

CITY OF LUFKIN

SSPWC Modifications SPECIAL PROVISIONS

I. Technical Specifications and Miscellaneous Details.

The technical specifications and miscellaneous details are provided in the document produced by the North Central Texas Council of Governments, called "Standard Specifications for Public Works Construction (SSPWC)".

II. Supplemental Conditions.

1. All payment shall be made in accordance with the bid schedule for work completed meeting the technical specifications.
2. Requirements of the City of Lufkin as specified in the Special Provisions and the attached COL details shall supersede the requirements of the SSPWC.
3. The construction plans as approved by the City of Lufkin shall supersede the specifications.

III City of Lufkin Amendments to the SSPWC.

Section 1.

Item 1.0 Definitions. Abbreviations shall be modified as follows:

TxDOT (in lieu of Texas SDHPT) - Texas Department of Transportation.
TXU (in lieu of Texas Power & Light Company) TXU Electric & Gas, TXU
Communications
COL - City of Lufkin
Entex - Reliant Energy/Centerpoint Energy
Add abbreviations as follows:
ACI - American Concrete Institute
AISC - American Institute of Steel Construction
A&NR - Angelina Neches River Railroad
EA - Each (quantity)
FL - Flowline or invert elevation
NEC - National Electric Code
NFPA - National Fire Protection Association
OSHA - Occupational Safety & Health Administration
SSPC - Steel Structures Painting Council
SBCCI - Standard Building Code Congress International
TCEQ - Texas Commission on Environmental Quality
TNS - Tons (quantity)
UL - Underwriter's Laboratories

UBC - Uniform Building Code
UP - Union Pacific Railroad
VF - Vertical foot or feet (quantity)

Item 1.20.4 Existing Structures. Add: Any utility encountered which interferes with lines or grades will be adjusted by the appropriate utility company or agency. It is mutually agreed that such adjustments or delays caused by utility interference shall not be considered sufficient basis for claims or damages for additional compensation.

Item 1.26.5 Policy Endorsements and Special Conditions. (a)(1). Add Engineer as an additional insured to all applicable coverage.

Item 1.26.5 Policy Endorsements and Special Conditions. (c)(1). Add Engineer on waiver of subrogation.

Item 1.51.1 Monthly Estimate. Add; For projects where funding is provided by or partially by State of Federal grants, payment will be made within ten (10) days of the receipt of funds by the Owner. Allow 45-days minimum for the Owner to receive payment for ORCA grant funds.

Section 2.

Item 2.1.7 Pipe Bedding Material For Storm Sewers. (b) Earth Bedding. Delete the last two sentences. Add: Bedding shall be as required on the plans and the COL Bedding Details for Storm Sewers.

Item 2.1.7 Pipe Bedding Material For Storm Sewers. (c) Trench. Delete all sentences. Add: Unless otherwise shown on the plans, all sewer pipe structures shall be constructed in an open cut with vertical sides to a point one (1) foot above the pipe. When site conditions or the plans do not prohibit the sloping of the cut, the excavation one (1) foot above the pipe may be stepped and/or the side laid back to a stable slope. Required vertical sides shall be sheeted and braced when necessary to maintain the required vertical excavation throughout the construction period. Unstable material shall be removed from the bottom of the trench to a depth not less than two (2) feet below the pipe. All soil removed shall be replaced with stable material in uniform layers not to exceed eight (8) inches in depth.

Item 2.2.5 Dowel Bars. (a). Modify second sentence to read as follows: Dowel bar coating shall be as specified on the plans if required.

Item 2.2.9 Joint Filler (b) Material. Only redwood and premolded asphalt board materials will be allowed.

Item 2.2.10 Joint Sealing. Delete entire section. Add: Joint sealing material shall be as shown on plans and approved by Owner. Joint sealing material shall be installed

according to the manufacturer's recommendations. Joint sealing material must seal entire depth and width of opening from expansion material to the pavement surface. No backer-rod will be allowed.

Item 2.3.2 Drain Title (a) Clay Drain Tile. Clay drain tile is not allowed. Drain tile shall be PVC or HDPE as specified by the Engineer.

Item 2.4.11 Catalytically-Blown Asphalt Joint and Crack Sealer. Delete. Not allowed.

Item 2.4.14 Asphaltic Stabilized Base. (B) Tack Coat. Delete. Add: Tack coat shall be an emulsified asphalt, CR-S2, unless otherwise specified on the plans and approved by the Owner.

Item 2.5.1 Lime. (a) General. Add: Pelletized lime may be used as approved by the Engineer and Owner.

Item 2.12 Underground Conduit and Related Material. The following sections are deleted:

Item 2.12.1 Clay Sewer Pipe

Item 2.12.2 Concrete Sewer Pipe, Nonreinforced with Rubber Gasket Joints

Item 2.12.4 Reinforced Concrete Sewer Pipe with Rubber Gasket Joints

Item 2.12.5 Concrete Pressure Pipe and Fittings

Item 2.12.6 Thermoplastic or Thermosetting Coated Concrete Pipe and Fittings

Item 2.12.7 Gray Iron Pressure Pipe and Fittings

Item 2.12.23 Fiberglass (Glass-Fiber Reinforced Thermosetting-Resin) Sewer Pipe

Item 2.12 Underground Conduit and Related Material. Add: Underground conduit material shall be as specified on plans and approved by Owner.

Item 2.13.1 Gate Valves for Ordinary Waterworks Service. (2). Tapping Sleeves. All tapping sleeves shall be stainless steel. See COL of standard detail.

Item 2.15.2 Fertilizer. (b) Initial Planting Application. Change percentage of nutrients to read 15-5-10 (N-P-K)

Section 3.

3.1.2 Construction Methods. Third paragraph. Add to first sentence: or removed as specified on plans and approved by Owner.

3.3.5 Excess Excavation. Add: Excess excavation shall be removed and disposed of by Contractor unless otherwise indicated on plans. Payment shall be subsidiary to the appropriate bid item.

3.10.4 Broadcast Seeding. Sowing of seeds shall be completed by mechanical methods only. Hand broadcasting is not allowed.

Section 4.

Item 4.2.5 Vibratory Rollers. Add: Vibratory Rollers shall have a double drum tandem vibratory compactor with a minimum weight of seven (7) tons.

Item 4.5 Flexible Base (Crushed Stone). Item 4.5.2 Construction Methods. (d). Density shall be 95% Standard Proctor.

Item 4.6.4 Construction Methods. (b). Add: (3) Pelletized lime shall place as approved by the Engineer.

Item 4.8 Asphalt Treatment. Delete entire section.

Section 5.

Item 5.7.5 Measurement and Payment. Payment shall be made based area (S.Y.) only. Payment will not be made by weight.

Item 5.8.2 Construction Methods. (b). Change 92 percent to 95 percent standard proctor.

Item 5.8.6 Pavement Testing. Proportional pricing for pavement thickness is not allowed. Pavement must meet or exceed specified thickness.

Section 6.

Item 6.1.10 Grades. Water main minimum cover from finish grade to top of pipe shall be as follows:

Main Size	Minimum Cover (ft.)
4" through 12"	3 feet
14" through 18"	4 feet
20" and larger	5 feet

Engineer shall provide additional cover as required to protect water main from roadway or grading construction.

Item 6.4 Jacking, Boring, or Tunneling. Item 6.4.3 Construction Methods. (a). Casing spacers shall be provided as required by the COL standard Bore & Case Detail.

Item 6.5 Street Cut Excavation and Repair Standards. 6.5.1 General Requirements. All payment shall be on a per square yard basis for the complete repair including all appurtenances. Payment shall not be made on a breakdown of components of the repair.

Item 6.6.4 Railroad Crossings. Change to read as follows: All railroad crossings shall conform to the requirements of Union Pacific and Angelina-Neches Railroad as appropriate. All railroad crossings shall be permitted by the appropriate railroad company.

Item 6.7.2 Sanitary Sewer. All sanitary sewer mains and appurtenances shall be tested as required by the TCEQ or appropriate State Agency. The COL shall investigate all newly constructed sanitary sewer mains, utilizing TV cameras, for improper construction. Any improper joints, sags, or excess deflection shall be repaired by the Contractor as required for acceptance by the COL.

Item 6.7.2(g) Sanitary Sewer. Deflection Testing. Add as follows: Mandrel Testing: 1. Use a mandrel with its diameter set to 5% less than the nominal interior diameter (ID) of the pipe being tested. Calibrate the mandrel's diameter by a true circular ring prior to testing, and obtain the Engineer's approval. Clear the invert of the pipe of any debris prior to testing. 2. Shoot, blow, or float a line through the pipe. Attach the tow line and a trailing line to the mandrel for testing. Depending on the mandrel, it may be necessary to keep tension on the trailing line to keep the mandrel from tipping. Pull the mandrel, from the outlet end through the test segment by hand. Do not apply excessive force in pulling the mandrel that may damage the pipe or that may erroneously indicate that deflection was within acceptable limits by temporarily expanding the pipe. The line shall be termed "acceptable" if, during final deflection testing, the mandrel passes completely through the line without restriction. If the mandrel fails to pass a segment of line due to over deflection then the contractor shall dig up that portion of line and repair the pipe in accordance with City of Lufkin requirements.

Item 6.7.3 Water Conduit Installation. (e)(2). Change to as follows: mechanical type used for gray or ductile iron and plastic pipe. Asbestos-cement pipe is not allowed.

Item 6.7.3 Water Conduit Installation. (f). Remove references to asbestos-cement pipe for hydrostatic testing.

Item 6.7.3 Water Conduit Installation. (j)(1)(A)(1). Direct tapping of water main is not allowed. A tapping saddle is required for all taps.

Item 6.7.3 Water Conduit Installation. (r)(2). Concrete blocking cost shall be subsidiary to the linear foot cost of pipe and installation.

Item 6.7.3 Water Conduit Installation. (s)(1). Testing and sterilization shall be completed by the Contractor. Costs for testing/disinfection shall be subsidiary to the linear foot cost of pipe and installation.

SECTION 8.

Item 8.2.3 Construction Methods. (d). Modify: Expansion joints shall be placed in the

curb and gutter at 60 feet intervals or as approved by the Owner.

Item 8.2.3 Construction Methods. (d). Modify: The dowel shall be a minimum of 18 inches in length. One-half of the dowel shall have a plastic sleeve or as approved by Owner.

Item 8.3.3 Construction Methods. (c). Change 90 percent to read "95 percent standard proctor".

IV. **SSPWC Section II. Standard Drawings.**

City of Lufkin details as attached Plans supercede appropriate standard drawings as illustrated in the SSPWC.

V. **Miscellaneous Items**

- A. **Disinfection of Waterlines** - Disinfection and sampling to follow TCEQ criteria and AWWA C651. Costs for testing are to be included in pipe prices.
- B. **Existing Utilities** - Existing abandoned utilities are to be left in place.
- C. **Neighborhood Meeting** - The Contractor awarded the project may be required to attend a neighborhood meeting with City personnel and the project engineer prior to construction. The purpose of the meeting is to inform the public on the related issues of the project. Specific items to be discussed will included, but not be limited to:
 - 1. Purpose of project
 - 2. Specific project locations
 - 3. Inform public what to expect during construction, such as R.O.W. excavations, easements, roadways, clean-up and site restoration, etc.
- D. **Global Positioning System (GPS)** - Coordinates will be taken by City personnel on **EVERY** valve, tap, tee, etc. Contractor will be required to provide access to these locations during construction. General locations on top of ground located by the Contractor will not be acceptable.
- E. **Field Changes** - By the request of the City Engineer, no changes are to be made in the field without **PRIOR** approval from the City Engineer. Personnel unauthorized to make field changes include City Inspectors and Surveyors. The design engineer may be contacted about possible changes. There are **NO EXCEPTIONS** to this requirement. If changes are made in the field without direct written approval from the City Engineer, the Contractor will have to redo the work at his expense.
- F. It is suggested the project area be videotaped by Contractor prior to beginning construction for documentation. City may videotape project area for documentation.

G. Pipe and culvert materials shall be as follows:

Water Distribution System:

Less than 4" - SDR 21 (PR-200) PVC

4" - 12" - AWWA C900 (DR18) PVC

12" - Greater - AWWA C905 (DR25) PVC

Service Lines:

1" - SDR-9 PE Service Tubing CPS Size

Sewer Collection System:

ASTM D-3034 SDR-26

Service Lines:

Less than 6' - ASTM D-3034 SDR-35

6' and Greater - ASTM D-3034 SDR-26

Storm Sewer:

12-"48" HDPE AASHTO M294, Type S, Watertight Joint ASTM D3212
or Concrete Pipe Class III, ASTM C76