

Stacy and Witbeck

March 23, 2021

On Call Services

Mr. Dave Hancock
Director of asset Management
Utah Transit Authority
2264 South 900 West
Salt Lake City, UT 84119

Reference: On-Call Transit Infrastructure Construction, Maintenance and Repair
Project No: 20-03349VW

Subject: 21-606-R2 - Redwood Road Embedded Grade Crossing

Dear Dave:

We are pleased to provide the attached cost estimate to remove and replace the at-grade crossing at Redwood Road on the TRAX Mid-Jordan Line with 248 TF of embedded track crossing. The existing 133# rail will be replaced with 115# rail due to the unavailability of Rail Boot for 133# rail. Stacy and Witbeck has assumed the replacement will take place during one continuous shutdown, with a bus bridge in affect and no trains running through the intersection. Because of the nature of this crossing, SWI also plans to complete the crossing by building the first half in the NB lanes, and the second half of the crossing in the SB lanes. A complete power down of the overhead contact wires throughout the work limits will be required to safely perform this work. We look forward to constructing this project for UTA this year at a mutually agreed upon schedule.

Exclusions:

- Railroad Flagging
- Track to Earth Testing
- Sales Tax on Permanent Materials
- Certified Payrolls
- On Track Materials (boot, ties, hardware)
- Roadway Pavement Demo & Installation

Clarifications:

- Please see detailed list of each bid item below.
- 115# rail to be provided by UTA.
- SWI has assumed the replacement will take place during one continuous shutdown, with a bus bridge in affect and no trains running through the intersection.
- The unit costs for each bid item includes the costs of insurance, bond, and risk at the agreed upon rates.
- We are excluding all utility relocations and conflicts from our pricing. Any conflicts or relocations will need to be addressed as a change of condition.
- The scope of work is inclusive of only the items and scope that are listed below. Any other items of work or changes to the below scope will need to be repriced.

1958 West North Temple
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801.666.7840 (office) 801.432.7849 (fax)

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Bid Item 1000 – Field Engineering and Project Controls – 1 LS – Total of \$32,643.00 – This bid item includes Stacy and Witbeck field support from field engineer to manage construction. The field engineer will also perform pre-task planning and coordination with UTA. This item also includes office manager time for payroll and accounts payable.

Bid Item 1100 – Permits and Regulatory Approvals – 1 LS – Total \$1,985.00 – This bid item includes the cost to obtain all necessary city permits required to perform the work.

Bid Item 2000 – Safety Program and Administration – 1 LS – Total of \$4,444.00 – Cost of Safety Supplies, safety personnel to visit the site, and incidental drug testing.

Bid Item 2500 – Key Personnel Travel & Subsistence – 1 LS – Total \$10,801.00 – This bid item includes cost to provide travel arrangements and subsistence for 2 key track personnel for the duration of the work.

Bid Item 3000 – QC Program & Testing – 1 LS – Total \$9,916.00 – This bid item includes cost for SWI QC manager and Consolidated Engineering Laboratories to provide field and lab technicians to test and monitor materials. Also includes their management personnel to oversee testing and documentation. Includes weld testing performed by Quality Testing & Inspection (QTI).

Bid Item 5000 – Traffic and Pedestrian Control – 1 LS – Total of \$1,135.00 – This bid item includes the cost to provide traffic Control drawings for the closure and detours on Redwood Road.

Bid Item 6000 – Construction Survey and Layout – 1 LS – Total \$4,537.00 – This bid item includes the cost for construction layout survey.

Bid Item 7000 – Redwood Road Embedded Grade Crossing – 248 TF - \$719.50 Per TF – Total \$178,436.00 – This bid item includes the following items.

- Item 7010 – Traffic and Pedestrian Control - Includes full closure and detours of Northbound and Southbound lanes on Redwood Road to facilitate constructing the crossing in halves.
- Item 7020 – Demo Existing Crossing - Includes saw cutting, removal, haul off and dump fees for track panels, curb, sidewalk, and excavation.
- Item 7030 – Aggregate Base with Fabric - Includes geo-grid fabric and aggregate base course under the embedded track, and curb.
- Item 7050 – Concrete Sidewalk and Curb - Includes subgrade prep for 541 SF of sidewalk and 74 LF of curb on both sides of the street as required to complete the work.
- Item 7060 – Handle Track Materials - Includes loading and hauling of rail boot and steel ties for the embedded track. Includes loading and hauling of UTA provided rail. (purchase of boot and ties excluded)
- Item 7070 – Thermite Welding - Includes 4 regular welds and 8 comp welds from 133# to 115# rail. Excludes weld testing. Weld testing included in Bid Item 3000
- Item 7080 – Embedded Track Construction - Includes construction of 248 TF of embedded rail per the Sugar House Streetcar details. The dimensions of the track slab will vary from the Sugar House detail by using a 96" x 15" track slab, rather than an 84" x 15" track slab.

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- Item 7090 – Ballasted Track Construction - Includes 15 TF (60 TF total) of construction and hand dressing of ballasted track on each end of the embedded track sections.

Bid Item 7100 – Stabilization Rock/Fabric – 110 CY - \$285.00 Per CY – Total \$31,350.00 – Includes 55 CY of stabilization rock and geo-grid fabric to stabilize grade beneath tracks. This also includes the removal and disposal of stabilization excavation.

Bid Item 10000 – Mobilization – 1 LS – Total \$7,733.00 – This bid item includes the cost for mobilizing heavy equipment to and from the project site prior to each shutdown, and final project cleanup. includes street sweeping, field sanitary expenses, temporary site lighting, field office supplies, and jobsite dumpster.

Bid Item 100000 – Fee (7.5%) – 1 LS – Total of \$21,223.00 – This is the agreed to 7.5% GMGC fee.

The total price for this scope of work is **\$304,203.00**

If you have any questions, please contact me.

Sincerely,
Stacy and Witbeck, Inc.



Collin Christensen
Project Manager

03/09/2021 7:47
 21-606-R1 Redwood Road Embedded Crossing
 *** Collin Christensen, CC

BID TOTALS

| <u>Biditem</u> | <u>Description</u> | <u>Quantity</u> | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
|------------------|---|-----------------|--------------|-------------------|------------------|
| 1000 | Field Engineering & Project Controls | 1.000 | LS | 32,643.00 | 32,643.00 |
| 1100 | Permits & Regulatory Approvals | 1.000 | LS | 1,985.00 | 1,985.00 |
| 2000 | Safety Program & Administration | 1.000 | LS | 4,444.00 | 4,444.00 |
| 2500 | Key Personnel Travel & Subsistence | 1.000 | LS | 10,801.00 | 10,801.00 |
| 3000 | QC Program & Testing | 1.000 | LS | 9,916.00 | 9,916.00 |
| 5000 | Traffic & Pedestrian Control | 1.000 | LS | 1,135.00 | 1,135.00 |
| 6000 | Construction Survey/Layout | 1.000 | LS | 4,537.00 | 4,537.00 |
| 7000 | Redwood Road Embedded Grade Crossing | 248.000 | TF | 719.50 | 178,436.00 |
| 7100 | Stabilization Rock/Fabric - 18 inch depth | 110.000 | CY | 285.00 | 31,350.00 |
| 10000 | Mobilization | 1.000 | LS | 7,733.00 | 7,733.00 |
| Subtotal | | | | | \$282,980.00 |
| 100000 | Fee (7.5%) | 1.000 | LS | 21,223.00 | 21,223.00 |
| Bid Total =====> | | | | | \$304,203.00 |