

1
UTILITIES

The location of utility facilities as shown on the plan and profile sheets, and herein described, were obtained from the best available information at the time of bid. The Contractor shall verify all existing utility information provided in the contract. The known utilities within the limits of this project are:

Colorado DOT	Dave Pierce	(719) 562-5523
City of Pueblo Wastewater	Sam Vigil	(719) 543-2860
City of Pueblo Streets	John Dagenais	(719) 543-1209
Pueblo Conservation district	Rick Kidd	(719) 544-5239
Pueblo Board of Water Works	Lee Huffstutter	(719) 584-0271
Aquila Networks - Electric (Distribution)	Elmo Bailey	(719) 546-6423
Aquila Networks - Electric (Transmission)	Dave Wixom	(719) 546-6448
Xcel Energy (gas)	Geri Ross	(719) 549-3607
Qwest Communications	Rachel Sauer	(719) 562-4748
Comcast (formerly AT&T Broadband)	Randy Pace	(719) 546-3216 ext 8645
Union Pacific Rail Road (Road Master)	?????????	?????????
BNSF Rail Road-(Road Master)	Laurence Guerrero	(719) 549-3528

The work described in these plans and specifications will require coordination between the Contractor and the utility companies in accordance with subsection 105.10 in conducting their respective operations, so the utility work can be completed with minimum delay to all parties concerned.

The Contractor shall provide rough grading and traffic control for any utility work expected to be coordinated with construction, as directed by the Project Engineer. However, traffic control for utility work outside of typical project work hours shall be the responsibility of the utility owner.

The Contractor shall coordinate expected relocation completion schedules with each utility after notice to proceed. The Contractor shall complete a project schedule and updates to that schedule so that the project will be completed in the time frame allowed in this contract considering utility relocations and utility coordination at the time of construction.

The Contractor shall comply with Article 1.5 of Title 9, CRS ("Excavation Requirements") when excavating or grading is planned in the area of underground utility facilities. The Contractor shall notify all affected utilities at least two (2) business days, not including the actual day of notice, prior to commencing such operations. The Contractor shall contact the Utility Notification Center of Colorado (UNCC) at phone no. 1-800-922-1987, to have locations of UNCC registered lines marked by member companies. All other underground facilities shall be located by contacting the respective owner. Utility service laterals shall also be located prior to beginning excavation or grading.

(a) Part 1 - The work listed below shall be performed by the Contractor in accordance with the plans and specifications, and as directed by the Engineer:

The Contractor shall keep the utility companies advised of any work being done to their facilities, so that the utility companies can coordinate their inspections for final acceptance of the work with the Engineer. The Contractor will be required to provide written notice to each utility company and the Engineer prior to any utility work expected to be coordinated with construction. The number of day's prior written notice is noted for each company where coordinated work on the facility is required:

Coordinate project construction with the utility owner of each utility work element listed in Part 2 below. Perform preparatory work specified in Part 2 for each utility work element. Provide an accurate construction schedule that includes all utility work elements to the owner of each impacted utility. Provide each utility owner with periodic updates to the schedule. Conduct necessary utility coordination meetings, and provide other necessary accommodations as directed by the Engineer. Notify each utility owner in writing, with a

2
UTILITIES

copy to the Engineer, prior to the time each utility work element is to be performed by the utility owner. Provide advance notice as specified in Part 2 immediately prior to the time the utility work must begin to meet the project schedule.

Perform each utility work element for every utility owner listed here in Part 1. Notify each utility owner in advance of any work being performed by the Contractor to it's facility, so that the utility owner can coordinate it's inspections of the work for final acceptance with the Engineer.

1. **Pueblo Board of Water Works.** Complete waterline vertical adjustments, install new water services, and reset existing hydrants at locations that are shown on the utility plans. The Contractor shall adjust to proposed finish grade water valve boxes and water meters as necessary and at locations that are shown on the utility plans. (30 days prior written notice). Payment to be made via contract bid items.

The existing 8 inch waterline on the west end of the 4th Street Bridge is asbestos material. The Contractor shall remove and dispose of this pipe material as part of the vertical adjustment. The Board of Water Works shall be contacted by the Contractor prior to starting this operation. The Contractor shall take all precautions necessary for the safe handling and disposal of asbestos. Payment will be with bid items in plans.

Work to be performed on the Board of Water Works facilities must be completed by Contractors that are approved by the Board of Water Works. Either pre-approved contractors may be used or contractors may submit to the Board and gain approval. Contact the Board of Water Works for approval requirements.

2. **Xcel Gas.** Coordinate gas line vertical adjustments at locations shown on the utility plans. The contractor shall be responsible for excavation and traffic control for Xcel to complete this work.(30 days prior written notice). Payment to be made via contract bid items.
3. **Qwest Communications.** Coordinate the installation of new conduits and vault boxes and the relocation of existing Qwest communication lines at locations as shown on the utility plans. The Contractor shall install new conduits from vault box to vault box, including conduits and hanger system inside the Westbound bridge. Once complete, Qwest will install all cable and perform all splicing. Splicing shall be coordinated by the Contractor. The Contractor is responsible for excavation to rough finish grade, the coordination of all utility crossings to avoid conflict, and traffic control for Qwest to complete this work. (30 days prior written notice to initiate the work). Existing cable within the project limits shall remain the property of Qwest. Payment to be made via contract bid items.
4. **Aquila-Electric (Distribution).** Install conduit and street lighting system according to the street lighting plans. Coordinate connections at new transformers and the taps off the existing distribution system to the new transformers (by Aquila). Coordinate connection to the maintenance power and lighting systems inside the bridge girders installed by the Contractor. Coordinate the proposed work with Aquila for the required inspections and any requirements necessary for Aquila to take over ownership and maintenance of the final street lighting system upon completion of the project. (30 days prior written notice). Payment to be made via contract bid items.
5. **Aquila-Electric (Transmission)** – Aquila currently has transmission lines located at Station 29+65 (69kV), and Station 31+30 (115kV) in the identified 4th Street Bridge project. Both lines cross the current bridge and will occupy the current easement and airspace over the new proposed bridge. Existing transmission line poles in the proposed alignment will be relocated by Aquila prior to contract award.

3
UTILITIES

The lines are a vital part of the western power grid and are interconnected with the grid. Aquila has made provisions to deenergize the identified transmission lines in the past and will work with CDOT and its representatives and Contractors in the future.

Aquila is able to accommodate planned outages in low load months (September through May). Outages are accommodated based on load flows and system availability in the Rocky Mountain area. The system load typically reaches a peak in the summer months from June through mid September. The above mentioned months are in the Aquila designated "no outage period". Aquila will consider outage requests during this time, but cannot guarantee granting of such request. All other requests in the low load months are required to be submitted a minimum of 72 hours prior to the planned outage. This allows system planning engineers a chance to review projected flows and make the required changes to the system prior to the outage.

Aquila typically accommodates planned outages and switching for large projects such as the 4th Street Bridge project. Aquila will work with the Contractor during the construction process including caisson drilling and installation to provide outages and a suitable work environment for construction personnel and equipment.

Aquila crews will be routed for switching and grounding of the lines to protect the parties doing work within the transmission limits of approach, which is addressed by OSHA in the 29CFR 1910.269 Standard. Outages are typically kept to a minimum, with the coordination for length of time determined by the Transmission Supervisor and System Planner. Overnight outages are scrutinized but not impossible. Job planning will include the Transmission Supervisor. Aquila has a Lock Out and Tag Out process which will include involvement by the Contractor thru the Transmission Supervisor.

The Transmission Supervisor contact is listed below. It will be the Contractor's responsibility to contact the designated representative for Aquila and submit job plans and requests for outages prior to the 72 hour advance notice.

Dave Wixom
Aquila
Supervisor of Transmission
105 South Victoria
Pueblo, Co 81003
Office 719.546.6448
Fax 719.562.5448
dave.wixom@aquila.com

(b) PART 2 - The work listed below will be performed by the utility owners, and or their agents:

The utility owner shall prepare and submit to the CDOT Engineer a Method of Handling Traffic for utility work to be performed outside typical project work hours. The utility owner shall obtain acceptance of the Method of Handling Traffic from the CDOT Engineer prior to beginning the utility work to be performed outside typical project work hours.

- 1. Pueblo Board of Water Works.** Install meters for irrigation system. Payment to be made via Force Account.
- 2. Xcel Gas.** Perform the gas line vertical adjustments that are shown on the utility plans. The Contractor shall notify Xcel a minimum of two weeks in advance of the anticipated relocation. (Existing railroad gas

4
UTILITIES

service lines within the project limits will be relocated, purged, and abandoned by Xcel prior to contract award.)

3. **Qwest Communications.** Install new vault boxes at the East and West ends of the proposed bridge at the locations shown on the utility plans. Relocate existing communication lines in the new conduits from existing vaults to the new vaults as shown in the plans. Qwest is responsible for these new conduits and vault boxes. Qwest will remove all the cable within existing conduits and install new cable in conduits provided by the Contractor running between the new vaults and inside the Westbound bridge. Qwest will perform all cable splicing. Unused conduits will be abandoned in place.
4. **Aquila-Electric (Transmission).** Coordinate with the Contractor for the shut down of overhead transmission lines as required for construction of the project. See description of work in previous section.
5. **Aquila-Electric (Distribution).** Install transformers and meters as required for lighting and irrigation. Perform the necessary inspections for final acceptance of the new street lighting system. Coordinate with the Contractor for connection of the new distribution system to the existing one. Payment to be made via Force Account.

BASIS OF PAYMENT

All costs associated with the foregoing requirements, **if not specified above**, will not be paid for separately but shall be included in the work.