

SUMMARY OF 2023 SPECIFICATION UPDATES

Section 1 – General Information

- Under Warranty Repairs 1.3 added a referenced to “The City of Tallahassee Flexible Pavement Design Standard Section 3 E.”
- 1.4 Replaced the language “other pertinent rules and regulations that relate to the project” with “other project requirements.”

Section 2 – Environmental Controls

- 2.2 Reduced days to 14 and replaced “will immediately receive a temporary seeding” with “shall be stabilized through the establishment of appropriate vegetative ground cover.
- 2.3 Replaced “trenching or excavation with “activities that may injure the tree, including, but not limited to, cut and fill activities, building pad placements, road bed construction, construction material storage, driving or parking heavy equipment, or trenching”
- 2.5 add this text to first sentence “and Chapter 12 of the Tallahassee Land Development Code”
- 2.10 Replaced “granted by the District Engineer or his” with “Jurisdictional Entity or their”
- 2.10 Removed “or high tide line”
- 2.11 Added this text to the last sentence “or City Construction Inspector”

Section 3 – Testing and Laboratory Services

- No Changes

Section 4 – Excavating, Backfilling and Compacting

- 4.1.2 Added this text “The data presented in soil reports/surveys (if provided) are based on the tests performed at the specific locations and depths noted, subsurface conditions at other locations may vary significantly from those presented therein. Data provided in soil investigation surveys, reports, etc. shall not be assumed to be a guarantee of the depth, extent, or character of the material present. “
- 4.1.2 Replaced “Plans” with “Contract Documents”
- 4.1.2 Added section heading “i) Utility Restoration.”
- 4.1.4 Replaced the language “State of Florida Manual of Traffic Control” with “Manual on Uniform Traffic Control Devices”
- 4.1.4 Added this text to the last sentence “payment or refunding”
- 4.1.5 Replaced “(must adhere to OSHA and Florida Trench Safety Act requirements) with “All trench excavation shall comply with the Occupational Safety and Health Administration’s (OSHA) trench safety standards, 29 CFR 1926, Subpart P, and all subsequent revisions or updates.”
- 4.1.6 2.11 Added this text to the heading “Ground”
- 4.1.6 2.11 Added this text to the first sentence “The Contractor is responsible for the design, installation, and operation of an adequate dewatering system to dewater excavations. The Contractor shall submit a dewatering plan to the Engineer for his records before beginning construction. Contractor shall furnish”
- 4.2.1 Added this text to the second sentence “City of Tallahassee Flexible Pavement Standard, Latest Edition”

- 4.2.2 Replaced “Pipe Trench and Asphalt Patch within Public R/W and All Improved Areas” with City of Tallahassee Flexible Pavement Standard, latest edition. the Section 3 – Repair of Utility Cuts and Trenches B.
- 4.26. Updated language to Manual on Uniform Traffic Control Devices
- 4.2.8 Revised language to match FDOT “Pavement on paved roadway crossings is to be cut and removed according to the FDOT Standard Plans for Roadway Construction and as specified in the Contract Documents.”
- Added sub section 4.3.2.6 Flowable Fill

Section 5 – Horizontal Directional Drilling

- Updated section to meet or exceed FDOT requirements.

Section 6 – Jack and Bore

- 6.2.2 Carrier Pipe changes for gravity sewer: Gravity sewers with bore lengths less than 60 feet can be DR26 PVC sewer pipe. Gravity sewers 60 feet or greater in length must be restrained joint ductile iron pipe, lined for sanitary sewer application or restrained DR 18 PVC sewer.
- 6.3.3 Added language regarding responsibility: Contractor shall take responsibility for restoring any damage caused by heaving, settlement, separation of pavement, escaping boring fluid (fac-out) of the J&B at no cost to the City.

Section 7 - Distribution and Transmission System Piping

- 7.1.2 Change the language to have the Contractor or agent coordinate, review, date, stamp, approve and sign all shop drawings prior to submitting them to the City for review.
- 7.2.3 Changed the exterior coating for exposed or aboveground ductile iron pipe. Approved primer and top coat products include Tnemec Series N140 Pota-Pox Plus (primer) and Tnemec Series 1095 EnduraShield (top coat) an aliphatic polyurethane or approved equal.
- 7.2.4 Approved PVC pipe manufactures include JM Eagle Corp., National Pipe & Plastics, North American Pipe Corp., Sanderson Pipe Corp., Vulcan Plastics, and Diamond Plastics Corp (added Sanderson and Vulcan)
- 7.2.5 Approved HDPE pressure pipe manufacturers included JM Eagle Corp., WL Plastics and Performance Pipe (removed National Pipe & Plastics and add WL Plastics)
- 7.2.7 Approved Thrust Restraints for Pressure Pipe and Fittings
 - Removed Rieber Lok Gasket for PVC Push-On
 - Changed EBAA Iron Megalug® 19MJG00
- 7.3.1 Added an image of Type 2 trench conditions
- 7.3.1 Removed the a buried EMS marker at each valve
- 7.3.5 Removed using electro-fusion tapping tees on HDPE. All main line taps on HDPE pipe will be made through approved saddles or tapping sleeve and valve.

Section 8 – Distribution and Transmission System Valves and Appurtenances

- 8.1.2 Change the language to have the Contractor or agent coordinate, review, date, stamp, approve and sign all shop drawings prior to submitting them to the City for review.
- 8.2.3 Remove Bingham and Taylor Model 4905 box, and Bingham and Taylor Model 4905-L4 lid
- 8.2.4 Added Standard service connection sizes shall be 1-Inch, 1.5-Inch, 2-Inch, and 4-Inch. Sizes greater than these listed will need to be approved by the City.
- 8.2.4.1.1 Approved 1-inch water service saddle on HDPE pipe are Ford FCP202, Romac 101N-H, Smith-Blair #315 with spring washers, or JCM 404 with stainless steel straps. No substitutes will be allowed.
- 8.2.4.1.2 Approved 1-1/2 and 2-inch water service saddle on HDPE pipe are Ford FCP202, Romac 202N-H, Smith-Blair #317 with spring washers, JCM 406 with stainless steel straps. No substitutes will be allowed.
- 8.2.4.3 Service Tubing remove Type K copper tubing
 - HDPE casing material installation only
- 8.2.4.4 Meter Settings
 - Remove A.Y. McDonald brand meter components (Thread pattern not compatible with other approved products)
 - Added Table 8.4 – Approved Meter Boxes
 - Remove Sch 40 galvanized iron material
 - Remove Carson Plastic TrussT 1015 meter box
- 8.2.4.4.2 Meter Settings (1.5-inch and 2-inch) The City shall furnish and install meter, Customer Valve, and bypass where applicable. The Contractor shall be responsible for connection of meter assembly to private service piping
- 8.2.6. Dry Barrel Fire Hydrants Remove American-Darling B84B5
- 8.2.9 Plug Valves – Complete New Spec
- 8.3.5.1 Service Saddle & Taps Remove Service taps on HDPE using electrofusion tapping tee
- 8.3.6 Dry Barrel Fire Hydrants Added Hydrant assembly shall include and be connected to main using a swivel hydrant tee (MJxSwivel Tee).

Section 9 – Sanitary Sewer Collection System

- 9.1.2 Submittals Change the language to have the Contractor or agent coordinate, review, date, stamp, approve and sign all shop drawings prior to submitting them to the City for review.
- 9.2.1 Revised section to ductile iron pipe may be used if approved by the City.
- 9.2.4 Changed the exterior coating for exposed or aboveground ductile iron pipe. Approved primer and top coat products include Tnemec Series N140 Pota-Pox Plus (primer) and Tnemec Series 1095 EnduraShield (top coat) an aliphatic polyurethane or approved equal.
- 9.2.5
 - Approved PVC pipe manufactures include JM Eagle Corp., National Pipe & Plastics, North American Pipe Corp., Sanderson Pipe Corp., Vulcan Plastics, and Diamond Plastics Corp (added Sanderson and Vulcan)
 - Removed Rieber® gaskets

- Added Inserta-Tee installation will be evaluated by the City on a case-by-case basis for services made to existing sewer pipe
- 9.2.6 Approved HDPE pressure pipe manufacturers included JM Eagle Corp., WL Plastics and Performance Pipe (removed National Pipe & Plastics and add WL Plastics)
- 9.2.7.2 Added Trelleborg Bidco C-56 as a flexible joint sealant
- 9.2.7.6 Clarified that Manhole grade adjustments less than 2" will require bricks cut to needed thickness and mortared in place.
- 9.2.7.7 Added a section on large diameter composite manhole frame and cover and rectangular polymer concrete box and cover
- 9.2.8.7.8 Added Water proof additives are also an approved in lieu of coatings. Approved products included Xypex or approved equivalent) and anti-microbial additive (ConBlock MIC or approved equal)
- 9.2.7.9 Added a table with the approved lining products with application rate
- 9.2.7.11 When curved flow channels are specified in manholes the slope should be increase to maintain acceptable velocities or a 0.1' drop through the flow channel can be used.
- 9.2.8 Added a section Polymer Concrete Vaults
- 9.3.5 Revised Fernco® Strong Back **5000**-Series repair coupling

Section 10 – Submersible Pump Stations

- 10.1.1
 - Replaced valve-vault to valve array
 - Removed Sulzer/ABS from 41HP and Above pumps
 - Specified Belzona 1341
- 10.2.2 Created a section for Pump Openings
- 10.2.6 Wet Well Liners table with the approved lining products with application rate
- 10.2.8 Pump Control System
 - Pump control shall be level transmitter
 - Vegapuls C21
 - Removal of stilling well
- One hard copy and one digital copy of the operating and maintenance manuals instead of four printed copies

Section 11 – Electrical and Field Wiring

- 11.2.4 Added a section for Battery Box
- 11.3.3 Added the cabinet and subpanel shall be stainless steel painted white using the powder coating technique.
- 11.4.1.1 Antenna
 - RF Antenna shall be Yagi, Decibel Projects Model TY900
 - The Cellular Antenna shall be a Laird Technologies 4G/3G Multiband Phantom® Antenna Model# TRA6927M3PB
 - Radio MDS Orbit MCR model #MXNCL9CN4GBNNS1FIDUN1

- 11.4.1.2 Updated Coaxial Cable
- 11.4.1.4 Added a Section for Pressure Transmitter
 - Brand: Rosemount 2051
 - Transmitter Model: 2051TG3A2B21AS1M5T1
 - Remote Seal Model: 1299N2DD00AP1SSSG2F2FBB2
- 11.4.1.5 Phase Relays for 440 volt to SLA-440-ALE

Section 12 – As-Built Survey

- 12.2.2 A copy of the design files will be provided upon request from the city senior inspector.
- 12.3.1 Clarified the PSM shall sign and seal all copies of the as-built drawings. The contractor shall verify the information contained in the as-built is correct prior to submittal.
- 12.3.5.1 No paper copies of as-built submission only electronic files
- 12.3.5.2 As-Built submission for final payment clarification
- Removed all referenced to Layer and Block Use

Section 13 – Standby Generator and Automatic Transfer Switch

- Whole new section

Changes to Construction Details

- G01 Pipe Trench and Asphalt Patch within Public ROW and all Improved Areas
 - Tack coat to be applied to all cut surfaces
 - 6" Over Excavation with Bedding Material as required
- G02 Pipe Trench within Unimproved Areas
 - 6" Over Excavation with Bedding Material as required
- G03 – G10 No Changes
- G11 Standard Main Lowering
 - Added Engineer of Record shall determine if an air release valves if required for sanitary sewer force main applications.
- W01 No Changes
- W02 5/8" and 1" Water Service and Meter Setting
 - Remove electrofusion tapping tee
- W03 1 1/2" and 2" Water Service and Metter Setting – Additions
 - For New Developments, the contractor shall install the water service through the curb stop and place an EMS mark with above ground service marker at the end of the service line.
 - The contractor shall be responsible for the repair or replacement of the meter assembly and appurtenance if damaged by the contractor during construction.
- W04 Manifolds for 5/8" Meter - Additions
 - Engineer of record shall verify available city system pressure at the service location and evaluate potential head loss to determine if a meter manifold is suitable to supply end use flow and pressure demands.
 - For all subdivisions, dual meter manifolds shall be centered on property line.
- W05 – W06 No Changes

- W07 – W08 Removed Copper as an approved material type
- W09 – W12 No Changes
- S01-S17 No Changes
- E01 Drawing includes Control Panel, meter, valve array instead of valve vault, moved details to E01-A, showing the battery box, cellular antenna, pressure transmitter, and main breaker. Modified Note 3 regarding conduits. Revised Note 6. Updated all electrical components to match written specification in Section 11.
- E01 A New Drawing that shows details including new detail for Check Valve Position Switch
- E02 Drawing showing the cellular antenna and cellular surge arrester
- E02 A New Drawing Number that replaced E02.02 show the cellular antenna and cellular surge arrester
- E03 New Drawing Number which replaced E02.03 shows optional pump no. 4, and includes Note 4: UPS inputs wired by sub-panel manufacturer.
- E04 New Drawing Number which replaced E02.04 showing electrical interconnect for optional pump no. 4
- E05 New Drawing Number which replaced E03.01 show the cellular antenna and cellular surge arrester
- E06 New Drawing Number which replaced E03.02 show the cellular antenna and cellular surge arrester and the requirement to have the enclosure and sub-panel to be powder coated white
- E07 New Drawing Number which replaced E03.03 shows wiring for optional pumps number 3 and 4, and includes Note 4: UPS inputs wired by sub-panel manufacturer.
- E08 New Drawing Number which replaced E03.04 showing electrical interconnect for optional pumps numbers 3 and 4.
- E09 New Drawing Number which replaced E04.01 show the cellular antenna and cellular surge arrester
- E10 New Drawing Number which replaced E04.02 show the cellular antenna and cellular surge arrester, changed phase monitor to SLA-440-**ALE**, and the requirement to have the enclosure and sub-panel to be powder coated white
- E011 New Drawing Number which replaced E04.03 shows wiring for optional pumps number 3 and 4, and includes Note 4: UPS inputs wired by sub-panel manufacturer.
- E12 New Drawing Number which replaced E03.04 showing electrical interconnect for optional pumps numbers 3 and 4.