

GENERAL NOTES:

- It is the CONTRACTOR's responsibility to maintain neat and accurate plans of record.
- The CONTRACTOR is responsible for maintaining adequate site drainage throughout the duration of this project.
- The CONTRACTOR is responsible for obtaining all necessary permits and approvals before construction begins.
- The CONTRACTOR shall replace all fence removed during construction in as good as or better condition than before construction.
- The CONTRACTOR shall take all necessary precautions to ensure that electric power and telephone poles are either moved to a safe location by the affected utility company or not disturbed during construction. All costs incurred for moving electric power and telephone poles shall be included in the price bid for the construction of the project.
- The CONTRACTOR shall restore all property including driveways, public streets, sidewalks, public utilities, franchise utilities, private utilities, and all other improvements removed or damaged inside and outside the project limits during construction to as good as or better condition than before construction. Restoration shall be made immediately after the property no longer interferes with construction. All costs incurred for restoring any of the above items shall be included in the price bid for the construction of the project.
- The information shown on these drawings concerning type and location of underground and other utilities is not guaranteed to be accurate or all-inclusive. The CONTRACTOR is responsible for making his own determinations as to the type and location of underground utilities and other utilities as may be necessary to avoid damage thereto.
- The CONTRACTOR shall not place fill or waste material on any private property without prior written permission from the ENGINEER. No excess excavated material shall be deposited in low areas or along natural drainage ways that will restrict the natural flow of water. If the CONTRACTOR places excavated material in low areas that will cause flood damage, CONTRACTOR will be responsible for all damage resulting from such fill, and he shall remove the fill at CONTRACTOR's expense.
- All streets within the scope of the Contract shall be kept accessible to fire trucks, ambulances and other emergency vehicles.
- The CONTRACTOR shall be responsible for public safety during the duration of construction. All barricades, warning signs, lights, devices, etc., for the guidance and protection of traffic and pedestrians must conform to the installation shown in Texas Manual of Uniform Traffic Control Devices, as currently amended by the Texas Department of Transportation. CONTRACTOR shall at all times provide barricades, warning signs and lighting adequate to safeguard the public from any hazards resulting from open trenches during non-work hours.
- Filter fabric fence for erosion control shall be provided in accordance with specifications and as shown on the plans and in accordance with the EPA regulations.
- The CONTRACTOR shall use the public right-of-ways and existing utility easements for access to the job site.
- The CONTRACTOR shall select the subcontractor to be utilized for testing and lab work. The CONTRACTOR shall be responsible for paying for testing and lab work except for the first test. Selection of subcontractor for this purpose will be subject to approval by the OWNER. Testing referred to herein includes compaction and water pressure testing, which shall be required on this project.
- The CONTRACTOR shall keep excavated trenches free of groundwater during construction. If necessary, the CONTRACTOR shall utilize dewatering procedures in order to control groundwater during construction such that it does not affect his construction work.
- The CONTRACTOR shall provide means for adequately controlling and avoiding soil erosion during construction. The CONTRACTOR shall not store spoil in drainage ways during construction.
- All disturbed earth areas are to be finish graded to original or proposed contours, fertilized and either hydromulched with bermuda seed or covered with block sod according to NCTCOG specifications immediately after construction. Backfill to be select material free of rock and other debris. CONTRACTOR shall thoroughly water the hydromulch or block sod immediately after placement. Block sod shall match the existing type of grass on a case by case basis. There shall be no separate pay for matching each type of grass. The CONTRACTOR shall also be responsible for continued maintenance and watering of the newly hydromulched or sodded areas until the entire project is completed and accepted by the City of Rockwall. Watering of the bermuda hydromulch or block sod shall be done in a manner and quantity as directed by City of Rockwall field representative. Block sodding shall be utilized to cover areas disturbed in the City road right-of-way.
- No existing sprinkler/irrigations systems have been shown on the plans; however, they may exist in certain areas. It is the CONTRACTORS responsibility to locate any existing irrigation systems within the project limits and determine if they will be affected by this construction. If CONTRACTOR encounters any sprinkler systems during construction, he shall repair and/or replace in as good as or better condition than before construction. All costs incurred for restoring any sprinkler/irrigation systems shall be included in the price bid for the construction of the project.
- The CONTRACTOR shall maintain adequate sanitary facilities for use by workers throughout construction.
- The CONTRACTOR shall conform to the Occupational Safety and Health Administration's (OSHA) standards for trench safety that are in effect during the period of construction.
- All materials and workmanship shall conform to the City of Rockwall Standards and Specifications and the North Central Texas Council of Government (NCTCOG) Standards and Specifications 3rd edition, except as noted. In the event of a conflict, the City of Rockwall Standards and Specifications shall govern.
- No existing trees shall be removed without approval of the City of Rockwall.
- CONTRACTOR shall provide all necessary construction staking.
- CONTRACTOR's working hours shall be in accordance with the provisions of the current City Ordinance governing hours of construction work in the City.
- The CONTRACTOR shall assume responsibility for protection of public utilities in the construction of this project. All manholes, valve boxes, fire hydrants, etc., must be adjusted to proper line and grade by the CONTRACTOR prior to and/or after placing any permanent paving. The CONTRACTOR shall also be responsible for support of existing utility poles, street signs, etc., when excavating in the vicinity of such poles.

GENERAL NOTES CONT'D.:

- Driveways affected by construction shall be replaced with driveway of same type material and surface as that removed for installation of water line. Driveway culverts shall be removed when necessary to allow for construction of water line. Culverts are to be replaced in the same location if condition of culvert is deemed satisfactory by OWNER. If culvert cannot be salvaged, a new culvert of the same type removed will be installed by the CONTRACTOR. Driveways that are disturbed during construction shall be restored to as good as or better condition than they were prior to construction and materials utilized to restore the driveway shall be the same material as what the driveway is presently made of. All costs incurred for removing and replacing driveways and/or driveway culverts shall be included in the price bid for the construction of the project.
- All existing water lines and service lines to remain in service during construction. At times when water has to be cut-off, the CONTRACTOR shall coordinate with the City of Rockwall Water Department (972-771-7730) to notify the affected area at least 48 hours prior to water cut-off.
- The CONTRACTOR shall phase his daily work schedule so that all driveway crossings are to be complete prior to the end of the day. No driveway crossings are to be left open overnight. During installation of the pipeline across driveways, the CONTRACTOR shall be prepared to provide access across trenches and driveways at all times in case of emergency.
- Proposed water line shall be polyvinyl chloride (PVC) AWWA C900, DR 14 Class 200. New water service lines shall be Poly SDR 9 pipe with compression type fittings. Main line valves and fittings shall be cast iron.
- CONTRACTOR shall install isolation gate valves and fire hydrants at locations shown on plans unless otherwise directed by OWNER. OWNER may direct CONTRACTOR to locate valves and fire hydrants at locations other than those shown on plans. Also, OWNER may add additional isolation gate valves and fire hydrants as required for operational purposes.
- The CONTRACTOR is responsible for keeping streets, parking areas, sidewalks, etc., adjacent to the project free of mud and debris from construction.
- The City of Rockwall Engineering Department Construction Inspector is to be notified 48 hours (2 working days) prior to any construction of paving and utilities in rights-of-way and easements.
- Arrangements for construction water shall be made through the City of Rockwall Water Department (972-771-7730).
- All locations of underground utility lines are approximate. CONTRACTOR shall contact the proper utility companies at least 48 hours prior to construction, shall inform them of beginning of construction and shall make arrangements to have utilities located by flagging. Flagging of utilities shall be completed prior to beginning construction.
- PVC pipe shall be manufactured from a low filler PVC component capable of meeting the highest performance standards of the ASTM specifications.
- Construction sites shall be secure at all times. Safety precautions shall be taken to protect the public from any injury which might result from construction activities.
- As part of bid item, "EROSION CONTROL", the CONTRACTOR shall be responsible for implementing any and all erosion control measures as needed to control runoff of siltation from the project site. This shall include, but is not limited to, silt fencing, rock berms, etc. The CONTRACTOR shall maintain these erosion control measures as required until the construction is completed and sod has been placed over disturbed areas.
- CONTRACTOR shall expose each existing pipeline to which a proposed pipeline will be connected and shall verify the horizontal and vertical location of the existing pipeline prior to the installation of the proposed pipeline.
- Proposed water line shall have a minimum cover of forty eight inches (48").
- The fittings for the proposed water line shall be AWWA C153 compact fittings.
- All materials furnished and installed on this project shall be domestic materials and shall be in compliance with the appropriate AWWA Standards for such items.
- Block sodding shall be installed to match surrounding areas where the ground is disturbed in the construction area. City reserves the right to provide direction with regard to areas to be sodded. The CONTRACTOR will receive payment only for the square yards of area actually sodded in the construction area.
- If any conflicts with other utilities occur during the construction activities, the CONTRACTOR shall immediately notify the City's representative and shall make adjustments as necessary with City's concurrence.
- No connections to other City water distribution lines shall be made on Fridays.
- CONTRACTOR is responsible for locating all existing buried lines. Locations of pipelines shown on the plans are approximate and are to the best knowledge of the engineer. CONTRACTOR will make all repairs to existing lines damaged during construction work and will have materials on hand to make such repairs.
- CONTRACTOR shall take the existing water lines out of service and abandon in place once all service connections are changed over. CONTRACTOR shall cut and plug existing water lines in a sufficient manner to prevent loss of water.
- Mega-lugs shall be furnished and installed on all bends, valves, joints, and other fittings that are required for the proposed water line.
- Blue EMS locator marker pads shall be furnished and installed no deeper than 4 feet by the CONTRACTOR at 250' intervals along the water line, beside all valves, above all bends, and above all corporation stops on the proposed water line.
- If the CONTRACTOR excavates a trench for the proposed water line and proposed sanitary sewer line to a depth requiring a trench safety plan, CONTRACTOR shall provide a trench safety plan prepared and sealed by a licensed engineer, which shall be in conformance with OSHA requirements. CONTRACTOR shall provide trench safety during construction per the trench safety plan when and where it is required as a result of OSHA requirements, job conditions, site conditions, or soil conditions.

GENERAL NOTES CONT'D.:

- Proposed sewer line shall be polyvinyl chloride (PVC) SDR 35 for sewer line less than 10 feet deep and SDR 26 for sewer line more than 10 feet deep.
 - Green EMS locator marker pads shall be furnished and installed no deeper than 4 feet by the CONTRACTOR at 250' intervals along the sewer line, beside manholes and cleanouts, and above all changes in direction.
 - Manholes shall be Raven lined or lined with approved equal lining system.
 - There is no separate pay resulting from any of the work required as a result of the requirements included in these general notes, unless otherwise noted. All work required shall be included in the unit price bid for the project.
 - City of Rockwall is a tax exempt entity. Therefore, material provided for this project shall be tax exempt. The City will provide the appropriate tax exempt forms to the CONTRACTOR for their utilization on this project.
 - The City is willing to pay the contractor for 85% of materials on hand during construction of the project. CONTRACTOR will be responsible for providing the City with adequate documentation regarding the purchase of the materials on hand.
 - All of the items furnished and installed for this project will be in accordance with the North Central Texas Council of Governments Public Works Construction Standards, 3rd Edition (1998) (as modified by the City of Rockwall addendum), except for the asphalt pavement replacement. Asphalt pavement replacement shall be in accordance with the attached detail entitled "Typical Asphalt Pavement Repair Section".
 - Any concrete driveways removed in order to install the pipelines on this project shall be replaced with 6" thick concrete, including No. 3 reinforcing bars at 24" centers. The concrete furnished and installed for this purpose shall be 3,600 psi, 6 sack minimum.
 - CONTRACTOR shall remove existing sanitary sewer line as necessary in order to install the proposed sanitary sewer line. If the CONTRACTOR utilizes sewage bypass pumping in order to install the proposed sewer lines, arrangements for the bypass pumping shall be made by the CONTRACTOR and the cost of such bypass pumping shall be incidental to the project and shall be included by the CONTRACTOR in the price bid for the project. CONTRACTOR shall be responsible for coordinating with property owners in making connections to the individual property owner's sanitary sewer service lines.
- ⚠ 58. A SWPPP is not required for the potholing phase of the project.

CONSTRUCTION SEQUENCE:

- The first thing the CONTRACTOR shall do on the project is locate certain existing City utilities (by pot holing) and provide the information on the location of the City utilities to the City and the Engineer. The City utilities to be exposed in order to verify their horizontal and vertical location include the following (Locations shown on Pot Hole Location Map, Sheet 4):
 - Existing 18" storm sewer lateral located near Sta. 0+29.6 of the proposed St. Mary Street sanitary sewer.
 - Existing 30" storm sewers located near Sta. 6+64.7 and Sta. 6+68.7 of the proposed St. Mary Street sanitary sewer.
 - Existing 1 1/2" water line located in St. Mary Street.
 - Existing 2" water line located in Bost Street.
 - Existing 2" water line located in Sherman Street.
 - Existing 6" sanitary sewer line located in St. Mary Street.
 - Existing 4" sanitary sewer line located in Sherman Street.
 - Existing 4" sanitary sewer line located in Bost Street.
 - After the CONTRACTOR has located the City's existing utility lines, he shall install the proposed wastewater lines, sewer service lines, water lines, and water service lines and shall place the proposed wastewater lines and water lines into service. Then, the CONTRACTOR shall abandon the existing wastewater lines and water lines. In each case, the existing wastewater lines and water lines shall remain in service until the new wastewater lines and water lines are installed and placed into service, including switching over the sewer service lines and water service lines to the new wastewater lines and water lines. The CONTRACTOR may work on Sherman Street and Bost Street concurrently. The wastewater lines and water lines shall be replaced in the following order:
 - St. Mary Street Wastewater Line
 - St. Mary Street Water Line
 - Sherman Street Water Line
 - Sherman Street Wastewater Line
 - Bost Street Water Line
 - Bost Street Wastewater Line
- ⚠

This Record Drawing is a compilation of the sealed engineering drawing for this project as modified by addenda, change orders, and information furnished by the Owner and/or Contractor (Pittard Construction Company). The information shown on the record drawing that was provided by the Contractor or others not associated with the Engineer, cannot be verified for accuracy or completeness. The original sealed engineering drawings are on file at the office of:
 BW2 Engineers, Inc.
 1919 S. Shiloh Road, Suite 500
 Garland, Texas 75042
 (972) 864-8200
 RECORD DRAWINGS PREPARED ON:
 06/01/20

!! CAUTION !!

THERE ARE EXISTING AND/OR PROPOSED UTILITIES IN PROJECT AREA. UTILITY INFORMATION SHOWN ON PLANS REPRESENTS APPROXIMATE LOCATIONS OF EXISTING UTILITIES AND IS NOT NECESSARILY ALL-INCLUSIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT LOCATIONS OF ALL EXISTING UTILITIES AND SHALL BE REQUIRED TO PROTECT UTILITIES TO AVOID DAMAGE.

PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT TEXAS811 AND OTHERS AS REQUIRED TO LOCATE EXISTING UTILITIES.

CONTRACTOR SHALL ALSO CONTACT APPROPRIATE CITY UTILITY DEPARTMENT FOR FIELD LOCATES OF MUNICIPAL INFRASTRUCTURE 48 HOURS PRIOR TO CONSTRUCTION.

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⚠	10/31/19	REVISED PER ADDENDUM NO. 1	MRB
NO.	DATE	REVISION	REVIEWED

DRAWN: _____ BW2
 DESIGN: _____ MRB
 REVIEWED: _____ JFW
 SCALE: _____ NO SCALE
 DATE: _____ OCTOBER 2019
 DWG. NAME: _____ 1933GENNOTE



BW2 ENGINEERS, INC.

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THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY MICHAEL R. BURGE, TEXAS P.E. 41290 ON 10/31/19. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

WATER LINE AND WASTEWATER LINE REPLACEMENT PROJECT
 (ST. MARY STREET, BOST STREET, AND SHERMAN STREET)
PROJECT GENERAL NOTES
CITY OF ROCKWALL

SHEET NO. **2**
 OF **29** SHEETS
 JOB NO. **19-1933**