROJECT FILE. PHOTOS SHALL BE LABELED WITH THE BASELINE STATION NUMBERING AND UPLOADED TO eBUILDER WITHIN 1 TO 2 DAYS OF THE CROSSING INSTALLATIONS. THIS REQUIREMENTS SHALL APPLY TO ALL CROSSINGS.
- 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.
- CONTRACTOR SHALL NOT USE LEVERAGE OR MECHANICAL MEANS TO ALIGN THE PIPE AND/OR FITTINGS FOR ATTACHMENT. THE PIPE SHALL NOT BE "SPRING-LOADED".
- ALL DISTURBED EX. DRAINAGE DITCHES/SWALES SHALL BE RE-GRADED TO ORIGINAL CONDITION TO PROVIDE POSITIVE DRAINAGE.
- 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.
- THERE SHALL BE 3-FOOT MINIMUM HORIZONTAL SEPARATION BETWEEN THE PROPOSED WATER MAIN AND EXISTING/PROPOSED STRUCTURES.
- 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.
- GAS MAINS ARE LOCATED WITH THE PROJECT AREA. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING AROUND GAS MAINS. NO MACHINE EXCAVATIONS IS ALLOWED WITHIN 5 FT OF ANY GAS TRANSMISSION PIPELINE. RECOMMEND HAND DIGGING ONLY WITHIN VICINITY.
- SHOULD DEWATERING BE REQUIRED, THE COUNTY'S CONTRACTOR SHOULD PLAN TO ADDRESS ELEVATED ARSENIC CONCENTRATIONS PRIOR TO DISCHARGE UNDER AN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. REFER TO THE ENVIRONMENTAL ASSESSMENT REPORT FOR MORE INFORMATION



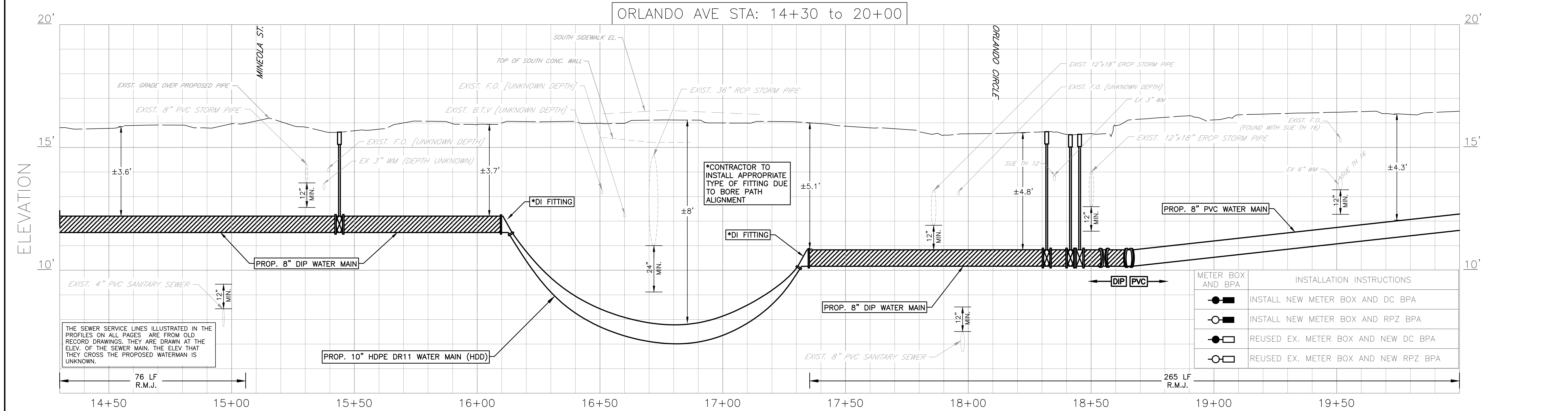
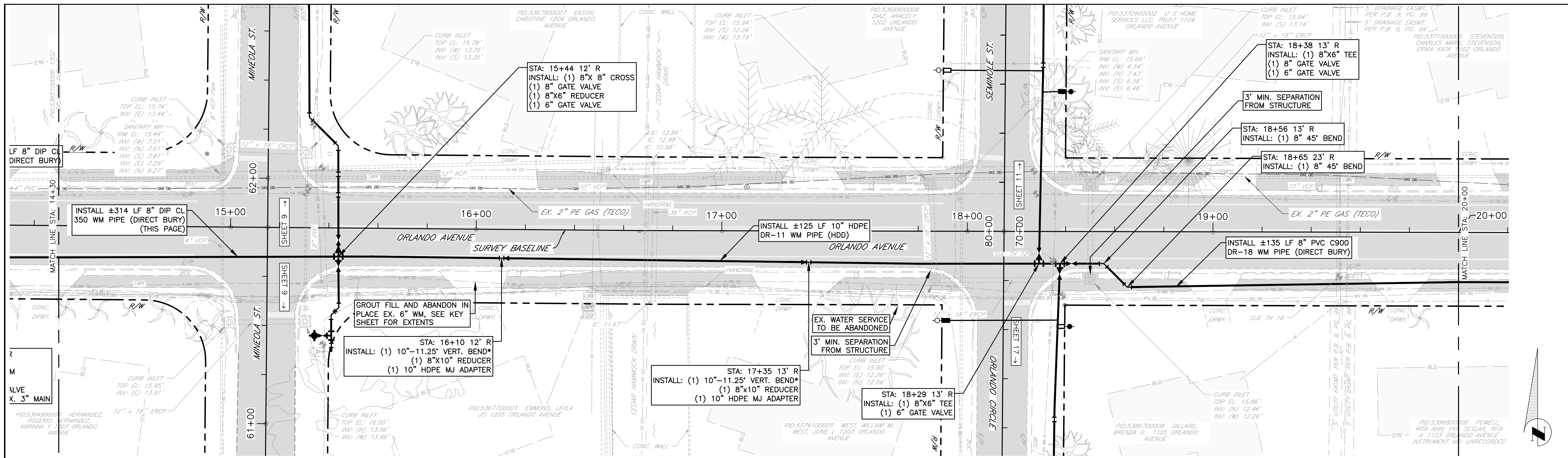
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1	ADDED NOTE # 19	JSS	06/30/23

TANGELO PARK WATER MAIN REPLACEMENT ORLANDO AVE STA 10+00 TO 14+30



PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SUR/TECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
FLORIDA LICENSE NO. 60923
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SHEA SHOUN ENGINEERING, LLC
1022 26th Avenue East, Bradenton, FL 34208



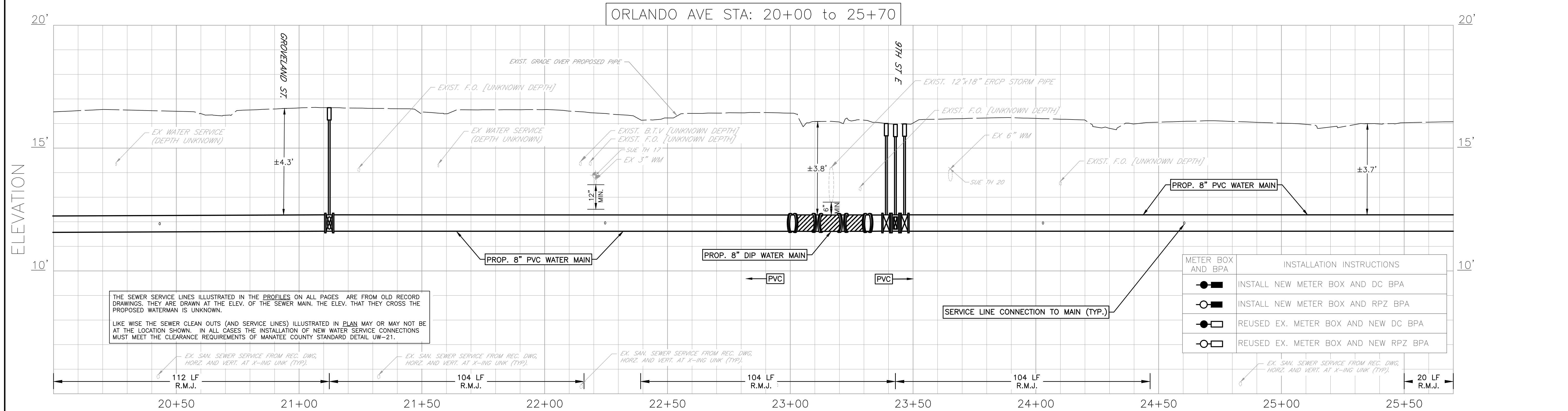
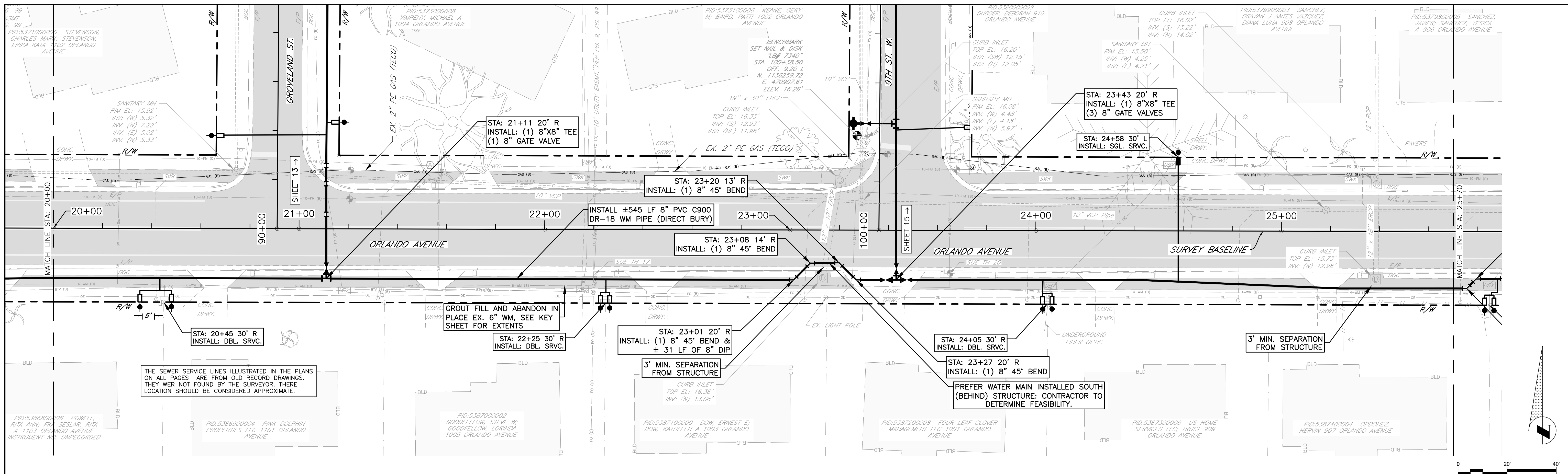
NO.	REVISION DESCRIPTION	BY	DATE

**TANGELO PARK
WATER MAIN REPLACEMENT
ORLANDO AVE STA 14+30 TO 20+000**



PROJECT #	404-6030272
SURVEY #	WA:3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
 LICENSE NO. 60923
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 03/21/2023
 SHEET 05 OF 41



NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT ORLANDO AVE STA 20+00 TO 25+70

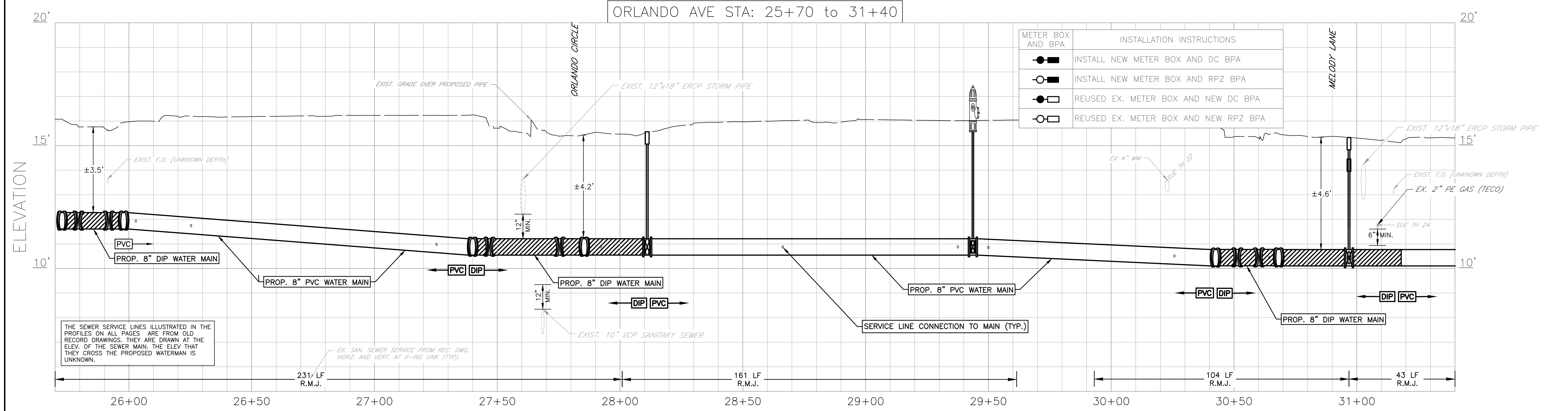
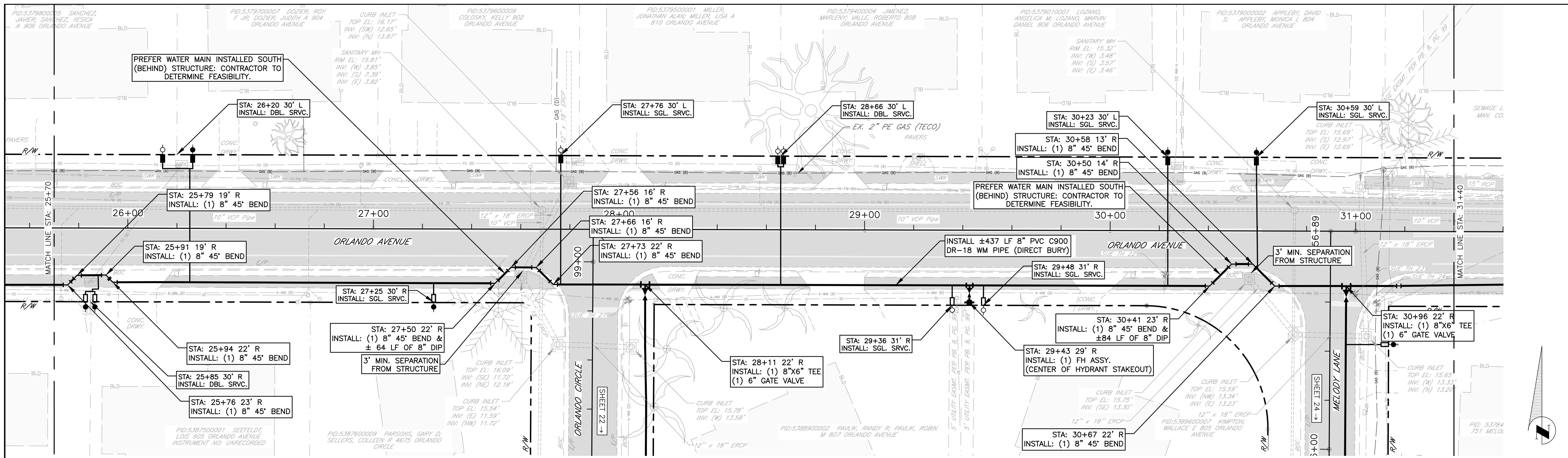


PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
FLORIDA PROFESSIONAL ENGINEER
No. 60923
03/21/2023

SHEET 06 OF 41

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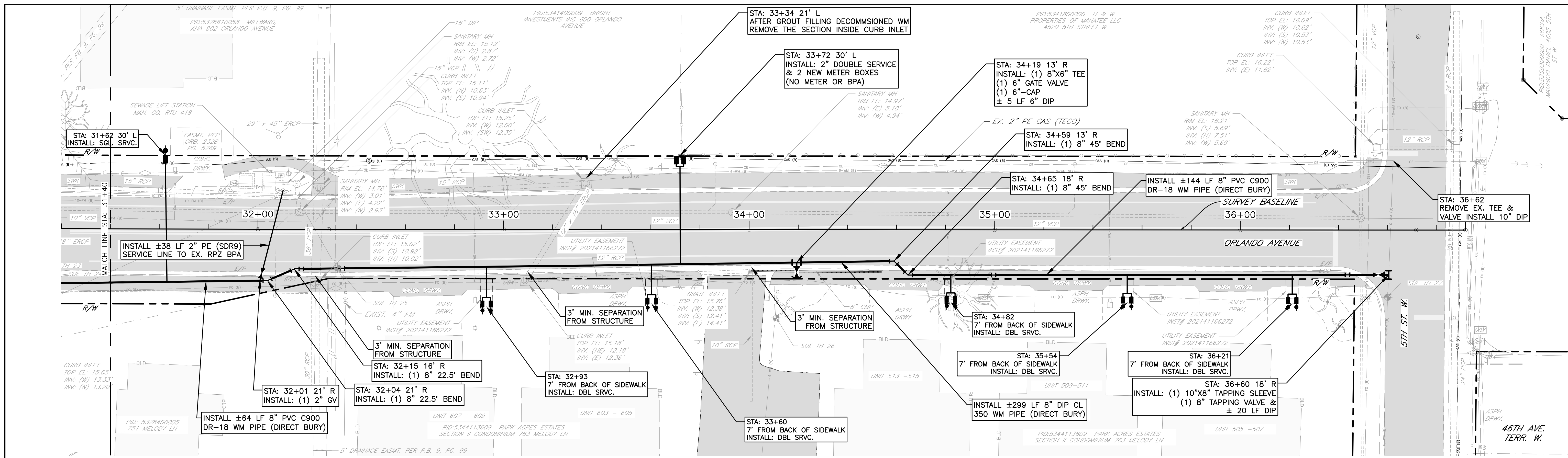
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT ORLANDO AVE STA 25+70 TO 31+40

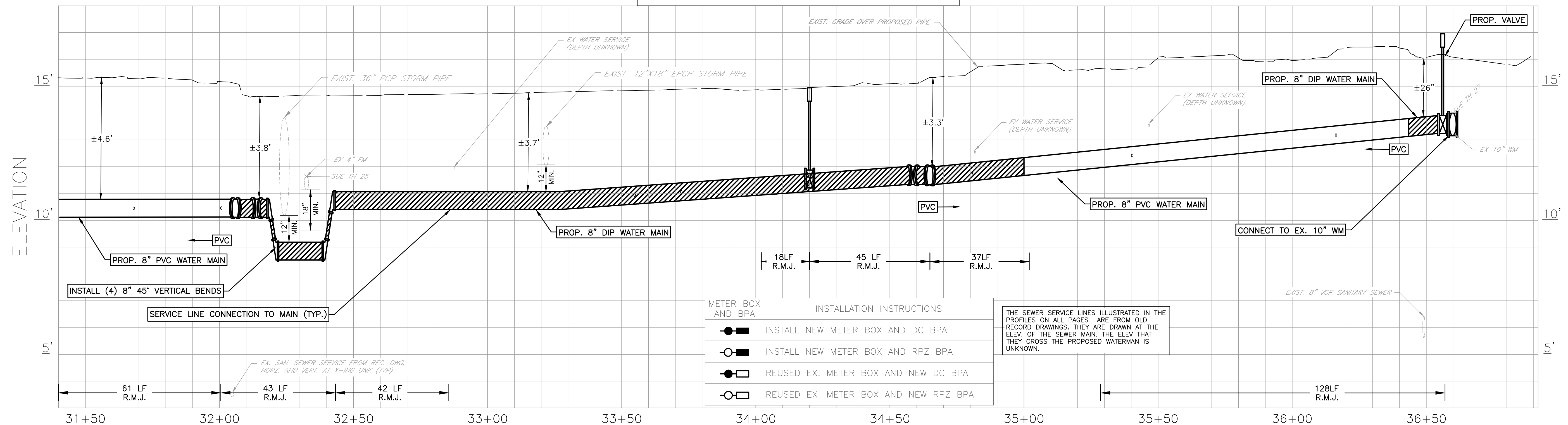


PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
 LICENSE NO. 60923
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 03/21/2023
 Date



ORLANDO AVE STA: 31+40 TO 36+92



METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

THE SEWER SERVICE LINES ILLUSTRATED IN THE PROFILES ON ALL PAGES ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.

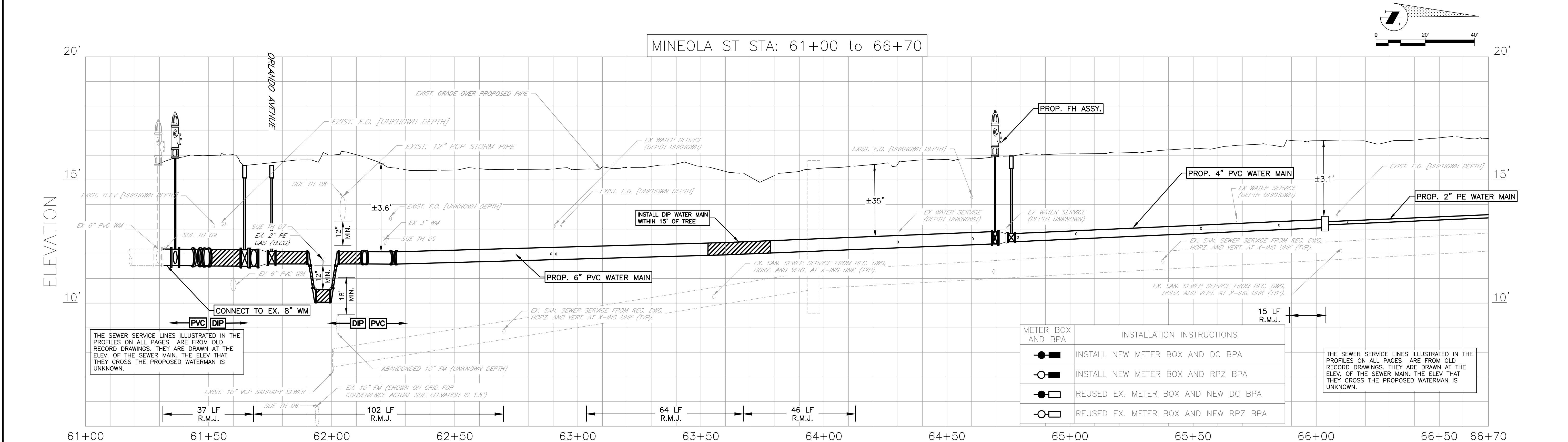
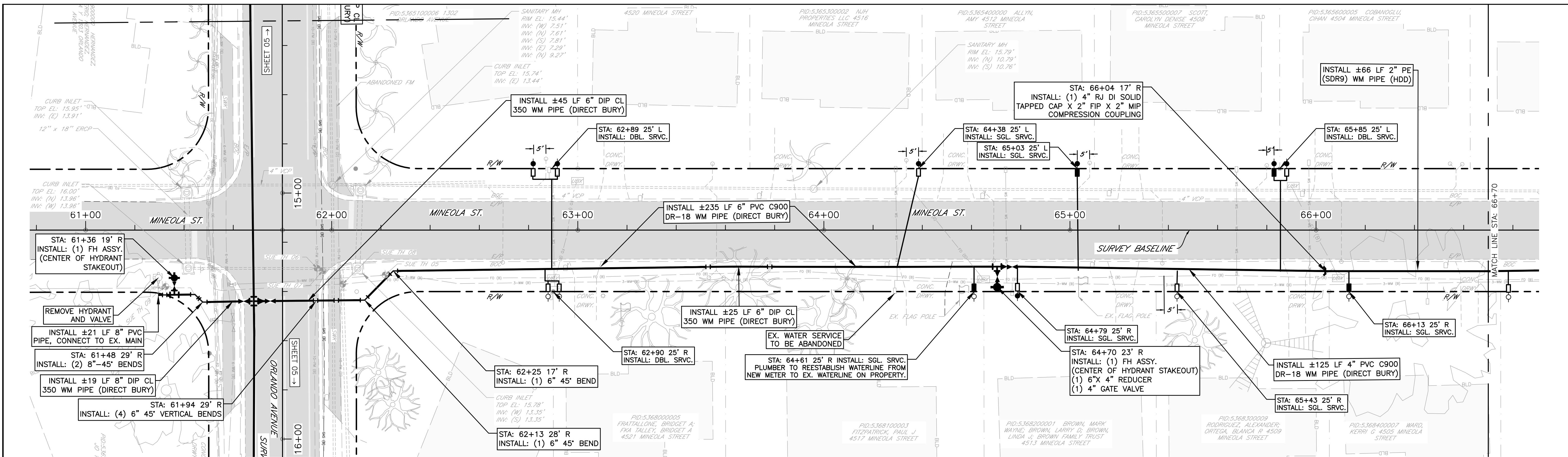
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT ORLANDO AVE STA 31+40 TO 36+92



PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
 LICENSE NO. 60923
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 03/21/2023
 SHEET 08 OF 41

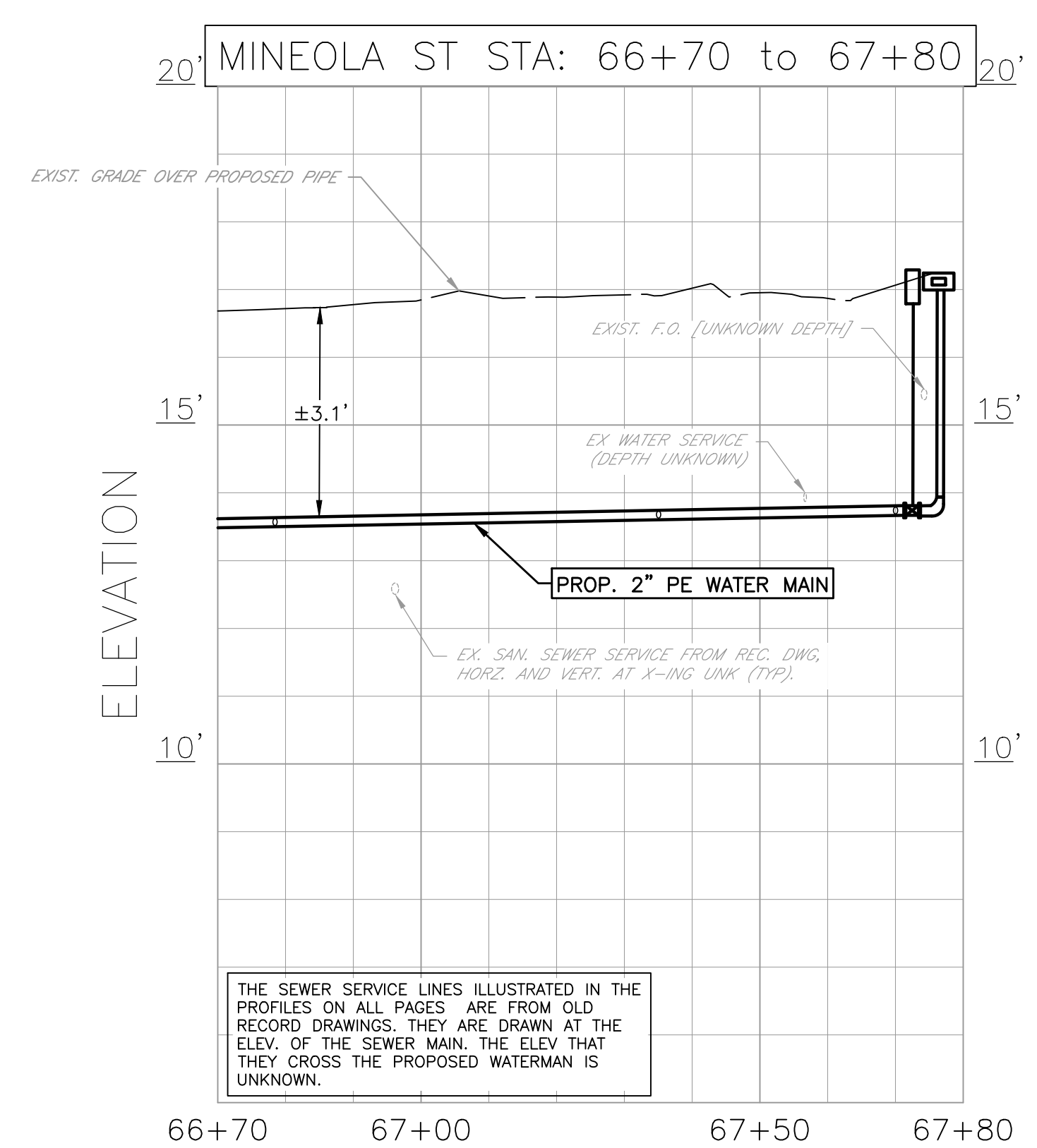
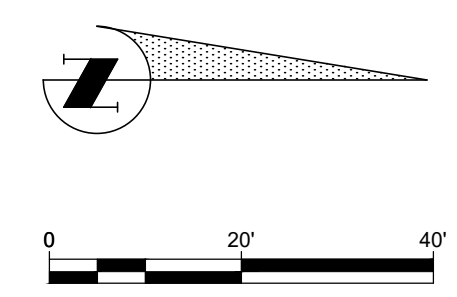
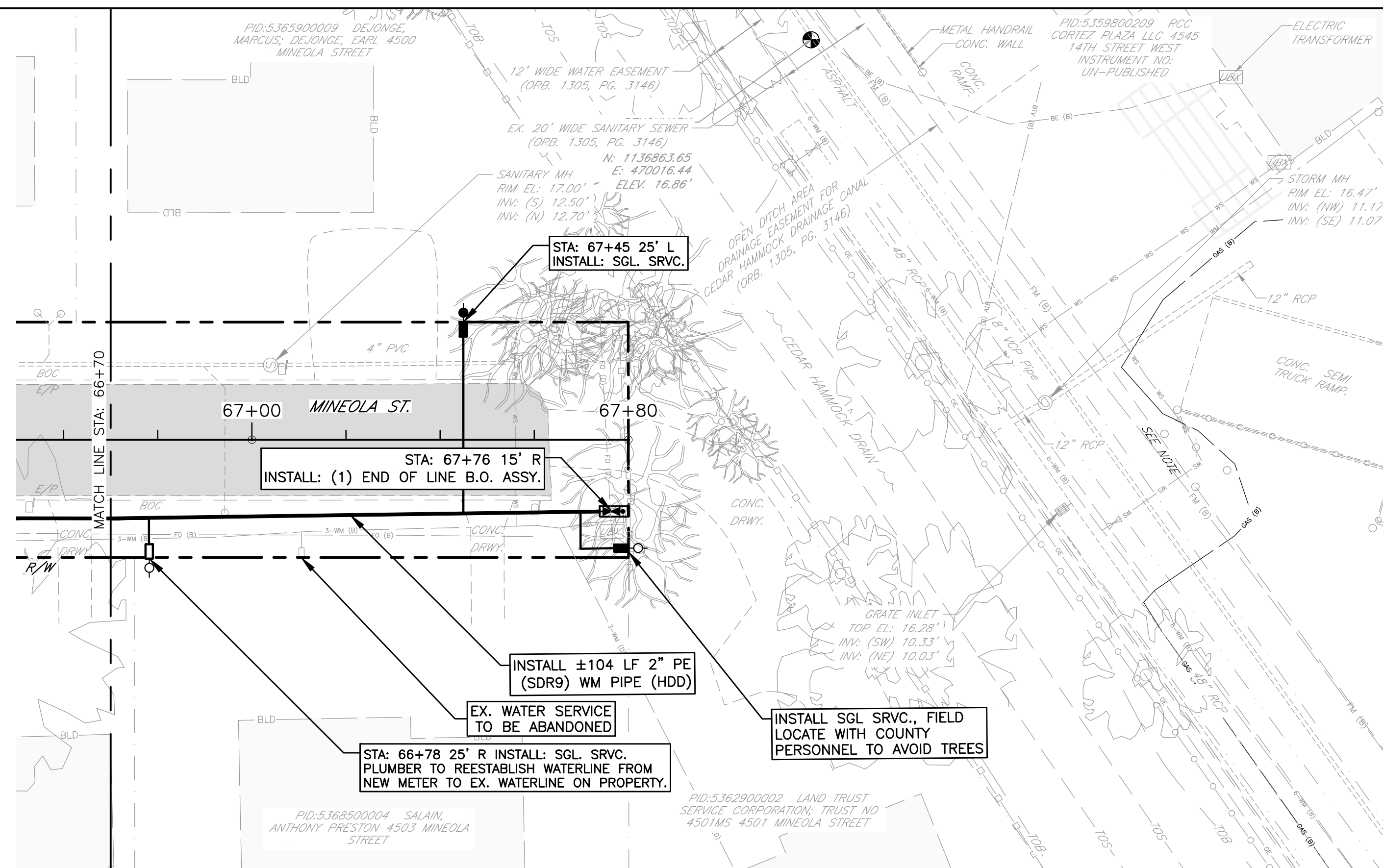


NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT MINEOLA ST STA 61+00 TO 66+70



PROJECT #	404-6030272	J. SHEA SHOUN, P.E.
SURVEY #	WA-3	FL 06923
SEC./TWN./RGE	11/35S/17E	No. 60923
SCALE	SEE PLAN	03/21/2023
SURVEYED	SURVTECH 05/2020	DATE
DESIGNED	JSS/BLR 06/2020	DATE
DRAWN	BLR/JSS 06/2020	DATE
CHECKED	-	-



METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

THE SEWER SERVICE LINES ILLUSTRATED IN THE PROFILES ON ALL PAGES ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.

NO.	REVISION DESCRIPTION	BY	DATE

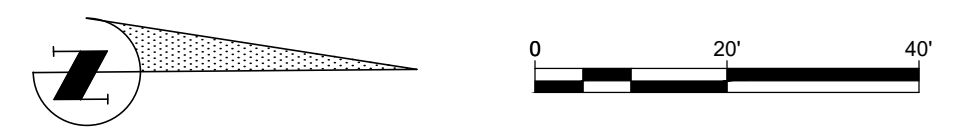
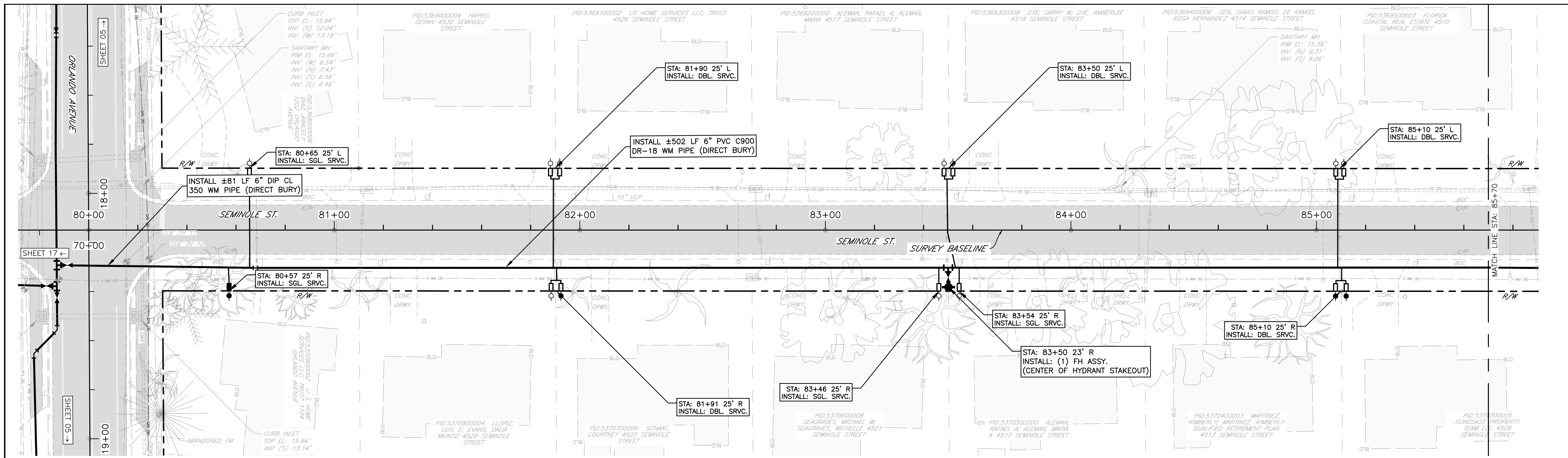
TANGELO PARK WATER MAIN REPLACEMENT MINEOLA ST STA 66+70 TO 67+80



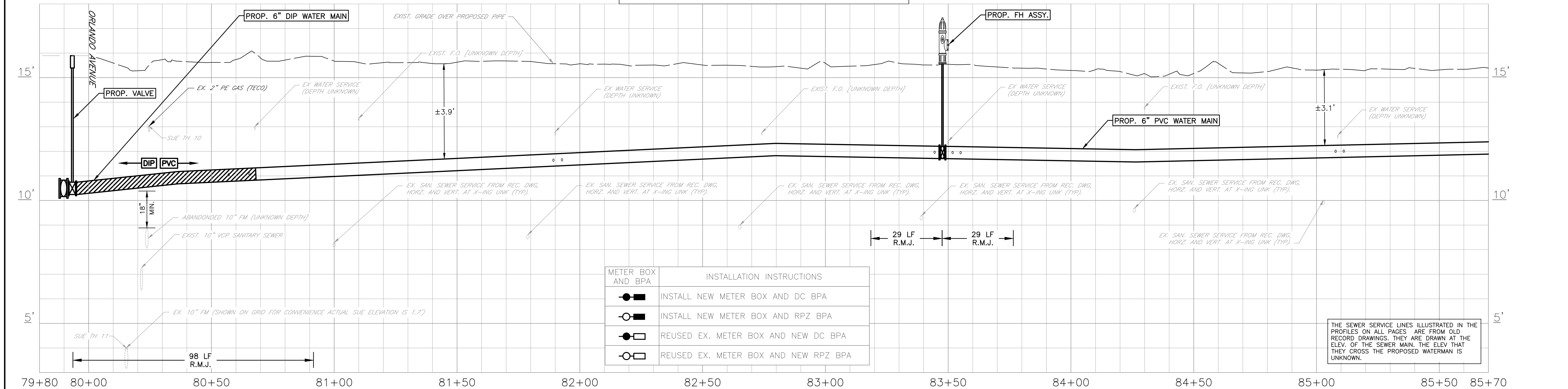
PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
No. 60923
03/27/2023
PROFESSIONAL ENGINEER

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SEMINOLE ST STA: 79+80 to 85+70



METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

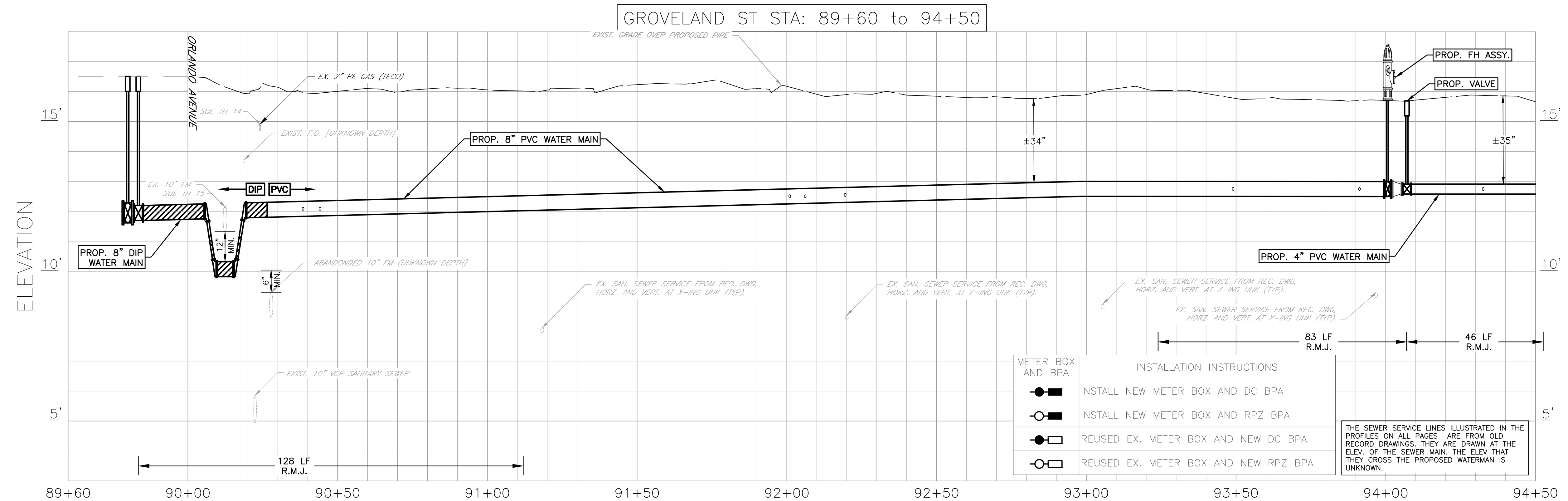
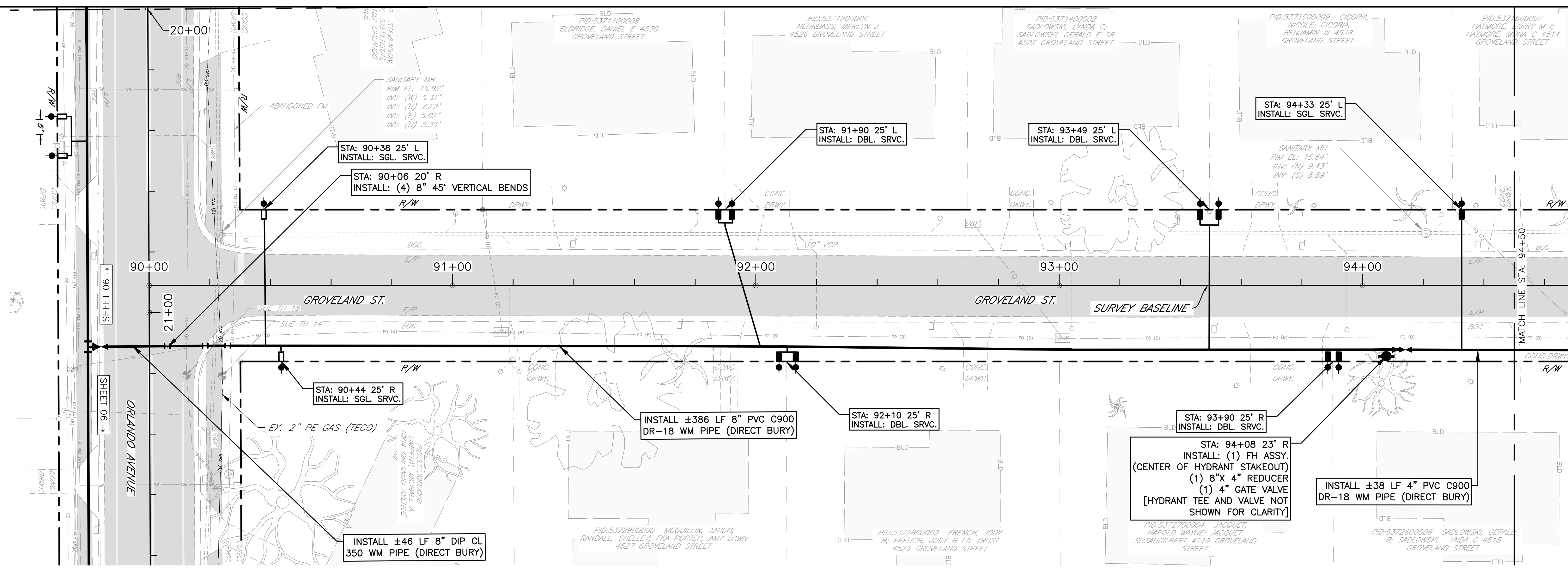
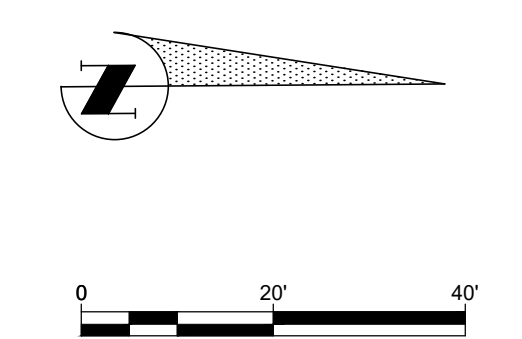
THE SEWER SERVICE LINES ILLUSTRATED IN THE PROFILES ON ALL PAGES ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.

NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT SEMINOLE ST STA 80+00 TO 85+70



PROJECT #	404-6030272	J. SHEA SHOUN, P.E.
SURVEY #	WA-3	FLORIDA PROFESSIONAL ENGINEER LICENSE No. 60923
SEC./TWN./RGE	11/35S/17E	03/21/2023
SCALE	SEE PLAN	
SURVEYED	SURVTECH 05/2020	
DESIGNED	JSS/BLR 06/2020	
DRAWN	BLR/JSS 06/2020	
CHECKED	-	



METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

THE SEWER SERVICE LINES ILLUSTRATED IN THE PROFILES ON ALL PAGES ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.

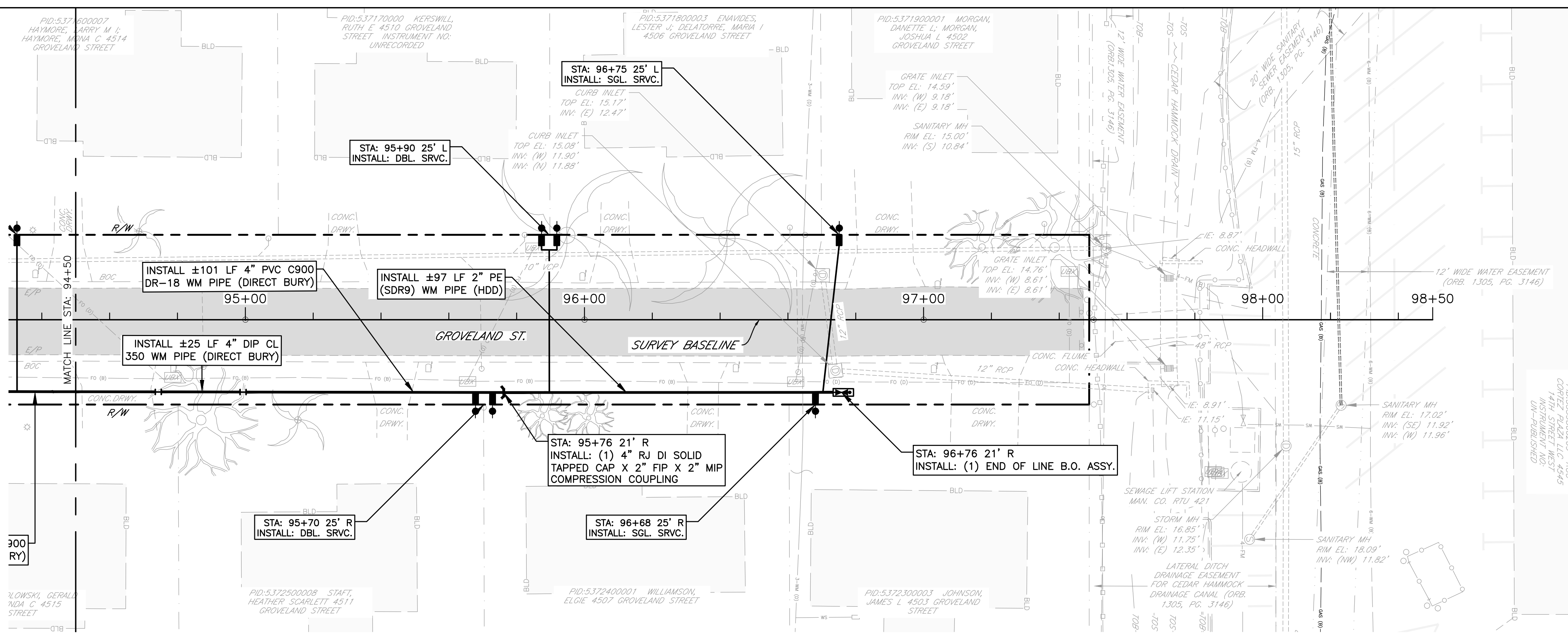
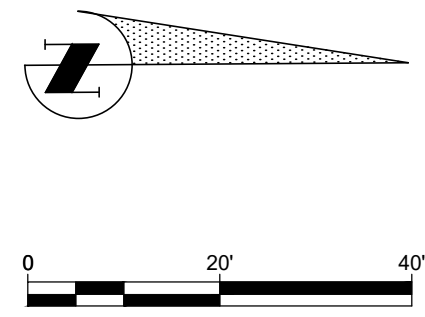
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT GROVELAND ST STA 90+00 TO 94+50



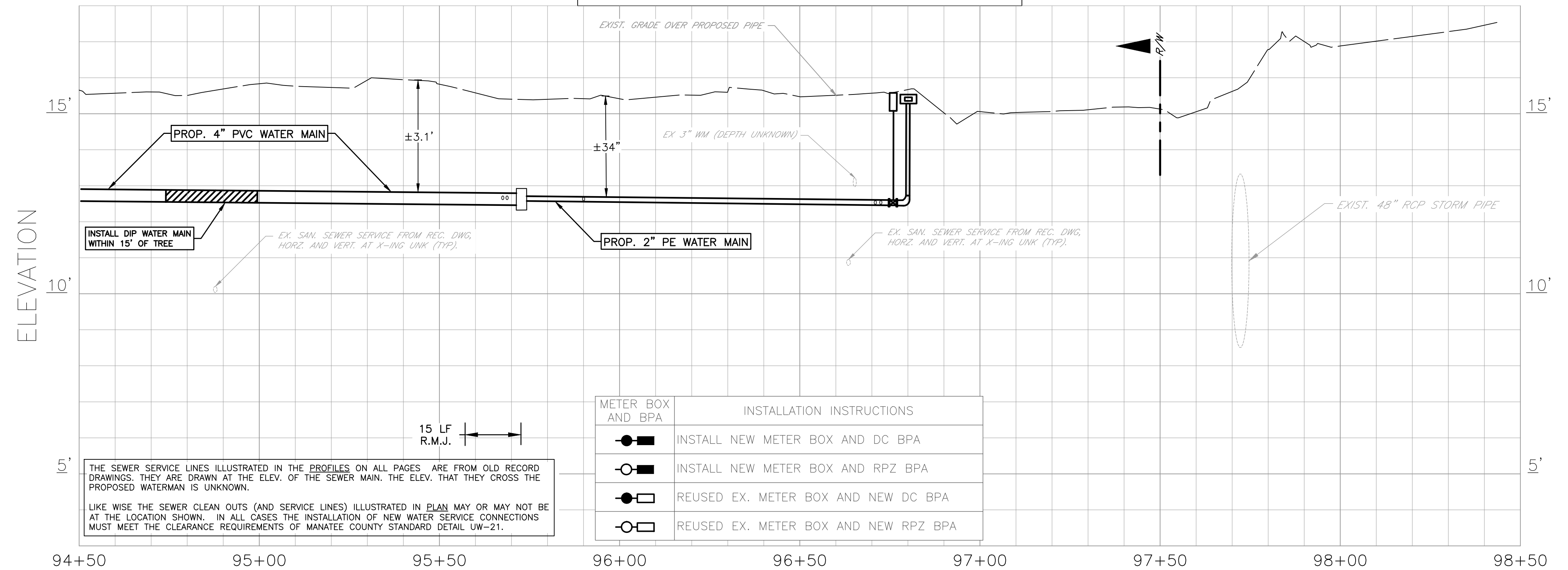
PROJECT #	404-6030272
SURVEY #	WA:3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
FLORIDA PROFESSIONAL ENGINEER
No. 60923
03/21/2023



PROJECT # 404-6030272
 SURVEY # WA-3
 SEC./TWN./RGE 11/35S/17E
 SCALE SEE PLAN
 SURVEYED SURVTECH 05/2020
 DESIGNED JSS/BLR 06/2020
 DRAWN BLR/JSS 06/2020
 CHECKED - -

GROVELAND ST STA: 94+50 to 98+50



THE SEWER SERVICE LINES ILLUSTRATED IN THE PROFILES ON ALL PAGES ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.
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METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

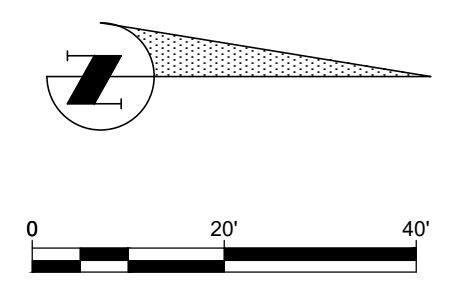
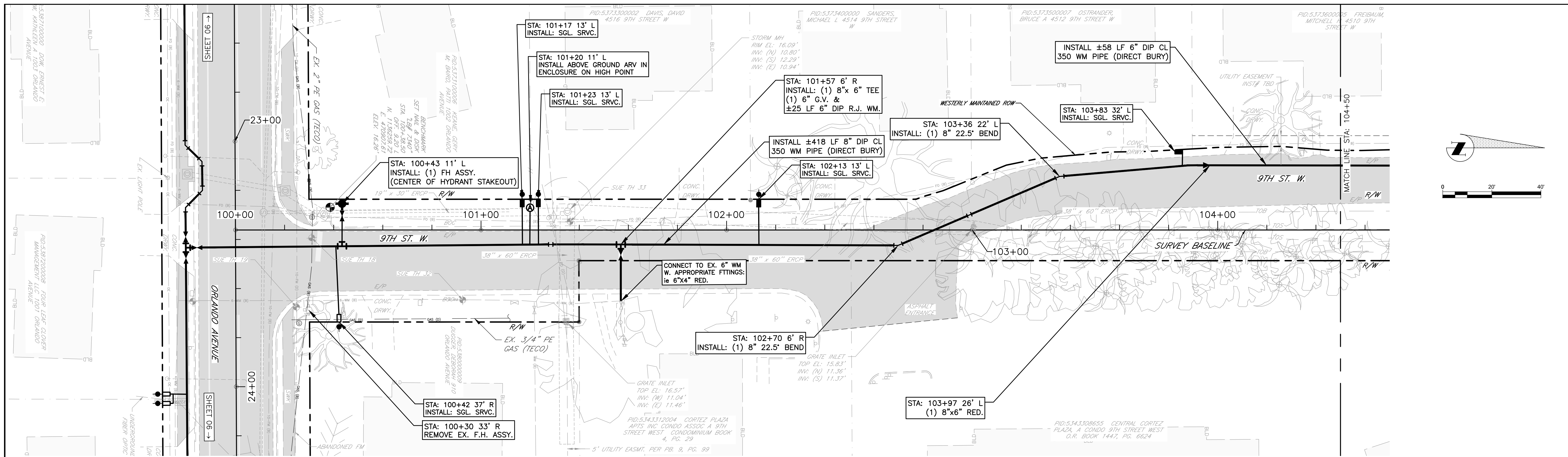
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT GROVELAND ST STA 94+50 TO 97+50

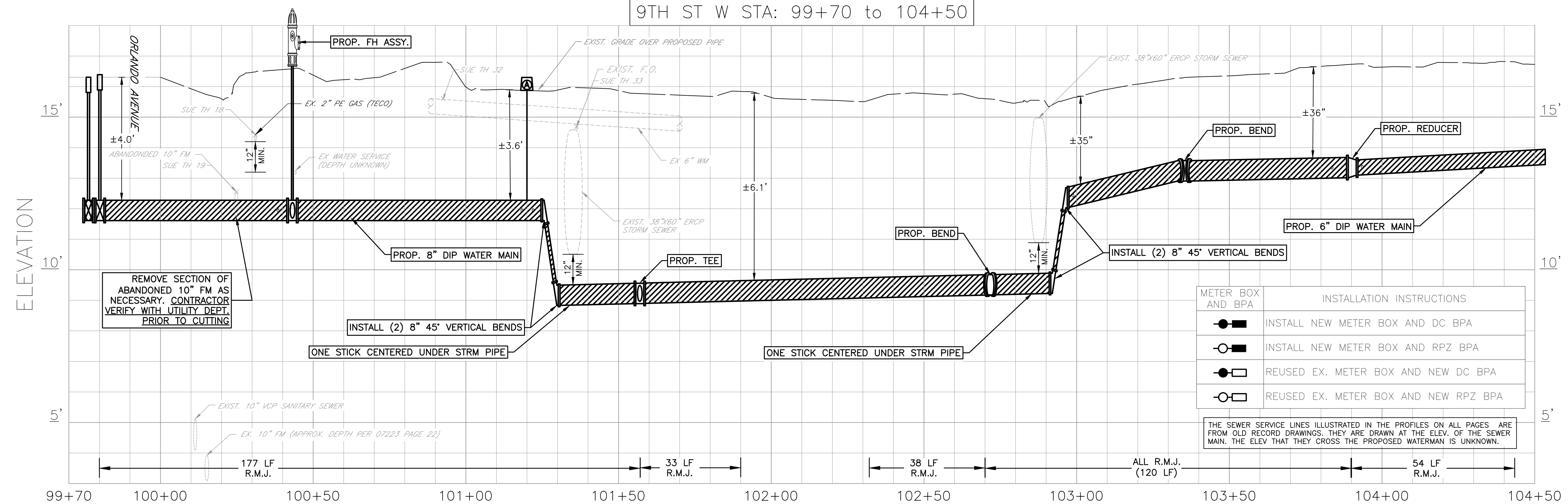


PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	- -

J. SHEA SHOUN, P.E.
 LICENSE NO. 60923
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 03/21/2023
 Date



9TH ST W STA: 99+70 TO 104+50



METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

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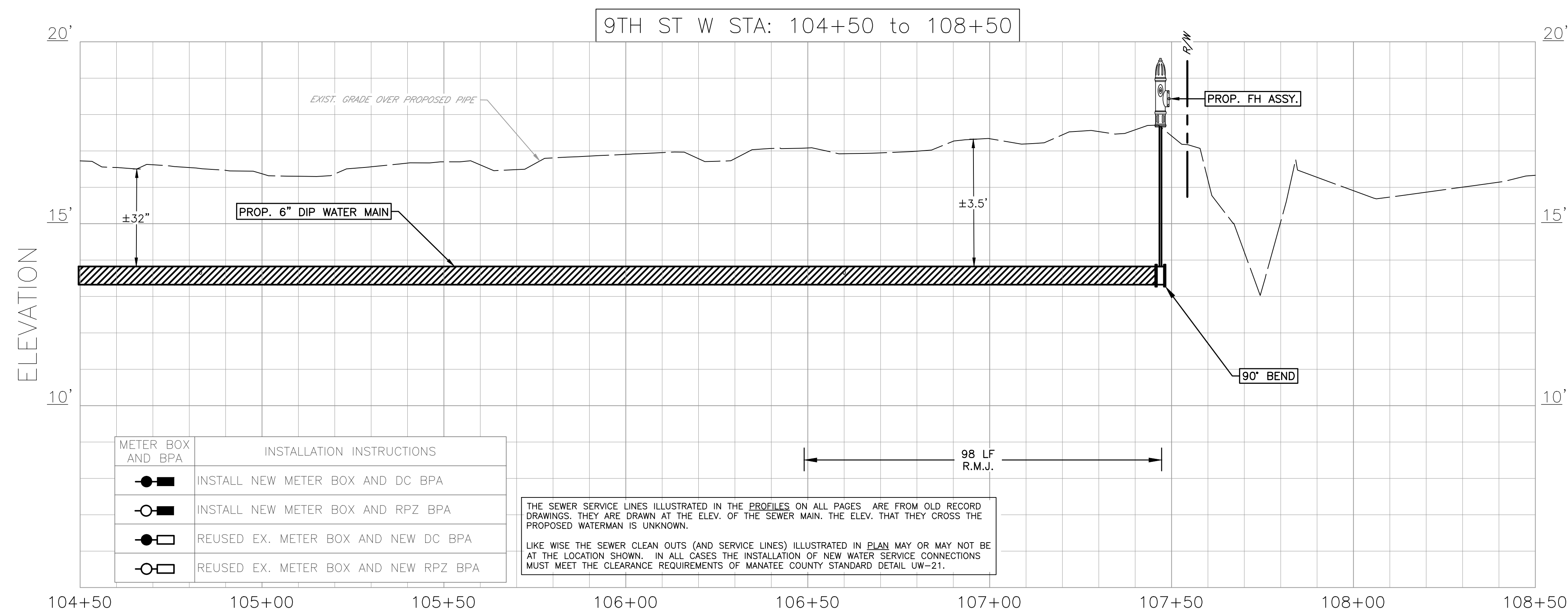
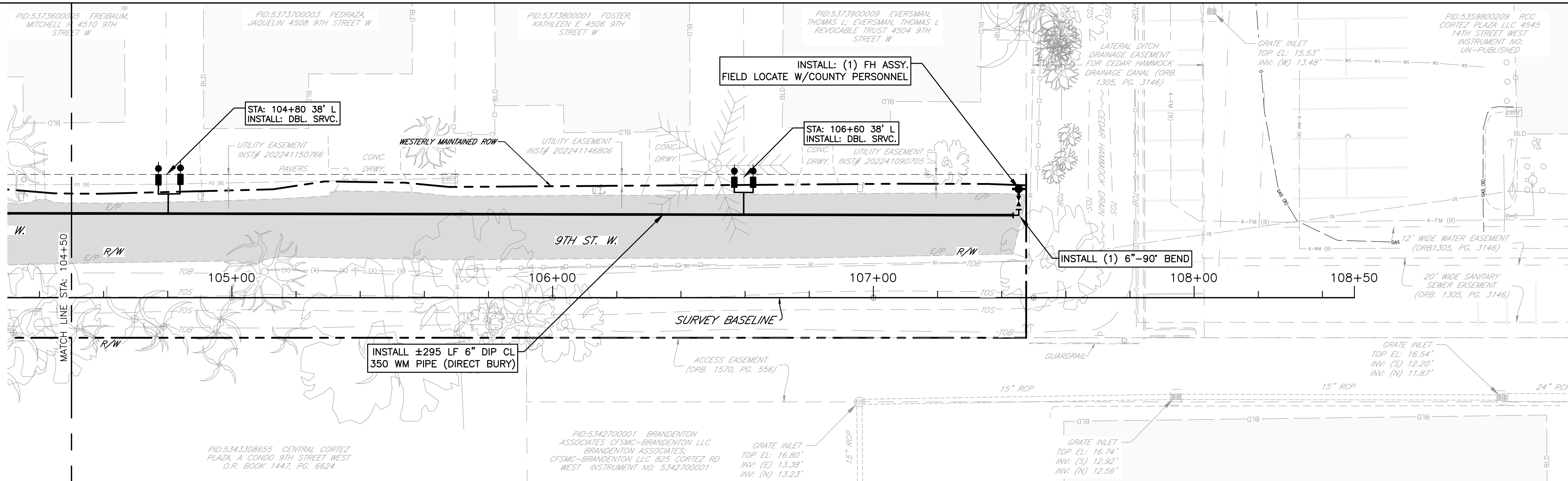
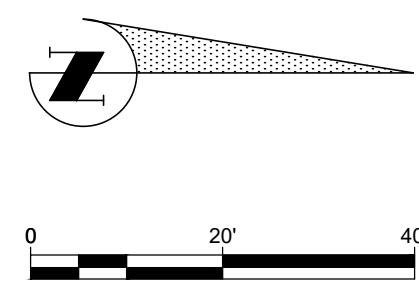
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT 9TH ST W STA 100+00 TO 104+50



PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
FLORIDA PROFESSIONAL ENGINEER
No. 60923
03/21/2023



METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

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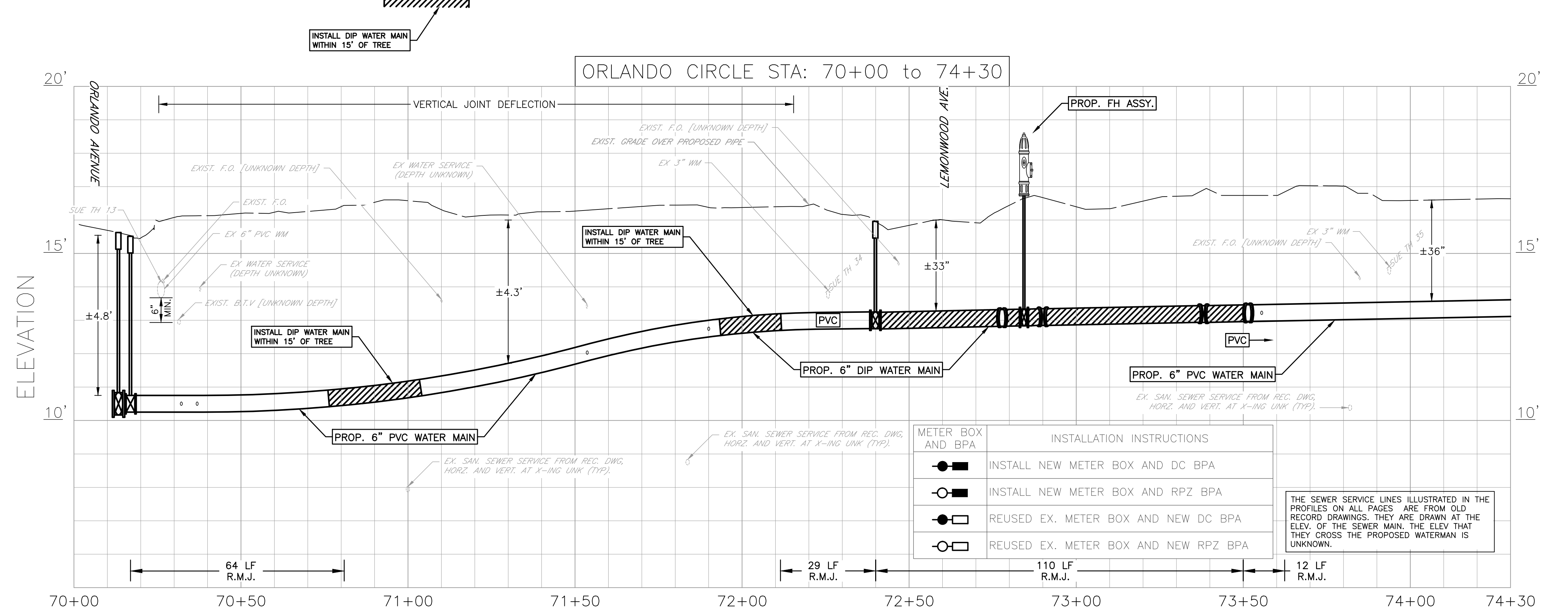
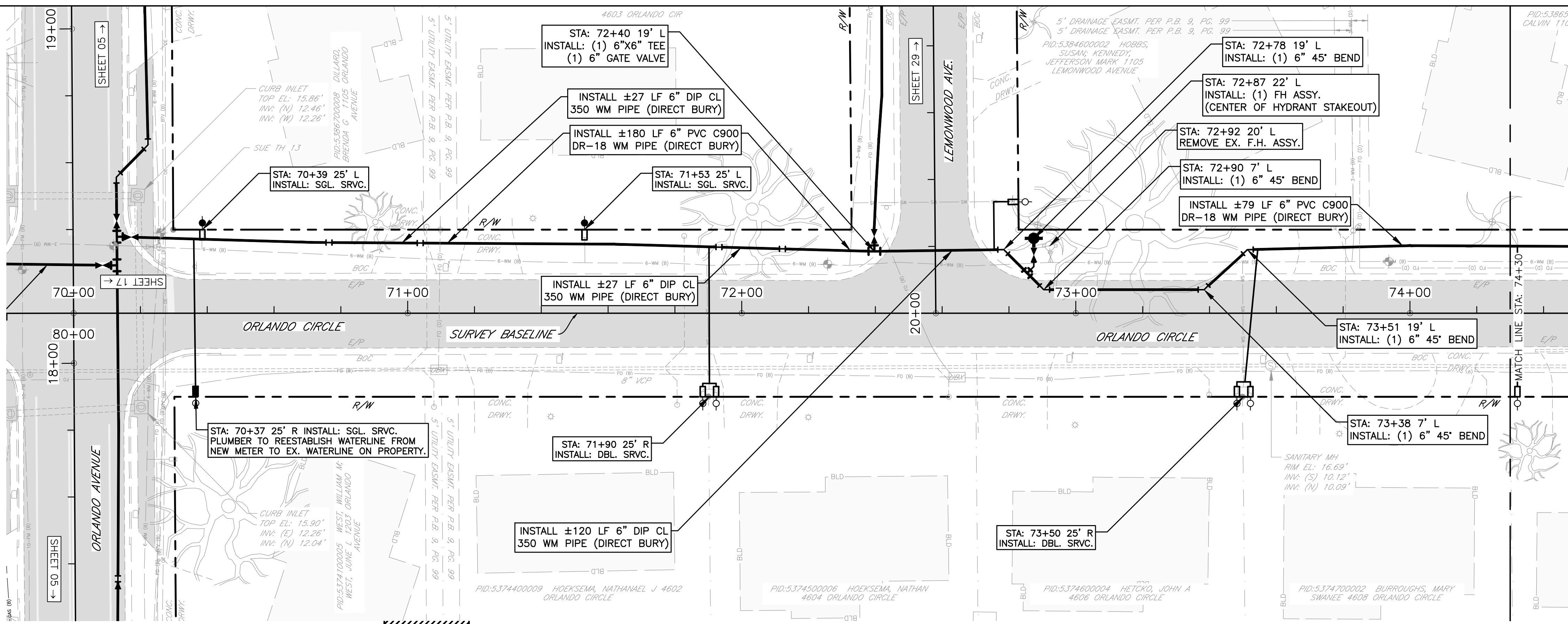
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT 9TH ST W STA 104+50 TO 107+50



PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
FLORIDA PROFESSIONAL ENGINEER
No. 60923
03/21/2023

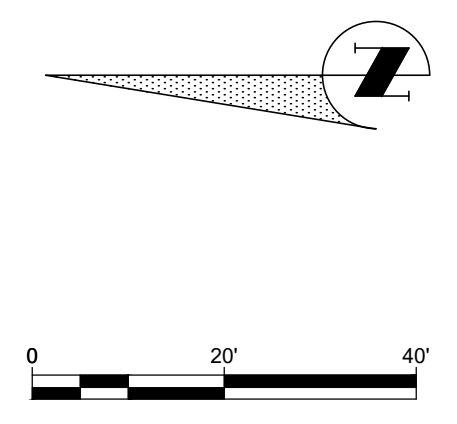


TANGELO PARK WATER MAIN REPLACEMENT ORLANDO CIRCLE STA 70+00 TO 74+30

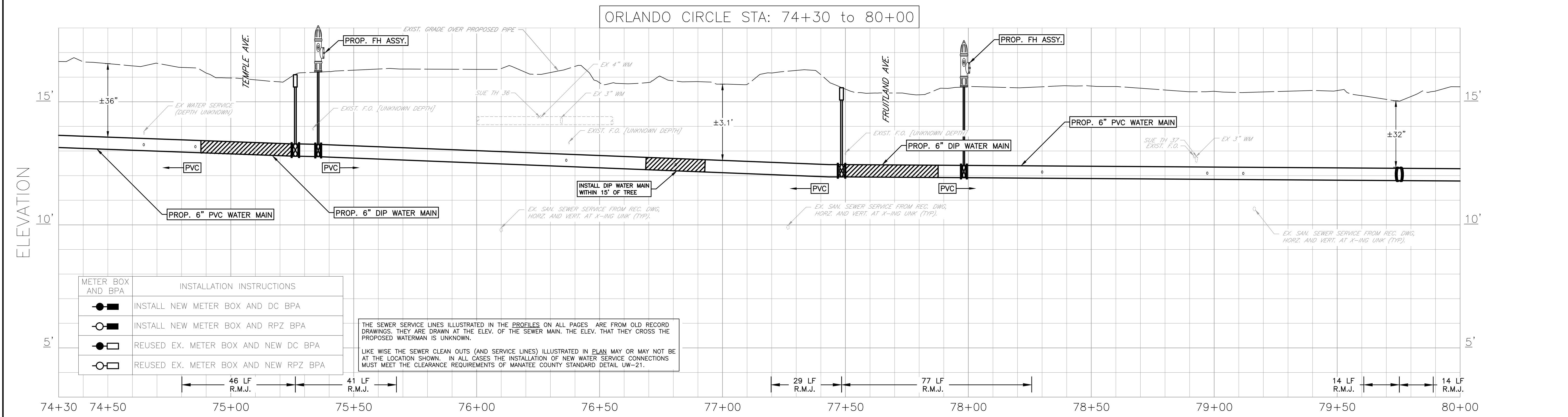
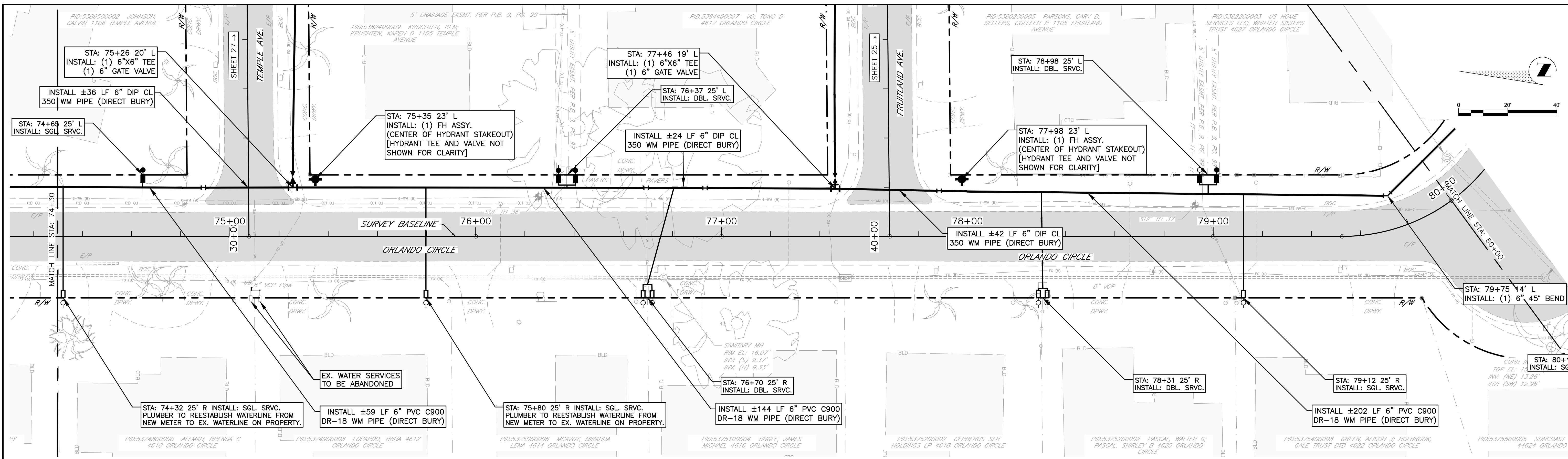


PROJECT #	404-6030272	J. SHEA SHOUN, P.E.
SURVEY #	WA-3	FLORIDA LICENSE No. 60923
SEC./TWN./RGE	11/35S/17E	03/21/2023
SCALE	SEE PLAN	DATE
SURVEYED	SUR/TECH 05/2020	BY
DESIGNED	JSS/BLR 06/2020	DATE
DRAWN	BLR/JSS 06/2020	
CHECKED	-	

NO.	REVISION DESCRIPTION	BY	DATE



P:\Design\DWG\17-3727\2023\727 AM Shee Shoun - 11- ANS full based 0 (34.00 x 22.00 inches) - MC-20181818



METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

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NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT ORLANDO CIRCLE STA 74+30 TO 80+00

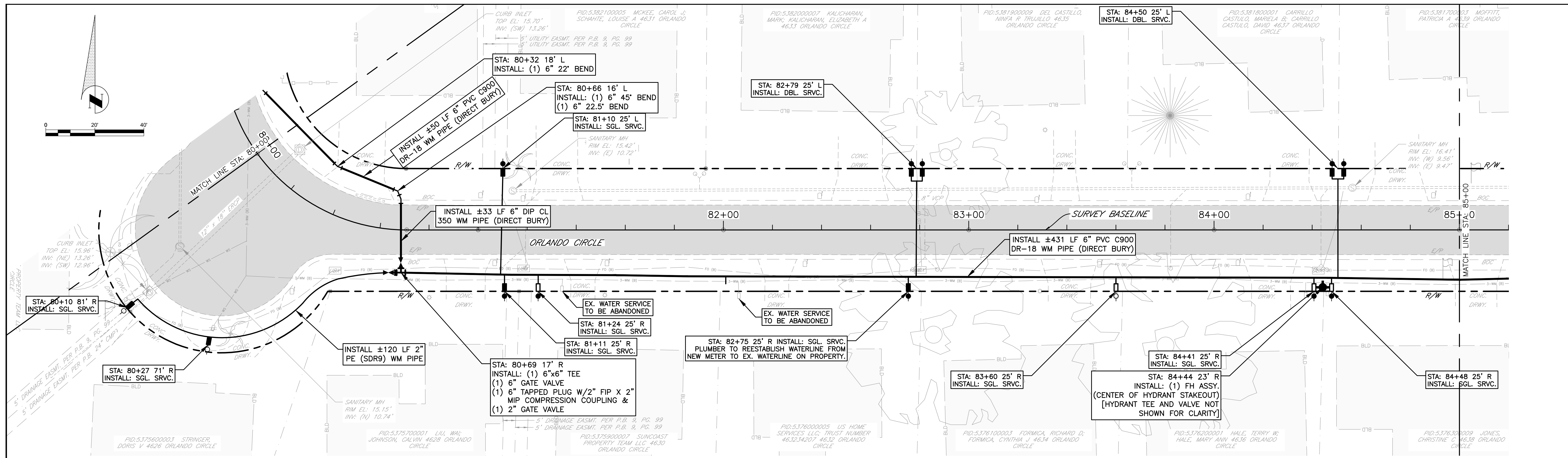


PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

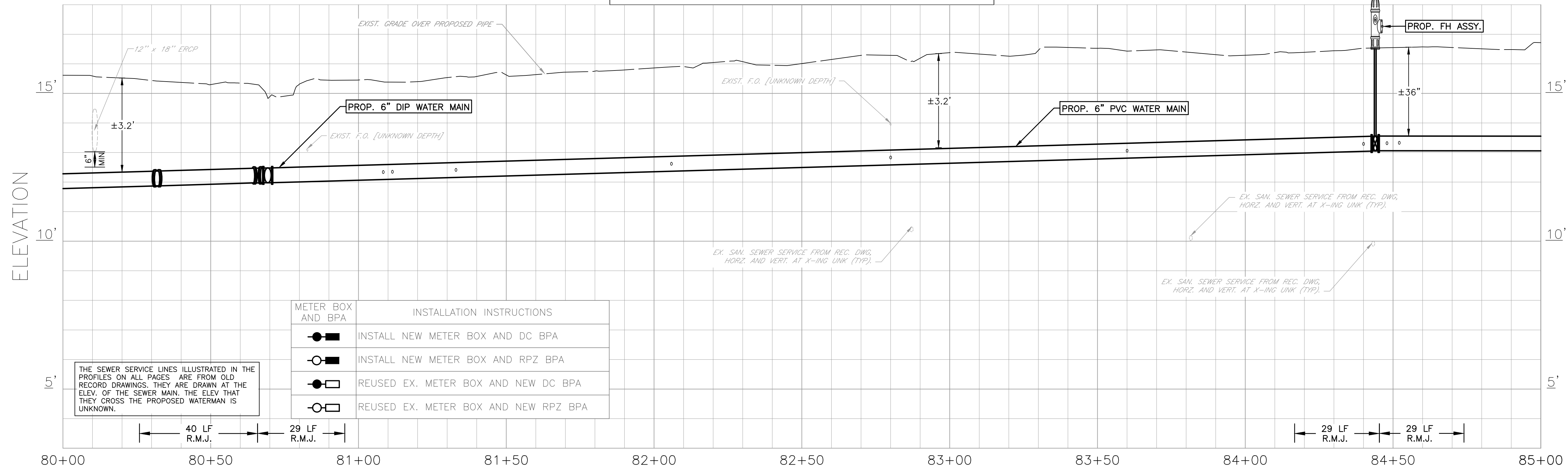
J. SHEA SHOUN, P.E.
FLORIDA PROFESSIONAL ENGINEER
No. 60923
03/21/2023

SHEET 18 OF 41

1:1, ANS full based 0' (34.00' x 22.00' inches), 10/20/2018
 P:\Design\DWG\18_3727\2023\727 AM Shee Shoun_11.dwg
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 10/20/2018



ORLANDO CIRCLE STA: 80+00 TO 85+00



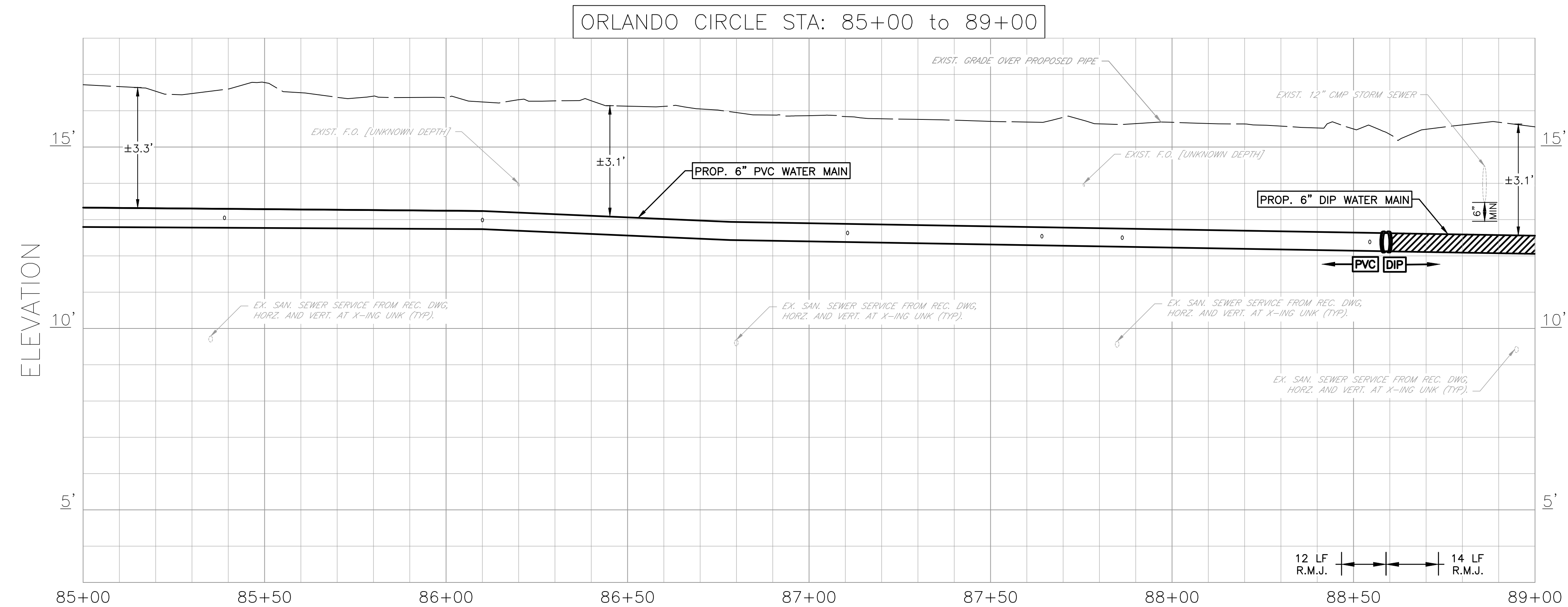
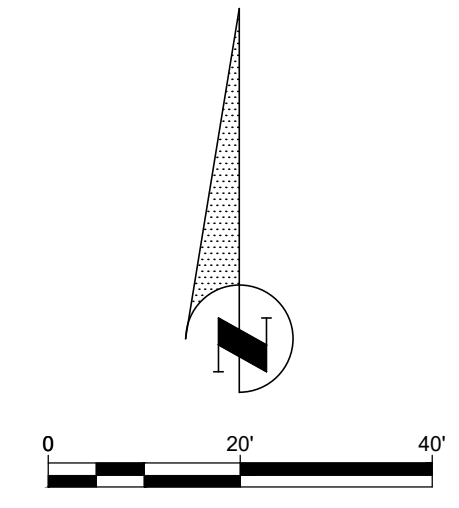
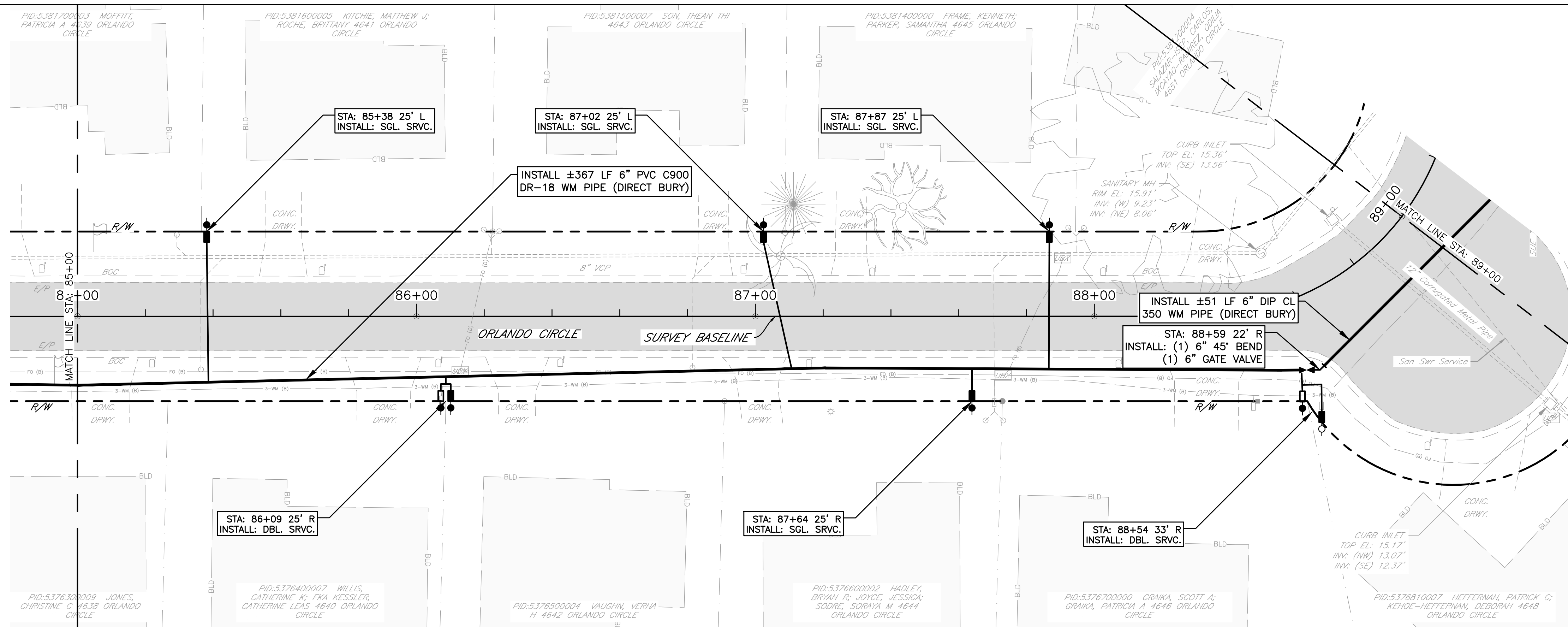
METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK
WATER MAIN REPLACEMENT
ORLANDO CIRCLE STA 80+00 TO 85+00



PROJECT #	404-6030272	J. SHEA SHOUN, P.E.
SURVEY #	WA-3	FLORIDA LICENSE No. 60923
SEC./TWN./RGE	11/35S/17E	03/21/2023
SCALE	SEE PLAN	
SURVEYED	SURVTECH 05/2020	
DESIGNED	JSS/BLR 06/2020	
DRAWN	BLR/JSS 06/2020	
CHECKED	-	



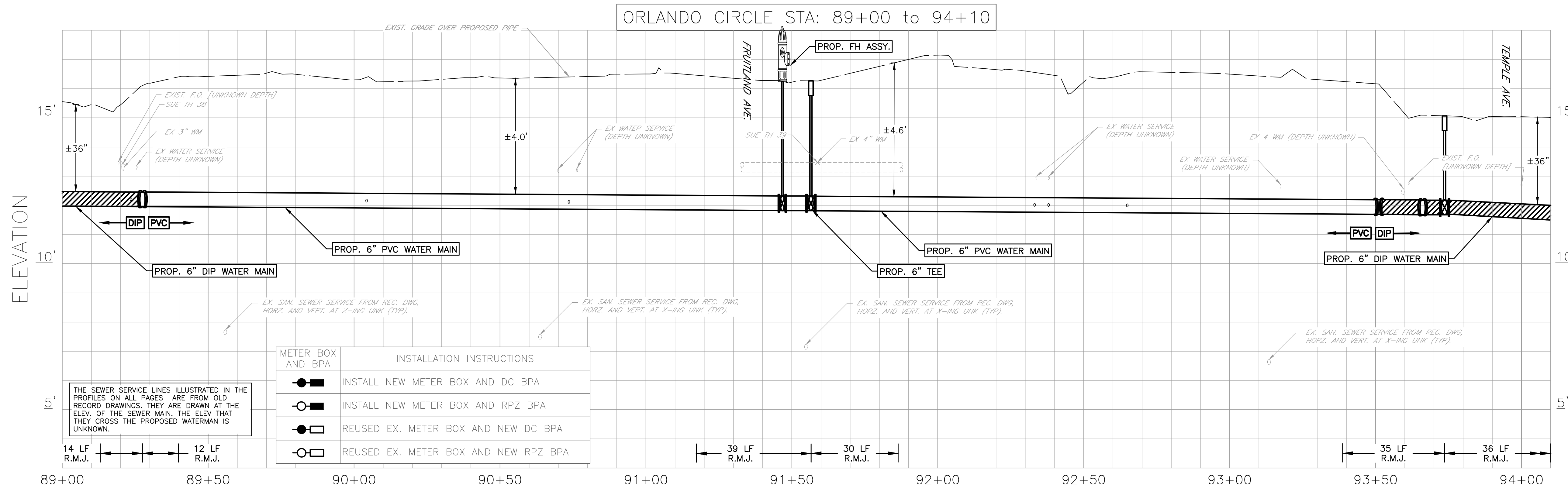
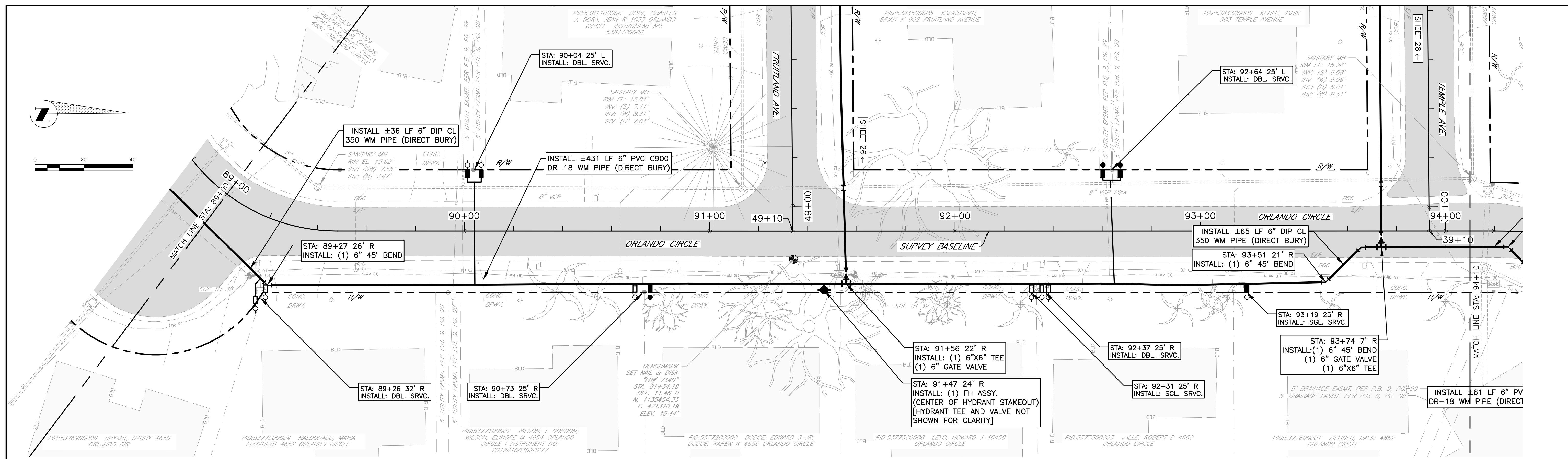
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK
WATER MAIN REPLACEMENT
ORLANDO CIRCLE STA 85+00 TO 89+00



PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
 STATE OF FLORIDA
 LICENSE No. 60923
 03/21/2023
 PROFESSIONAL ENGINEER



METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

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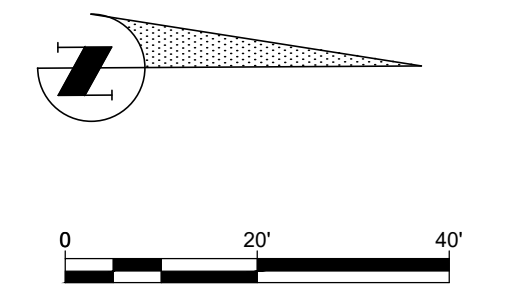
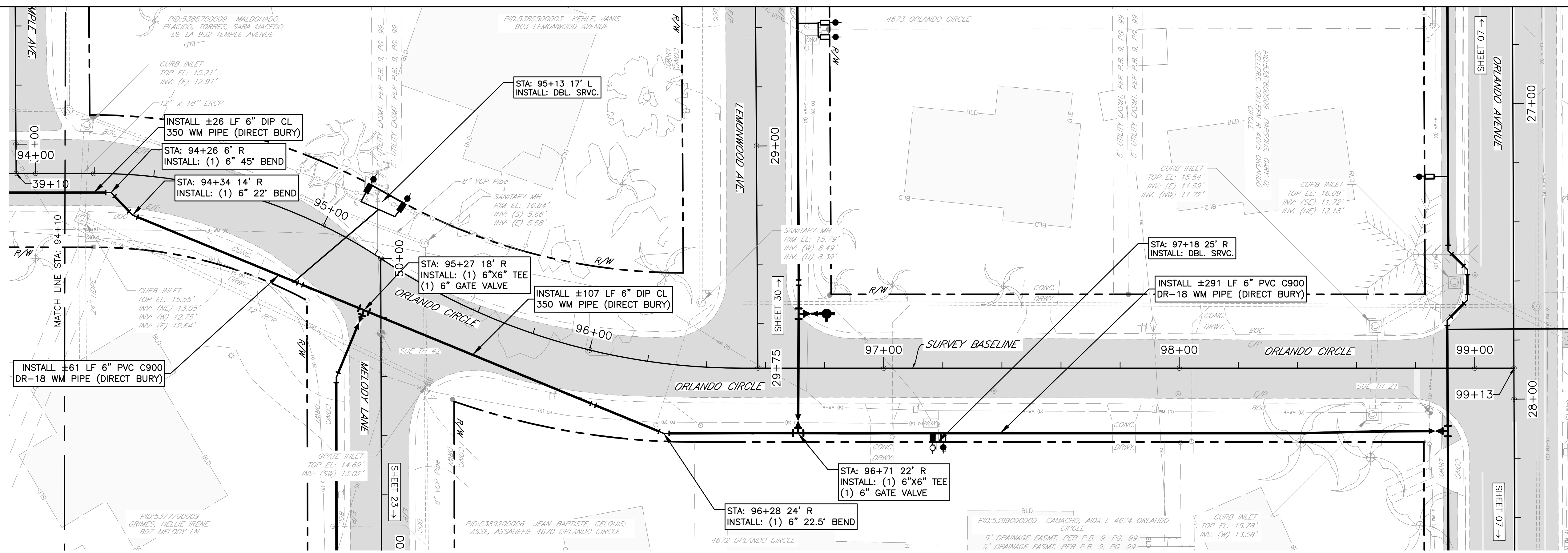
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT ORLANDO CIRCLE STA 89+00 TO 94+12

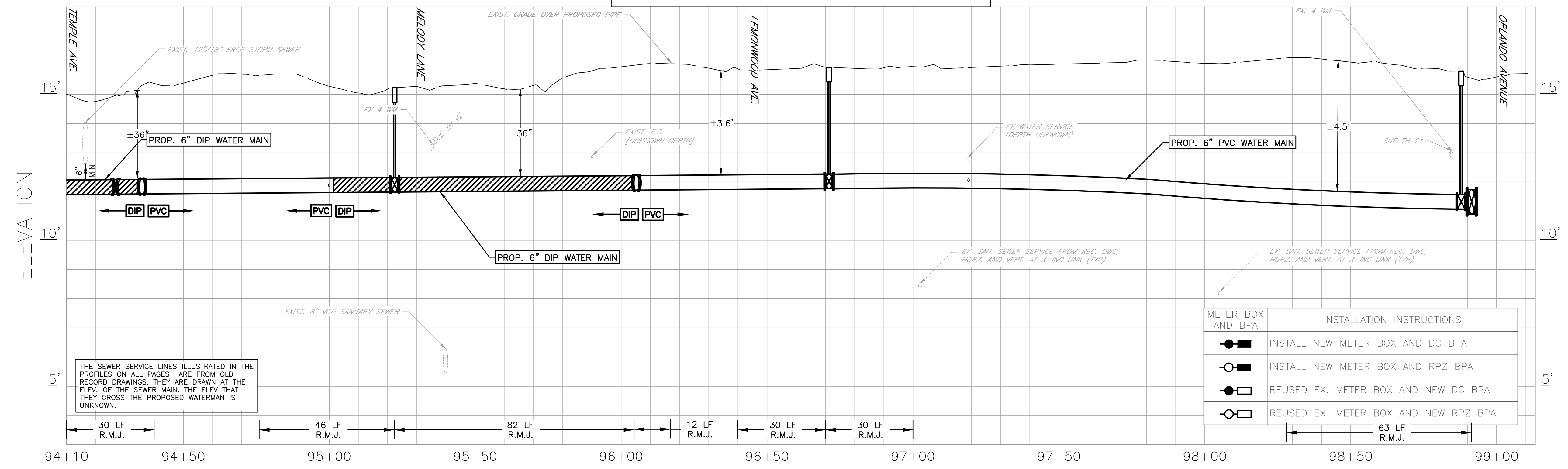


PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SUR/TECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
No. 60923
03/21/2023
PROFESSIONAL ENGINEER



ORLANDO CIRCLE STA: 94+10 TO 99+13



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METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

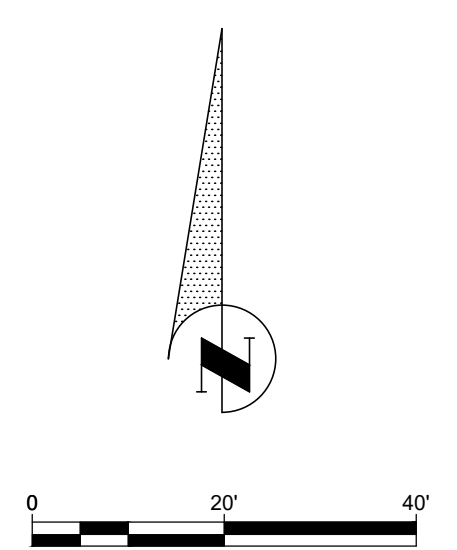
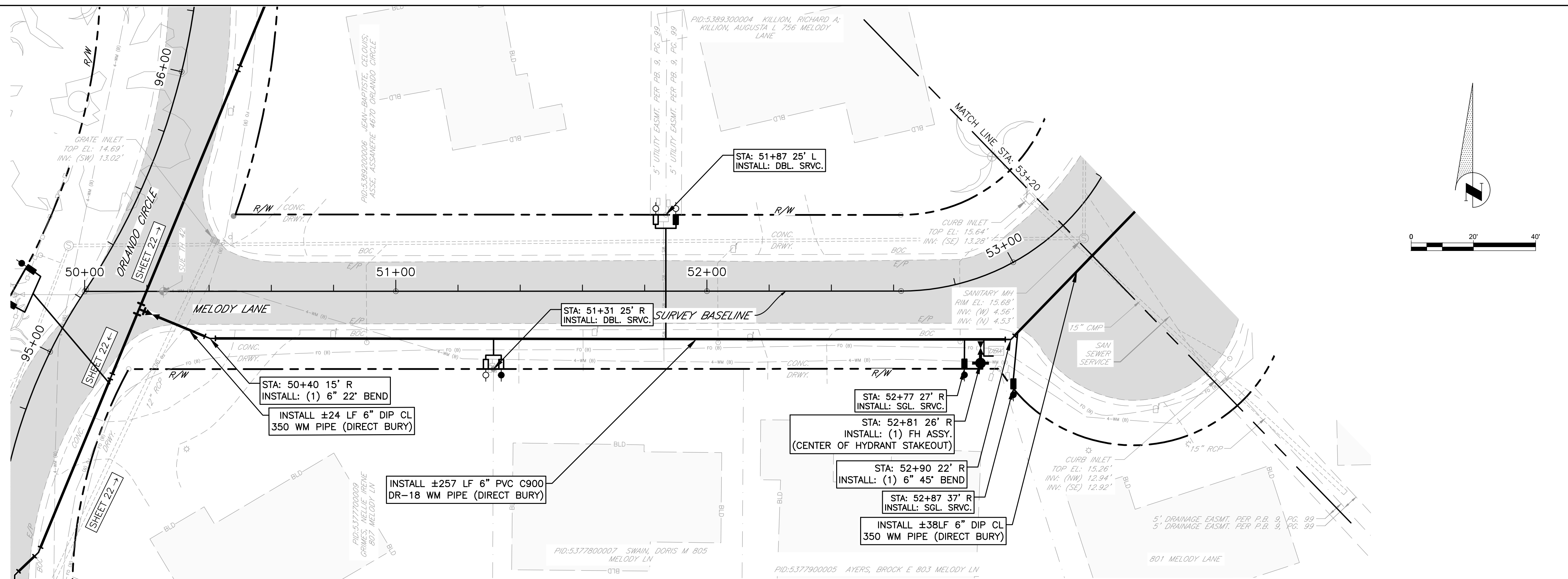
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT ORLANDO STA CIRCLE 94+12 TO 99+13

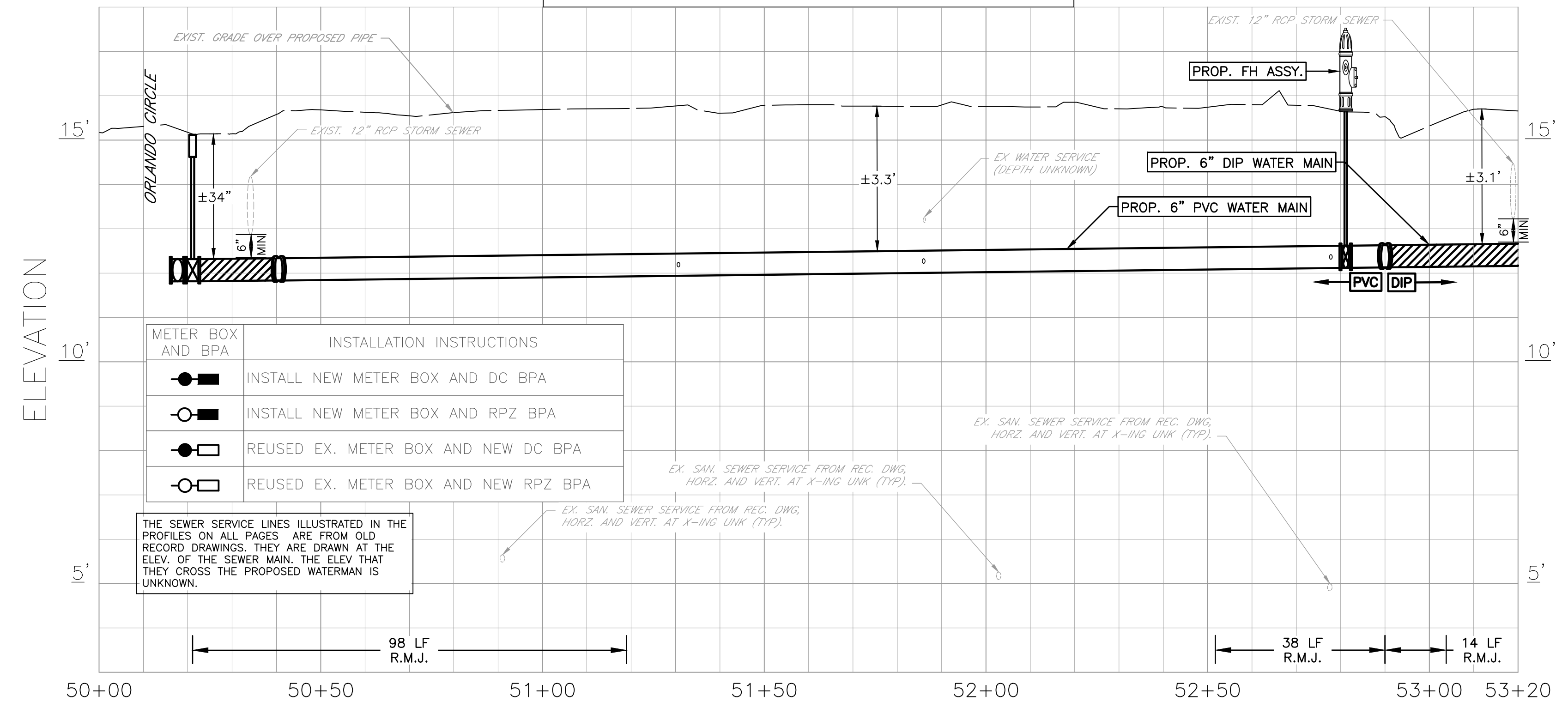


PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
 LICENSE No. 60923
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 03/21/2023



MELODY LANE STA: 50+00 to 53+20



METER BOX AND BPA		INSTALLATION INSTRUCTIONS	
		INSTALL NEW METER BOX AND DC BPA	
		INSTALL NEW METER BOX AND RPZ BPA	
		REUSED EX. METER BOX AND NEW DC BPA	
		REUSED EX. METER BOX AND NEW RPZ BPA	

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NO.	REVISION DESCRIPTION	BY	DATE

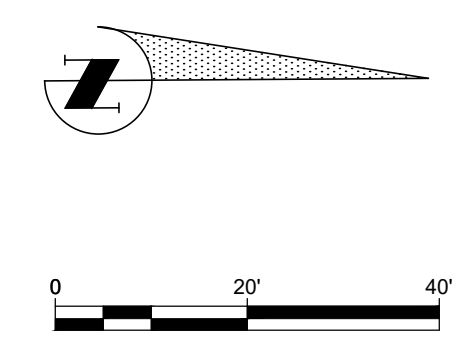
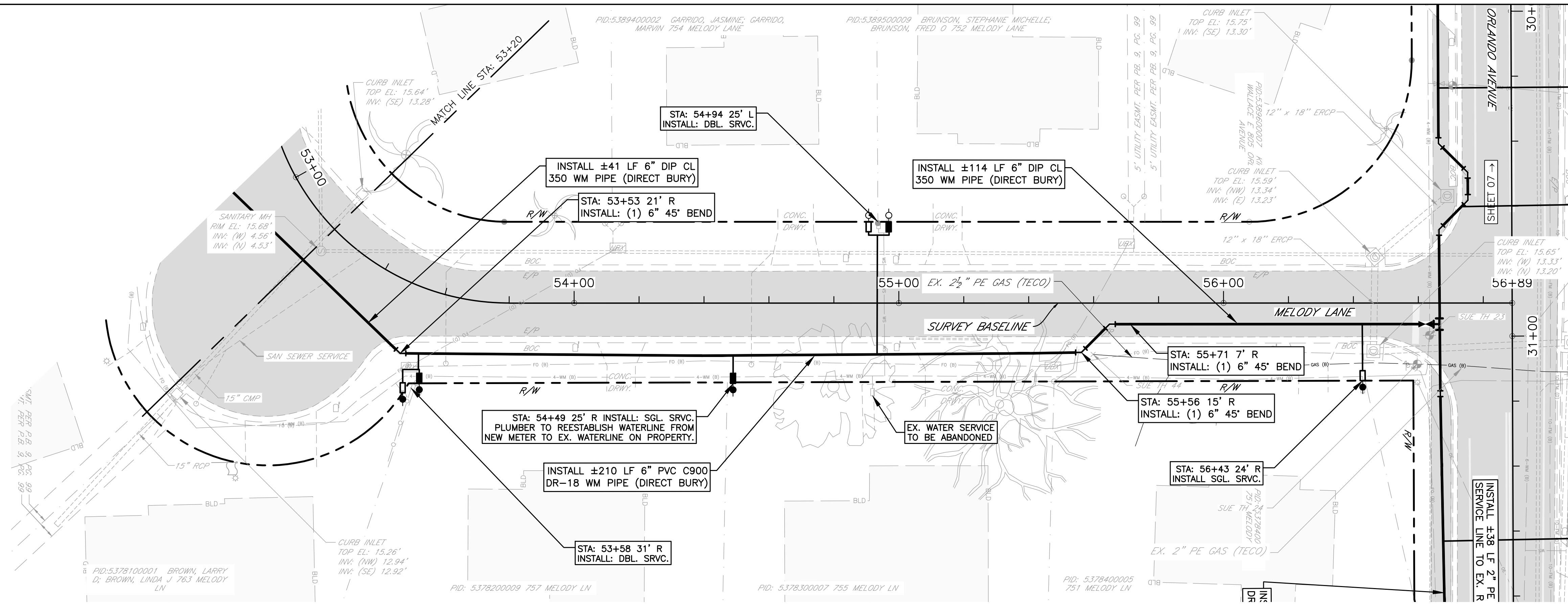
TANGELO PARK WATER MAIN REPLACEMENT MELODY LANE STA 50+00 TO 53+20



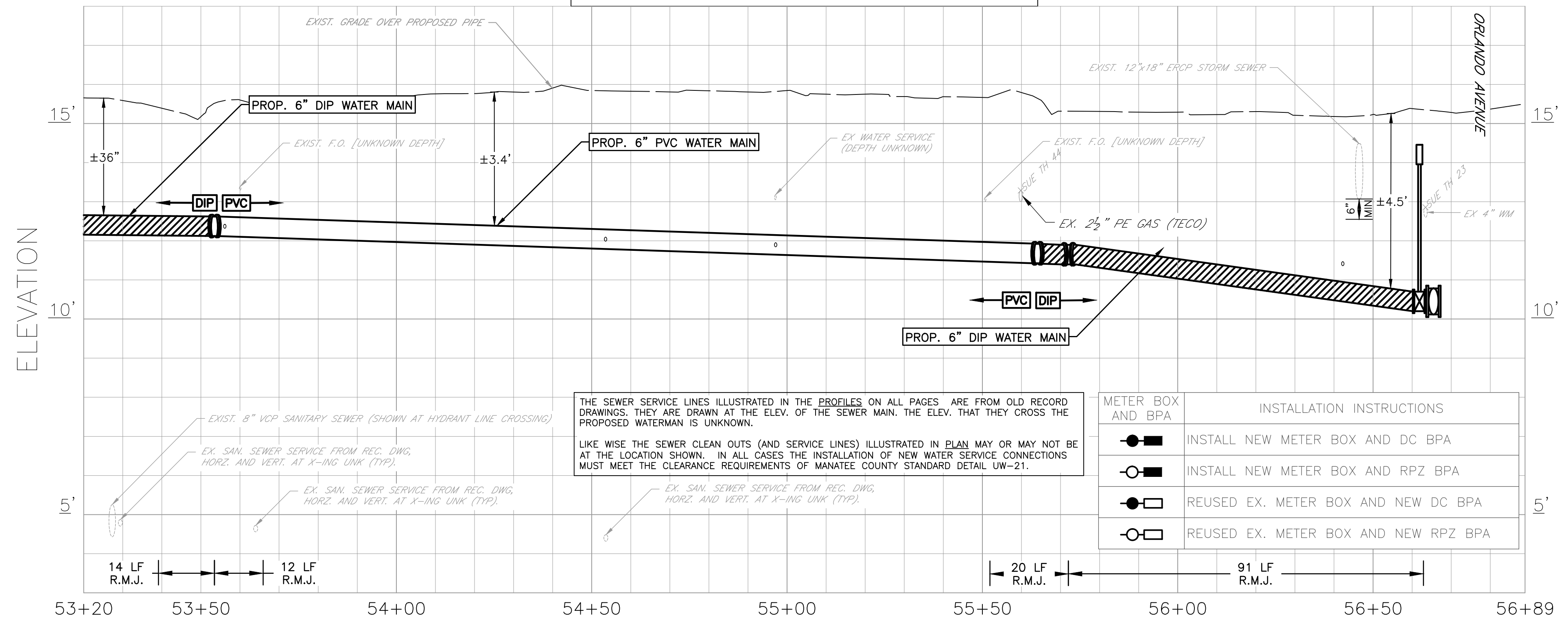
PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
BY	DATE
SURVEYED SURVTECH	05/2020
DESIGNED JSS/BLR	06/2020
DRAWN BLR/JSS	06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
FLORIDA PROFESSIONAL ENGINEER
No. 60923
03/21/2023

I:\Users\design\p001\work\projects\tangelo park\DWG\Design\DWG23_3/27/2023_7:29 AM Sheet Stoun_11_ ANS1 full based 0 (34.00 x 22.00 inches)_10c-2016.rvt



MELODY LANE STA: 53+20 to 56+89



METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

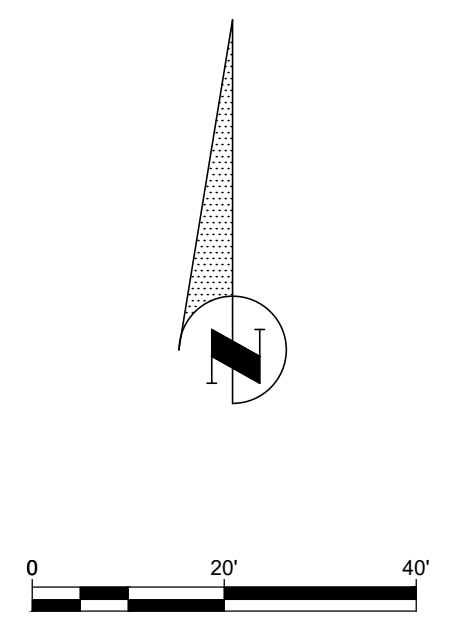
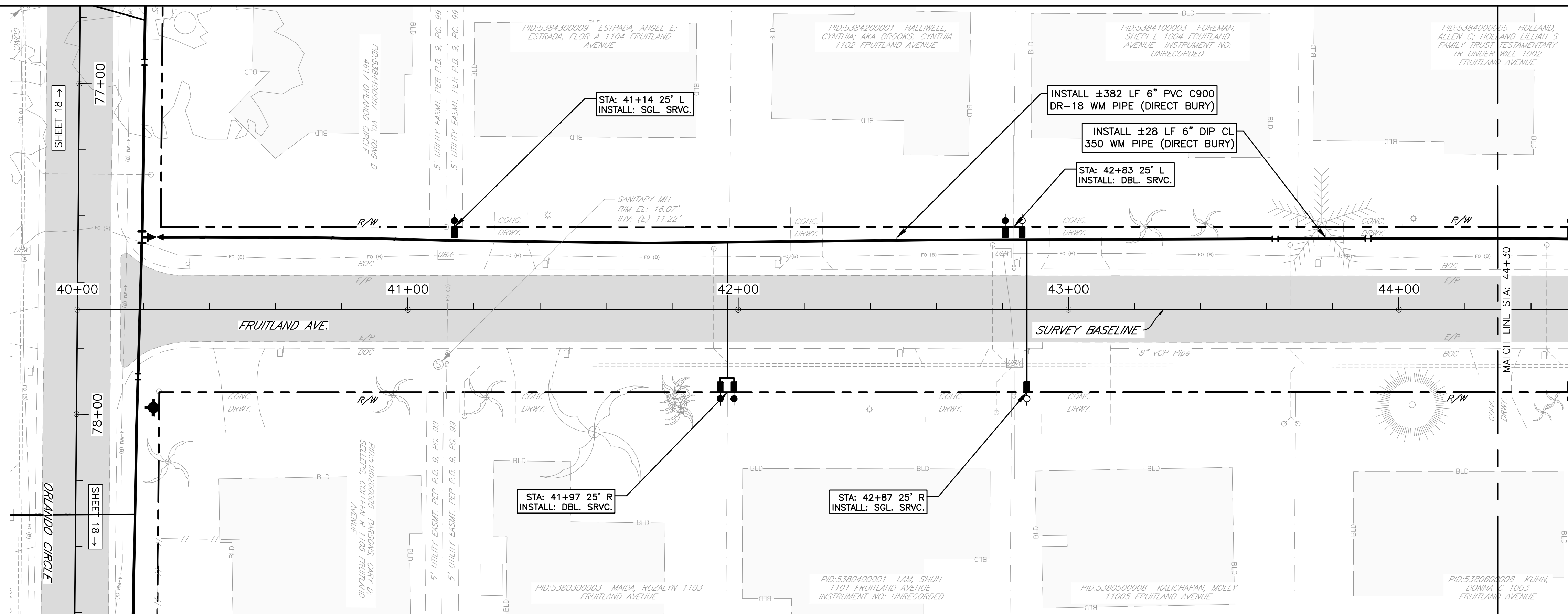
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT MELODY LANE STA 53+20 TO 56+89

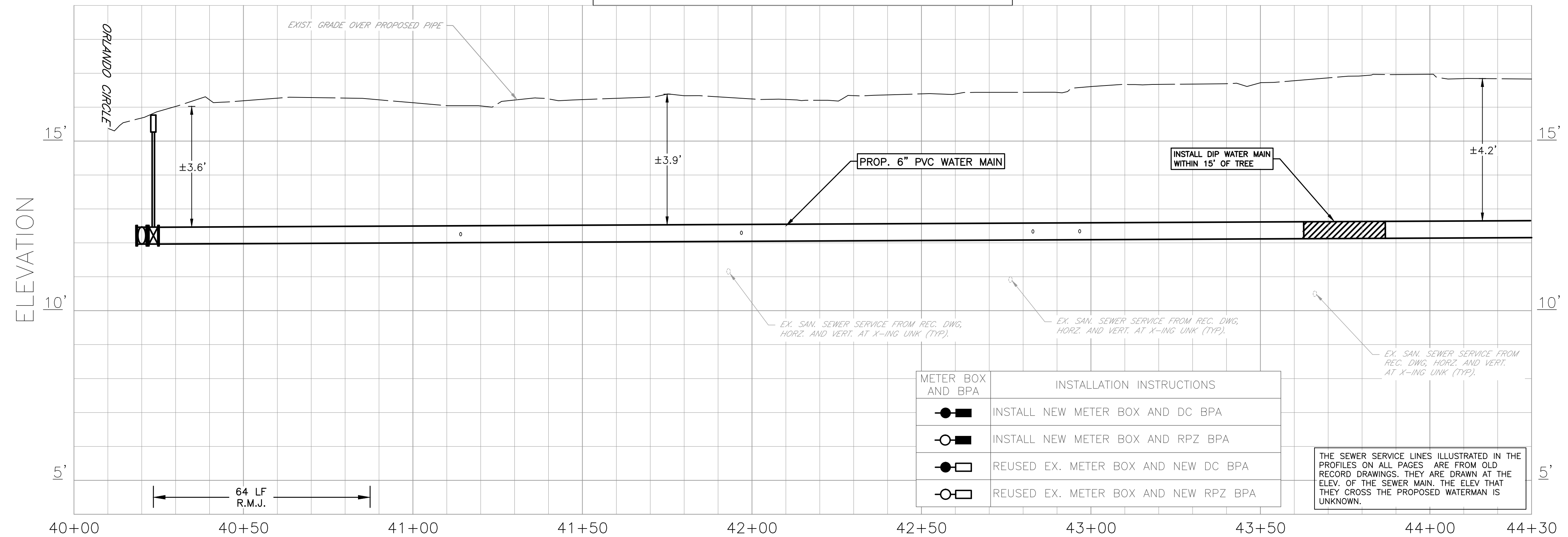


PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
No. 60923
03/21/2023
PROFESSIONAL ENGINEER



FRUITLAND AVE STA: 40+00 to 44+30



METER BOX AND BPA		INSTALLATION INSTRUCTIONS	
	INSTALL NEW METER BOX AND DC BPA		INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA		REUSED EX. METER BOX AND NEW RPZ BPA

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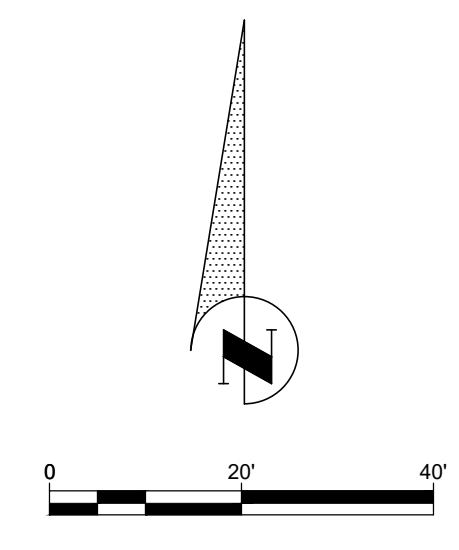
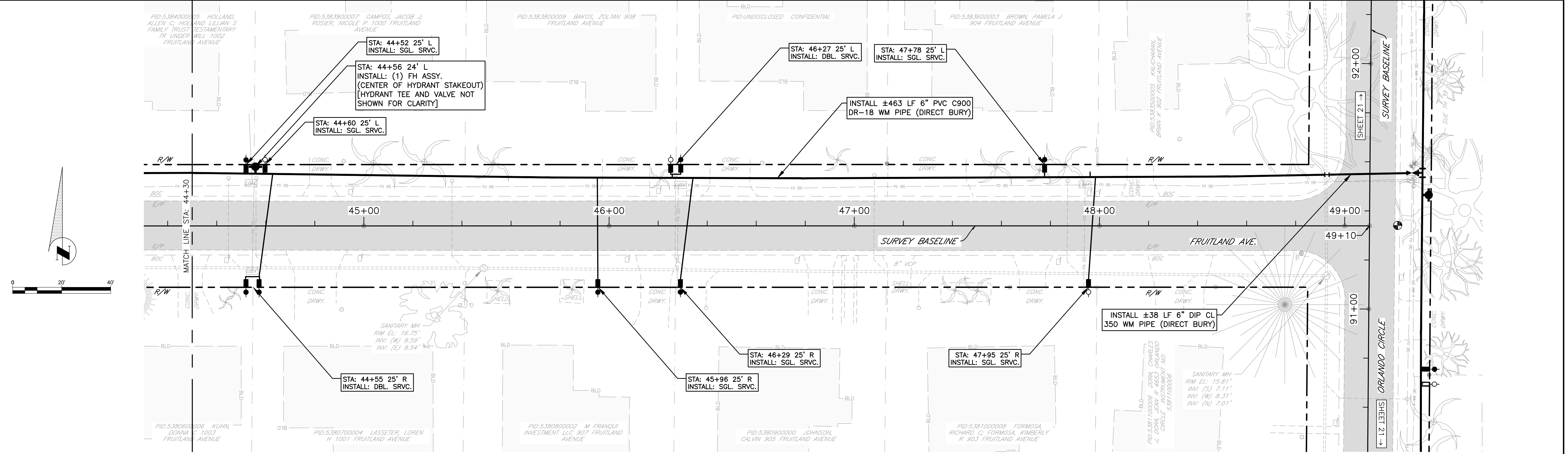
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT FRUITLAND AVE STA 40+00 TO 44+30

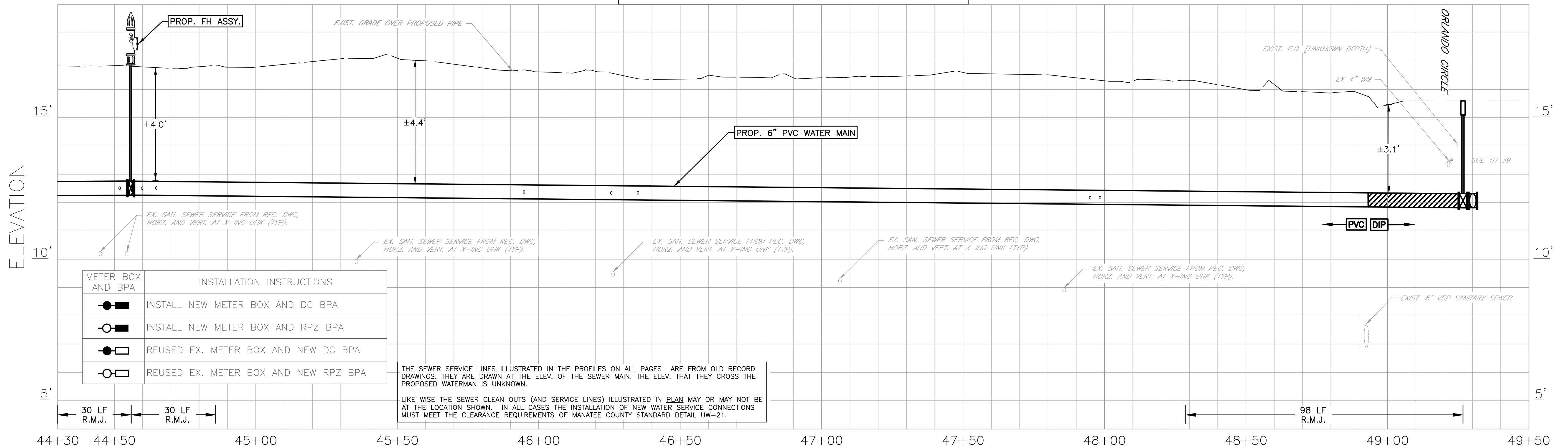


PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
 FLORIDA PROFESSIONAL ENGINEER
 No. 60923
 03/21/2023
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER



FRUITLAND AVE STA: 44+30 to 49+50



METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

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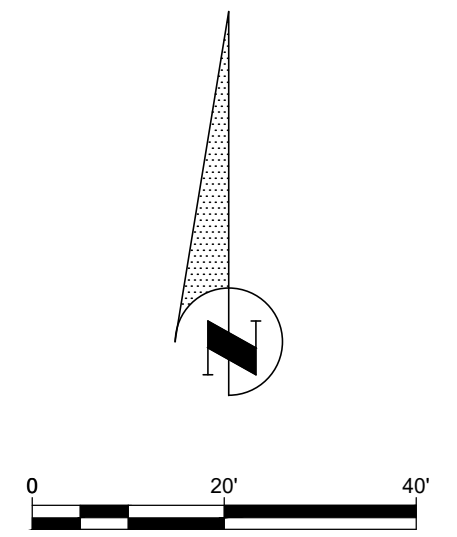
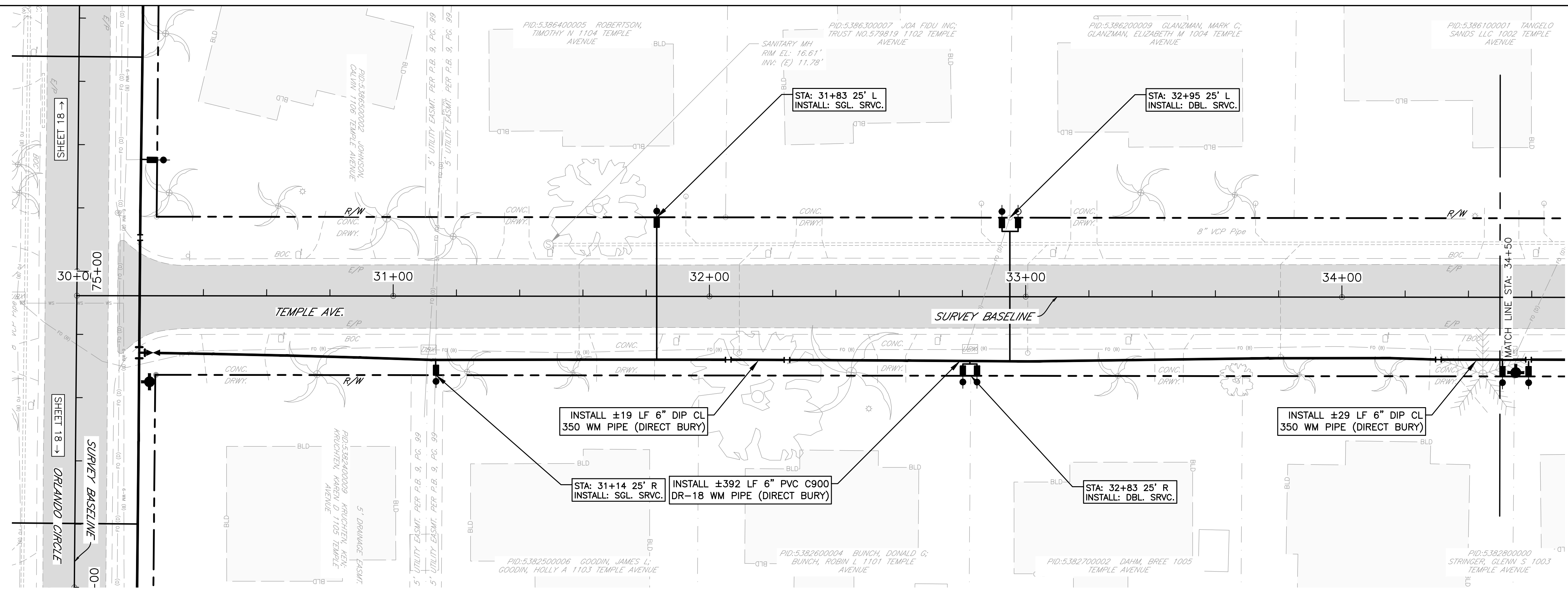
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT FRUITLAND AVE STA 44+30 TO 49+10

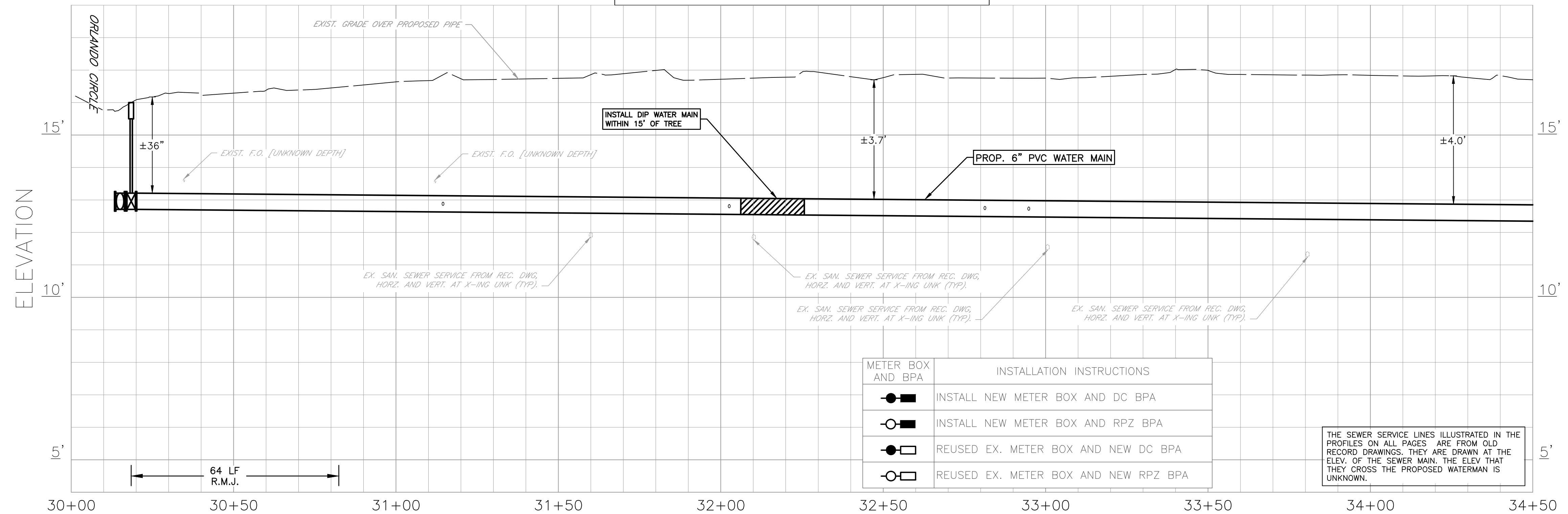


PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
No. 60923
03/21/2023
PROFESSIONAL ENGINEER



TEMPLE AVE STA: 30+00 to 34+50



METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

THE SEWER SERVICE LINES ILLUSTRATED IN THE PROFILES ON ALL PAGES ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.

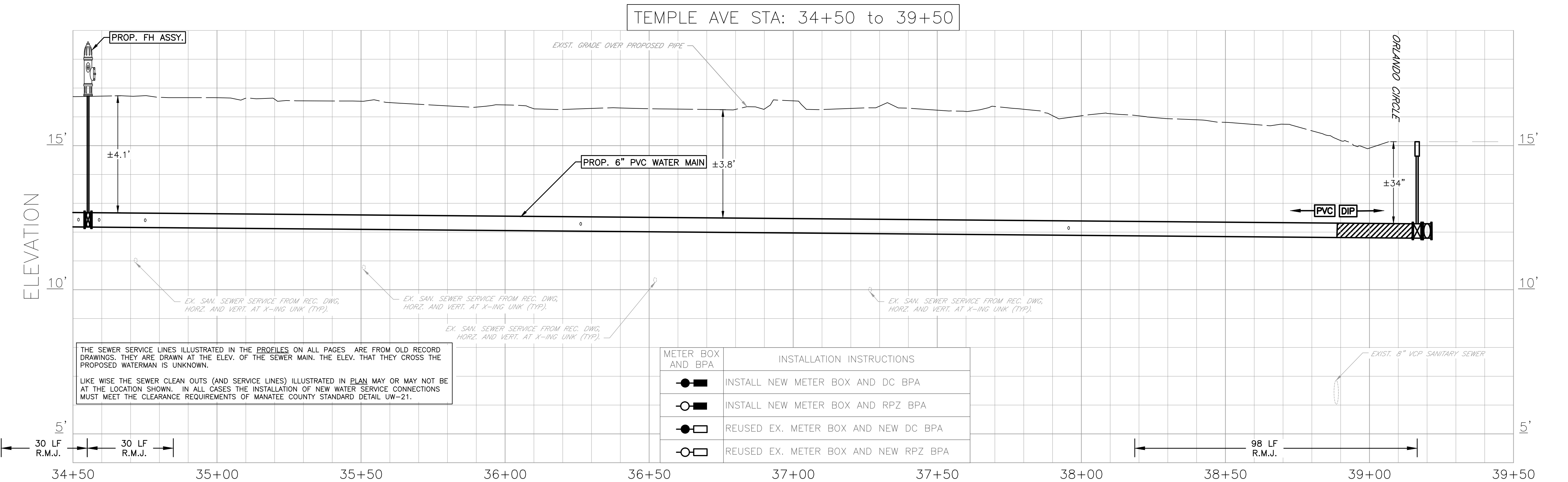
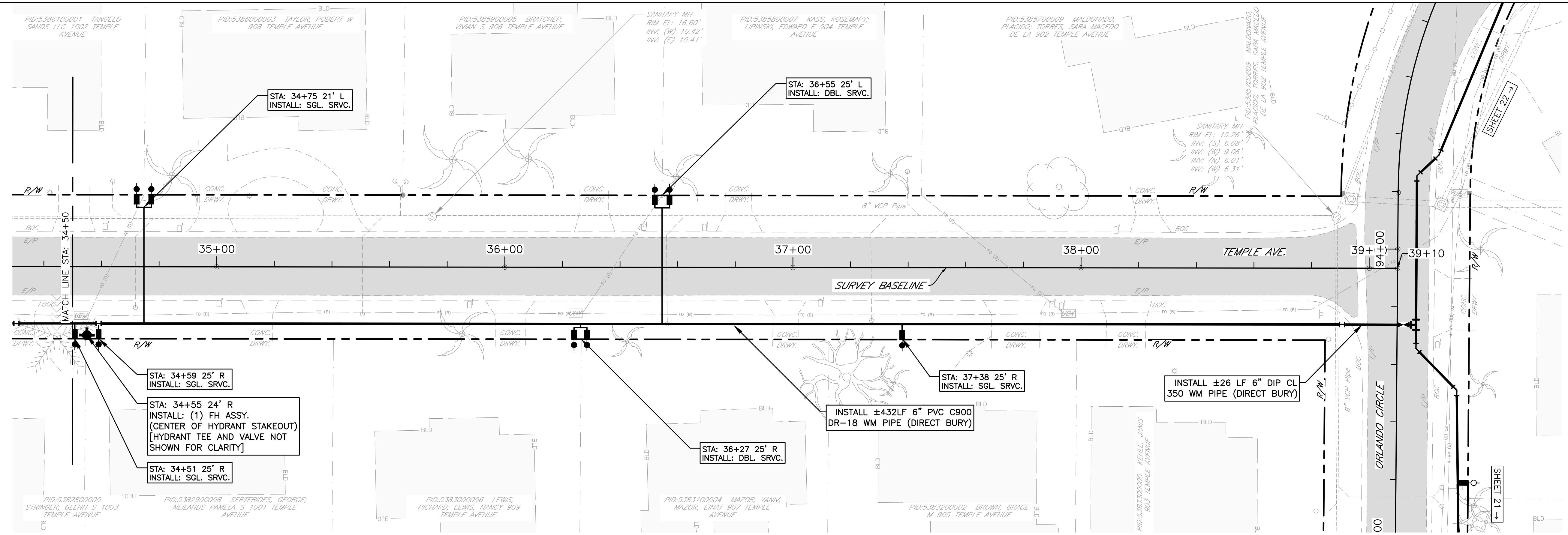
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT TEMPLE AVE STA 30+00 TO 34+50



PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
 No. 60923
 03/21/2023
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER



THE SEWER SERVICE LINES ILLUSTRATED IN THE PROFILES ON ALL PAGES ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.
 LIKE WISE THE SEWER CLEAN OUTS (AND SERVICE LINES) ILLUSTRATED IN PLAN MAY OR MAY NOT BE AT THE LOCATION SHOWN. IN ALL CASES THE INSTALLATION OF NEW WATER SERVICE CONNECTIONS MUST MEET THE CLEARANCE REQUIREMENTS OF MANATEE COUNTY STANDARD DETAIL UW-21.

METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	REUSED EX. METER BOX AND NEW DC BPA
	REUSED EX. METER BOX AND NEW RPZ BPA

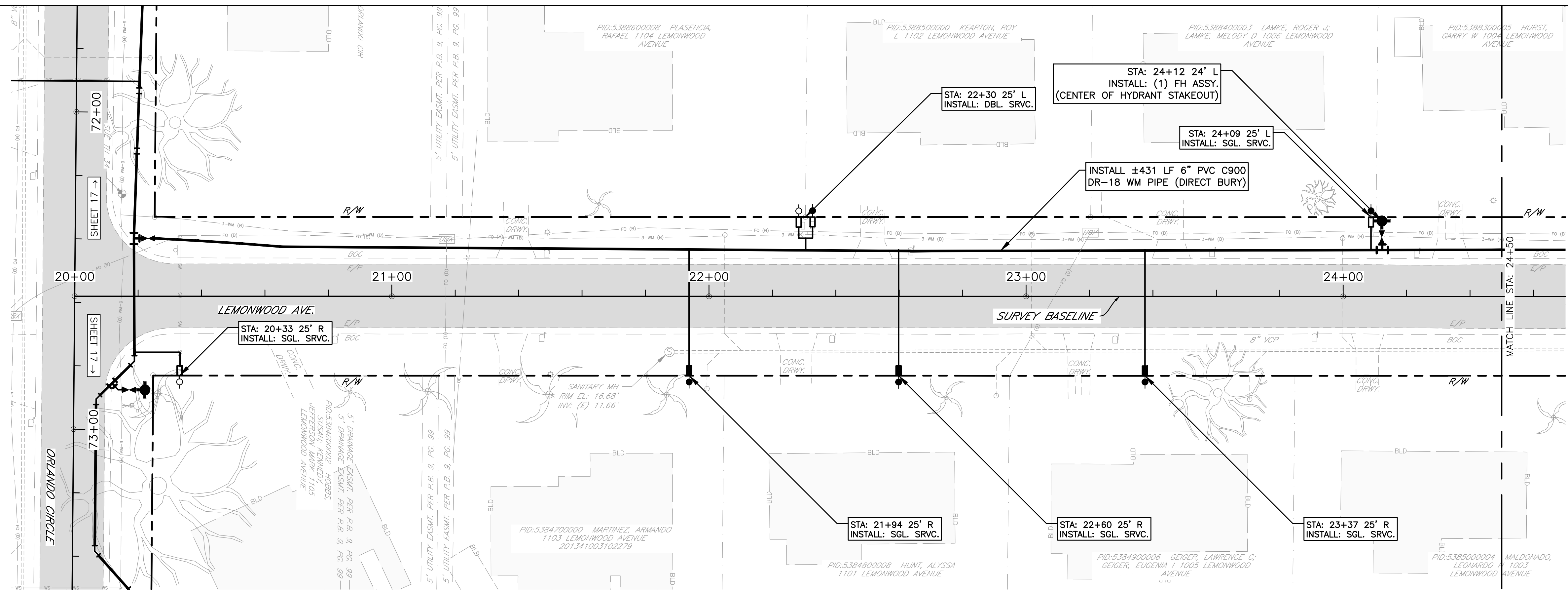
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT TEMPLE AVE STA 34+50 TO 39+10

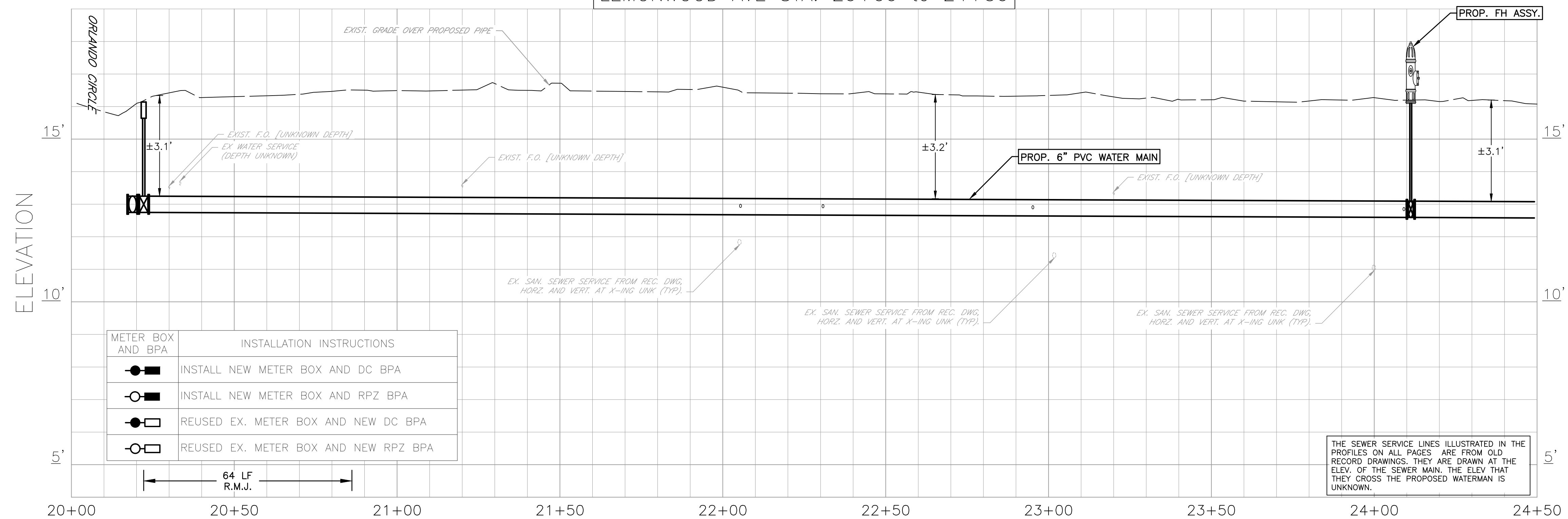


PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SUR/TECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
 LICENSE NO. 60923
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 03/21/2023
 Date



LEMONWOOD AVE STA: 20+00 to 24+50



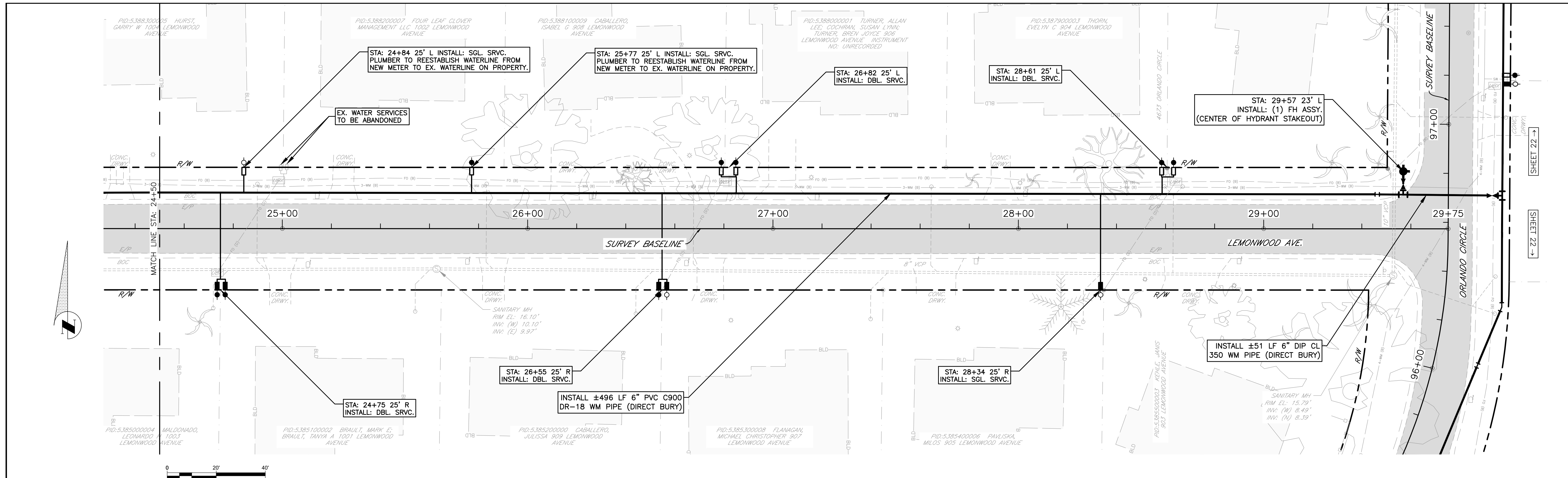
NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK
WATER MAIN REPLACEMENT
LEMONWOOD AVE STA 20+00 TO 24+50

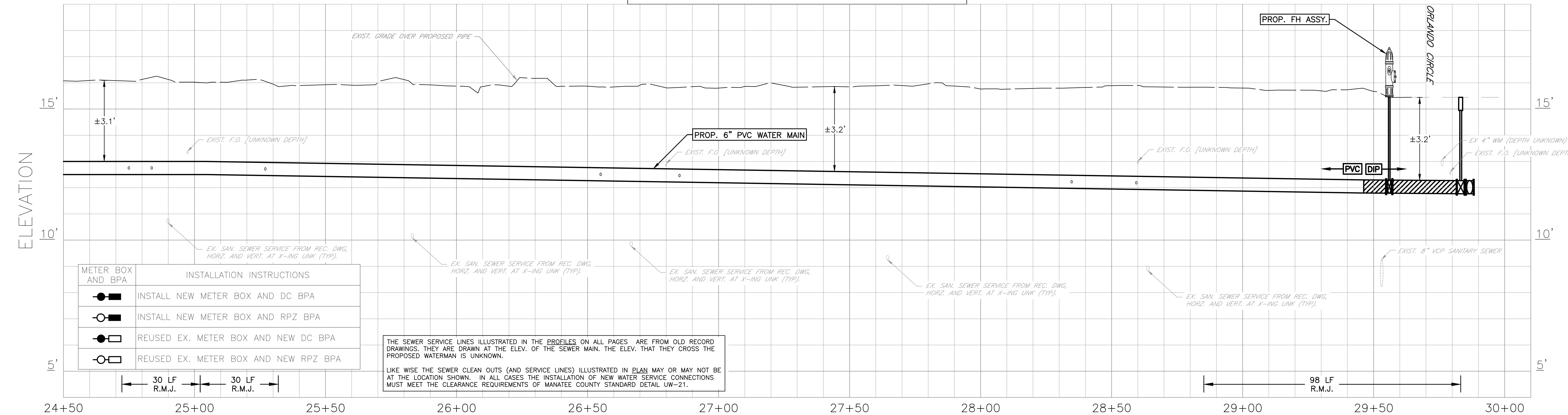


PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
 No. 60923
 LICENSE
 03/21/2023
 PROFESSIONAL ENGINEER



LEMONWOOD AVE STA: 24+50 to 30+10

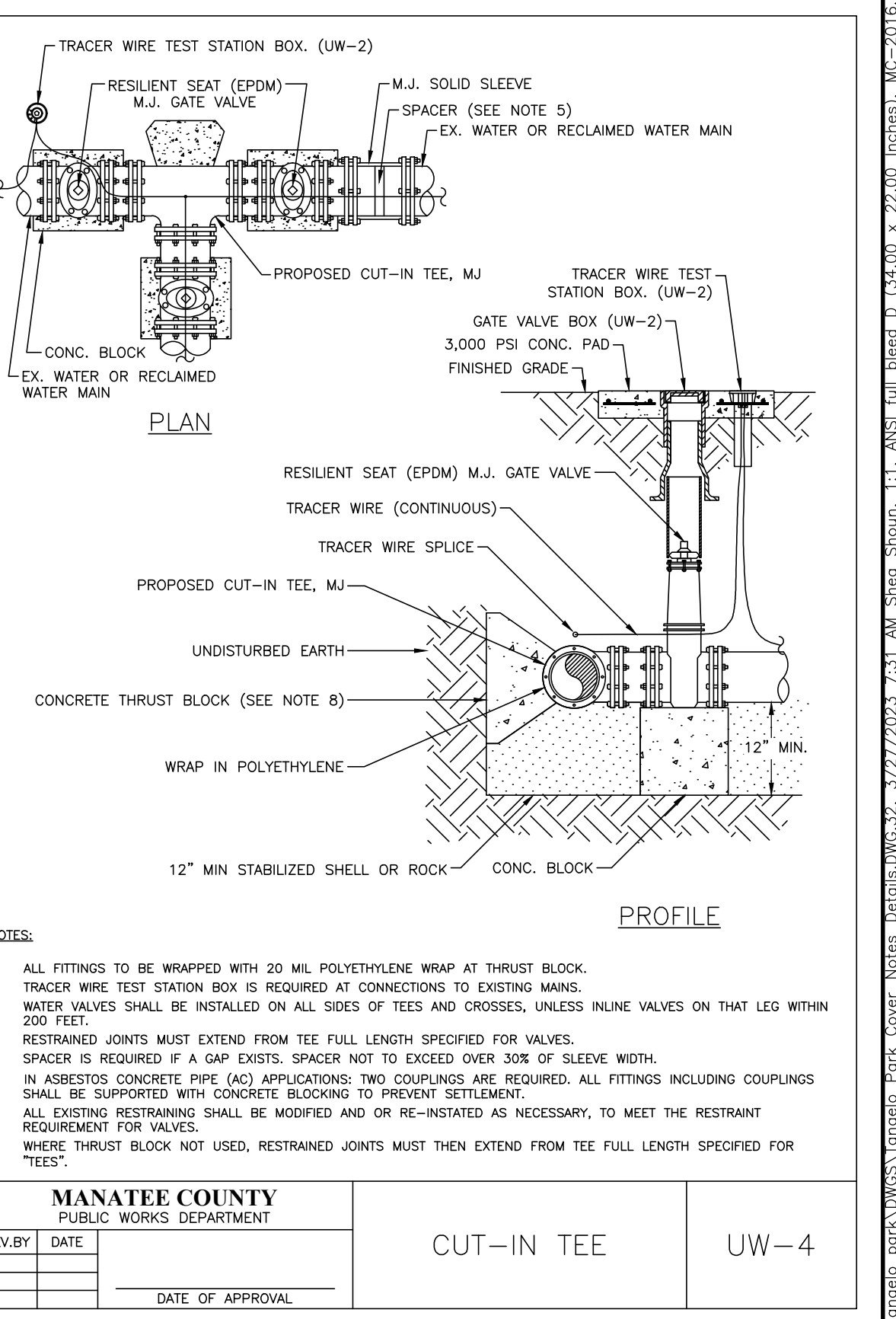
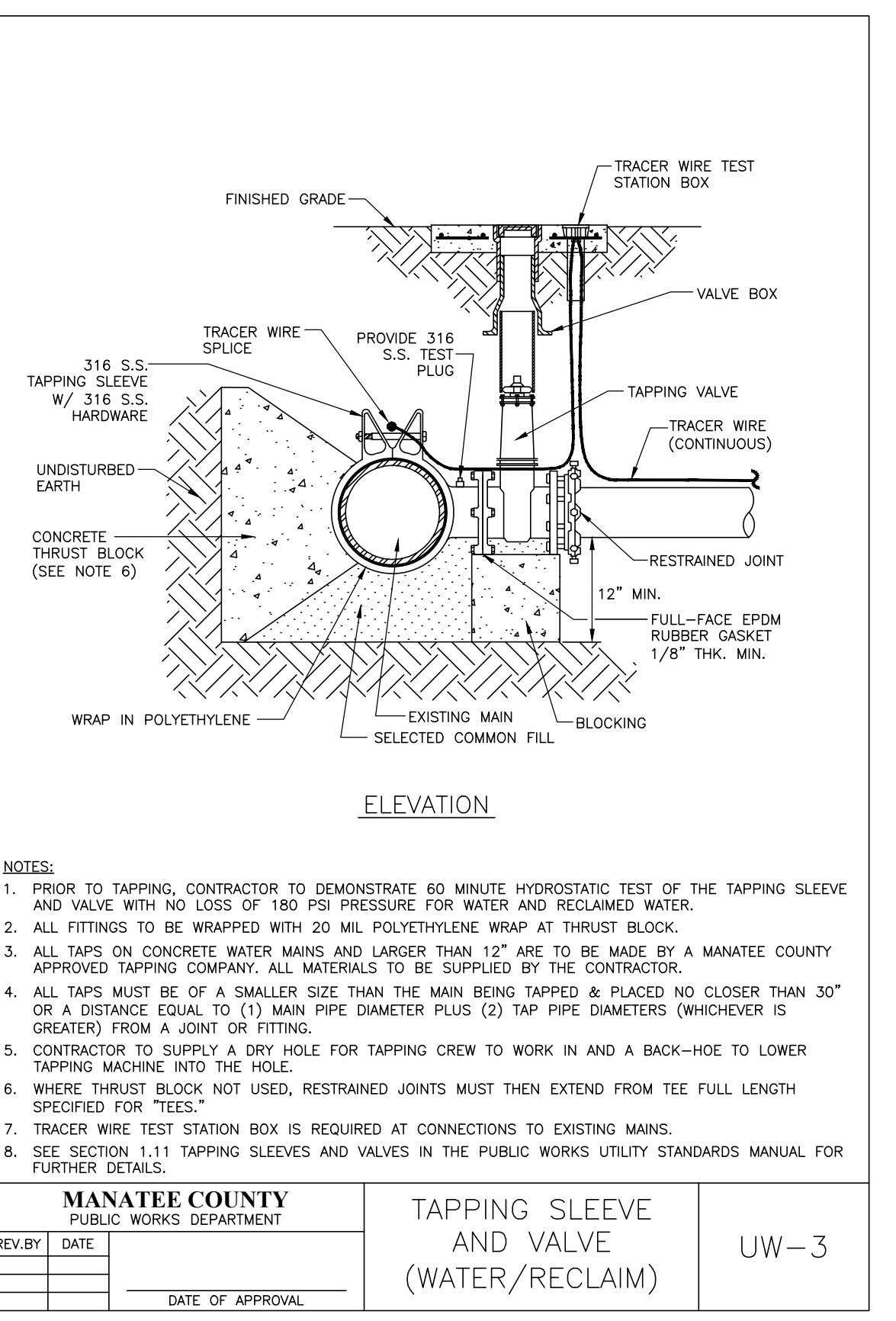
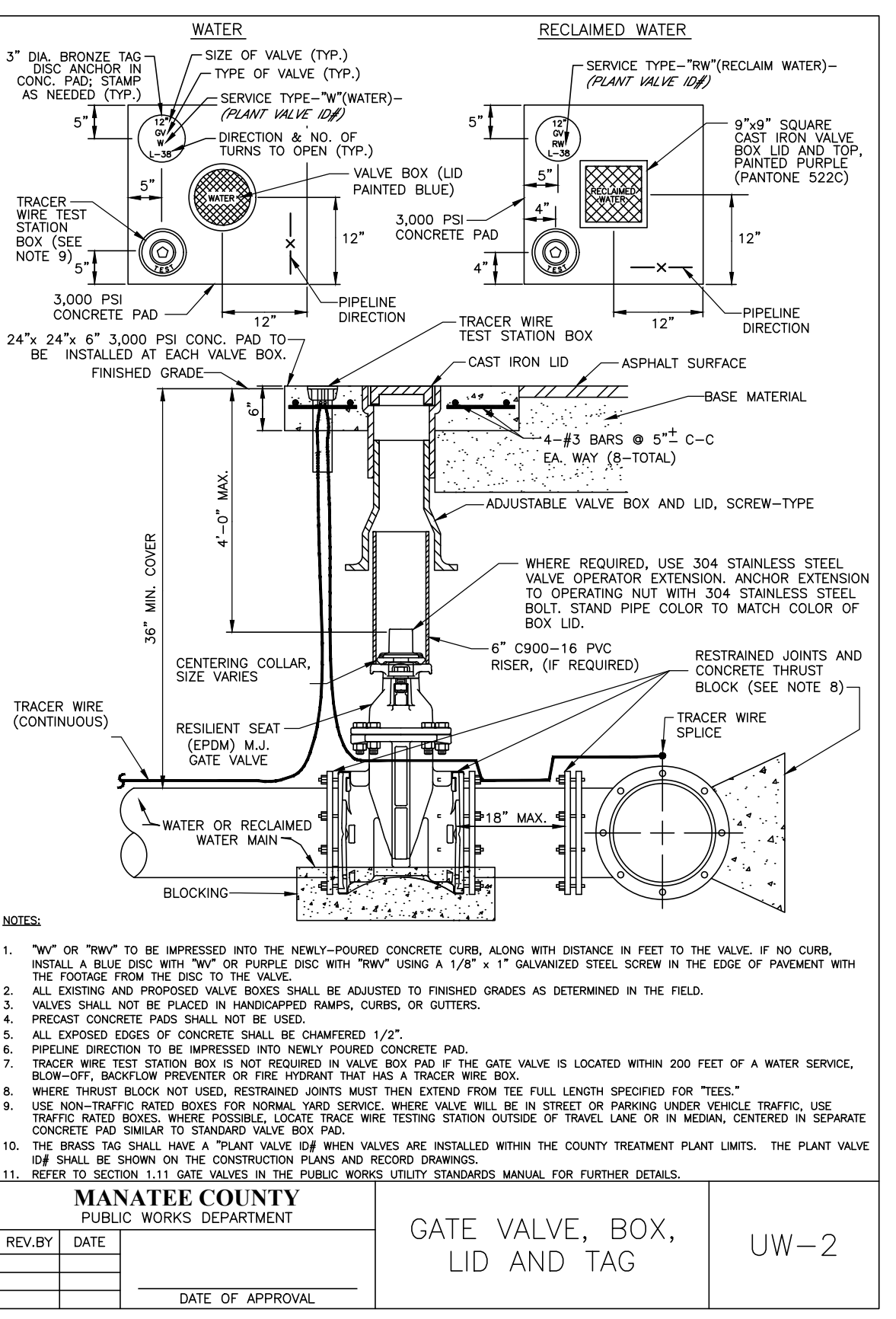
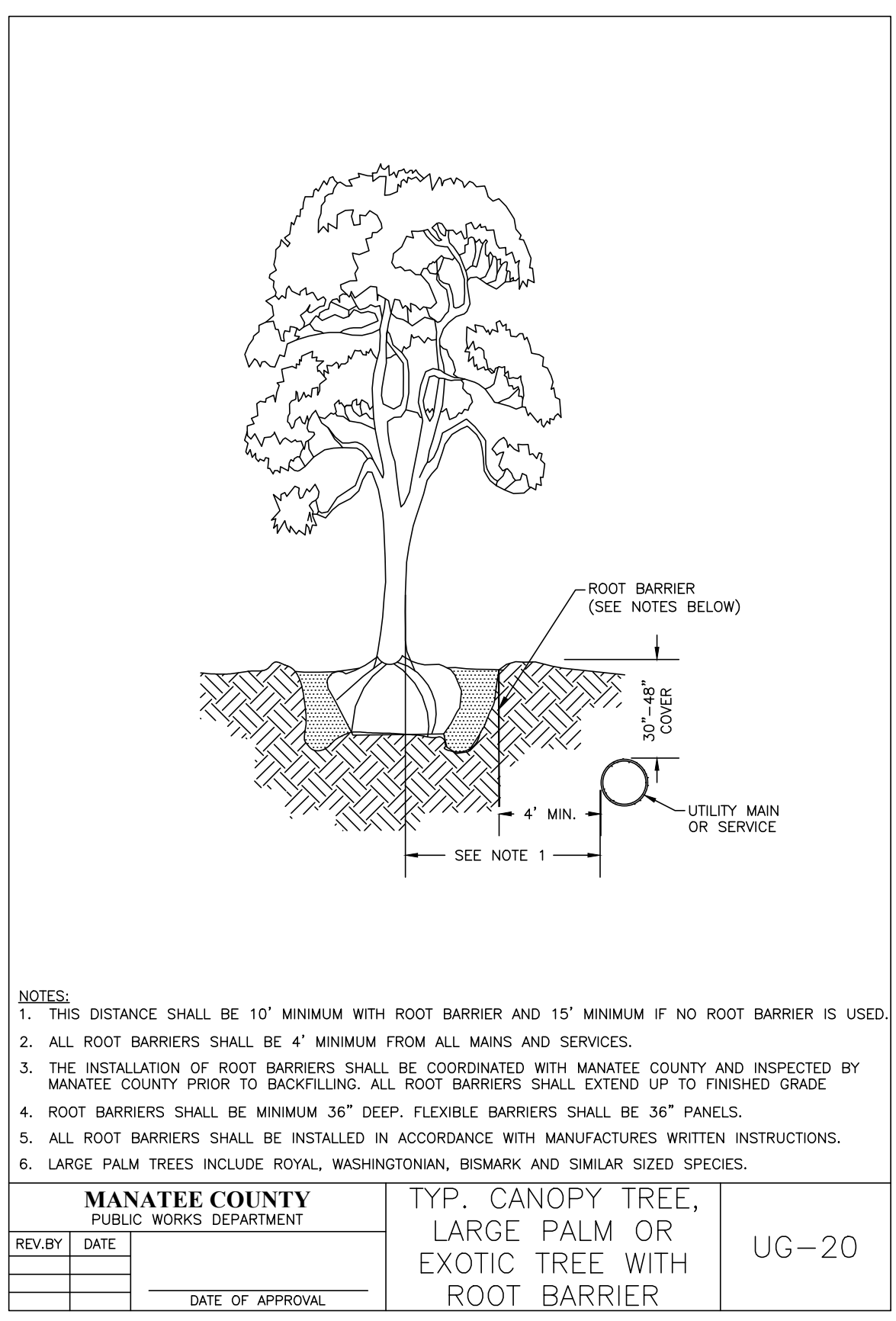
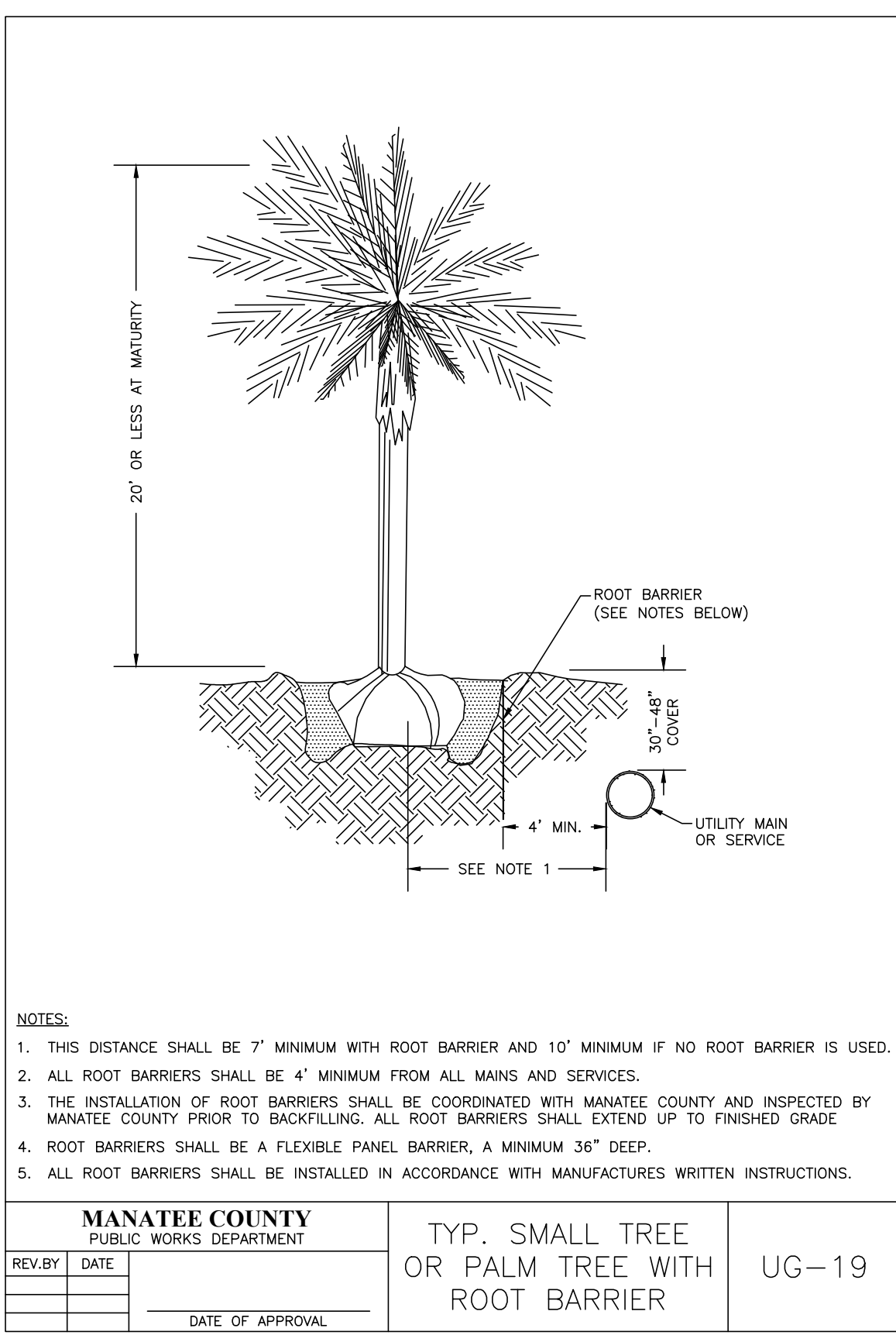
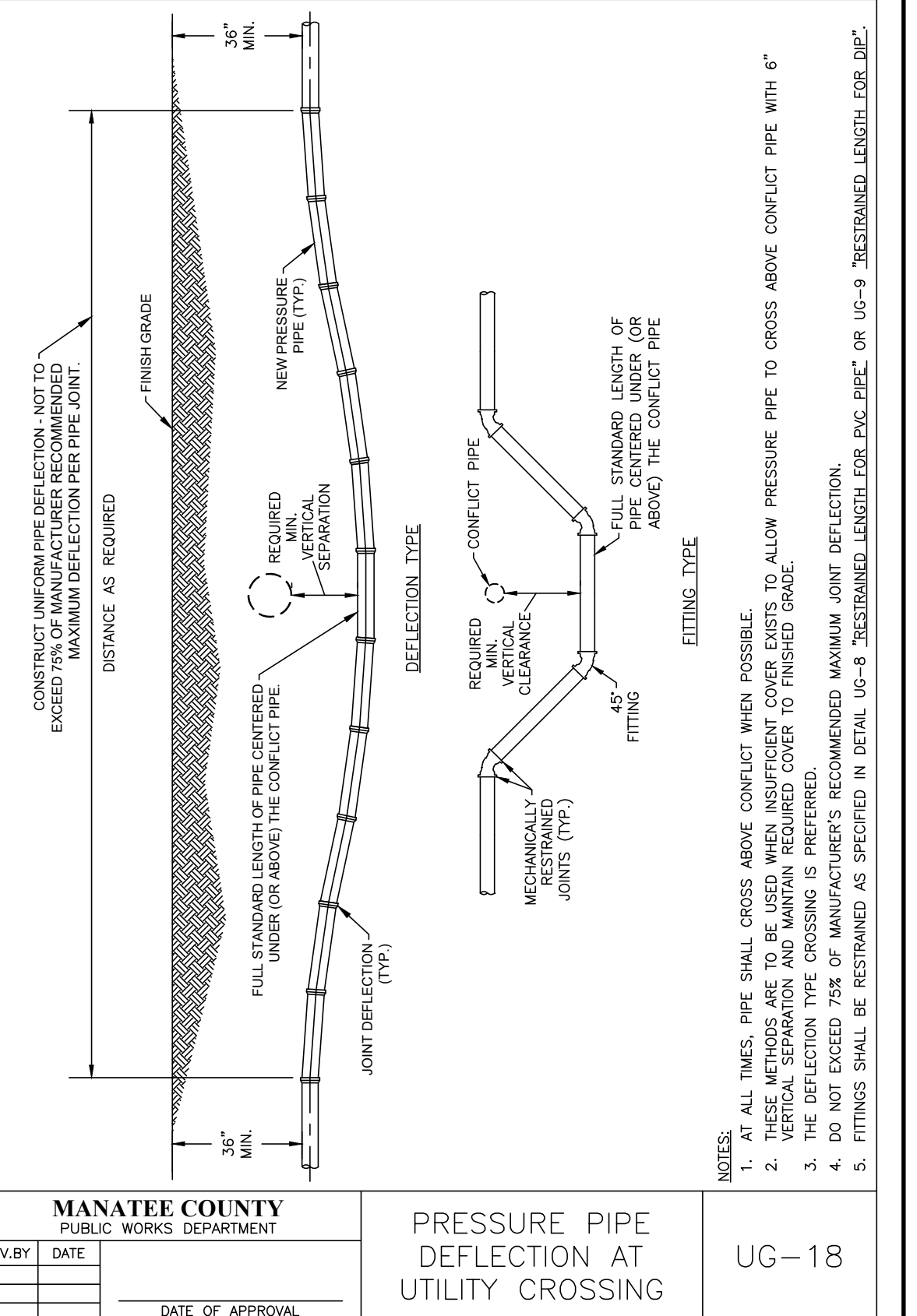
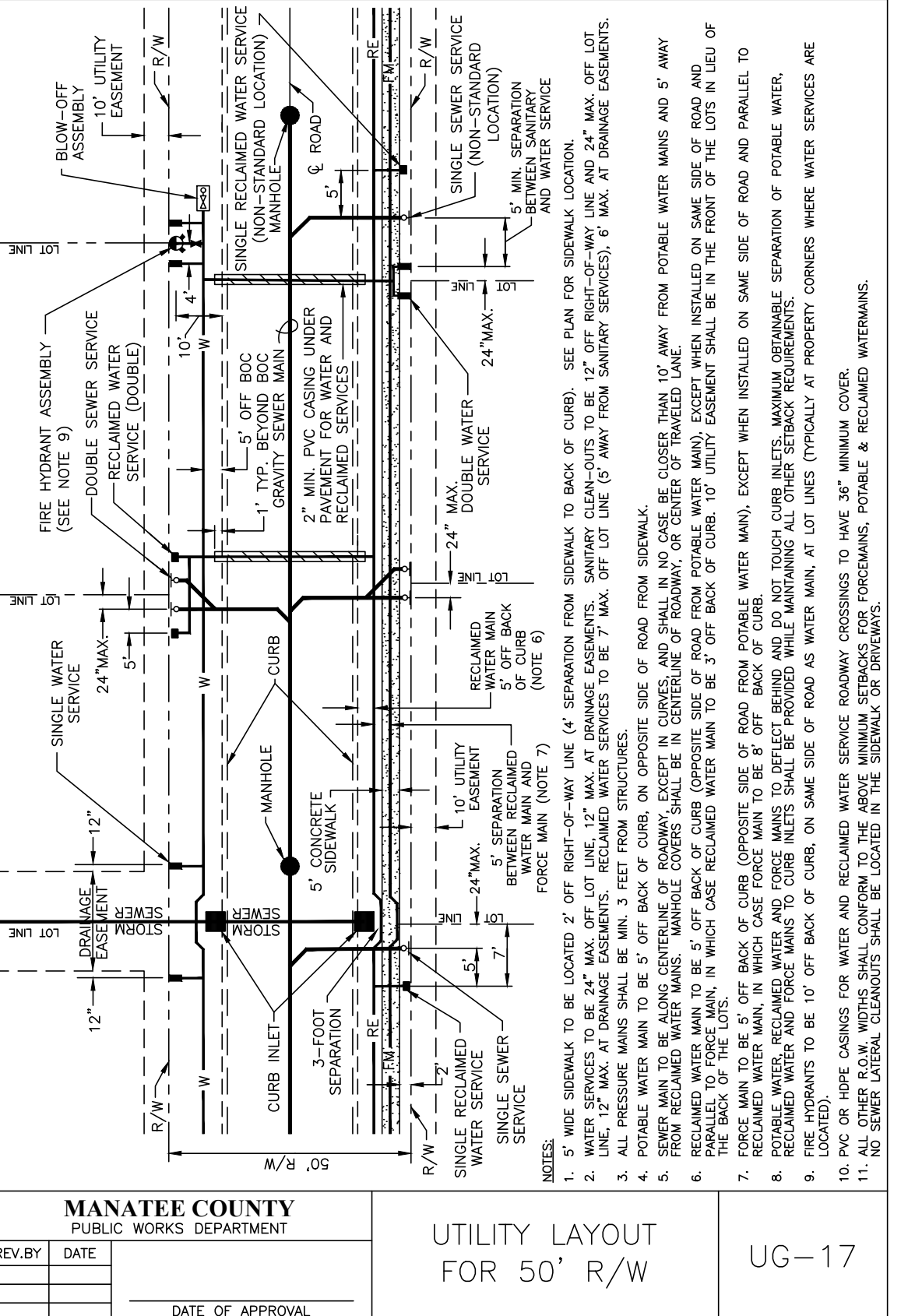
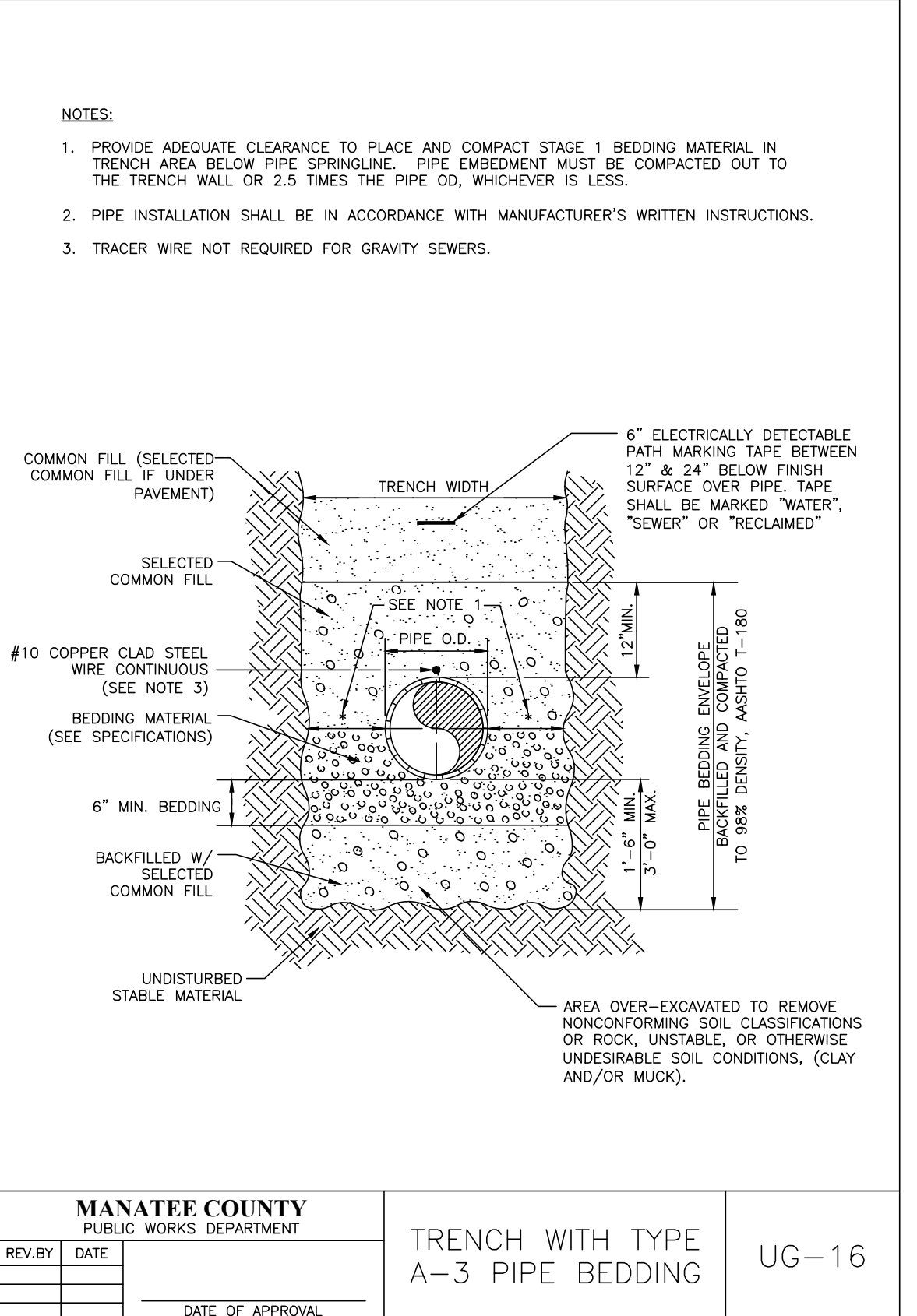
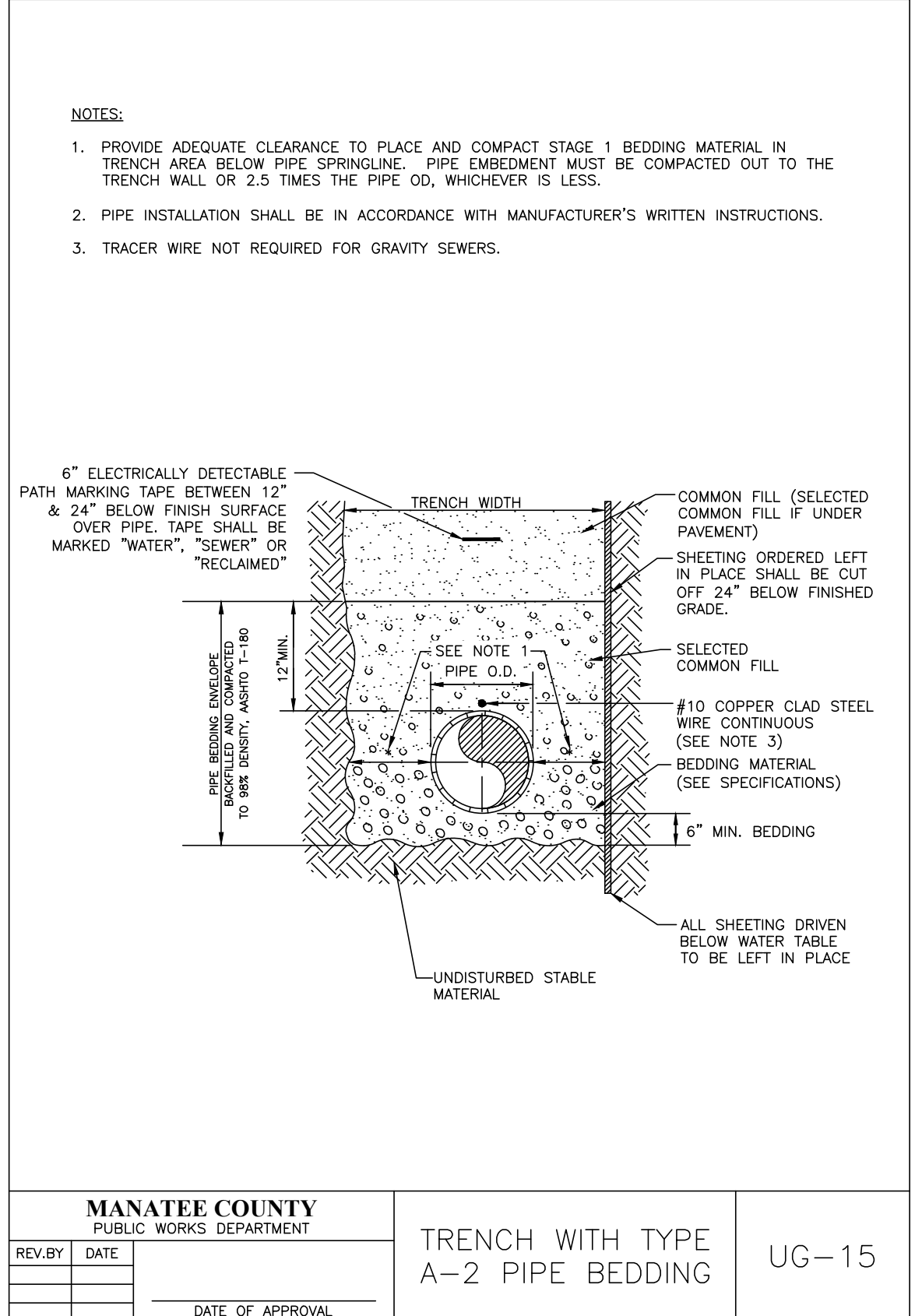
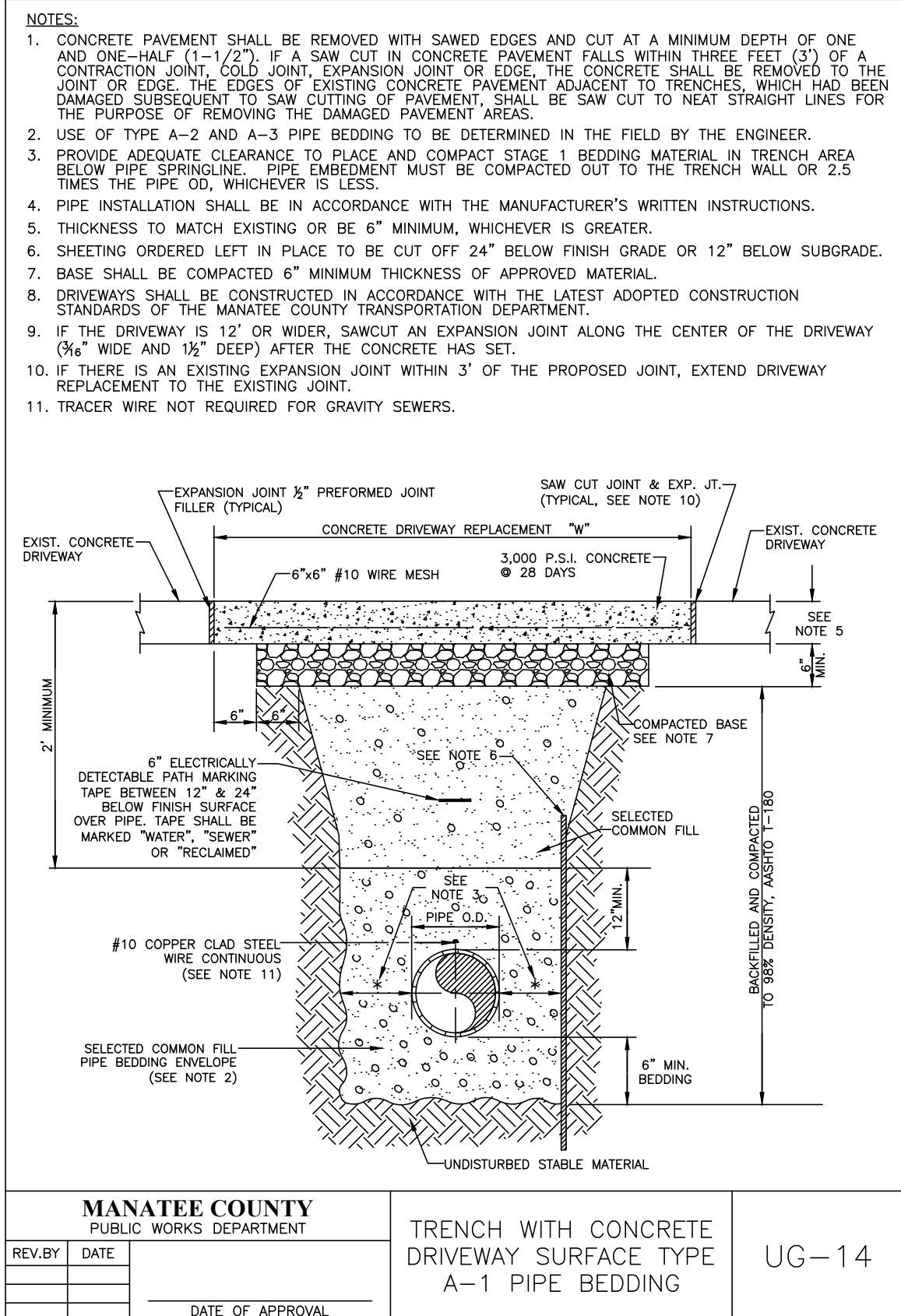


NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT LEMONWOOD AVE STA 24+50 TO 29+75



PROJECT #	404-6030272	J. SHEA SHOUN, P.E.
SURVEY #	WA-3	FLORIDA PROFESSIONAL ENGINEER LICENSE No. 60923
SEC./TWN./RGE	11/35S/17E	DATE 03/21/2023
SCALE	SEE PLAN	
SURVEYED	SURVTECH 05/2020	
DESIGNED	JSS/BLR 06/2020	
DRAWN	BLR/JSS 06/2020	
CHECKED	-	

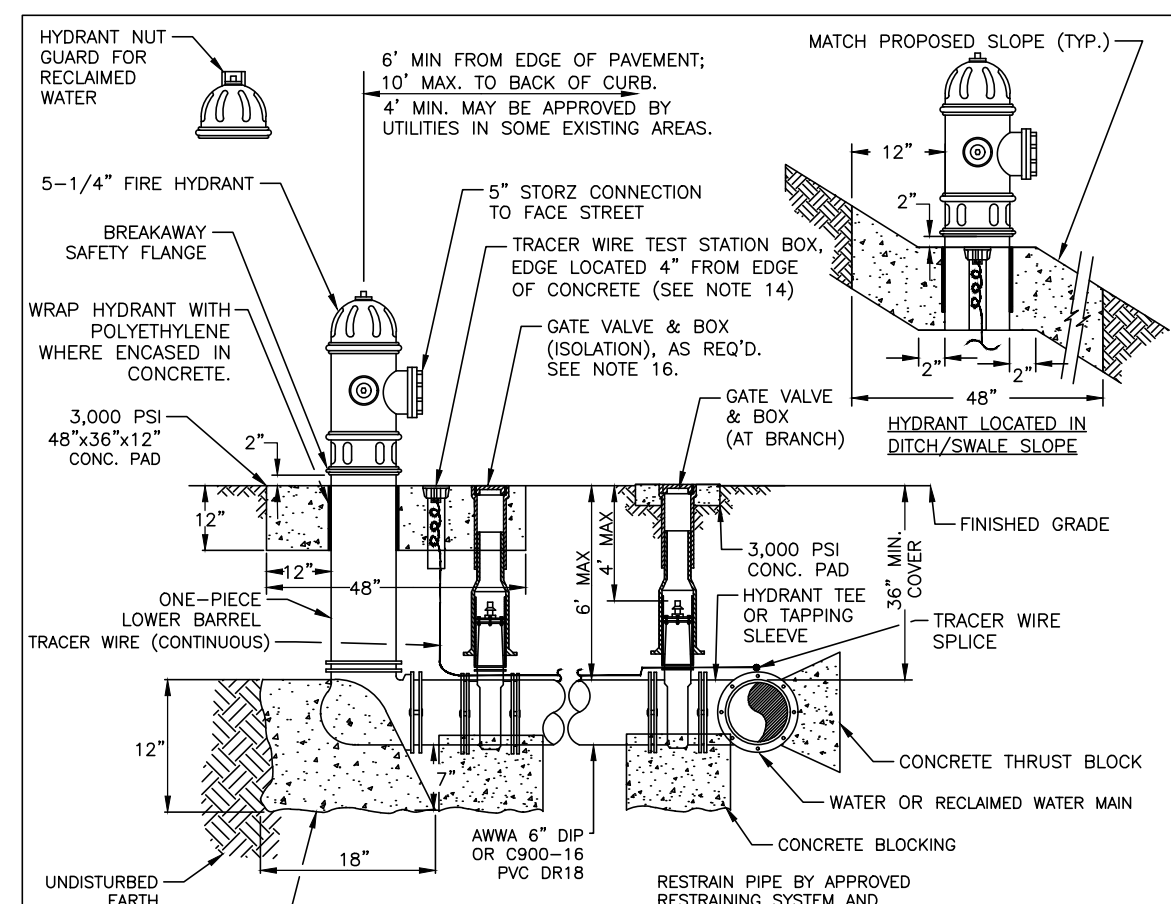


NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT DETAILS

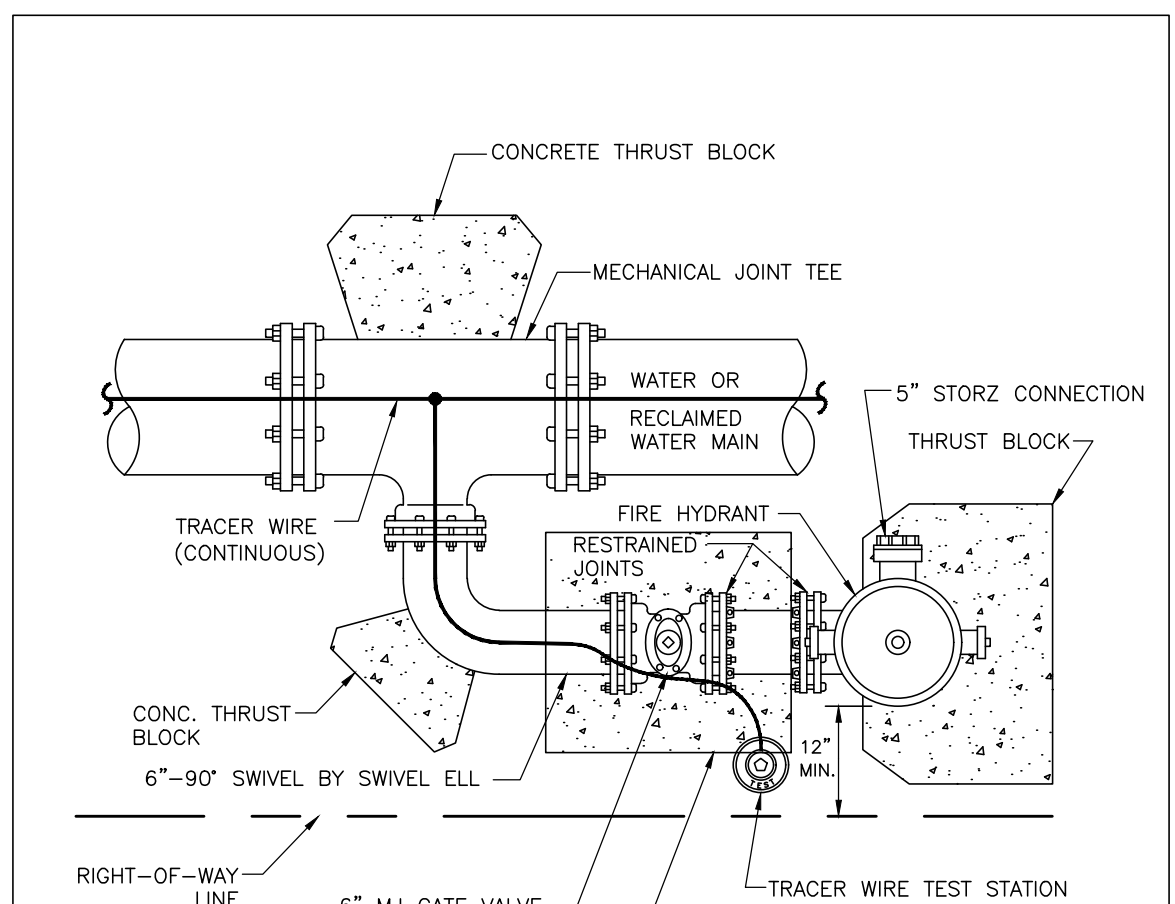


PROJECT #	404-6030272	J. SHEA SHOUN, P.E.
SURVEY #	WA-3	FLORIDA PROFESSIONAL ENGINEER No. 60923
SEC./TWN./RGE	11/35S/17E	STATE OF FLORIDA PROFESSIONAL ENGINEER No. 03/21/2023
SCALE	N.T.S.	Date
SURVEYED	SUR/TECH 05/2020	
DESIGNED	JSS/BLR 06/2020	
DRAWN	BLR/JSS 06/2020	
CHECKED	-	



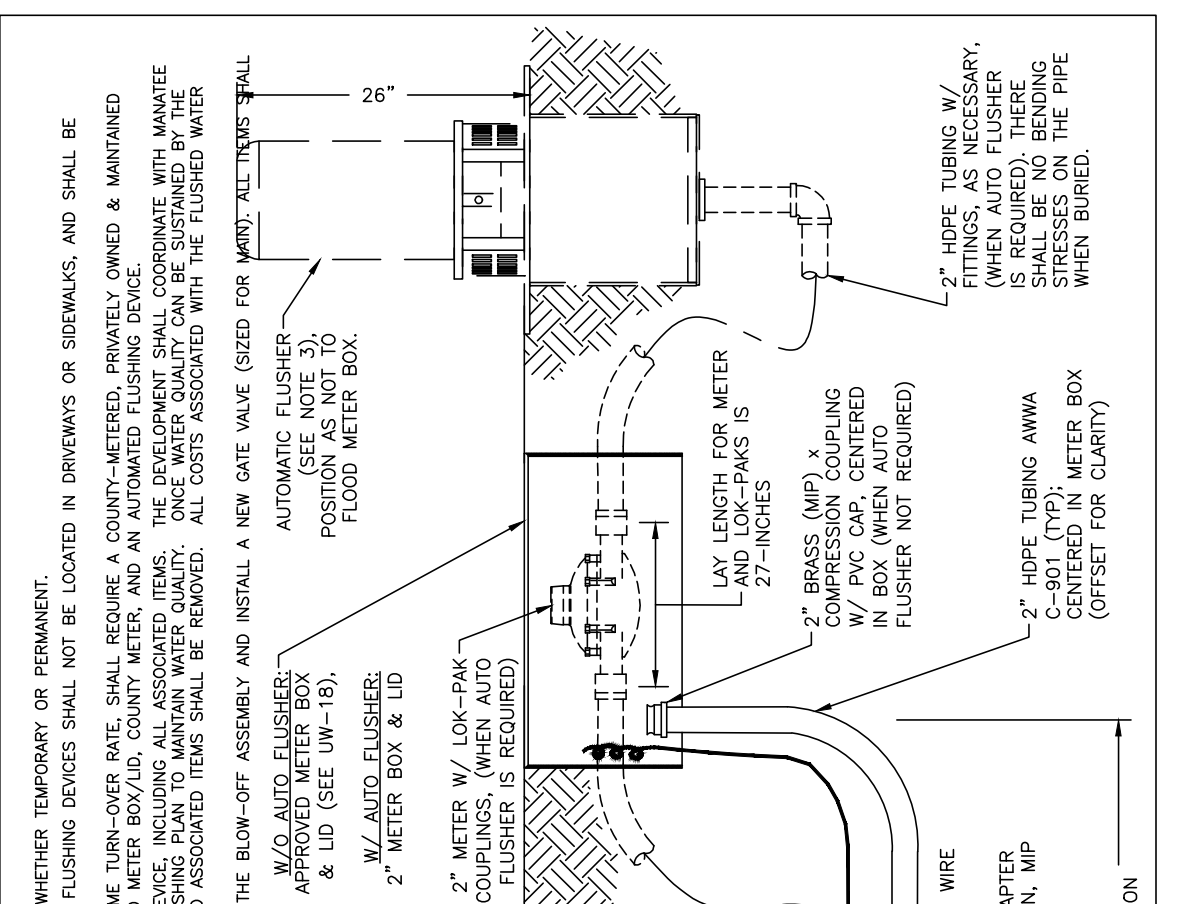
- NOTES:**
- WEEPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
 - FIRE HYDRANTS SHALL BE A MINIMUM OF 6' OFF EDGE OF PAVEMENT AND 10' MAX. FROM BACK OF CURB, WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE.
 - HYDRANT SHALL BE DUCTILE IRON CONSTRUCTION. HYDRANTS SHALL BE FUSION BONDED EPOXY COATED SAFETY YELLOW FOR WATER, PURPLE (PANTONE 522C) FOR RECLAIMED WATER, AND RED FOR PRIVATE.
 - FIRE HYDRANTS SHALL BE PLACED SO THAT STORM WATER FLOWS AWAY FROM THE HYDRANT.
 - FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR ALL WATER LINES.
 - FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADE-LOCK" OFFSET FITTING.
 - RAISED REFLECTIVE PAVEMENT MARKERS(S) (BLUE FOR POTABLE WATER (PURPLE) FOR RECLAIMED WATER SHALL BE INSTALLED ON THE PAVEMENT DIRECTLY ACROSS FROM THE HYDRANT IN ACCORDANCE WITH THE FDOT TRAFFIC ENGINEERING MANUAL, CHAPTER 4, SECTION 4.3 OR MOST CURRENT ADDITION.
 - ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
 - FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
 - MIN. LINE VALVES SHOULD BE LOCATED AT HYDRANT TEES.
 - HYDRANTS SHALL BE LOCATED ON SAME SIDE OF ROAD AS WATER OR RECLAIMED MAIN.
 - THERE MUST BE A CLEARANCE OF 7 1/2 FEET FROM FRONT AND BOTH SIDES, AND FOUR FEET TO THE REAR OF THE HYDRANT TO ABOVE GRADE OBSTRUCTIONS INCLUDING TREES, FENCES, TREES, ETC., PER THE FLORIDA FIRE PREVENTION CODE.
 - SEE STANDARD DETAIL UW-2 GATE VALVE, BOX, LID AND TAG.
 - SHOULD THE FIRE HYDRANT'S CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
 - IF A HYDRANT IS LOCATED ON THE SLOPE OF A DITCH OR SWALE, THE CONCRETE PAD SHALL CONFORM TO THE FINISH GRADE/SLOPE. THE CONCRETE PAD SHALL BE LEVEL 2-INCHES BEHIND & IN FRONT OF THE HYDRANT.
 - AT THE DISCRETION OF THE COUNTY AN ADDITIONAL ISOLATION GATE VALVE SHALL BE ADDED, WHEN A PHYSICAL BARRIER IS PRESENT, (I.E. ROADWAY, FENCE, WALL, BERM ETC.) BETWEEN THE BRANCH GATE VALVE AND THE HYDRANT.
 - SEE SECTION 1.11 HYDRANTS IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT ASSEMBLY	UW-5
REV. BY	DATE		
DATE OF APPROVAL			



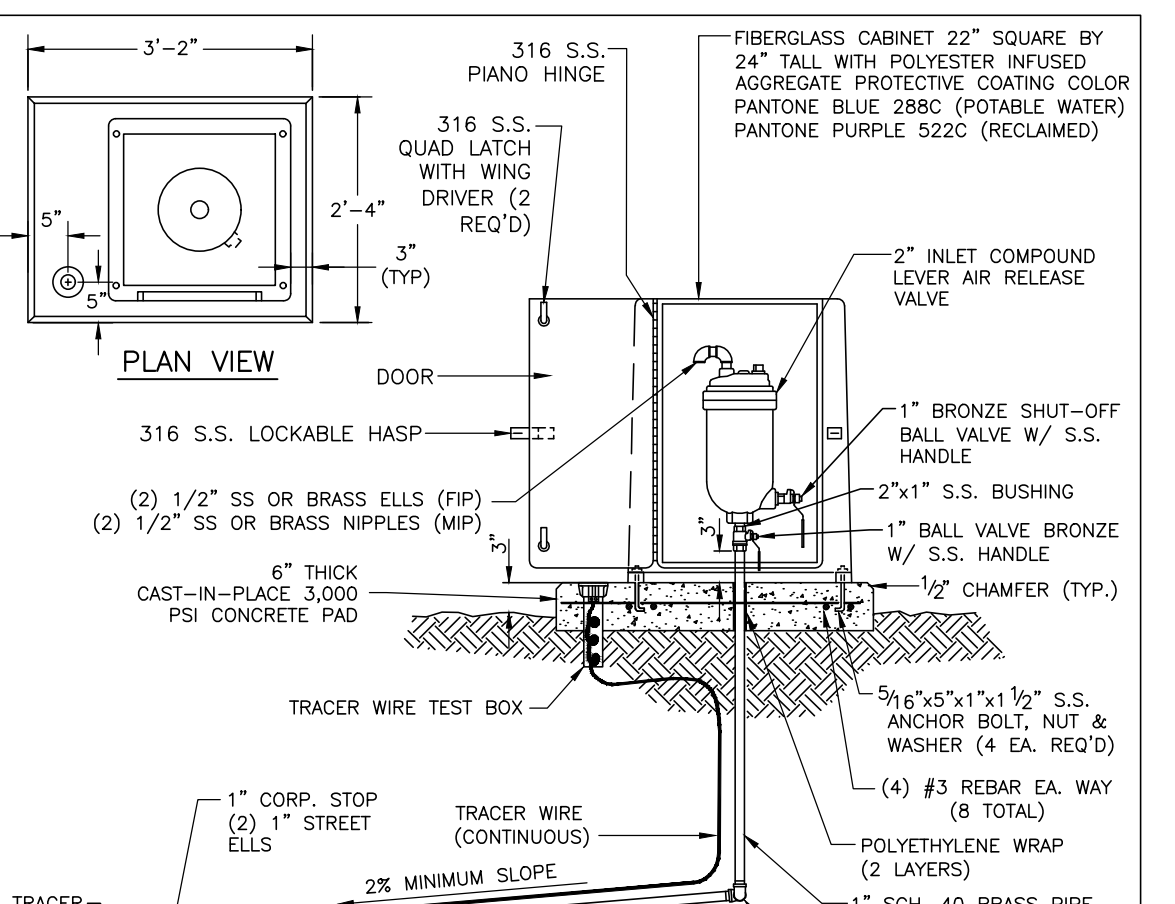
- NOTES:**
- THIS DETAIL FOR USE ONLY WHEN THE WATER MAIN IS LOCATED TOO CLOSE TO THE RIGHT-OF-WAY LINE TO USE THE FIRE HYDRANT ASSEMBLY DETAIL.
 - SEE STANDARD DETAIL UW-2 GATE VALVE, BOX, LID AND TAG.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT WITH LOCKED 90° BEND	UW-7
REV. BY	DATE		
DATE OF APPROVAL			



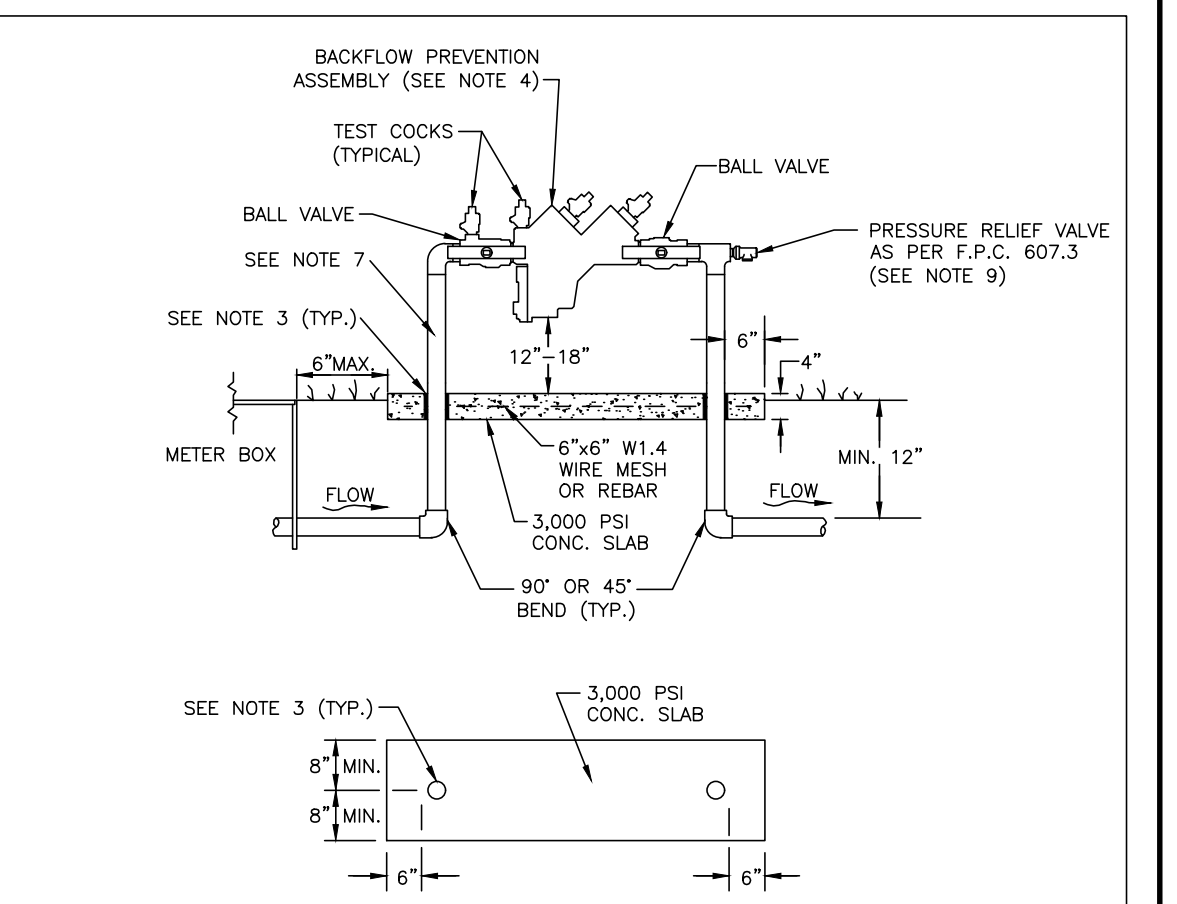
- NOTES:**
- ALL HEAD-END WATER MAINS REQUIRE A BLOW-OFF AT THE END, WHETHER TEMPORARY OR PERMANENT.
 - BLOW-OFF VALVE ASSEMBLIES, METER BOXES, AND/OR AUTOMATED FLUSHING DEVICES SHALL NOT BE LOCATED IN DRIVEWAYS OR SIDEWALKS, AND SHALL BE SET IN DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS, WITH PRIOR APPROVAL BY COUNTY. METER BOXES WITH LOCKABLE LIDS MAY BE LOCATED IN SIDEWALKS.
 - HEAD-END PUBLIC MAINS WITH MORE THAN A 4-BAY VOLUME TURN-OVER RATE, SHALL REQUIRE A COUNTY-OWNED, PRIVATELY OWNED & MAINTAINED AUTOMATIC FLUSHING SYSTEM TO BE INSTALLED WITH AN APPROVED METER BOX/LID, COUNTY METER, AND AN AUTOMATED FLUSHING DEVICE.
 - COUNTY LABORATORY PERSONNEL TO ESTABLISH AN APPROVED FLUSHING PLAN TO MAINTAIN WATER QUALITY. ONE WATER QUALITY CAN BE SUBMITTED BY THE COUNTY LABORATORY PERSONNEL TO THE DEVELOPER. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE DEVELOPMENT, AND ASSOCIATED ITEMS SHALL BE REMOVED. ALL COSTS ASSOCIATED WITH THE FLUSHED WATER SHALL BE RETURNED TO THE COUNTY, UNLESS OTHERWISE NOTED.
 - WHEN EXTENDING A WATER MAIN, REMOVE ALL ITEMS RELATING TO THE BLOW-OFF ASSEMBLY AND INSTALL A NEW GATE VALVE (SIZED FOR MANY ALTERNATE APPROVED METER BOX & LID (SEE UW-16)), PROTECT (SEE NOTE 3), FLOOD METER BOX.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		2" BLOW-OFF ASSEMBLY	UW-8
REV. BY	DATE		
DATE OF APPROVAL			



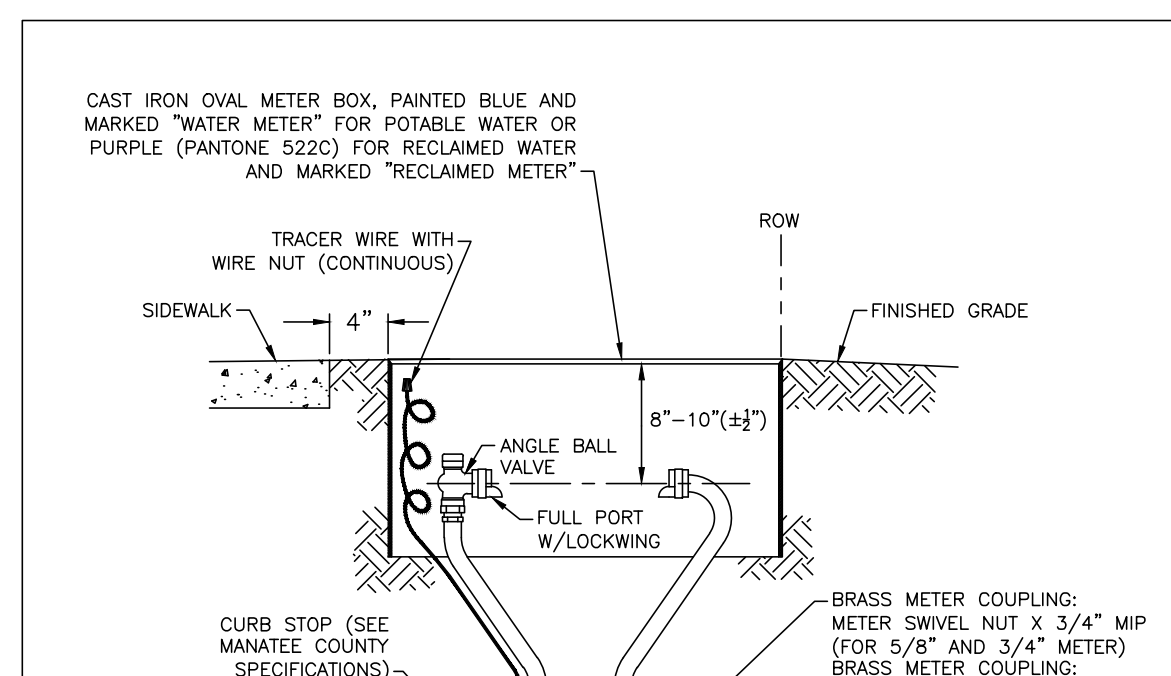
- NOTES:**
- AIR RELEASE VALVES TO BE INSTALLED AT HIGH POINTS ALONG THE CONSTRUCTED MAINS, WHERE AIR COULD BE TRAPPED.
 - ARY VENT ORIFICE TO BE SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION FOR WATER MAIN SIZE.
 - ALL INCIDENTAL FITTINGS AND HARDWARE TO BE STAINLESS STEEL, BRASS OR COPPER.
 - ALL PIPE THREADS TO BE SEALED AIR TIGHT.
 - VENT PIPE TO BE LAID ACCURATELY ON SLOPE, WITHOUT HIGH OR LOW POINTS.
 - ARY SHALL BE INSTALLED MINIMUM 6 FT FROM EDGE OF PAVEMENT; 10 FT MAXIMUM FROM BACK OF CURB; 4 FT MIN. MAY BE APPROVED BY UTILITIES IN SOME EXISTING AREAS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		ABOVE-GROUND AIR RELEASE VALVE ASSY. FOR 12-INCH AND SMALLER WATER MAINS	UW-10
REV. BY	DATE		
DATE OF APPROVAL			



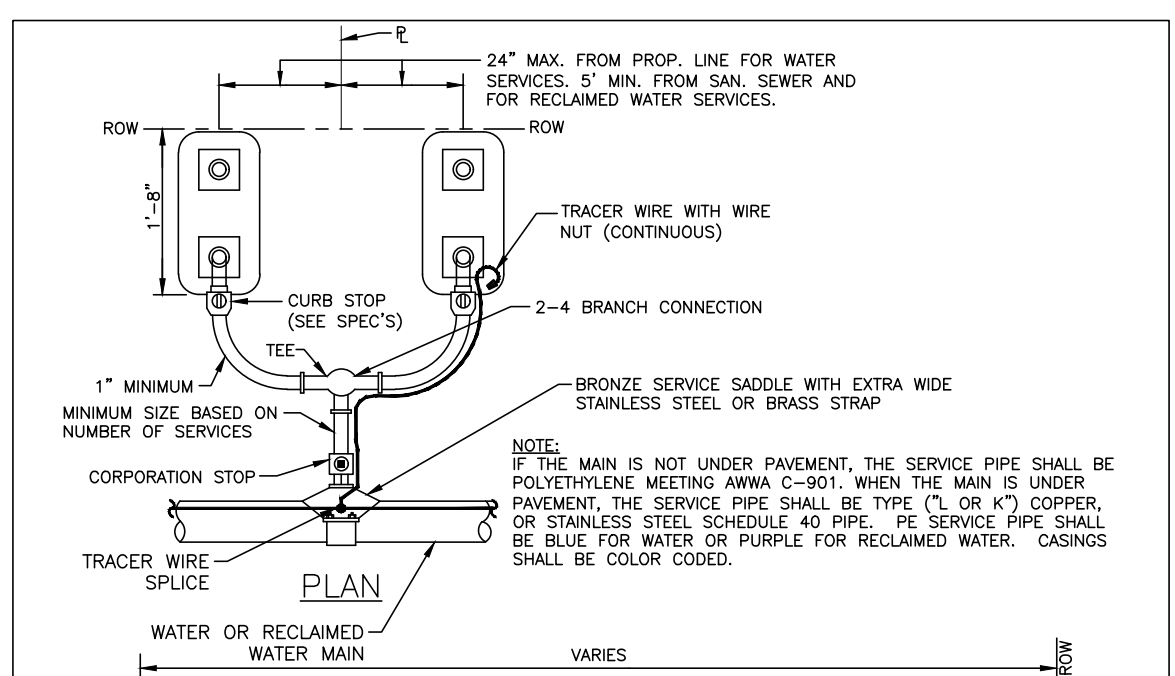
- NOTES:**
- BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED IMMEDIATELY DOWNSTREAM OF METER, AS SHOWN ABOVE.
 - COPPER PIPE TYPE "L" (OR "K") OR BRASS PIPE MINIMUM SCHEDULE 40 SHALL BE USED TO A MINIMUM DEPTH OF 12" BELOW GRADE.
 - PIPES PASSING THROUGH CONCRETE SLAB SHALL BE PROPERLY PROTECTED; POLYETHYLENE 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.
 - IN ADDITION TO THE PRIV. THE BUILDING DEPT. MAY REQUIRE AN APPROVED DEVICE FOR THERMAL EXPANSION CONTROL DOWNSTREAM OF THE ASSEMBLY.
 - FITTINGS AND CONNECTIONS FOR ABOVE-GROUND INSTALLATIONS SHALL NOT ALLOW ANY MOVEMENT OR ROTATION OF BACKFLOW PREVENTION ASSEMBLY.
 - REFER TO DETAIL UW-15 WATER METER & BACKFLOW PREVENTER FOR LIFT STATIONS FOR WATER SERVICE AT SEWAGE PUMPING STATION.
 - 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. 300g-6, AS MAY BE AMENDED, AND IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		3/4" & 1" BACKFLOW PREVENTION ASSEMBLY	UW-13
REV. BY	DATE		
DATE OF APPROVAL			



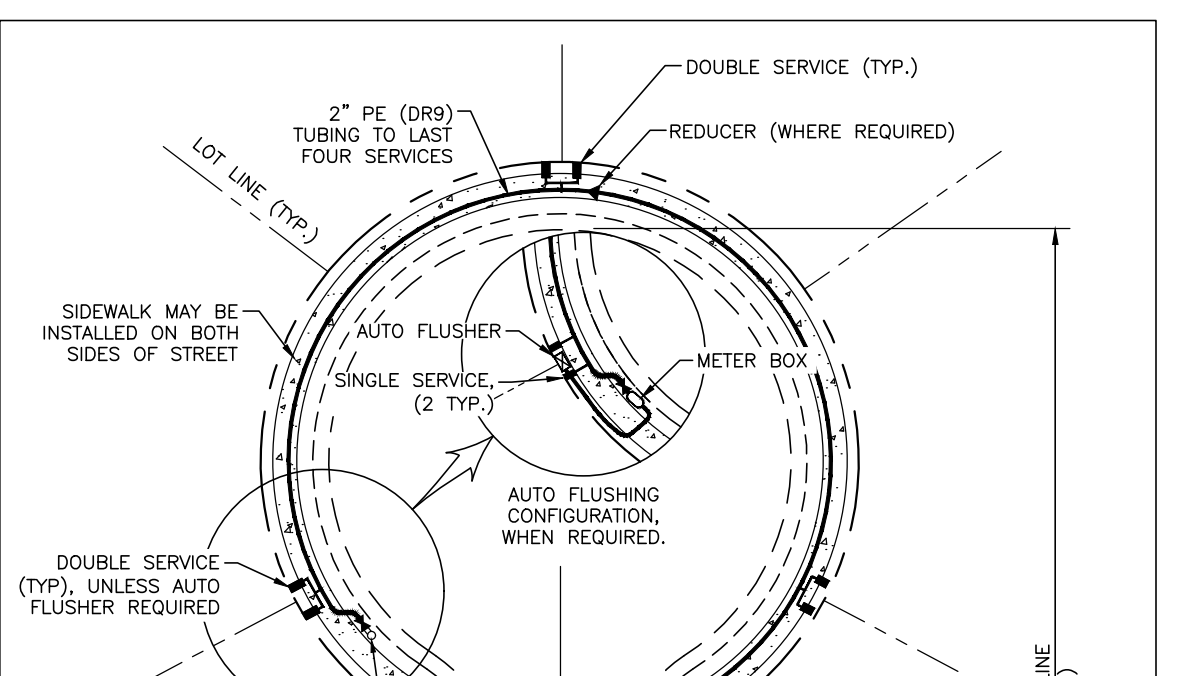
- NOTES:**
- METER BOX AND RESETTER ARE TO BE INSTALLED BY THE INFRASTRUCTURE CONTRACTOR AND SHALL NOT BE SET IN DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS, WITH PRIOR APPROVAL BY COUNTY. METER BOXES WITH LOCKABLE LIDS MAY BE LOCATED IN SIDEWALKS.
 - THE METER RESETTER SHALL BE INSTALLED IN SUCH A MANNER AS TO ALLOW REMOVAL AND REPLACEMENT WITHOUT DISTURBING THE STRUCTURAL INTEGRITY OF THE PIPING SYSTEM, THE SHUTOFF VALVES, OR THE RESETTER.
 - FOR COMPLETE SERVICE CONNECTION ASSEMBLY, SEE DETAIL UW-21 TYPICAL SERVICE CONNECTION.
 - 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 ROW.
 - 3' MINIMUM CLEARANCE FROM LANDSCAPING PLANTS AND 10' MIN. CLEARANCE FROM TREES TO EDGE OF METER. CLEAR ACCESS OPENING TO STREET.
 - SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		METER BOX ASSEMBLY FOR 5/8" x 3/4", 3/4", AND 1" METERS	UW-18
REV. BY	DATE		
DATE OF APPROVAL			



- NOTES:**
- ALL SERVICE TAPS TO BE LOCATED IN THE FIELD. TAPS SHALL BE NO CLOSER THAN 2'-0" STAGGERED INTERVALS OR WITHIN 2'-0" FROM BELL OR SPIGOT ENDS.
 - METER BOXES & RESETTERS TO BE INSTALLED BY THE INFRASTRUCTURE CONTRACTOR AND SHALL NOT BE SET IN DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS, WITH PRIOR APPROVAL BY COUNTY. METER BOXES WITH LOCKABLE LIDS MAY BE LOCATED IN SIDEWALKS.
 - "M" OR "RW" TO BE IMPRESSED INTO THE NEWLY POURED CONCRETE CURB ALONG WITH DISTANCE IN FEET TO THE METER. IF NO CURB, INSTALL A BLUE DISC WITH "M" OR A PURPLE DISC WITH "RW" AND A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE DISTANCE (IN FEET) FROM THE DISC TO THE METER.
 - COLOR CODED TRACER WIRE SHALL BE INSTALLED WITH WATER AND RECLAIMED MAIN AND ALL SERVICES. SERVICE WIRE SHALL BE CONNECTED TO THE TRACER WIRE ALONG THE MAIN, ON DOUBLE SERVICES, WHEN SECOND METER IS OVER 8 FT APART, TWO TRACER WIRES SHALL BE INSTALLED; ONE FOR EACH METER.
 - WATER AND RECLAIMED WATER SERVICE LINES TO BE 5' MINIMUM FROM SEWER SERVICE PIPES.
 - FOR 2" SERVICES REPLACE CORPORATION STOP WITH 2" RESILIENT WEDGE FIP GATE VALVE W/BOX, LID & TAG.
 - WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK AND THE ROW 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 ROW.
 - TEMPORARY RESIDENTIAL USE CAN BE PROVIDED BY CONTACTING THE UTILITY CUSTOMER SERVICE. SEE DETAIL UW-19.
 - SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPICAL SERVICE CONNECTION	UW-21
REV. BY	DATE		
DATE OF APPROVAL			



- NOTES:**
- WHERE RECLAIMED WATER MAIN AND SERVICES ARE TO BE CONSTRUCTED, RECLAIMED MAIN TO BE OPPOSITE SIDE OF ROAD FROM WATER, AND SHALL WRAP AROUND CUL-DE-SAC SIMILAR TO WATER, WITH 3' MIN. SEPARATION TO WATER MAIN, AND 2' MIN. TO B.O.C. AND TO ROW LINE.
 - REFER TO TYPICAL SERVICE CONNECTION DETAIL FOR SERVICE CONNECTIONS.
 - PIPE DIAMETER REDUCTION PAST THE FIRE HYDRANT NOT REQUIRED WHERE WATER MAIN IS LOOPED TO ANOTHER MAIN AT THE CUL-DE-SAC.
 - BLOW-OFF VALVE ASSEMBLIES, METER BOXES, AND/OR AUTOMATED FLUSHING DEVICES SHALL NOT BE LOCATED IN DRIVEWAYS OR SIDEWALKS, AND SHALL BE INSTALLED AS CLOSE TO THE LOT LINES AS POSSIBLE AND FIELD LOCATED WITH COUNTY PERSONNEL.

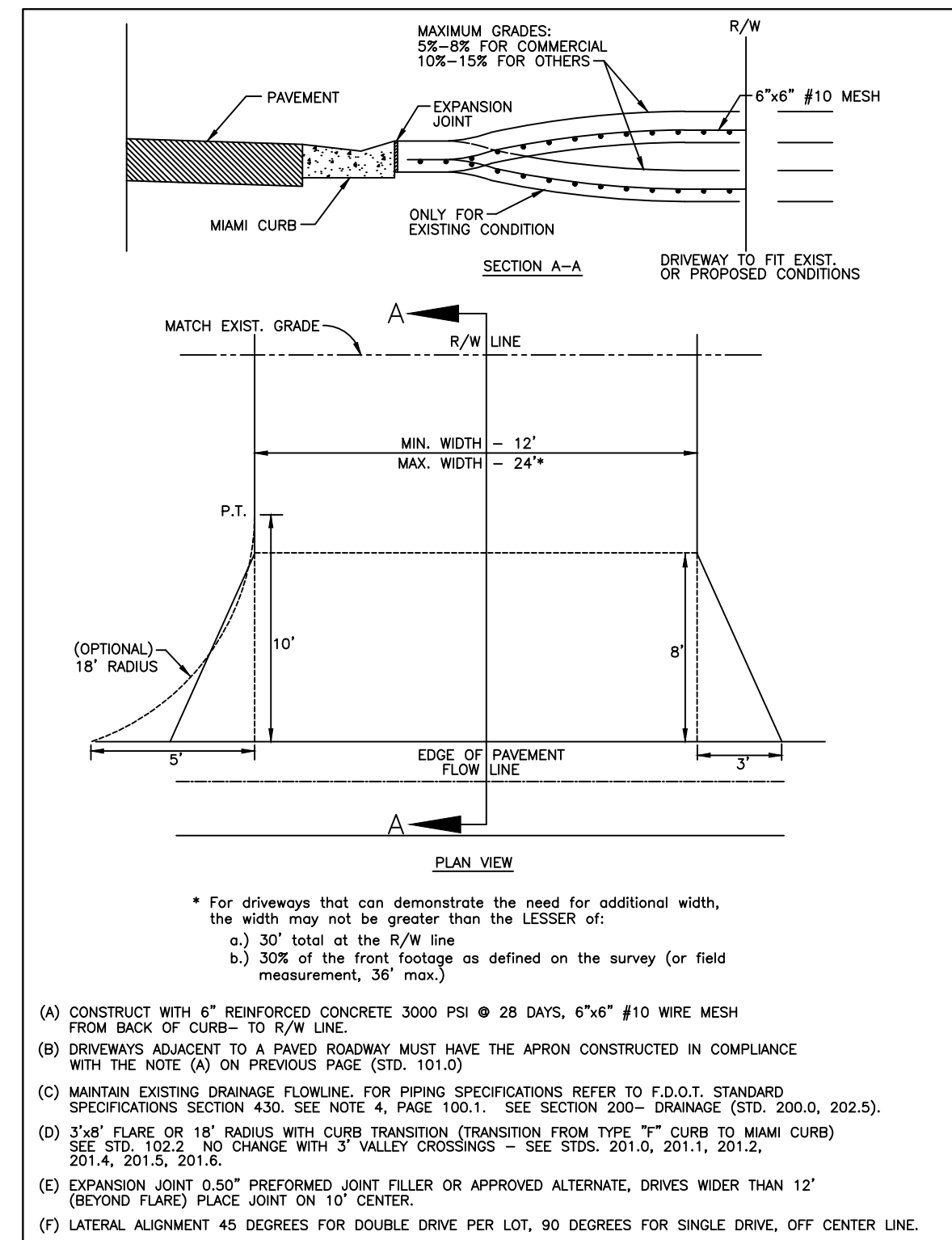
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		CUL-DE-SAC MAINS	UW-22
REV. BY	DATE		
DATE OF APPROVAL			

NO.	REVISION DESCRIPTION	BY	DATE

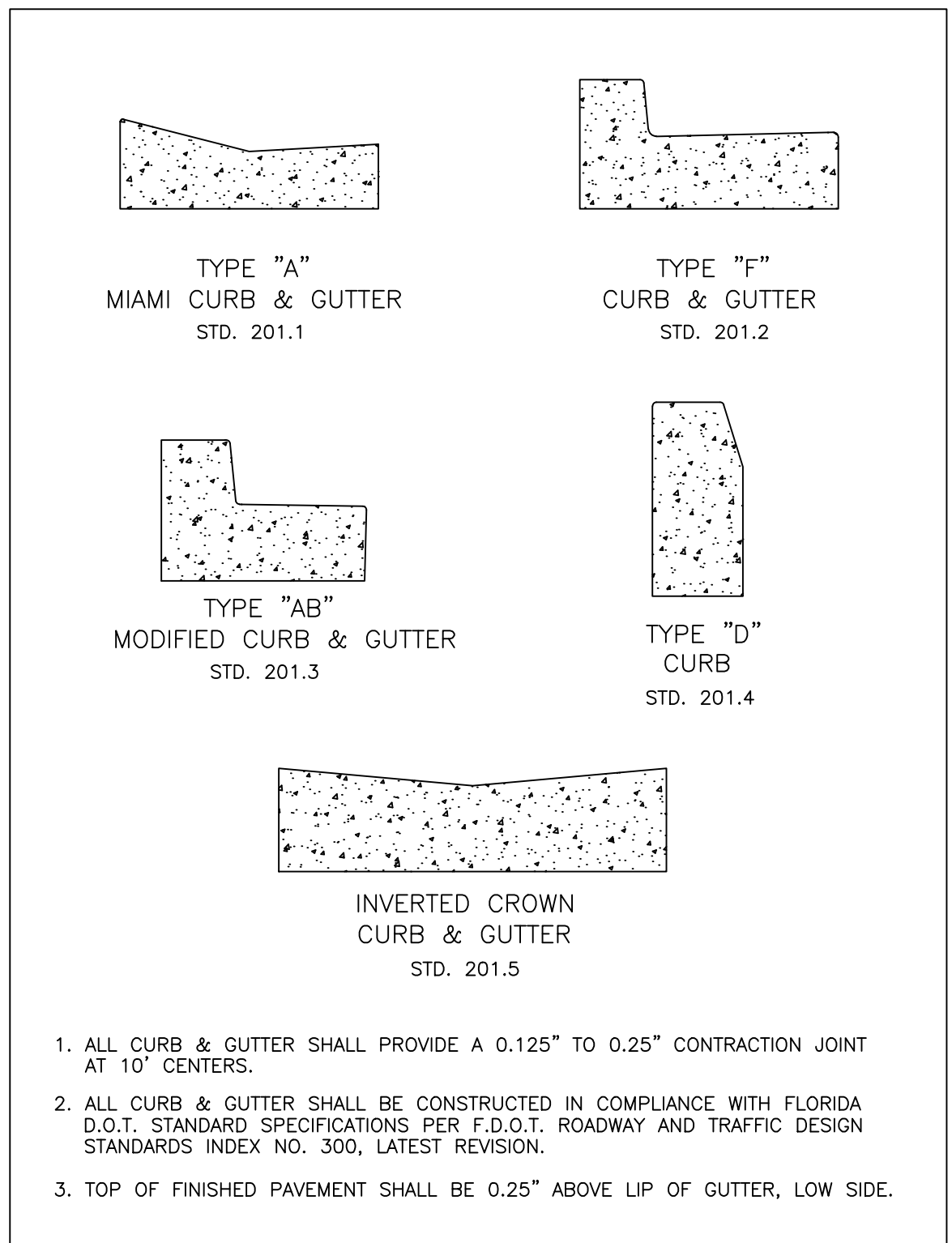
TANGELO PARK WATER MAIN REPLACEMENT DETAILS

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

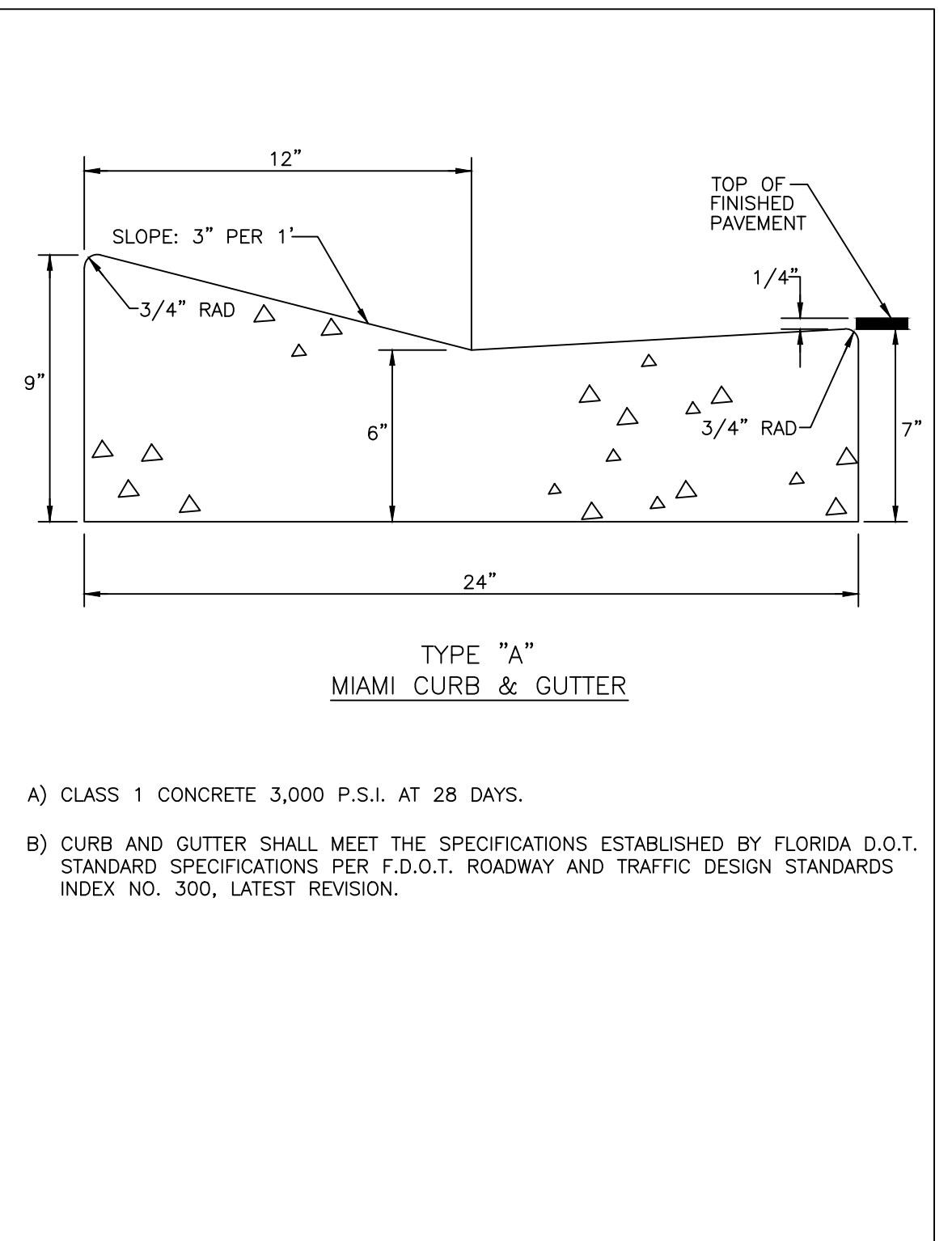
PROJECT #	404-6030272	J. SHEA SHOUN, P.E.
SURVEY #	WA-3	FLORIDA PROFESSIONAL ENGINEER No. 60923
SEC./TWN./RGE	11/35S/17E	03/21/2023
SCALE	N.T.S.	DATE
SURVEYED	SUR/TECH 05/2020	BY
DESIGNED	JSS/BLR 06/2020	DATE
DRAWN	BLR/JSS 06/2020	DATE
CHECKED	-	DATE



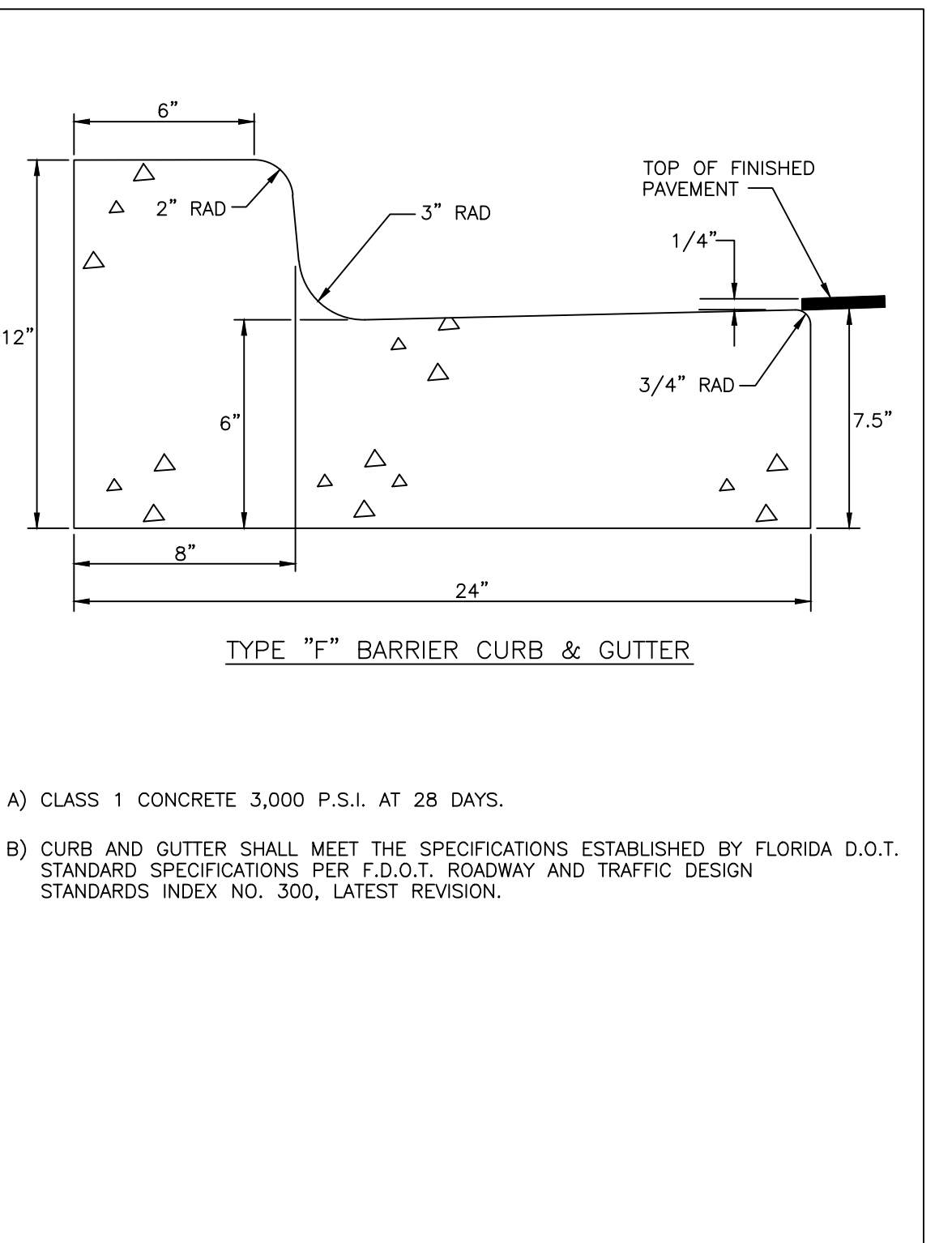
MANATEE COUNTY TRANSPORTATION DEPARTMENT		URBAN DRIVES	101.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



MANATEE COUNTY TRANSPORTATION DEPARTMENT		CURB & GUTTER CONTROL SHEET	201.0
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



MANATEE COUNTY TRANSPORTATION DEPARTMENT		TYPE A MIAMI CURB & GUTTER	201.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



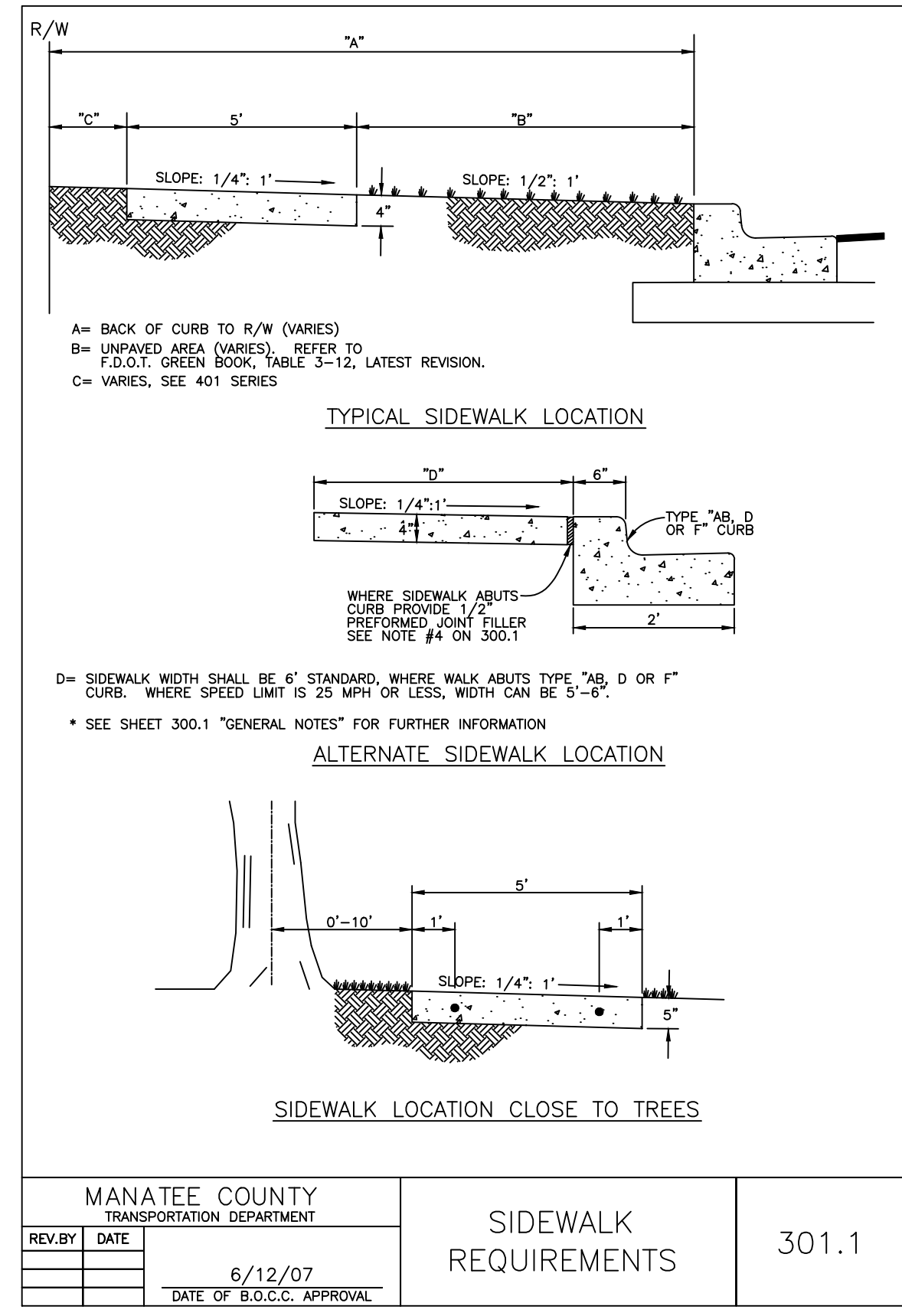
MANATEE COUNTY TRANSPORTATION DEPARTMENT		TYPE F CURB & GUTTER	201.2
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

GENERAL NOTES

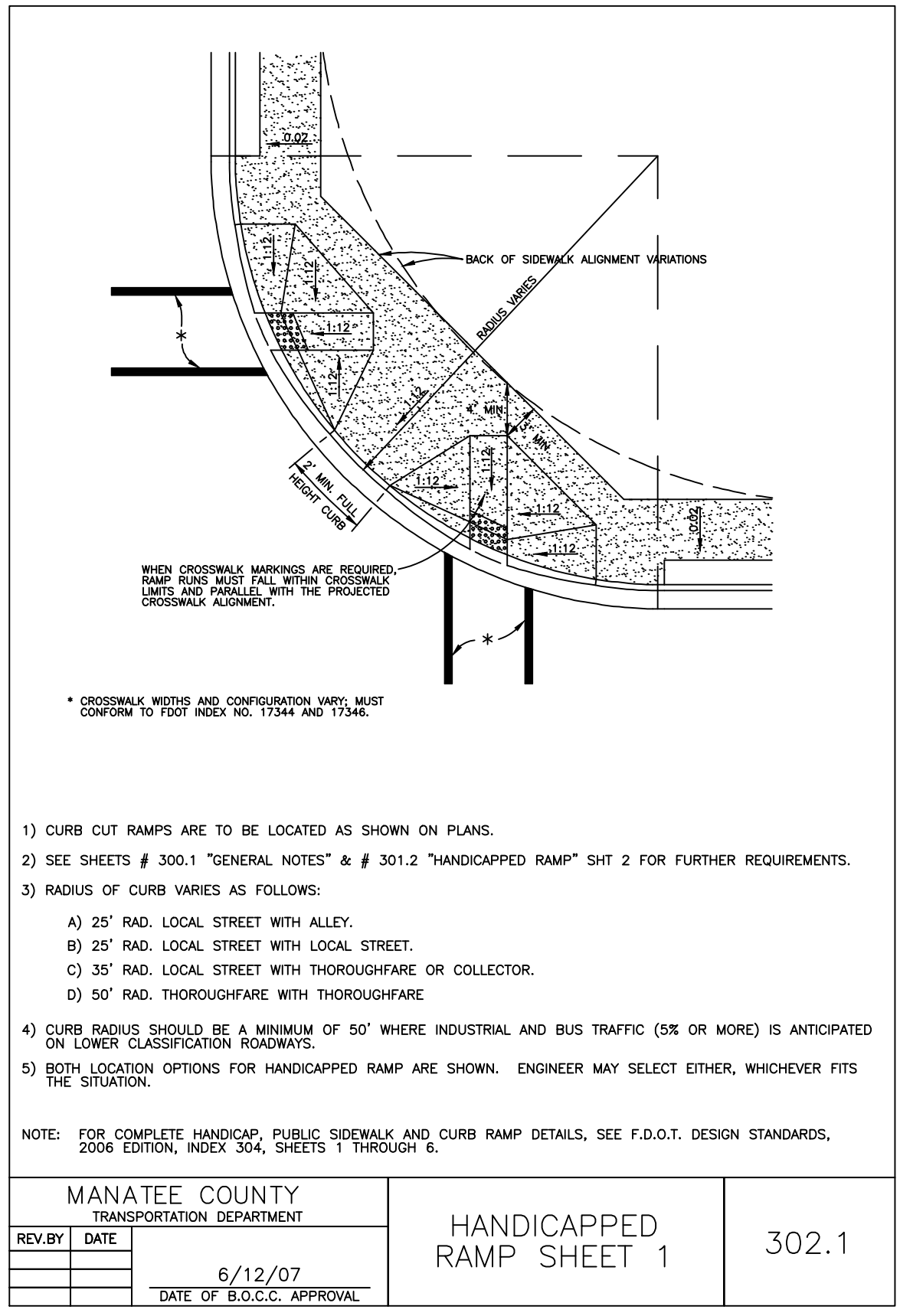
- SIDEWALK SHALL BE CONSTRUCTED A MINIMUM OF 4" THICK, USING 3000 PSI CONCRETE. WHERE SIDEWALK BISECTS A DRIVEWAY, THE MINIMUM SHALL BE 6" OF CLASS 1 CONCRETE REINFORCED WITH 6"x6" #10 WIRE MESH.
* SEE SHEETS #101.2 & 101.3.
- ALL SIDEWALKS SHALL BE CONSTRUCTED TO THE SPECIFICATIONS OF THE MANATEE COUNTY LAND DEVELOPMENT CODE, SECTION 722. A MINIMUM (5) FOOT WIDE SIDEWALK SHALL BE INSTALLED ALONG THE NORTH AND WEST SIDES OF ALL NEW LOCAL STREETS WHICH ARE CONSTRUCTED IN CONJUNCTION WITH A NEW RESIDENTIAL DEVELOPMENT. A SIDEWALK A MINIMUM OF (5) FEET IN WIDTH SHALL BE INSTALLED ON BOTH SIDES OF ALL THOROUGHFARES. REFER TO F.D.O.T. ROADWAY AND TRAFFIC STANDARDS, LATEST REVISION FOR CURB CUT RAMP SPECIFICATIONS.
- THE CONCRETE SHALL BE GIVEN A BROOM FINISH, THE SURFACE VARIATIONS SHALL NOT BE MORE THAN 1/4" UNDER A TEN FOOT STRAIGHTEDGE, NOR MORE THAN 1/8" ON A FIVE-FOOT TRAVERSE SECTION. THE EDGE OF THE SIDEWALK SHALL BE CAREFULLY FINISHED WITH AN EDGING TOOL HAVING A RADIUS OF 1/2".
- EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE SIDEWALKS AND THE CURB OR DRIVEWAY OR AT FIXED OBJECTS AND SIDEWALK INTERSECTIONS SHALL BE 1/2" MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213. FOR LONG FLOORS, AN EXPANSION JOINT SHALL BE PLACED AT INTERVALS NOT TO EXCEED 120'.
- CONTRACTION JOINTS:
OPEN TYPE JOINTS
OPEN TYPE CONTRACTION JOINTS SHALL BE FORMED BY STAKING A METAL BULKHEAD IN PLACE AND DEPOSITING THE CONCRETE ON BOTH SIDES. AFTER THE CONCRETE HAS SET SUFFICIENTLY TO PRESERVE THE WIDTH AND THE SHAPE OF THE JOINT, THE BULKHEAD SHALL BE REMOVED. AFTER THE SIDEWALK HAS BEEN FINISHED OVER THE JOINT, THE SLOT SHALL BE FINISHED WITH A TOOL HAVING A 1/2" RADIUS.
SAWED JOINTS
A SLOT APPROXIMATELY 3/16" WIDE AND NOT LESS THAN 1" DEEP AT 10' CENTERS SHALL BE CUT WITH A CONCRETE SAW AFTER THE CONCRETE HAS SET.
- SIDEWALKS ALONG OTHER STREETS SHALL BE CONSTRUCTED AND DEDICATED AS REQUIRED BY THE APPROVING AUTHORITY WHEN NECESSARY TO CONTINUE AN EXISTING OR PROPOSED SIDEWALK.
- HANDICAP RAMPS SHALL MEET FLORIDA ACCESSIBILITIES STANDARDS, AND SECTIONS 301.0, 301.1 AND 301.2.
- ALL SIDEWALKS ON R/W WITHIN 10' OF AN EXISTING OR PROPOSED TREE THAT WILL EXCEED 6" IN DIAMETER AT MATURITY SHALL BE 5" THICK AND CONTAIN 2-#3 REBAR CENTERED VERTICALLY AND SPACED 3' ON CENTER. PALMS ARE NOT CONSIDERED TREES.

*NOTE: FOR COMPLETE SIDEWALK DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6 AND INDEX 310, SHEETS 1 & 2.

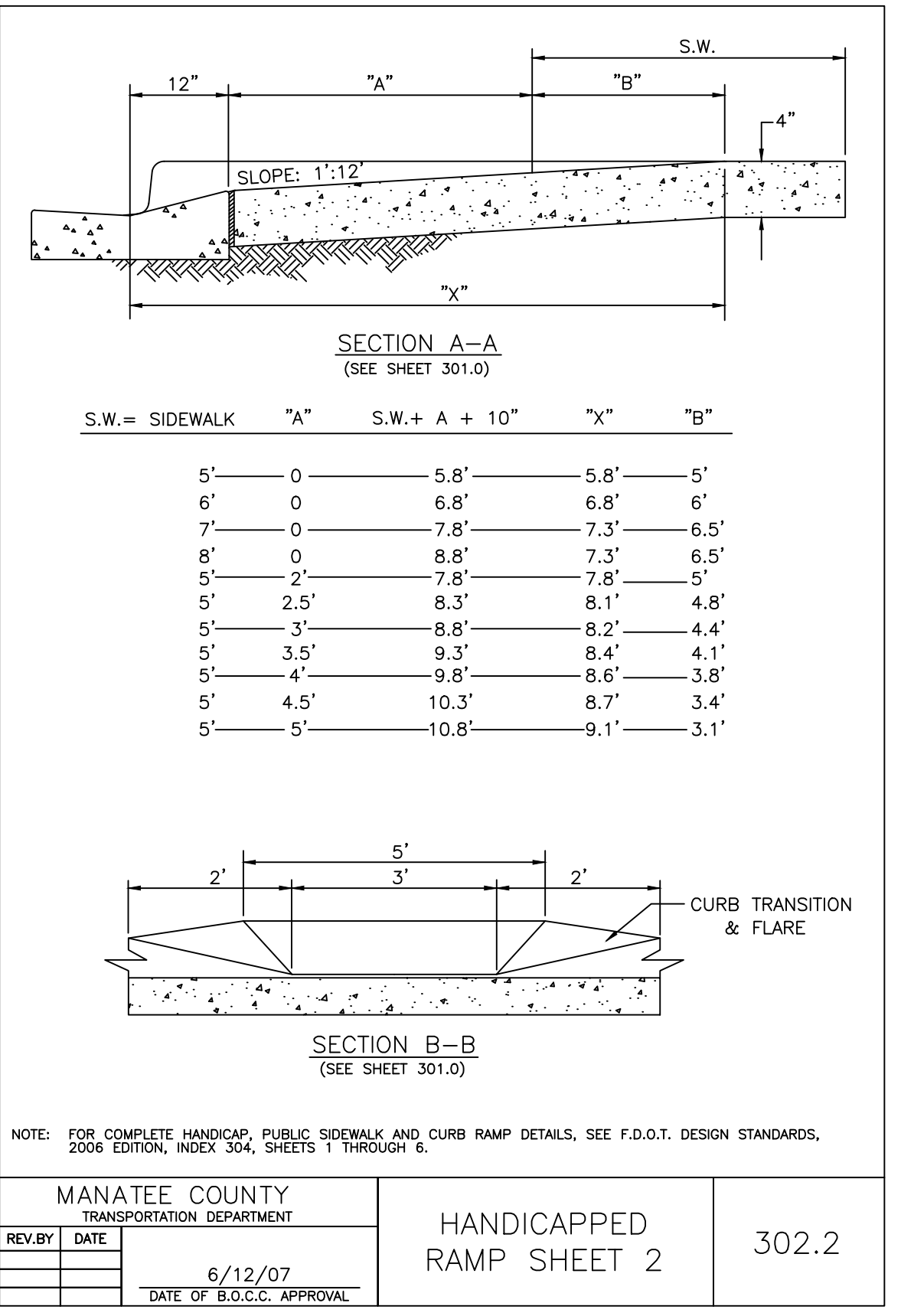
MANATEE COUNTY TRANSPORTATION DEPARTMENT		SIDEWALKS GENERAL NOTES	301.0
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



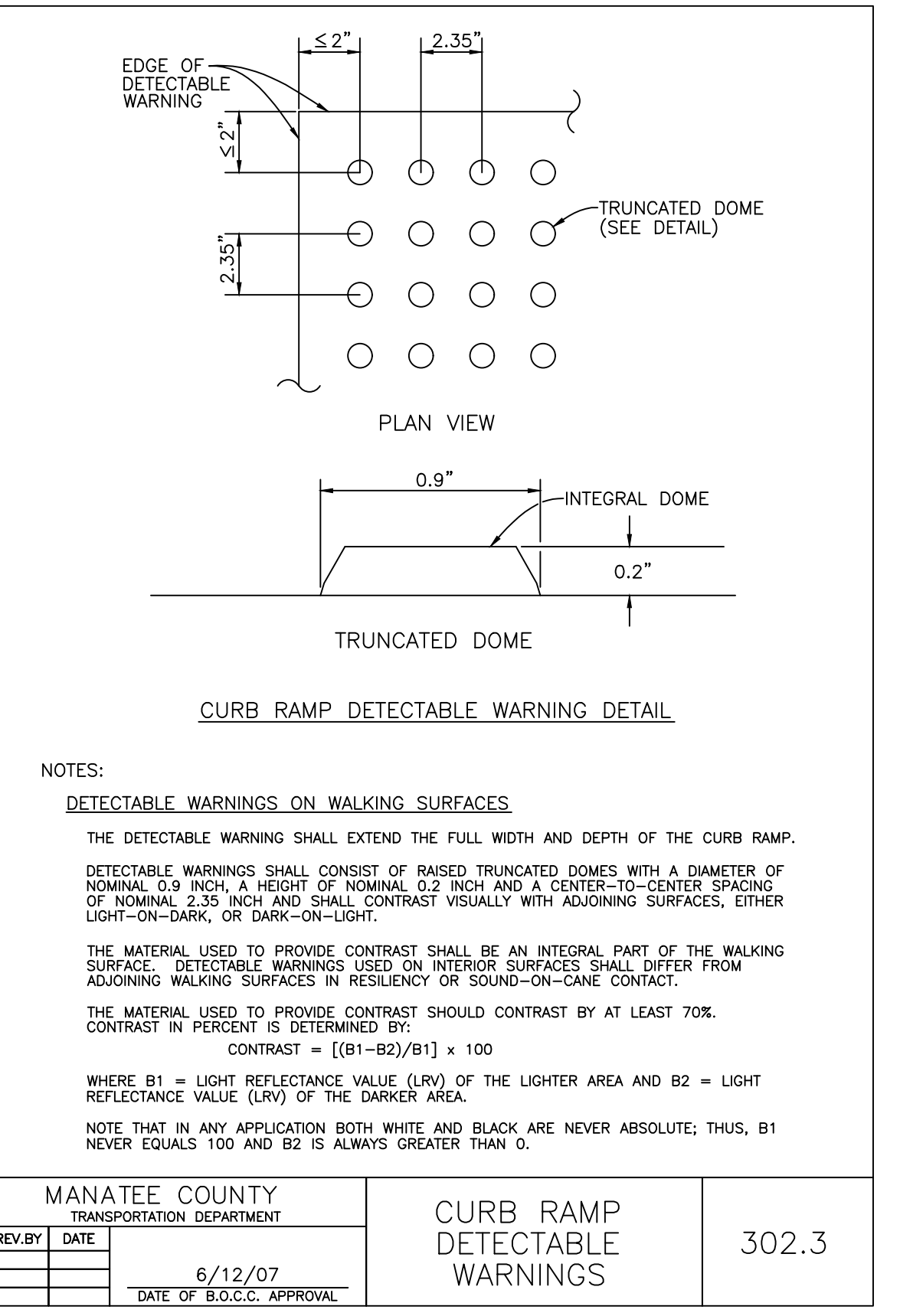
MANATEE COUNTY TRANSPORTATION DEPARTMENT		SIDEWALK REQUIREMENTS	301.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



MANATEE COUNTY TRANSPORTATION DEPARTMENT		HANDICAPPED RAMP SHEET 1	302.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



MANATEE COUNTY TRANSPORTATION DEPARTMENT		HANDICAPPED RAMP SHEET 2	302.2
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



MANATEE COUNTY TRANSPORTATION DEPARTMENT		CURB RAMP DETECTABLE WARNINGS	302.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT DETAILS



PROJECT #	404-6030272	J. SHEA SHOUN, P.E.
SURVEY #	WA-3	FLORIDA PROFESSIONAL ENGINEER No. 60923
SEC./TWN./RGE	11/35S/17E	DATE: 03/21/2023
SCALE	N.T.S.	DATE
SURVEYED	SUR/TECH 05/2020	DATE
DESIGNED	JSS/BLR 06/2020	DATE
DRAWN	BLR/JSS 06/2020	DATE
CHECKED	-	DATE

I:\Projects\2023\Tangelo Park\Drawings\Tangelo Park_Cover_Notes_Details\DWG\34_3/27/2023_731 AM Shea Shoun, P.E. ANS (full sheet) (34x07 x 22.00 inches), MC-2018-518

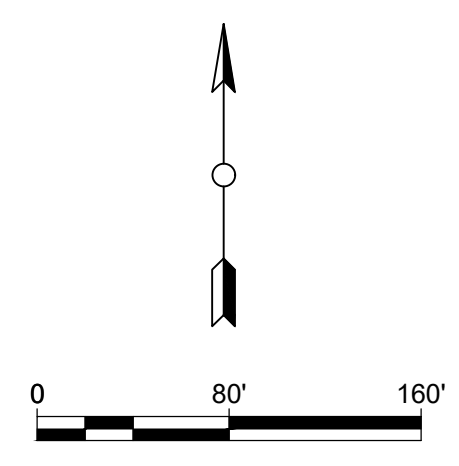
TANGELO PARK BACKFLOW PREVENTION ASSEMBLY NEED ASSESSMENT SURVEY RESULTS									
NUMBER	STRTFF	"FLOOD ZONE"	"BACK FLOW PREVENTION ASSEMBLY CONDITIONS"	"BPA REQUIRED"	"TYPE REQUIRED"	NUMBER OF METERS	NUMBER OF BPA'S REQUIRED	NUMBER OF EXISTING BPA'S	EXISTING ROME 1910 METER BDX
4504	9TH ST W	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4506	9TH ST W	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4508	9TH ST W	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4510	9TH ST W	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4512	9TH ST W	AE, X	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4514	9TH ST W	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4516	9TH ST W	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
902	FRUITLAND AVE	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
903	FRUITLAND AVE	AE	POOL, FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	NO
904	FRUITLAND AVE	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
905	FRUITLAND AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
906	FRUITLAND AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
907	FRUITLAND AVE	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	YES
908	FRUITLAND AVE	AE, X	POOL, FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	UNKNOWN
1000	FRUITLAND AVE	AE, X	PARTIAL FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	NO
1001	FRUITLAND AVE	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	YES
1002	FRUITLAND AVE	AE	FLOOD ZONE	YES	DC	1	1	0	NO
1003	FRUITLAND AVE	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	NO
1004	FRUITLAND AVE	AE	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	NO
1005	FRUITLAND AVE	AE	FLOOD ZONE	YES	DC	1	1	0	NO
1101	FRUITLAND AVE	AE	FLOOD ZONE	YES	DC	1	1	0	NO
1102	FRUITLAND AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
1103	FRUITLAND AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
1104	FRUITLAND AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
1105	FRUITLAND AVE	AE	POOL, FLOOD ZONE	YES	RP	1	1	0	UNKNOWN
4502	GROVELAND ST	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4503	GROVELAND ST	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4506	GROVELAND ST	AE	FLOOD ZONE	YES	DC	1	1	0	YES
4507	GROVELAND ST	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	NO
4510	GROVELAND ST	AE	FLOOD ZONE	YES	DC	1	1	0	YES
4511	GROVELAND ST	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	NO
4514	GROVELAND ST	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4515	GROVELAND ST	AE, X	PARTIAL FLOOD ZONE / IRRIGATION	YES	RP	1	1	0	UNKNOWN
4518	GROVELAND ST	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4519	GROVELAND ST	AE, X	PARTIAL FLOOD ZONE / IRRIGATION	YES	RP	1	1	0	UNKNOWN
4522	GROVELAND ST	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4523	GROVELAND ST	AE, X	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4526	GROVELAND ST	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4527	GROVELAND ST	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4530	GROVELAND ST	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
903	LEMONWOOD AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
904	LEMONWOOD AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
905	LEMONWOOD AVE	AE	POOL, FLOOD ZONE	YES	RP	1	1	0	UNKNOWN
906	LEMONWOOD AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
907	LEMONWOOD AVE	AE	POOL, FLOOD ZONE	YES	RP	1	1	0	YES
908	LEMONWOOD AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
909	LEMONWOOD AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
1001	LEMONWOOD AVE	AE, X	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
1002	LEMONWOOD AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
1003	LEMONWOOD AVE	AE, X	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
1004	LEMONWOOD AVE	AE	SOLAR, POOL, FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	NO
1005	LEMONWOOD AVE	AE	POOL, FLOOD ZONE	YES	RP	1	1	0	UNKNOWN
1006	LEMONWOOD AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
1101	LEMONWOOD AVE	AE, X	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
1102	LEMONWOOD AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
1103	LEMONWOOD AVE	AE, X	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
1104	LEMONWOOD AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
1105	LEMONWOOD AVE	AE, X	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	YES
751	MELODY LN	AE	FLOOD ZONE	YES	DC	1	1	0	YES
752	MELODY LN	AE	SOLAR, FLOOD ZONE	YES	RP	1	1	0	NO
754	MELODY LN	AE	SOLAR, FLOOD ZONE	YES	RP	1	1	0	YES
755	MELODY LN	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
756	MELODY LN	AE	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	NO

NOTES:

1. THIS INFORMATION IS A LIST OF BACKFLOW PREVENTION ASSEMBLIES (BPA) REQUIRED IN THE PROJECT AREA AND WAS COLLECTED BY THE MANATEE COUNTY CROSS CONNECTION DEPT. PERSONNEL.
2. THIS INFORMATION WAS USED TO EVALUATE AND ILLUSTRATE WHICH PROPERTIES ARE TO RECEIVE A NEW BPA PER THIS PROJECT.
3. THE CONTRACTORS PLUMBERS SHALL UTILIZE THIS LIST TO VERIFY ALL PROPERTIES THAT ARE TO HAVE A NEW BPA INSTALLED.

757	MELODY LN	AE	FLOOD ZONE	YES	DC	1	1	0	YES
763	MELODY LN	AE	FLOOD ZONE	YES	DC	1	1	0	NO
801	MELODY LN	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	NO
803	MELODY LN	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	NO
805	MELODY LN	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	YES
807	MELODY LN	AE, X	PARTIAL FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	YES
4500	MINDELA ST	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	YES
4501	MINDELA ST	AE, X	PARTIAL FLOOD ZONE, ON WATER	YES	RP	1	1	0	UNKNOWN
4503	MINDELA ST	AE, X	PARTIAL FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4504	MINDELA ST	AE, X	PARTIAL FLOOD ZONE	YES	DC	1	1	0	YES
4505	MINDELA ST	AE, X	PARTIAL FLOOD ZONE, ON WATER	YES	RP	1	1	0	UNKNOWN
4508	MINDELA ST	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4509	MINDELA ST	AE, X	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4512	MINDELA ST	AE	FLOOD ZONE	YES	DC	1	1	0	NO
4513	MINDELA ST	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4516	MINDELA ST	AE	FLOOD ZONE	YES	DC	1	1	0	YES
4517	MINDELA ST	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	UNKNOWN
4520	MINDELA ST	AE	FLOOD ZONE	YES	DC	1	1	0	YES
4521	MINDELA ST	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
802	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
804	ORLANDO AVE	AE	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	UNKNOWN
805	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
806	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
807	ORLANDO AVE	AE	FLOOD ZONE, HOT TUB	YES	RP	1	1	0	YES
808	ORLANDO AVE	AE	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	UNKNOWN
810	ORLANDO AVE	AE	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	UNKNOWN
902	ORLANDO AVE	AE	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	UNKNOWN
904	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
906	ORLANDO AVE	AE	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	UNKNOWN
908	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
910	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	1	YES
1101	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
1103	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
1104	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
1105	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
1202	ORLANDO AVE	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
1203	ORLANDO AVE	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	NO
1204	ORLANDO AVE	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
1302	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
905	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
907	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
909	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	NO
1001	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
1002	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
1003	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
1004	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
1005	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
1102	ORLANDO AVE	AE	FLOOD ZONE	YES	DC	1	1	0	YES
4602	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4603	ORLANDO CIR	AE	FLOOD ZONE	YES	DC	1	1	0	YES
4604	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4606	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4608	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4610	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4612	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4614	ORLANDO CIR	AE	FLOOD ZONE, ON WATER, IRRIGATION	YES	RP	1	1	0	YES
4616	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4617	ORLANDO CIR	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4618	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4620	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	1	YES
4622	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	YES
4624	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	NO
4626	ORLANDO CIR	AE	FLOOD ZONE, ON WATER	YES	RP	1	1	0	NO
4627	ORLANDO CIR	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4628	ORLANDO CIR	AE	FLOOD ZONE	YES	DC	1	1	0	NO
4630	ORLANDO CIR	AE	FLOOD ZONE	YES	DC	1	1	0	YES

4631	ORLANDO CIR	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4632	ORLANDO CIR	AE, X	FLOOD ZONE	YES	DC	1	1	0	NO
4633	ORLANDO CIR	AE	FLOOD ZONE	YES	DC	1	1	0	NO
4634	ORLANDO CIR	AE, X	POOL, FLOOD ZONE	YES	RP	1	1	0	YES
4635	ORLANDO CIR	AE, X	FLOOD ZONE	YES	DC	1	1	0	NO
4636	ORLANDO CIR	AE, X	FLOOD ZONE	YES	DC	1	1	0	YES
4637	ORLANDO CIR	AE, X	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4638	ORLANDO CIR	AE, X	FLOOD ZONE	YES	DC	1	1	0	YES
4639	ORLANDO CIR	AE, X	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4640	ORLANDO CIR	AE, X	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	NO
4641	ORLANDO CIR	AE, X	FLOOD ZONE	YES	DC	1	1	0	NO
4642	ORLANDO CIR	AE, X	FLOOD ZONE	YES	DC	1	1	0	NO
4643	ORLANDO CIR	AE	FLOOD ZONE	YES	DC	1	1	0	UNKNOWN
4644	ORLANDO CIR	AE, X	FLOOD ZONE	YES	DC	1	1	0	NO
4645	ORLANDO CIR	AE	FLOOD ZONE	YES	DC	1	1	0	YES
4646	ORLANDO CIR	AE, X	FLOOD ZONE	YES	DC	1	1	0	YES
4648	ORLANDO CIR	AE, X	POOL, FLOOD ZONE, SOLAR, IRRIGATION	YES	RP	1	1	0	NO
4650	ORLANDO CIR	AE, X	POOL, FLOOD ZONE, SOLAR	YES	RP	1	1	1	NO
4651	ORLANDO CIR	AE	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	YES
4652	ORLANDO CIR	AE, X	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	YES
4653	ORLANDO CIR	AE	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	YES
4654	ORLANDO CIR	AE, X	FLOOD ZONE, IRRIGATION	YES	RP	1	1	1	YES
4656	ORLANDO CIR	AE, X	FLOOD ZONE	YES	DC	1	1	0	NO
4658	ORLANDO CIR	AE, X	FLOOD ZONE, POOL	YES	RP	1	1	0	YES
4660	ORLANDO CIR	AE, X	FLOOD ZONE, IRRIGATION	YES	RP	2	2	1	YES
4662	ORLANDO CIR	AE, X	FLOOD ZONE, POOL	YES	RP	1	1	0	NO
4670	ORLANDO CIR	AE	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	NO
4672	ORLANDO CIR	AE	FLOOD ZONE, IRRIGATION	YES	RP	1	1	0	

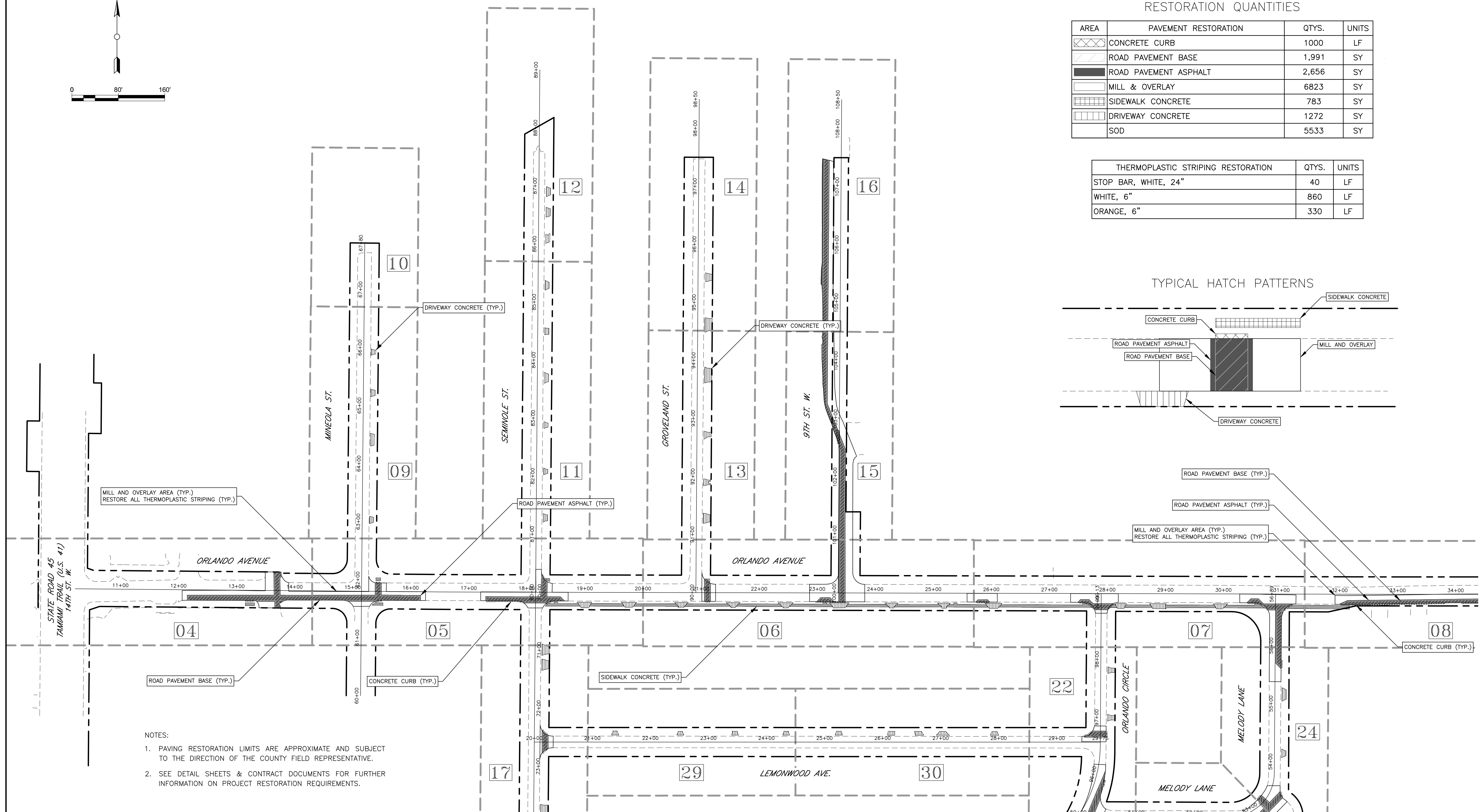
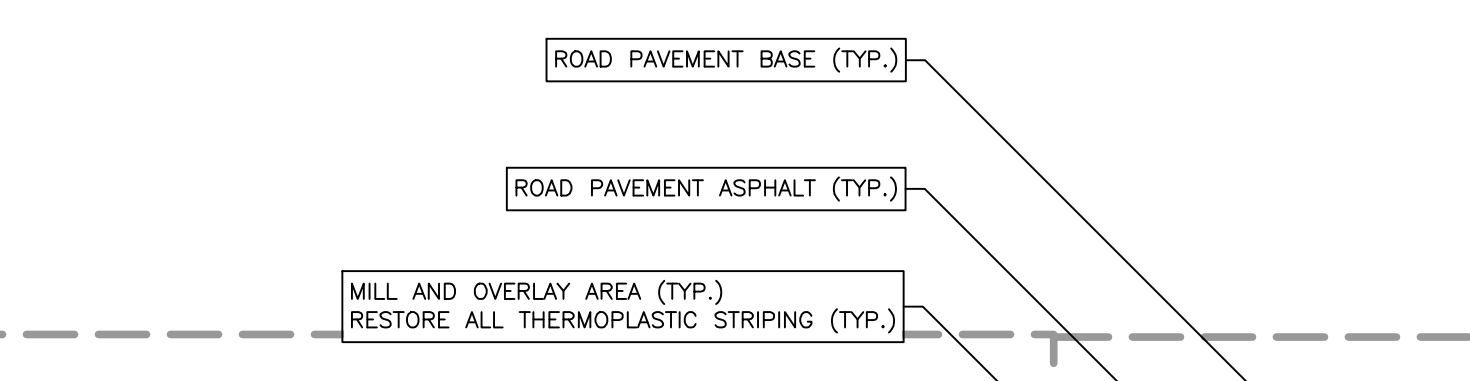
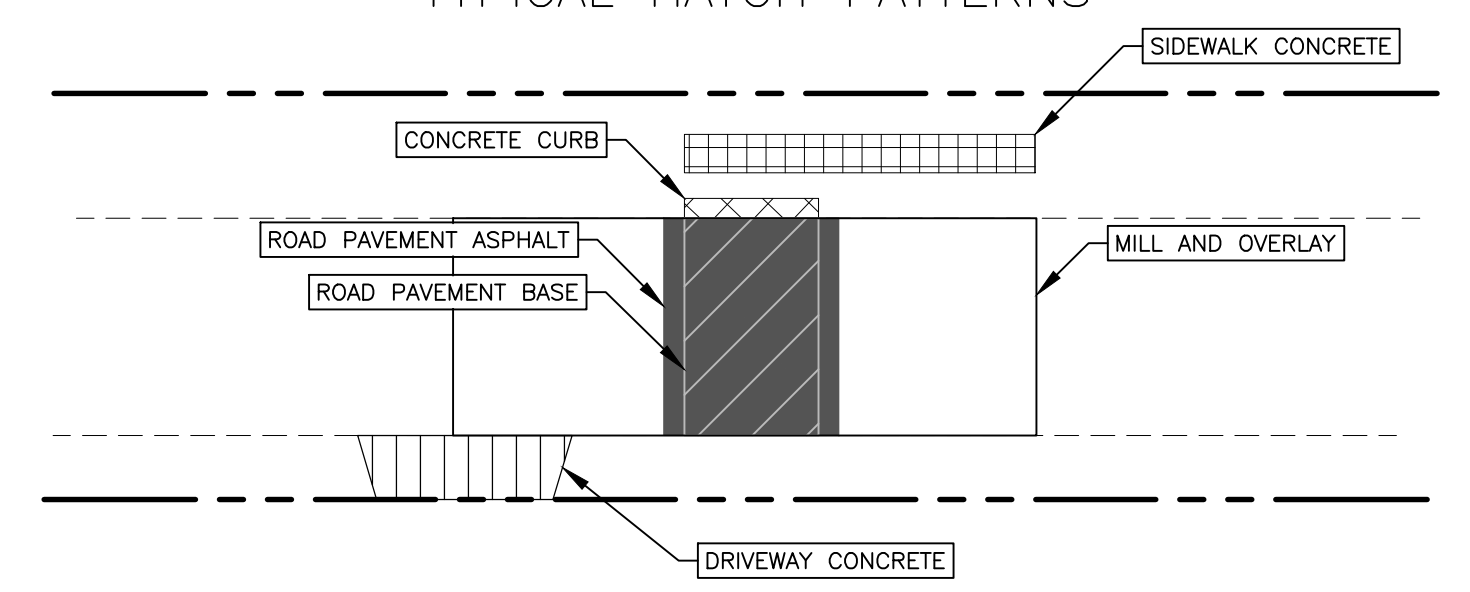


RESTORATION QUANTITIES

AREA	PAVEMENT RESTORATION	QTYS.	UNITS
	CONCRETE CURB	1000	LF
	ROAD PAVEMENT BASE	1,991	SY
	ROAD PAVEMENT ASPHALT	2,656	SY
	MILL & OVERLAY	6823	SY
	SIDEWALK CONCRETE	783	SY
	DRIVEWAY CONCRETE	1272	SY
	SOD	5533	SY

THERMOPLASTIC STRIPING RESTORATION		QTYS.	UNITS
STOP BAR, WHITE, 24"		40	LF
WHITE, 6"		860	LF
ORANGE, 6"		330	LF

TYPICAL HATCH PATTERNS



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

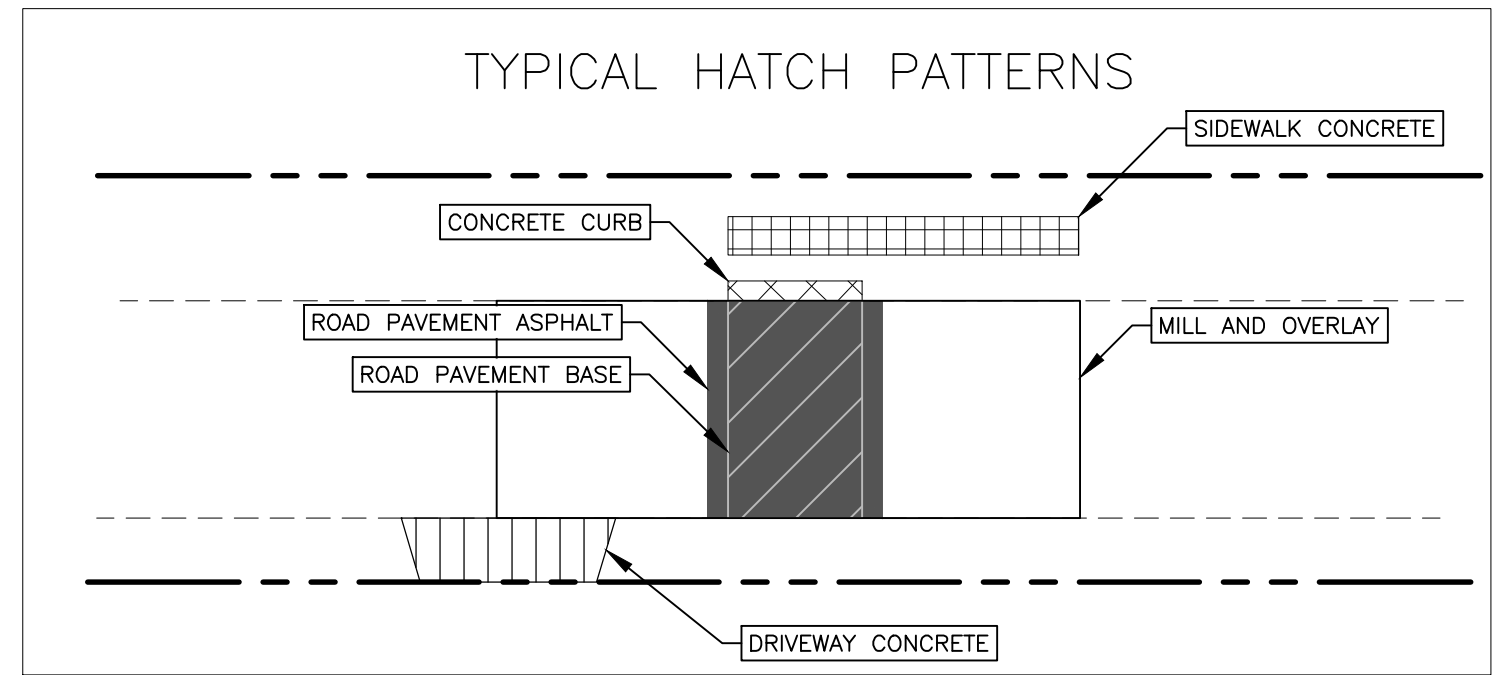
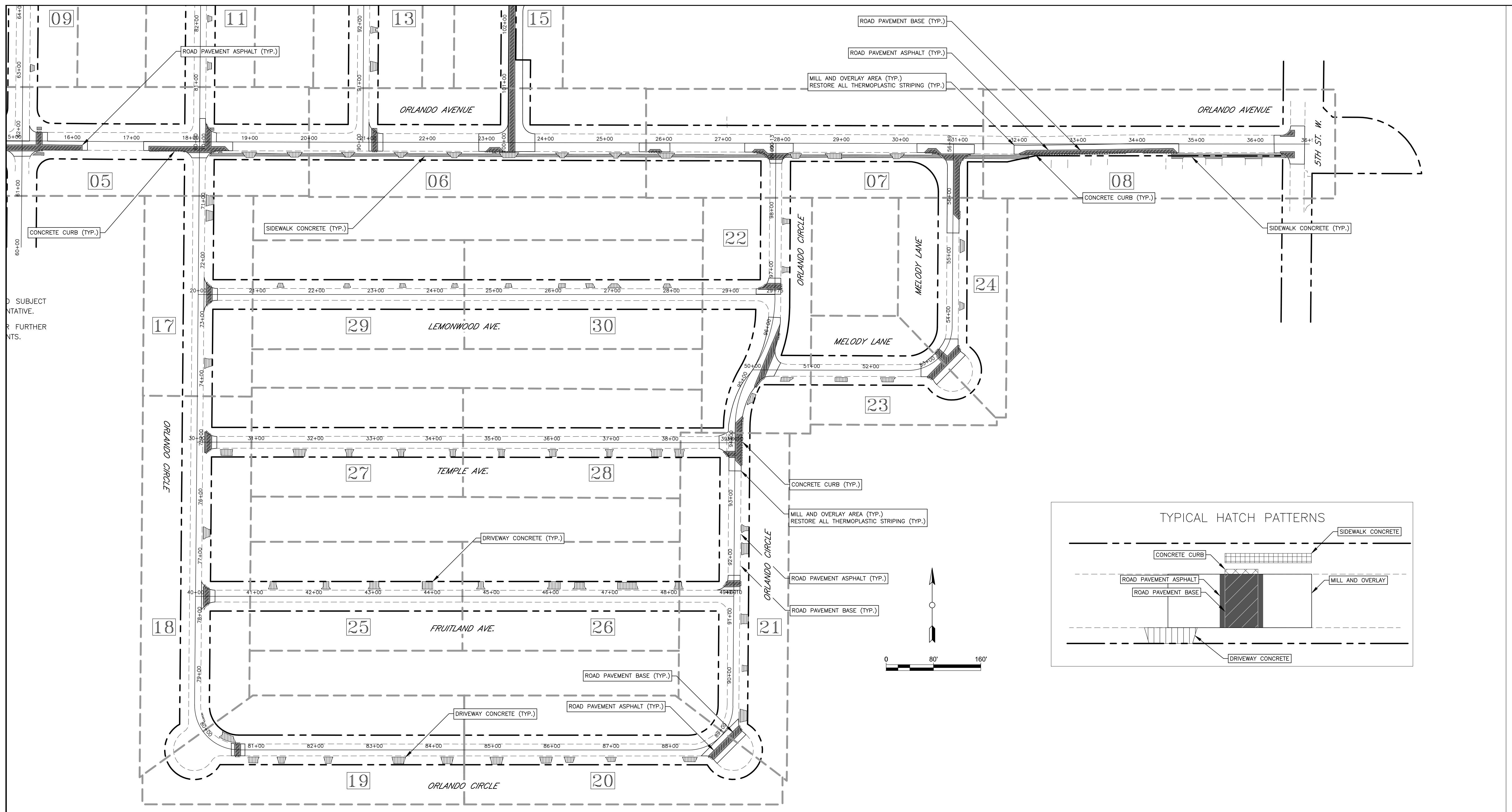
NO.	REVISION DESCRIPTION	BY	DATE

**TANGELO PARK
WATER MAIN REPLACEMENT
RESTORATION PLAN**



PROJECT #	404-6030272
SURVEY #	WA:3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
 STATE OF FLORIDA
 LICENSE No. 60923
 03/21/2023
 PROFESSIONAL ENGINEER



NOTES:
 1. PAVING RESTORATION LIMITS ARE APPROXIMATE AND SUBJECT TO THE DIRECTION OF THE COUNTY FIELD REPRESENTATIVE.

NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT RESTORATION PLAN



PROJECT #	404-6030272
SURVEY #	WA:3
SEC./TWN./RGE	11/35S/17E
SCALE	SEE PLAN
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
 No. 60923
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Date

THE INFORMATION ON THIS PAGE IS EXTRACTED FROM THE SURVEYORS REPORT PREPARED FOR MANATEE COUNTY BY SURVTECH SOLUTIONS, TAMPA FL., 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 WATERMANS 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 S 89°51'40" E FOR THE SURVEY BASELINE FOR ORLANDO AVENUE.

THIS SURVEY HAS BEEN PERFORMED WITH THE BENEFIT OF RECORDED DOCUMENTS PER THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA.

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 JULY 06, 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 CONTROLS UTILIZED TO ESTABLISH SAID DATUM WERE "DM6224", "DM6225", AND "DO6918" BEING MANATEE COUNTY HORIZONTAL CONTROL STATIONS

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 "143-88-01" AND "1438802" WITH ELEVATIONS OF 17.86 FEET AND 16.46 FEET, RESPECTIVELY.

THE VERTICAL DATUM CONVERSION PER "VERTCON" FROM NAVD 1988 TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929 IS:
NGVD 1929 = NAVD 1988 + 0.998 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.

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



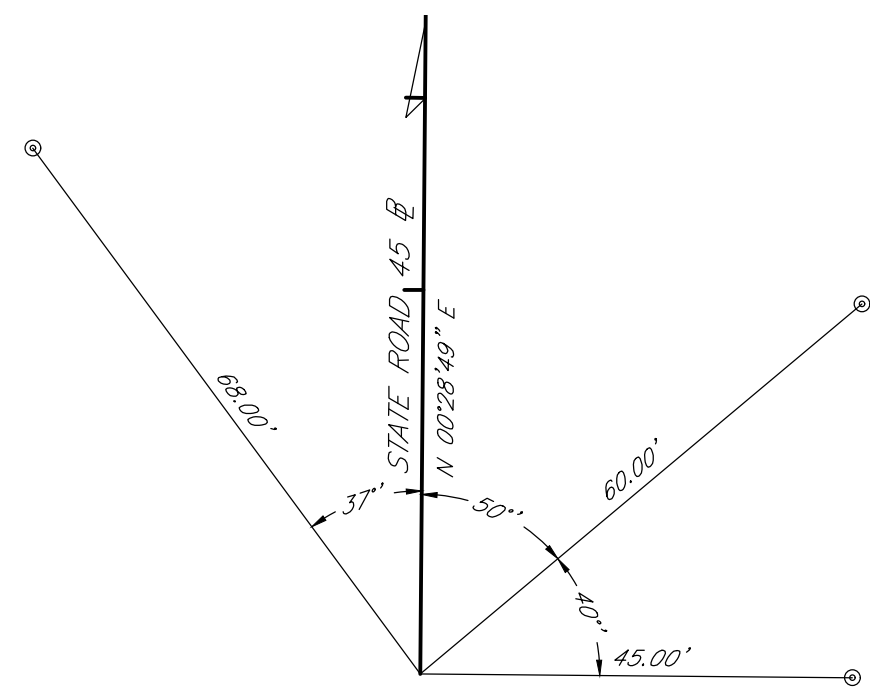
Phone: 813-621-4929
Fax: 813-621-7194
Web: www.survtechsolutions.com

SEMINOLE ST, GROVELAND ST AND 9TH ST W ALIGNMENTS WERE EXTENDED IN THE CAD FILE BY THE UTILITY DESIGNER IN ORDER TO PROVIDE PROFILE GRADE LINES AND CALL OUT STATIONING. THESE EXTENSIONS WERE NOT GENERATED BY THE SURVEYOR AND ARE NOT MONUMENTED IN THE FIELD. THE ALIGNMENTS NOW EXTEND BEYOND THE SURVEYORS CALL OUT "END OF SURVEY".

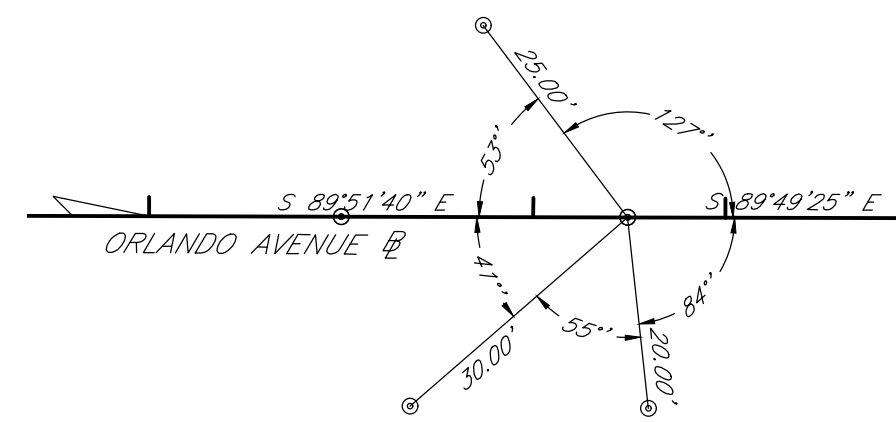
TANGALO PARK WATERMAIN REPLACEMENT S.U.E. TABLE									
V.V.H. TEST HOLE	Northing	Easting	Depth of Cover	Top of Utility Elev.	Found Conduit Dia./Size	Found Conduit Material	Found Utility Type	Utility Owner	
#	(ft)	(ft)	(ft)	(ft)	(in)				
1	1136209.2276	469801.6251	3.40	11.7	6 1/2"	PVC	Water	Manatee County	
2	1136209.4876	469862.2793	1.50	13.7	1 1/2"	HDPE	Gas	TECO	
3	1136250.3029	469355.3321	1.85	12.9	8 1/2"	Unknown	Water	Manatee County	
3B	1136250.3029	469355.3321	1.80	12.9	3/4"		Communication		
5	1136266.6240	470114.1299	2.90	12.6	4"	Unknown	Water	Manatee County	
6	1136237.9780	470111.1092	14.00	1.5			Drainage	Manatee County	
7	1136240.2859	470112.1387	3.70	11.8	2 1/2"	HDPE	Gas	TECO	
8	1136248.3138	470117.6899	1.60	14.3	10 1/2"	RCP/PVC	Drainage	Manatee County	
9	1136176.4431	470117.9409	3.65	12.2	8 1/2"	PVC	Water	Manatee County	
10	1136246.9103	470407.4302	2.40	13.0	2 1/2"	HDPE	Gas	TECO	
10B	1136246.9103	470407.4302	3.60	11.8	10"	DIP	Abandoned EM		
11	1136237.6865	470408.4876	13.70	1.7	(+/-)10"	PVC	Sanitary	Manatee County	
12	1136210.2762	470415.4347	1.55	13.9	3 1/2"	Unknown	Water	Manatee County	
13	1136196.1859	470419.1227	1.85	14.2	8 1/2"	Unknown	Water	Manatee County	
13B	1136196.1859	470419.1227	1.80	14.2	1 1/2"	DBC	Communication		
14	1136245.6984	470701.4698	2.00	14.9	2 1/2"	HDPE	Gas	TECO	
15	1136233.9103	470701.0033	4.25	12.2	10 1/2"	PVC	Drainage	Manatee County	
16	1136204.0969	470531.8459	2.55	13.8	6 1/2"	Unknown	Water	Manatee County	
16B	1136204.0969	470531.8459	1.50	14.8	1 1/2"	Unknown	Non-metallic		
17	1136203.3611	470801.0893	2.45	13.9	4 1/2"	Unknown	Water	Manatee County	
18	1136252.1741	470919.3788	1.45	14.4	2 1/2"	HDPE	Gas	TECO	
19	1136245.7844	470948.1748	3.90	12.6	10"	ACP	Sanitary	Manatee County	
20	1136203.5624	470945.5223	2.00	14.2	6 1/2"	Unknown	Water	Manatee County	
21	1136191.2811	471384.4113	2.70	13.1	4 1/2"	Unknown	Water	Manatee County	
22	1136201.4174	471803.1333	1.90	13.6	4 1/2"	Unknown	Water	Manatee County	
23	1136193.7561	471880.0071	2.35	12.9	4 1/2"	Unknown	Water	Manatee County	
24	1136189.9279	471888.7855	3.85	11.8	2 1/2"	HDPE	Gas	TECO	
24B	1136189.9279	471888.7855	1.85	13.8	1 1/2"	Unknown	Unknown		
25	1136203.1619	471812.8270	2.70	11.6	6 1/2"	PVC	Drainage	Manatee County	
26	1136182.8669	471991.4000	1.70	13.4	6 1/2"	PVC	Water	Manatee County	
27	1136191.1936	472240.3182	1.70	14.0	10 1/2"	Unknown	Water	Manatee County	
28	1137025.3941	470285.0381	2.00	14.04	2 1/2"	PVC	Communication	Charter (?)	
29	1137029.0515	470281.1625	1.90	14.18	2 1/2"	HDPE	Gas	TECO?	
32	1136313.5004	470945.7466	1.20	15.61	7"	ASB	Water	Manatee County	
33	1136357.4363	470914.1127	1.60	14.7	1 1/2"	HDPE	Communication	Frontier (?)	
34	1135996.5953	470408.0392	2.20	13.9	6 1/2"	ACP	Water	Manatee County	
35	1135828.6027	470407.3459	1.70	14.6	6 1/2"	ACP	Water	Manatee County	
36	1135596.7891	470406.0286	1.70	14.4	6 1/2"	ACP	Water	Manatee County	
37	1135329.6092	470400.3458	2.95	12.8	4 1/2"	ACP	Water	Manatee County	
37B	1135329.6092	470400.3458	1.25	14.5	1 1/2"	DBC	Communication		
38	1135232.6729	471315.0701	2.45	13.4	(+/-) 6 1/2"	Unknown	Water	Manatee County	
38B	1135232.6729	471315.0701	2.30	13.6	1 1/2"	HDPE	Communication		
39	1135478.8639	471316.3579	3.65	13.5	6 1/2"	ACP	Water	Manatee County	
39B	1135478.8639	471316.3579	0.50	16.6	1"	PVC	Water		
42	1135936.7775	471355.6915	1.90	13.3	3 1/2"	Unknown	Water	Manatee County	
44	1136090.1316	471685.0918	2.45	13.3	2 1/2"	HDPE	Gas	TECO	

ALIGNMENT TABLES / HORIZONTAL CONTROL

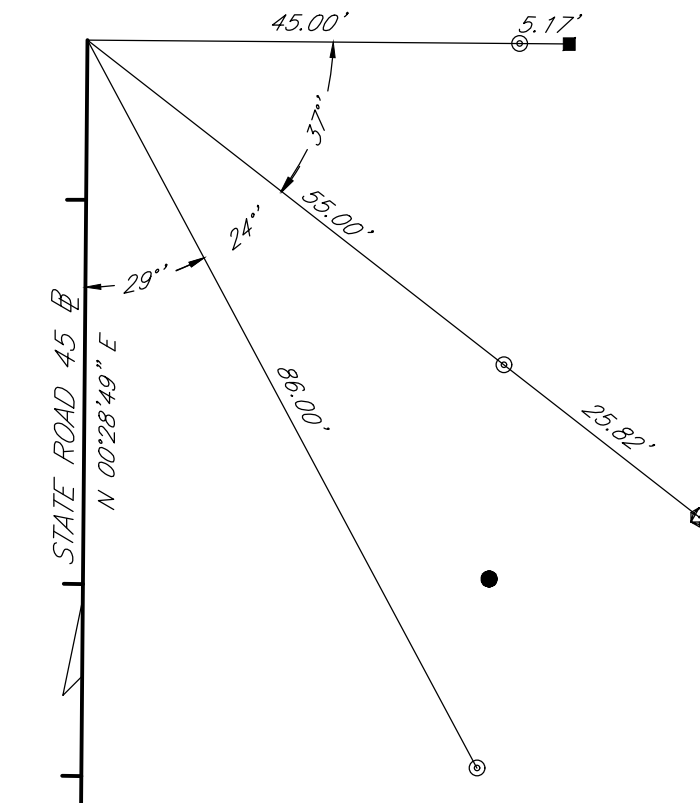
Hwy 41											
SEGMENT	LENGTH	DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING			
L1	252.52	N00° 28' 49.00"E	1465+80.00	1468+32.52	1135975.94	469578.32	1136228.45	469580.43			
L2	404.14	N00° 28' 49.00"E	1468+32.52	1472+36.65	1136228.45	469580.43	1136632.57	469583.82			
Mineola St											
SEGMENT	LENGTH	DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING			
L3	179.98	N00° 32' 03.13"E	60+00.00	61+79.98	1136044.09	470093.79	1136224.06	470095.47			
L4	600.01	N00° 32' 03.13"E	61+79.98	67+79.99	1136224.06	470095.47	1136824.05	470101.07			
Seminole St											
SEGMENT	LENGTH	DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING			
L5	920.00	N00° 27' 55.06"E	80+00.00	89+20.00	1136222.42	470395.36	1137142.39	470402.84			
Groveland St											
SEGMENT	LENGTH	DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING			
L6	850.11	N00° 23' 53.92"E	90+00.00	98+50.11	1136221.75	470671.47	1137071.84	470677.38			
9th St W											
SEGMENT	LENGTH	DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING			
L7	849.99	N00° 25' 04.36"E	100+00.00	108+49.99	1136221.15	470916.53	1137071.12	470922.73			
Orlando Ave											
SEGMENT	LENGTH	DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING			
L8	515.06	S89° 30' 44.73"E	10+00.00	15+15.06	1136228.45	469580.43	1136224.06	470095.47			
L9	151.39	S89° 30' 44.73"E	15+15.06	16+66.44	1136224.06	470095.47	1136222.78	470246.85			
L10	148.51	S89° 51' 39.67"E	16+66.44	18+14.95	1136222.78	470246.85	1136222.42	470395.36			
L11	276.11	S89° 51' 39.67"E	18+14.95	20+91.06	1136222.42	470395.36	1136221.75	470671.47			
L12	245.06	S89° 51' 39.67"E	20+91.06	23+36.12	1136221.75	470671.47	1136221.15	470916.53			
L13	453.40	S89° 51' 39.67"E	23+36.12	27+89.52	1136221.15	470916.53	1136220.05	471369.93			
L14	240.31	S89° 51' 39.67"E	27+89.52	30+29.83	1136220.05	471369.93	1136219.47	471610.23			
L15	60.00	S89° 49' 24.82"E	30+29.83	30+89.83	1136219.47	471610.23	1136219.28	471670.23			
L16	138.94	S89° 49' 24.82"E	30+89.83	32+28.76	1136219.28	471670.23	1136218.86	471809.17			
L17	442.92	S89° 58' 18.20"E	32+28.76	36+71.68	1136218.86	471809.17	1136218.64	472252.09			
L18	20.00	S89° 58' 18.20"E	36+71.68	36+91.68	1136218.64	472252.09	1136218.63	472272.09			
Orlando Circle											
SEGMENT	LENGTH	RADIUS	DELTA ANGLE	LINE/CHORD	CHORD LENGTH	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END EASTING
L19	258.10			S00° 30' 10.16"W		70+00.00	1136222.42	470395.36	72+58.10	1135964.33	470393.10
L20	249.67			S00° 30' 10.16"W		72+58.10	1135964.33	470393.10	75+07.77	1135714.66	470390.91
L21	260.61			S00° 30' 10.16"W		75+07.77	1135714.66	470390.91	77+68.38	1135454.06	470388.62
L22	184.04			S00° 30' 10.16"W		77+68.38	1135454.06	470388.62	79+52.43	1135270.03	470387.01
C1	118.45	75.00	090.49	S44° 44' 31.91"E	106.52	79+52.43	1135270.03	470387.01	80+70.88	1135194.37	470461.99
L23	760.25			S89° 59' 13.98"E		80+70.88	1135194.37	470461.99	88+31.12	1135194.20	471222.23
C2	117.23	75.00	089.56	N45° 14' 03.95"E	105.65	88+31.12	1135194.20	471222.23	89+48.35	1135268.60	471297.25
L24	185.57			N00° 27' 21.88"E		89+48.35	1135268.60	471297.25	91+33.92	1135454.16	471298.72
L25	259.46			N00° 27' 21.88"E		91+33.92	1135454.16	471298.72	93+93.37	1135713.61	471300.79
L26	26.26			N00° 27' 21.88"E		93+93.37	1135713.61	471300.79	94+19.63	1135739.87	471301.00
C3	102.77	175.00	033.65	N16° 50' 34.09"E	101.30	94+19.63	1135739.87	471301.00	95+22.40	1135836.82	471330.35
C4	0.82	175.00	000.27	N33° 48' 03.80"E	0.82	95+22.40	1135836.82	471330.35	95+23.22	1135837.50	471330.81
C5	128.91	220.00	033.57	N17° 08' 55.80"E	127.07	95+23.22	1135837.50	471330.81	96+52.13	1135958.93	471368.27
L27	5.25			N00° 21' 44.92"E		96+52.13	1135958.93	471368.27	96+57.38	1135964.18	471368.31
L28	255.88			N00° 21' 44.92"E		96+57.38	1135964.18	471368.31	99+13.26	1136220.05	471369.93
Fruitland Ave											
SEGMENT	LENGTH	DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING			
L29	910.10	N89° 59' 37.38"E	40+00.00	49+10.10	1135454.06	470388.62	1135454.16	471298.72			
Temple Ave											



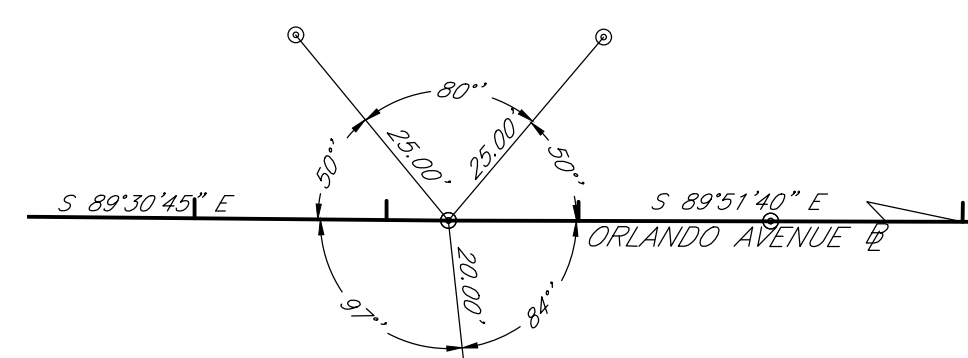
STATE ROAD BASELINE BEGIN STA: 1465+80.00



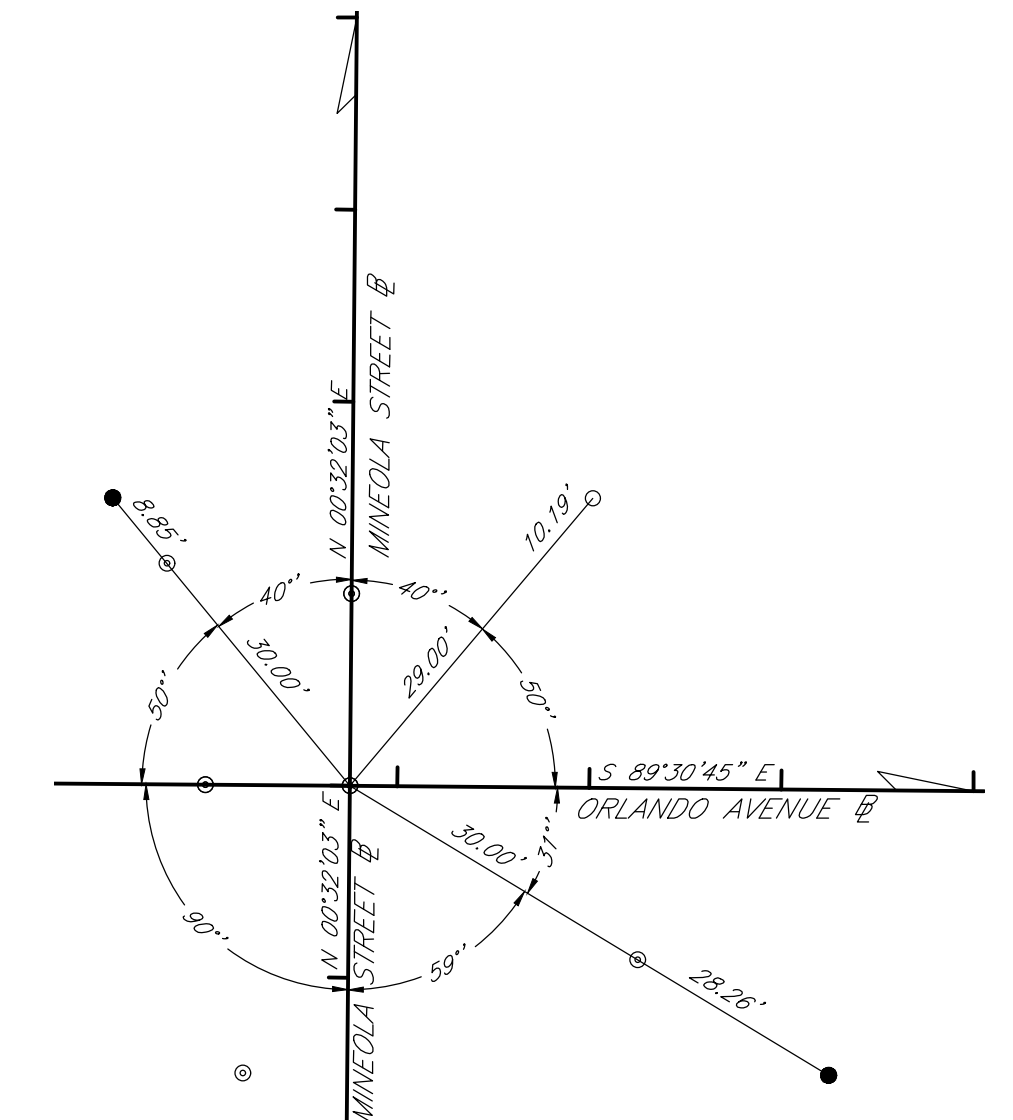
POINT OF DEFLECTION ORLANDO AVENUE BASELINE STA: 30+29.83



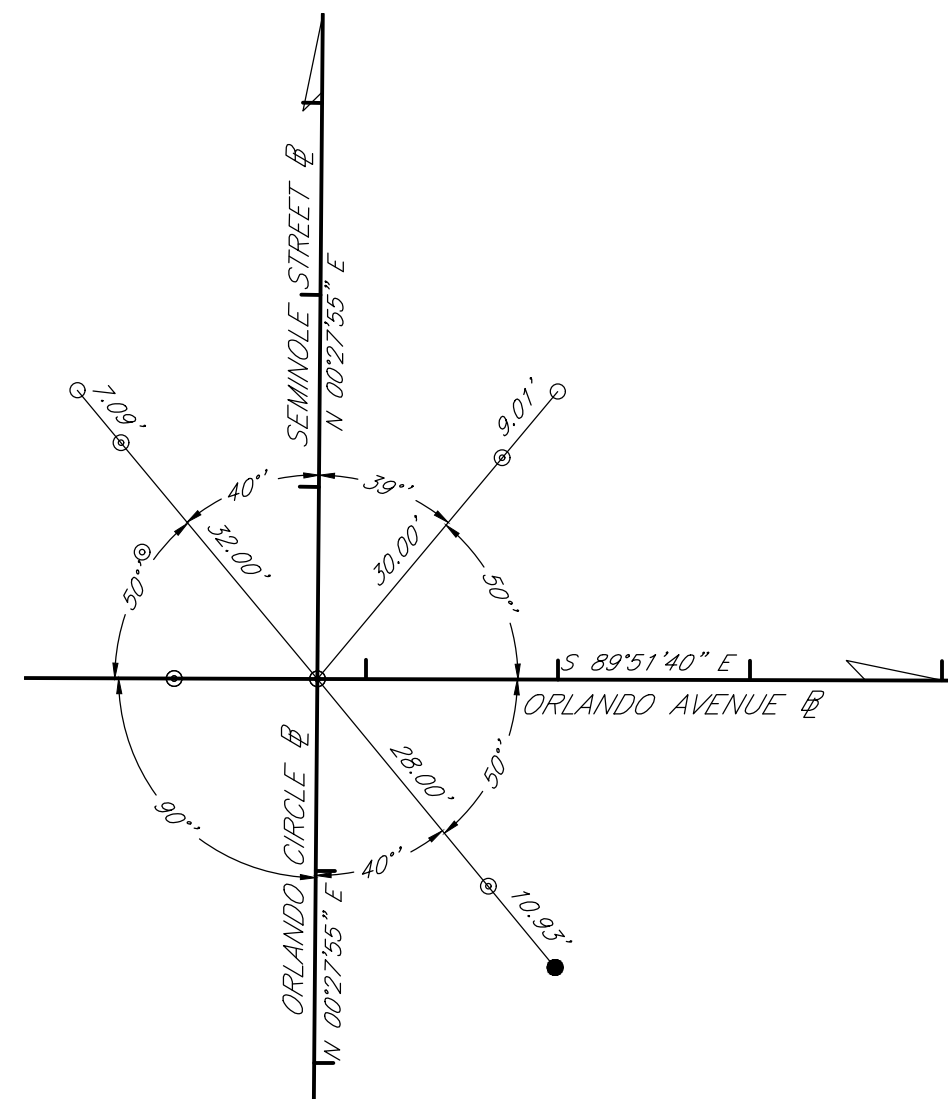
STATE ROAD BASELINE END STA: 1472+36.65



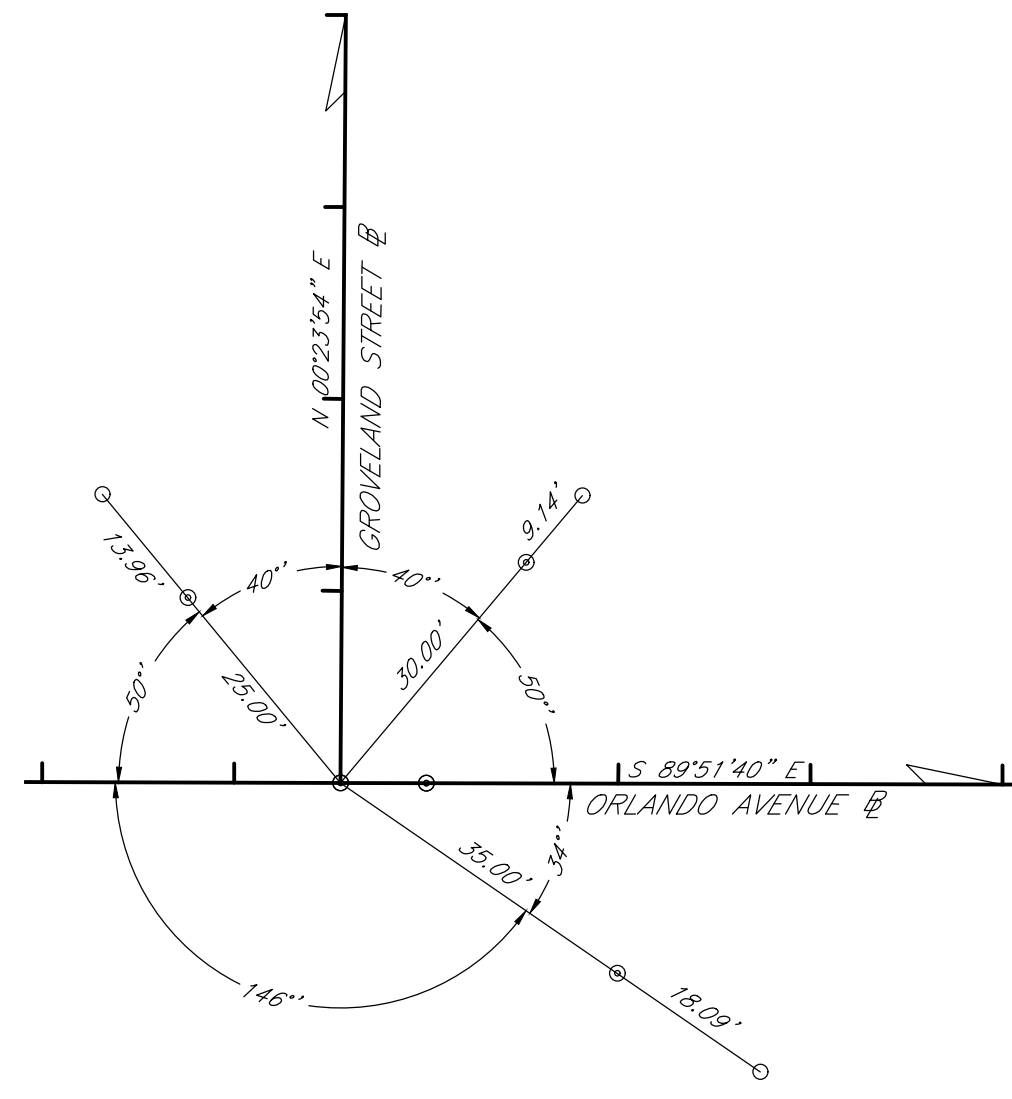
POINT OF DEFLECTION ORLANDO AVENUE BASELINE STA: 16+66.44



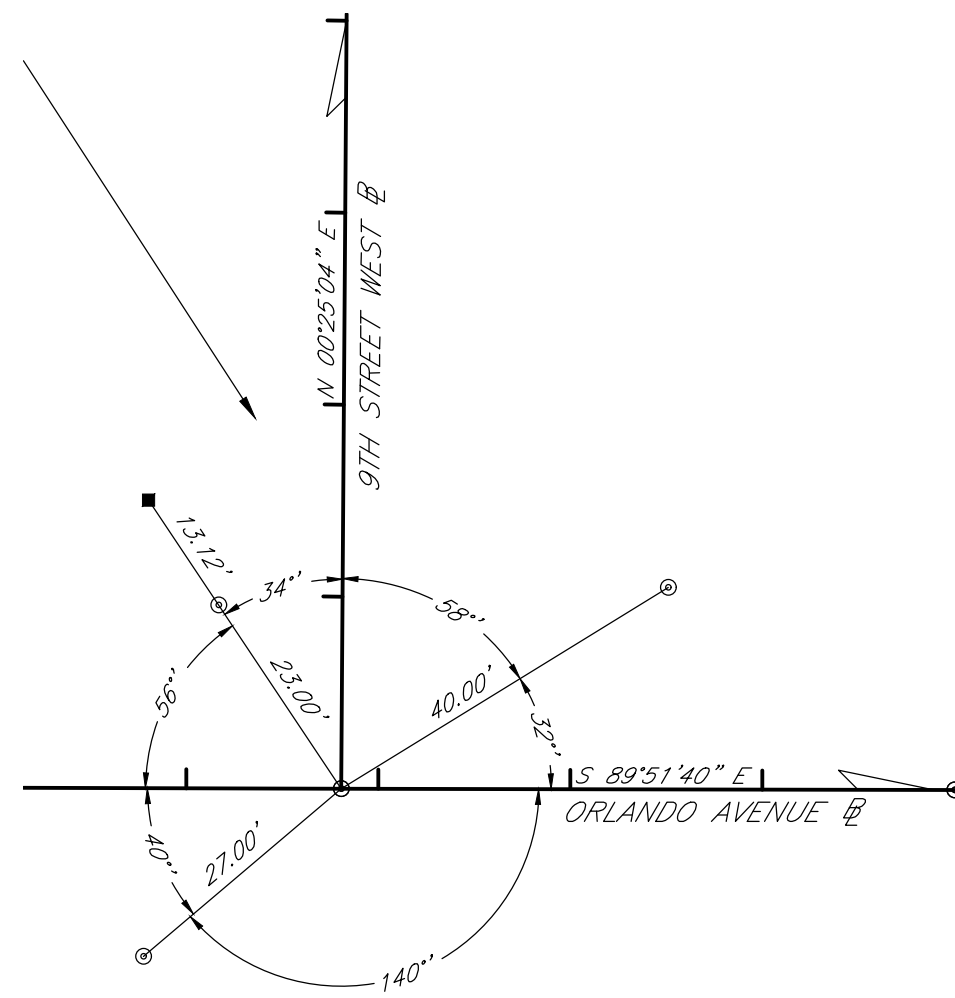
PI ORLANDO AVENUE BASELINE & MINCEOLA STREET BASELINE STA. 15+15.06 = STA. 61+79.98



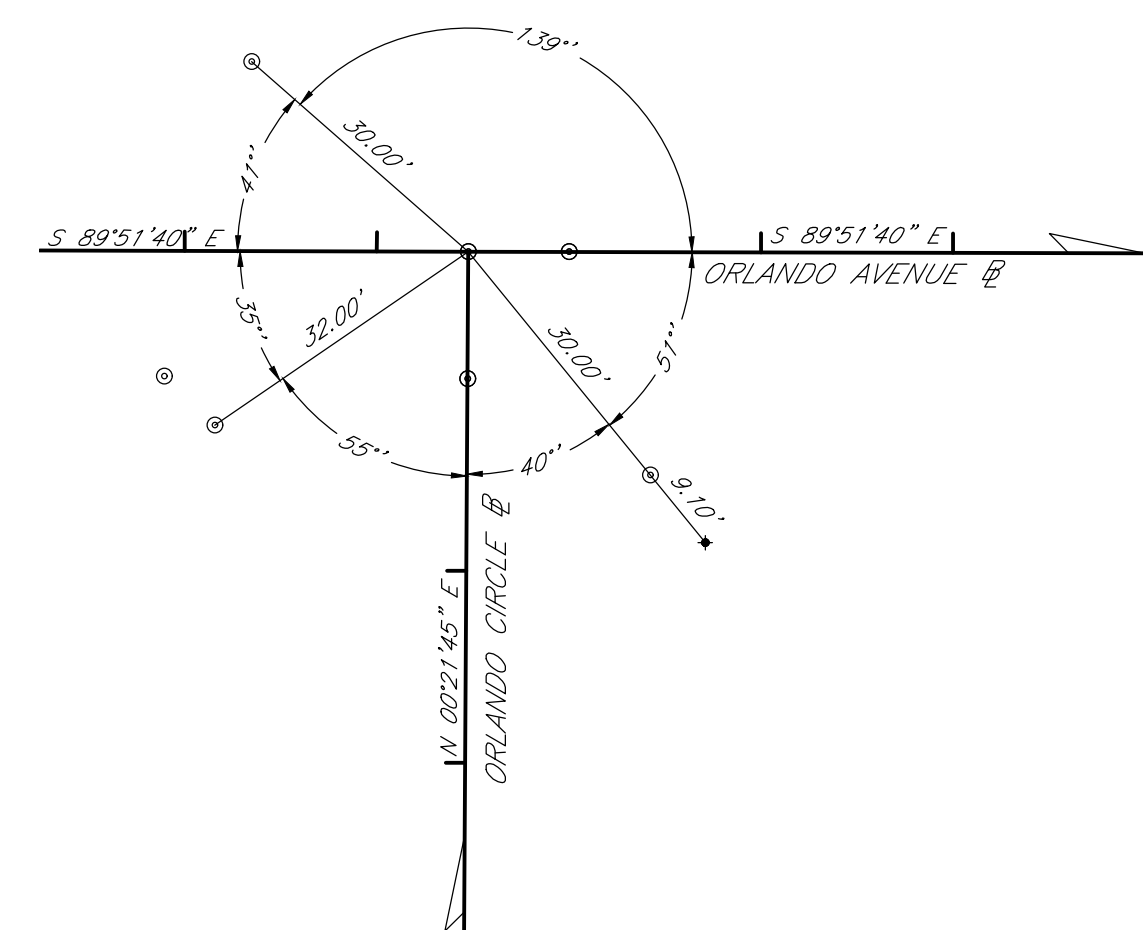
PI ORLANDO AVENUE BASELINE, ORLANDO CIRCLE BASELINE BEGIN & SEMINOLE STREET BASELINE BEGIN STA. 18+14.95 = STA. 70+00.00 = STA. 80+00.00



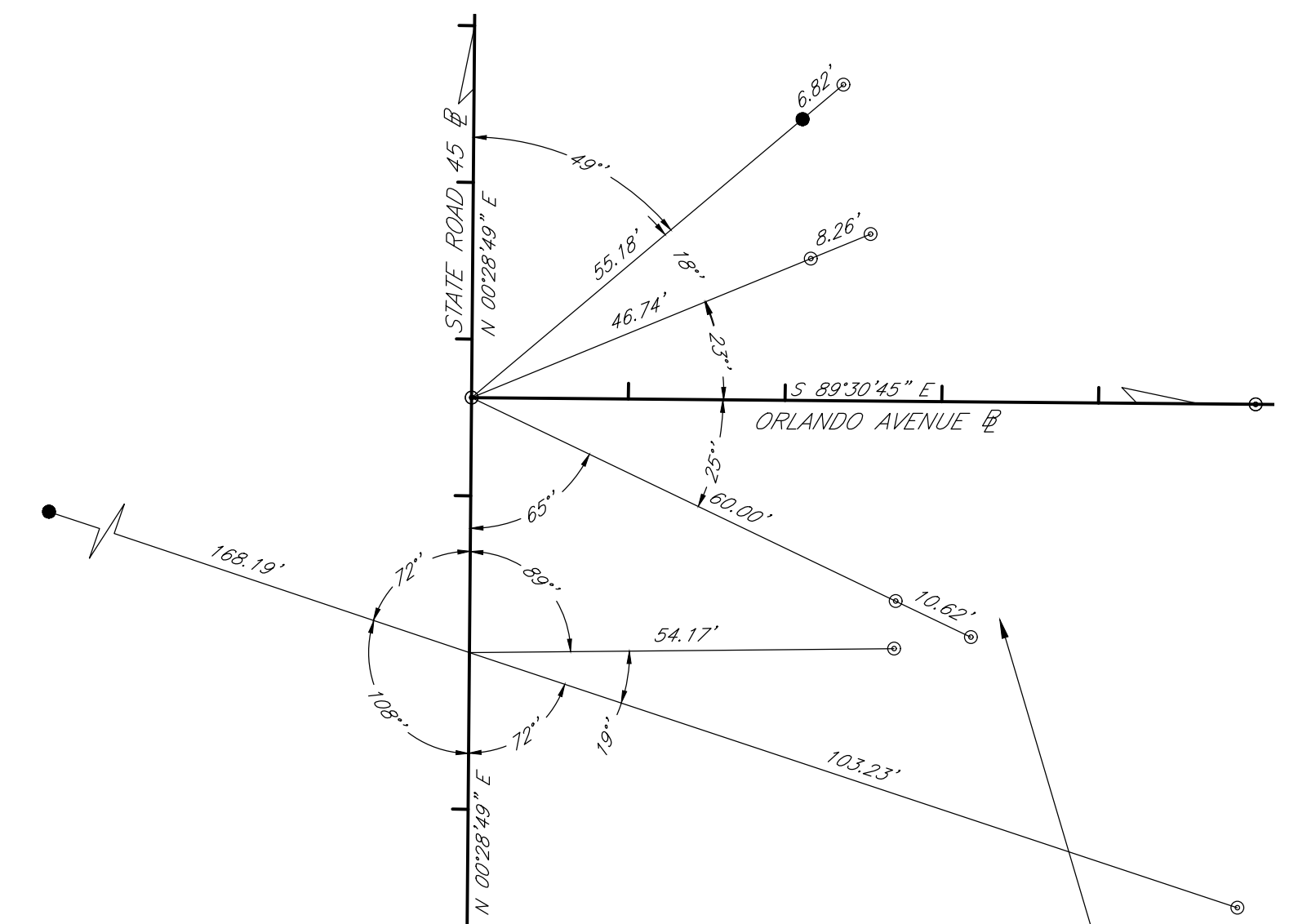
PI ORLANDO AVENUE BASELINE, & GROVELAND STREET BASELINE BEGIN STA. 20+91.06 = STA. 90+00.00



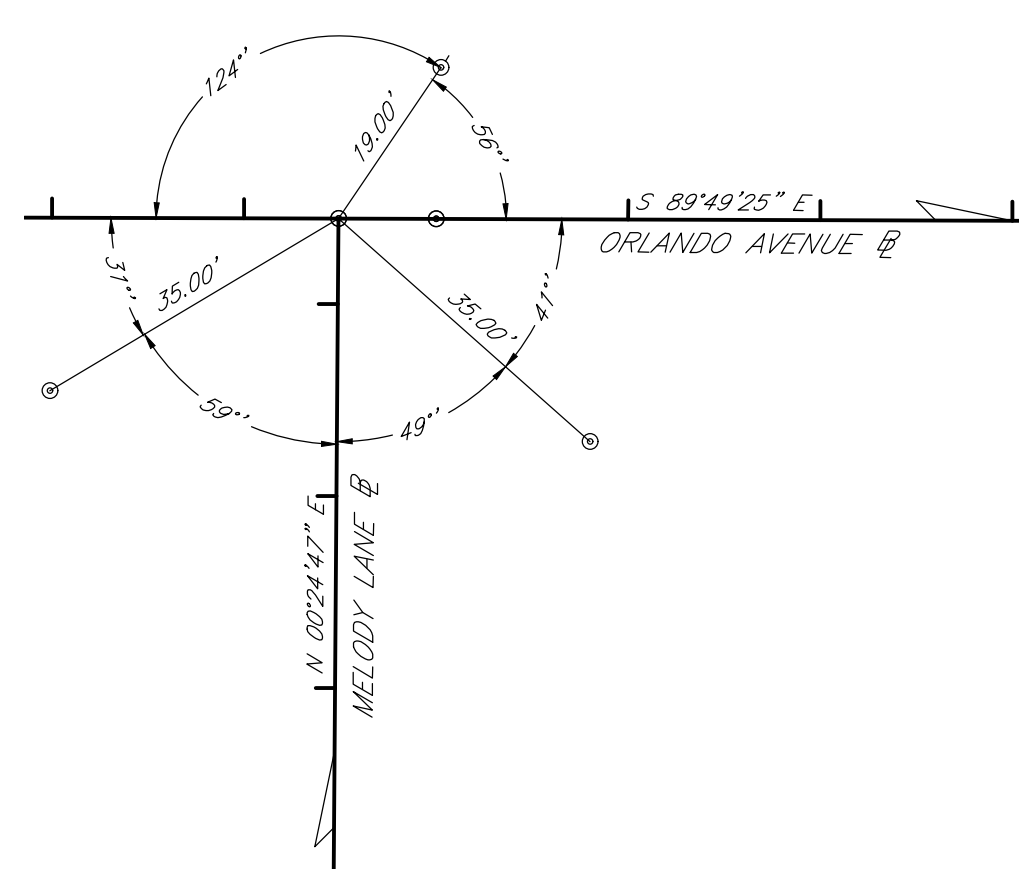
PI ORLANDO AVENUE BASELINE, & 9TH STREET WEST BASELINE BEGIN STA. 23+36.12 = STA. 100+00.00



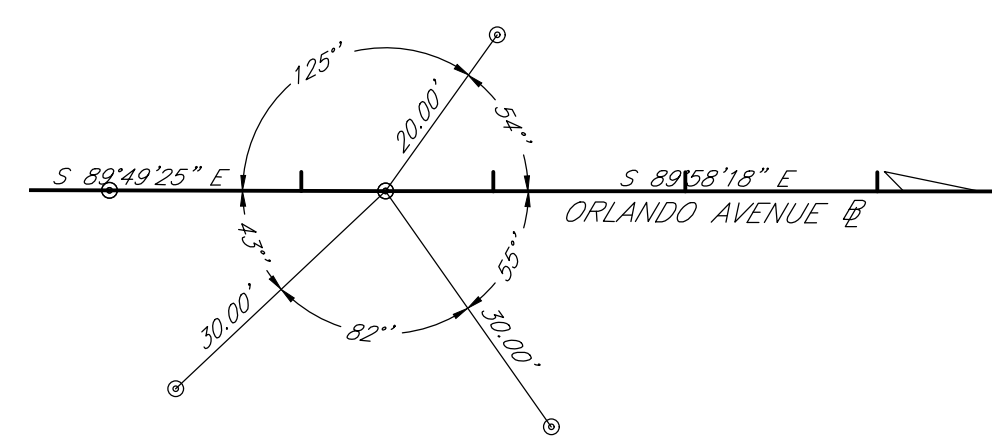
PI ORLANDO AVENUE BASELINE, & ORLANDO CIRCLE BASELINE END STA. 27+89.52 = STA. 99+13.26



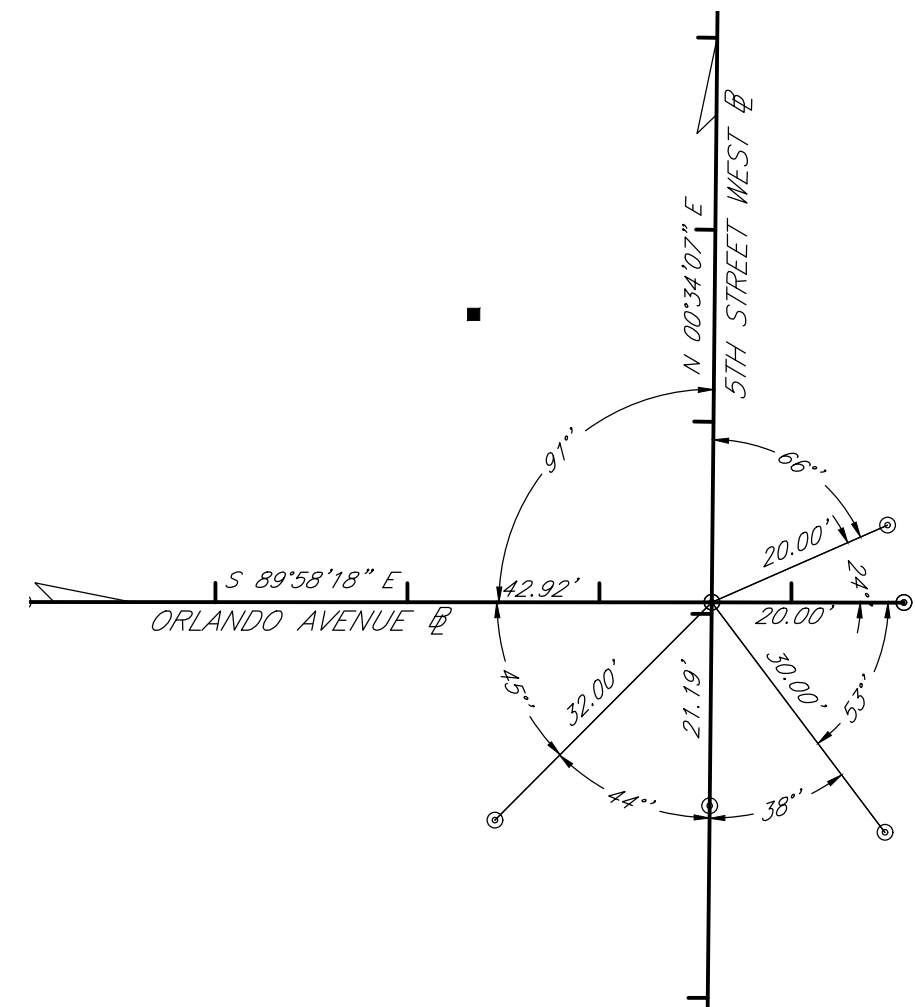
PI STATE ROAD 45 BASELINE & ORLANDO AVENUE BASELINE BEGIN STA: 1468+32.52 = STA: 10+00.00 STATE ROAD 45 BASELINE BEGIN FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY MAP SECTION 13040-000 STA: 1468+00.00



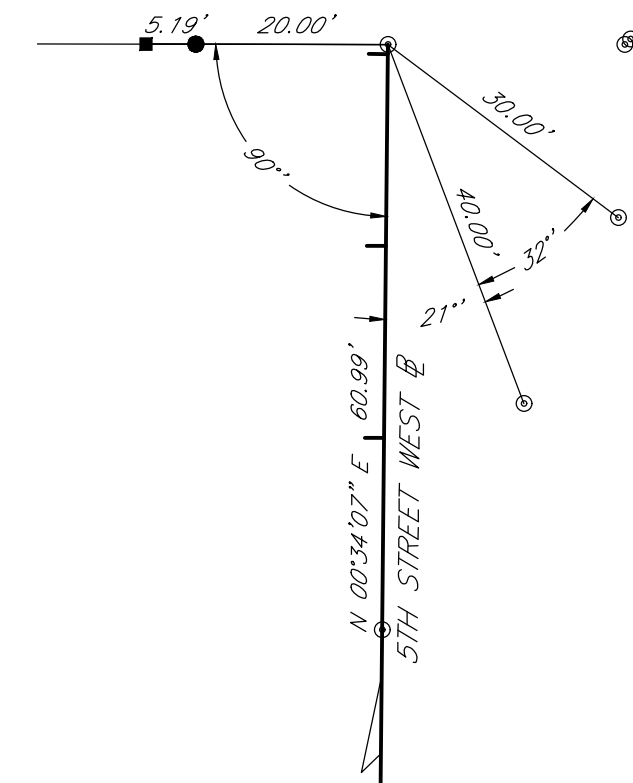
PI ORLANDO AVENUE BASELINE, & MELODY BASELINE END STA. 30+89.83 = STA. 56+89.90



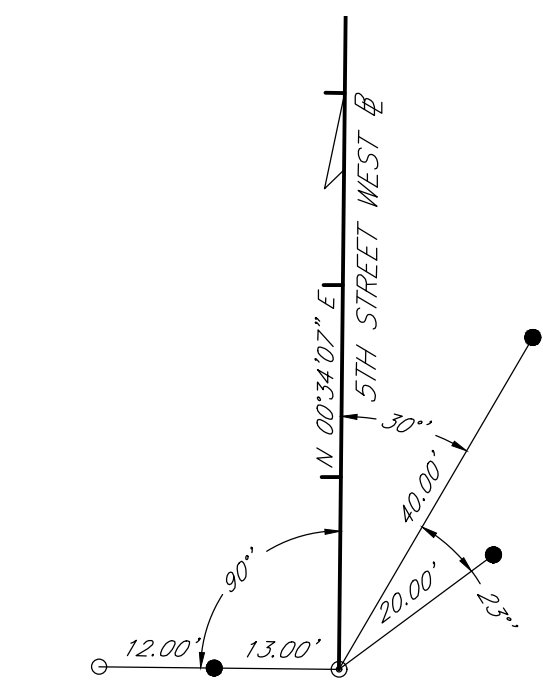
POINT OF DEFLECTION ORLANDO AVENUE BASELINE STA: 32+28.76



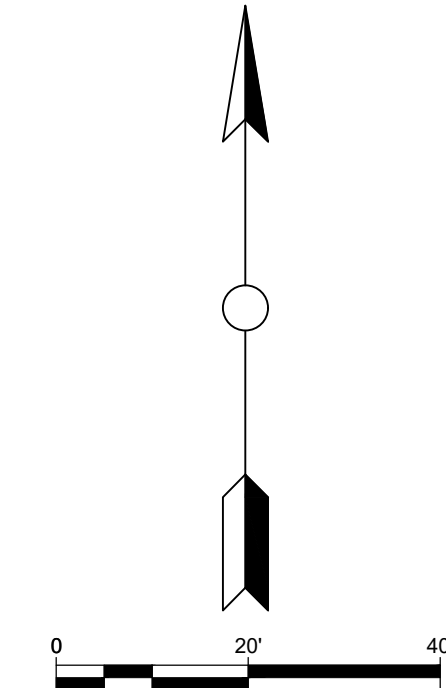
ORLANDO AVENUE BASELINE END STA. 36+91.68 PI ORLANDO AVENUE BASELINE & 5TH AVENUE WEST BASELINE STA. 36+71.68 = STA. 112+21.19



5TH AVENUE WEST BASELINE END STA. 113+60.99



5TH AVENUE WEST BASELINE BEGIN STA. 110+00.00



NO.	REVISION DESCRIPTION	BY	DATE

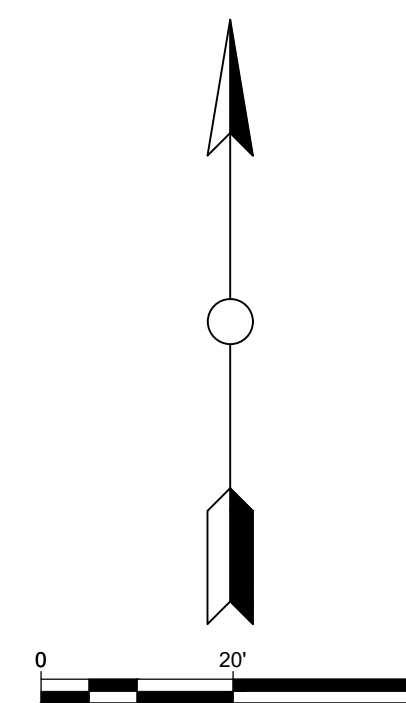
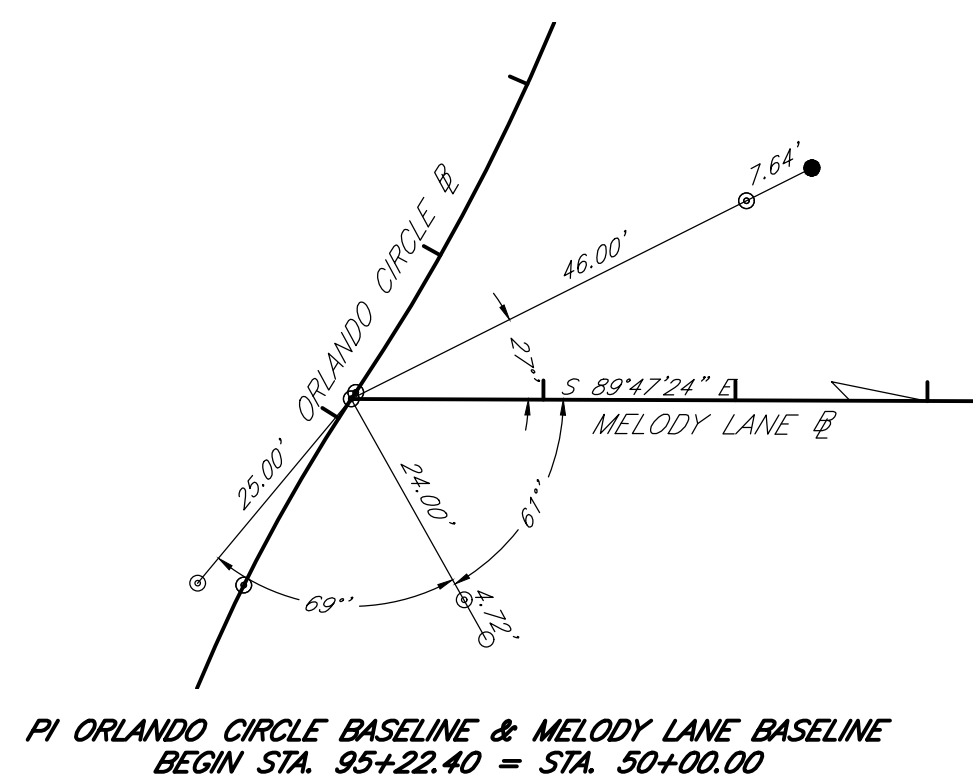
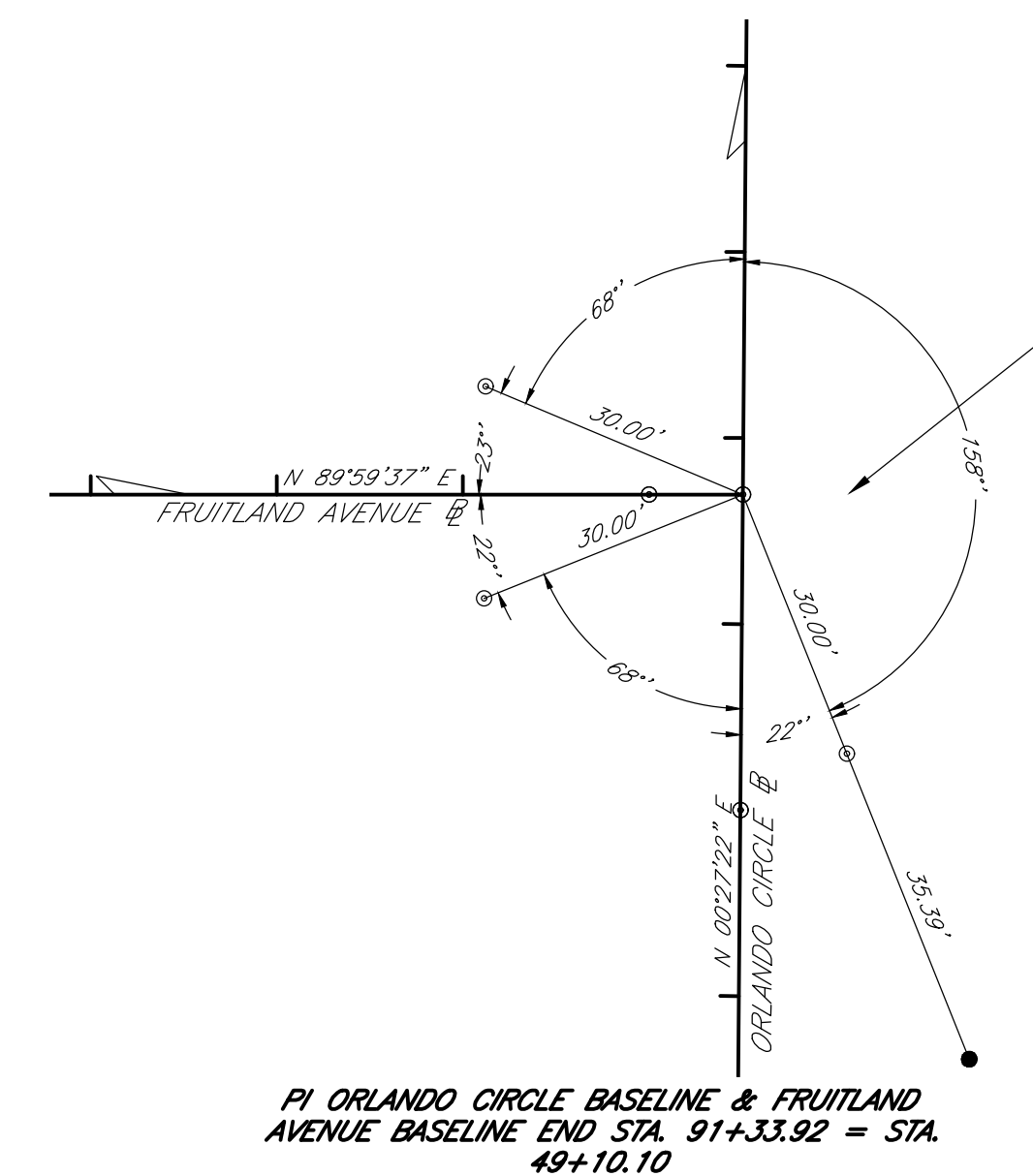
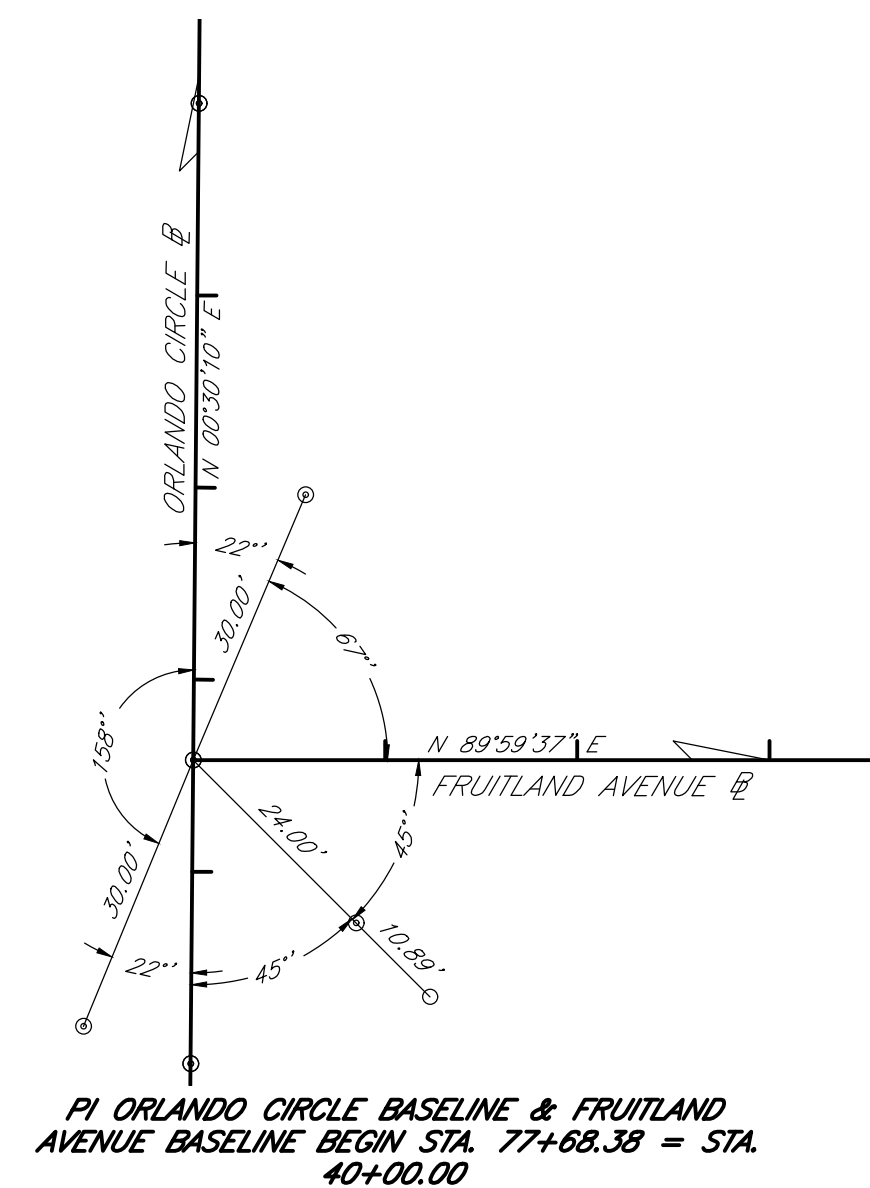
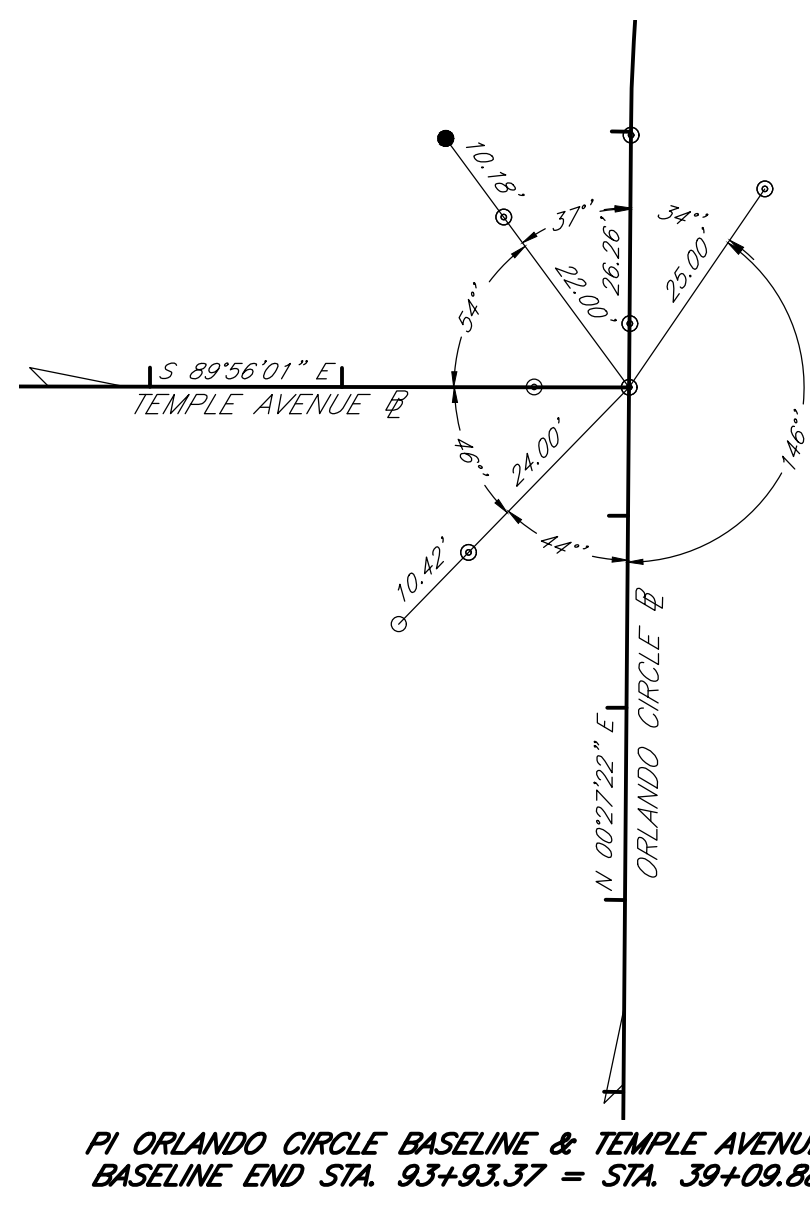
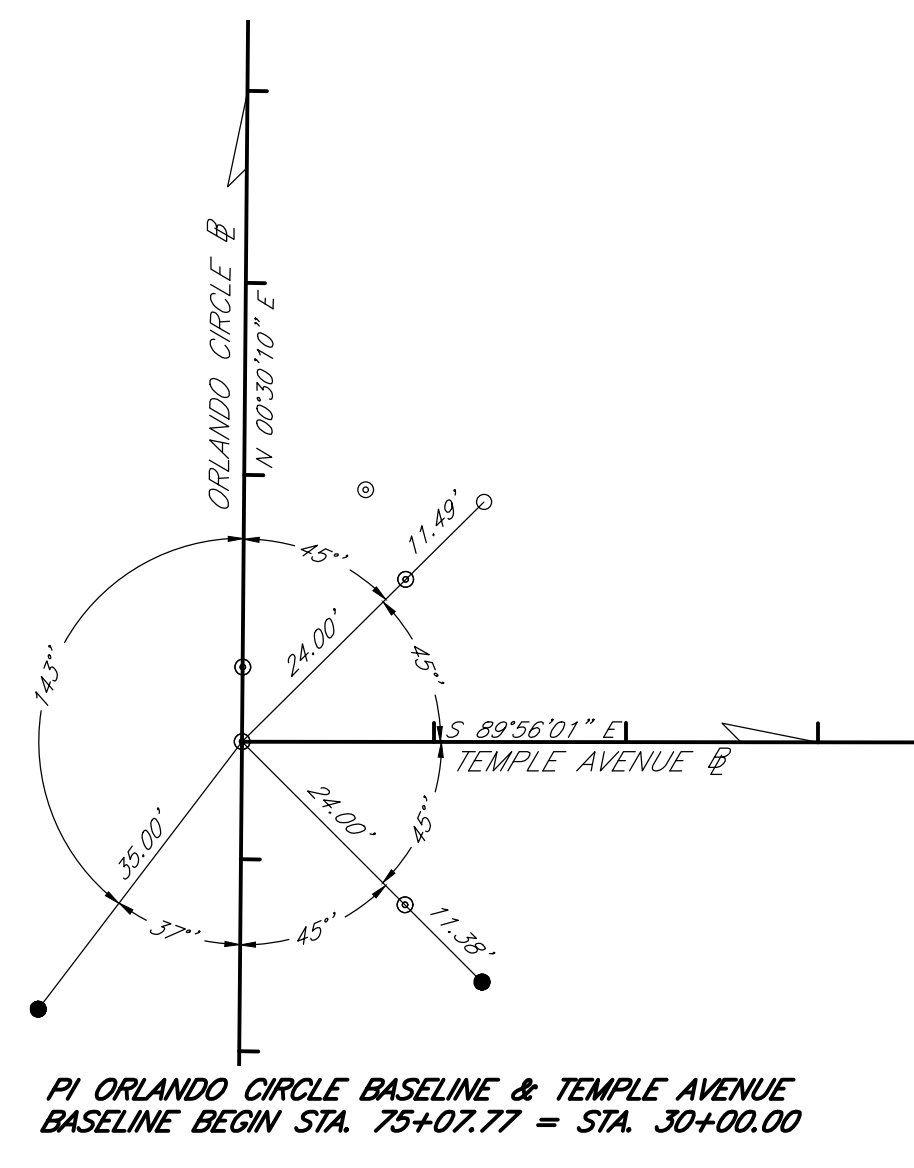
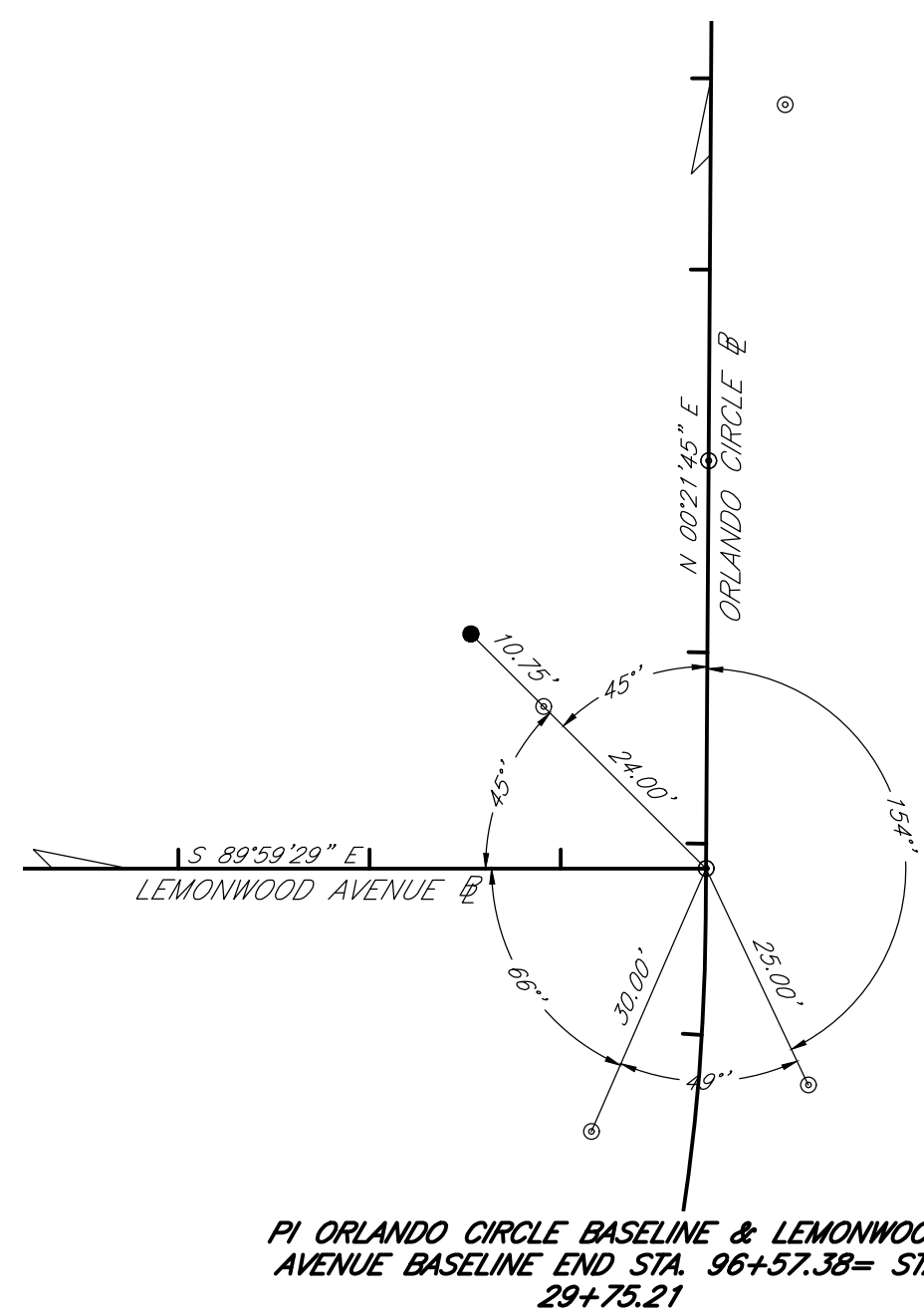
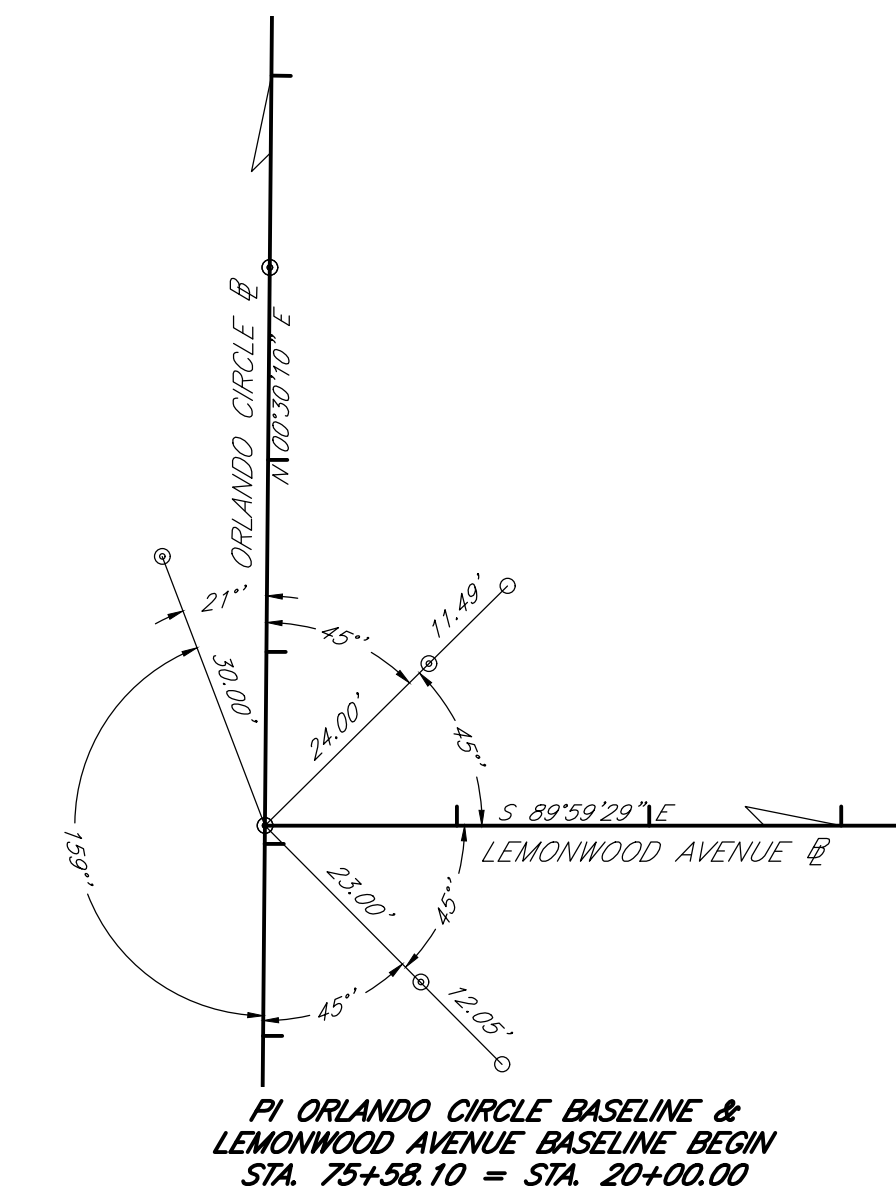
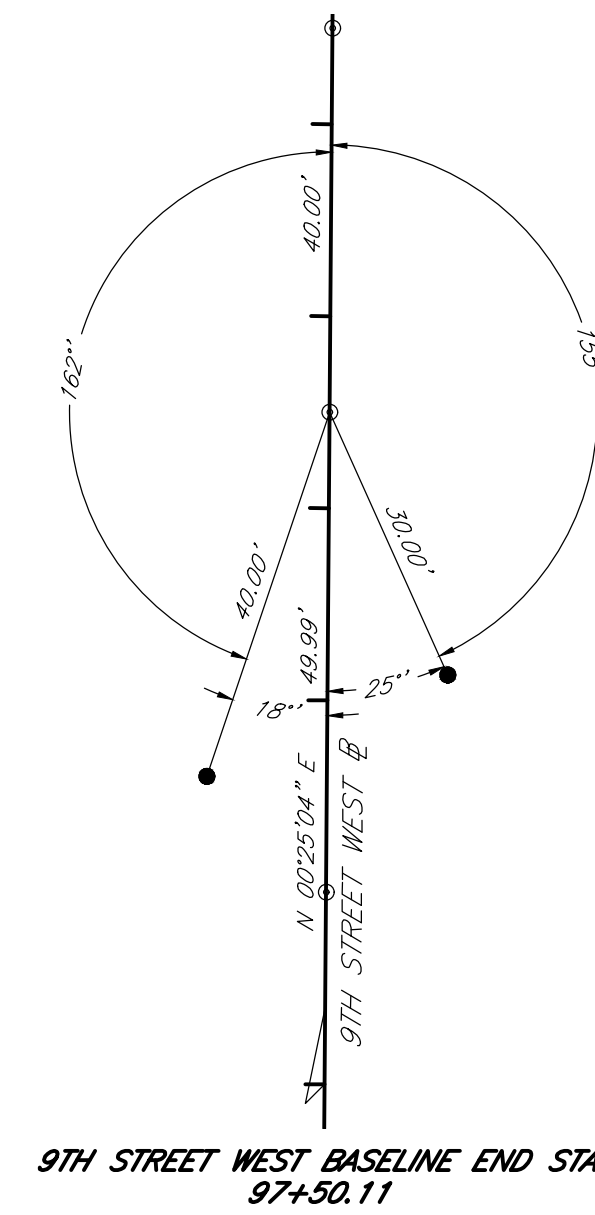
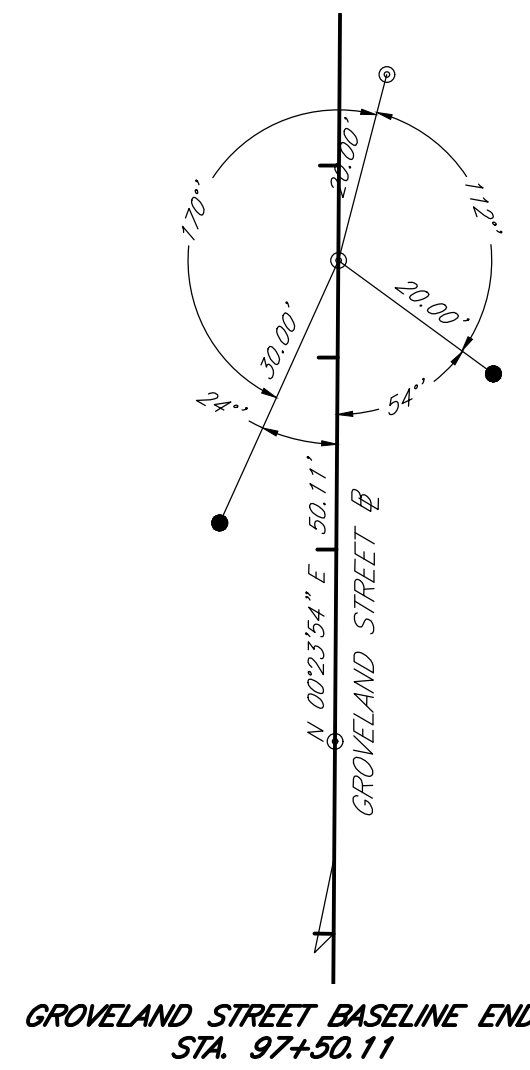
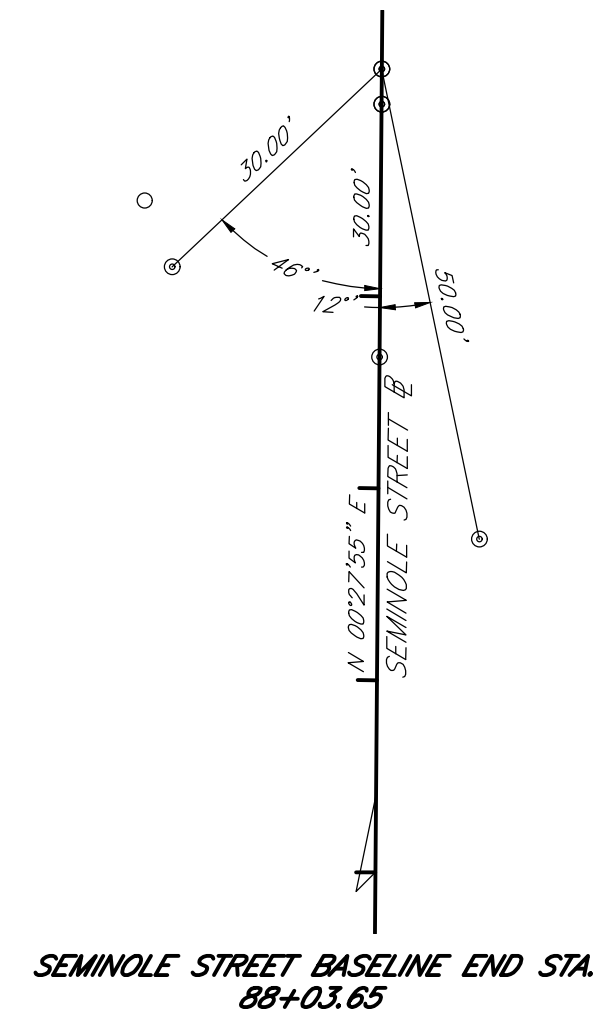
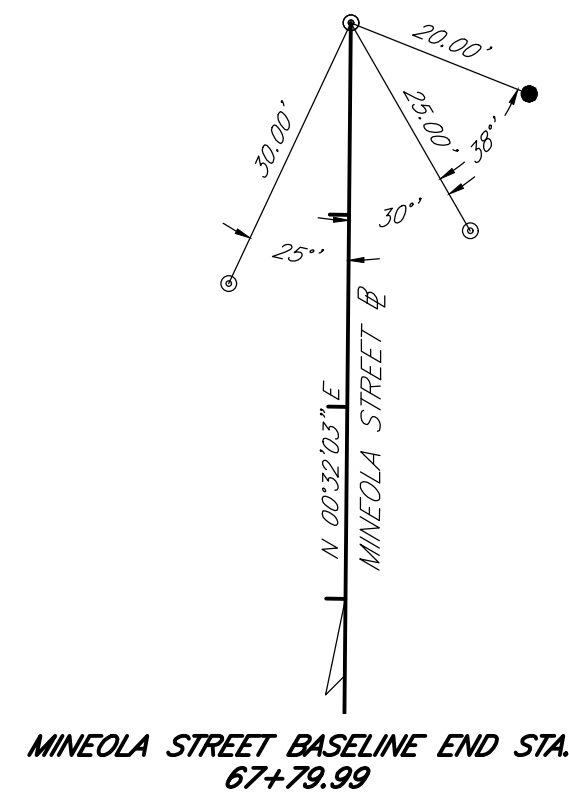
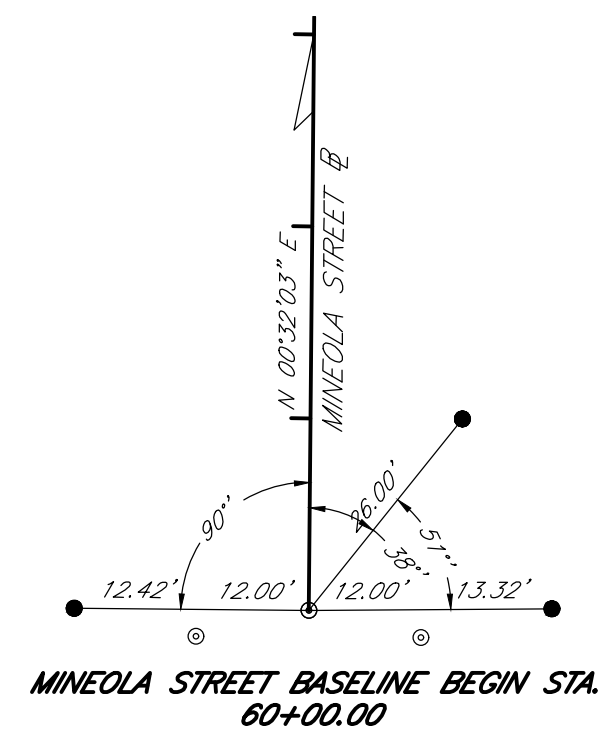
TANGELO PARK WATER MAIN REPLACEMENT BASELINE REFERENCE



PROJECT #	404-6030272
SURVEY #	WA-3
SEC./TWN./RGE	11/35S/17E
SCALE	N.T.S.
SURVEYED	SURVTECH 05/2020
DESIGNED	JSS/BLR 06/2020
DRAWN	BLR/JSS 06/2020
CHECKED	-

J. SHEA SHOUN, P.E.
No. 60923
03/21/2023
PROFESSIONAL ENGINEER

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NO.	REVISION DESCRIPTION	BY	DATE

TANGELO PARK WATER MAIN REPLACEMENT BASELINE REFERENCE



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CHECKED	-

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