



City of Grand Island

Monday, March 26, 2012

Council Session

Item G10

#2012-80 - Approving Change Order No. 3 for Grand Island Quiet Zone Project No. 2012-QZ-1

Staff Contact: John Collins, Public Works Director

Council Agenda Memo

From: Scott Griepenstroh, PW Project Manager

Meeting: March 26, 2012

Subject: Approving Change Order No. 3 for Grand Island Quiet Zone Project No. 2012-QZ-1

Item #'s: G-10

Presenter(s): John Collins, Public Works Director

Background

The Diamond Engineering Company of Grand Island, Nebraska was awarded a \$247,718.25 contract by the City Council on September 13, 2011 for the Grand Island Quiet Zone; Project No. 2012-QZ-1.

Change Order No. 1, for incorporating Union Pacific Railroad Special Provisions for City of Grand Island Projects into the contract, was approved by the City Council October 11, 2011. Change Order No. 1 was a “no cost” change order.

Change Order No. 2, for incorporating requirements as per the Wireline Crossing Agreements for the Wayside Horn System at Walnut Street into the contract, was approved by the City Council November 8, 2011. Change Order No. 2 was a “no cost” change order.

Discussion

As per the Contract Special Provisions, the Contractor was to supply U-channel sign posts at specified lengths to be mounted on ground sleeves. A ground sleeve is a breakaway device that is installed into the ground, which a sign post is attached to, and allows for a damaged sign post to be replaced without requiring installing a new post into the ground. The City of Lincoln uses these in several locations.

The Streets Division does not have an inventory of ground sleeves in the event any would need replaced. The contract items “U Channel Sign Post” and “Ground Sleeve” were eliminated, and the Contractor was directed to install sign posts furnished by the Streets Division at locations as required in the plans.

The item "Install Post" is being added to the contract to provide compensation for installing sign posts at locations as per the plans and as directed. The agreed unit price for "Install Post" compares to 56% of the January 1, 2009 through December 31, 2009 Nebraska Department of Roads Average Unit Prices of the similar item "Install Sign and Post." The contract quantities of the items "U Channel Sign Post" and "Ground Sleeve" are being reduced to zero to reflect this change.

Existing subgrade for concrete pavement work at certain locations on Oak Street, Pine Street and Elm Street was determined to be unsuitable. The Contractor was directed to remove unsuitable subgrade material to sufficient depths and replace with acceptable material. The item "Remove and Replace Unsuitable Material" is being added to the contract to provide compensation for this work.

Measurement for "Remove and Replace Unsuitable Material" is based on the volume of removed material.

The agreed unit price is in accordance with Subsection 205.05, Paragraph 10.a. of the 2007 Edition of the Nebraska Department of Roads Standard Specifications for Highway Construction.

In order to properly tie new concrete curb and gutter and concrete pavement to existing concrete pavement, the Contractor was directed to grout and install deformed reinforcing steel bars at approximate 4 foot spaces at specified locations as per Nebraska Department of Roads Concrete Pavement Standards. The item "Install Tie Bar" is being added to provide compensation to the Contractor for this work.

The agreed unit price compares to 108.3% of the January 1, 2010 through December 31, 2010 Nebraska Department of Roads Average Unit Prices of the item "Install Tie Bars," and is considered reasonable considering the small quantities involved.

As per the contract plans and specifications, direct buried cable was specified for signal and electrical wire for the Wayside Horn System and Railroad Interconnect. As per guidance from Streets Division staff, the Contractor was directed to provide and install 2" conduit as per Section 405 of the 2007 Edition of the Nebraska Department of Roads Standard Specifications for Highway Construction. Installing the cable in conduit provides for ease of maintenance and troubleshooting system problems, and provides for longer life of the cable. The item "2-Inch Conduit in Trench" is being added to provide compensation for this work.

The agreed unit price for "2-Inch Conduit in Trench" compares favorably to the January 1, 2010 through December 31, 2010 Nebraska Department of Roads Average Unit Prices for the same item, includes credit for not performing the work of direct burying cable, and is reasonable considering the small quantities involved.

The contractor was also directed to install pull boxes provided by the City of Grand Island near the Wayside Horns, at the riser near the power supply, and at the intersection

of the power cable and signal cable. The pull boxes provide access to cable for ease of maintenance and for troubleshooting system problems. The item "Install Pull Box" is being added to provide compensation for this work.

The agreed unit price for "Install Pull Box" compares to 94.7% of the January 1, 2010 through December 31, 2010 Nebraska Department of Roads Average Unit Prices of the item "Remove and Relocate Pull Box," and is reasonable considering the small quantities involved.

In lieu of removing and replacing pavement for installing cable under Walnut Street, the Contractor was requested to bore conduit on this segment. Boring the conduit reduced overall costs and reduced the duration Walnut Street had to be closed to traffic. The item "2-Inch Conduit, Jacked" is being added to provide compensation for this work. The items "Remove Pavement" and "8" Concrete Pavement" are being reduced to reflect this change.

Conduit bored under the railroad tracks was specified in the plans and specifications and is subsidiary to the contract item "Wayside Horn and Confirmation Signal Installation (Complete)."

The agreed unit price for "2-Inch Conduit, Jacked" compares favorably to the January 1, 2010 through December 31, 2010 Nebraska Department of Roads Average Unit Prices for the same item, includes credit for not performing the work of direct burying cable, and is reasonable considering the small quantities involved.

Alternatives

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

Recommendation

City Administration recommends that the Council approve Change Order No. 3 for the Grand Island Quiet Zone Project No. 2012-QZ-1.

Sample Motion

Move to approve the resolution.

PROJECT: Grand Island Quiet Zone Project No. 2012-QZ-1

CONTRACTOR: The Diamond Engineering Company

CONTRACT DATE: September 13, 2011

	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
1. Install Post	11.00 EA	\$100.00/EA	\$1,100.00
2. U Channel Sign Post	- 117.00 LF	\$34.00/LF	- \$3,978.00
3. Ground Sleeve	- 5.00 EA	\$122.00/EA	- \$610.00
4. Remove and Replace Unsuitable Material	65.00 CY	\$25.80/CY	\$1,677.00
5. Install Tie Bar	211.00 EA	\$6.50/EA	\$1,371.50
6. 2-Inch Conduit in Trench	130.00 LF	\$4.45/LF	\$578.50
7. Install Pull Box	4.00 EA	\$260.00/EA	\$1,040.00
8. 2-Inch Conduit, Jacked	66.00 LF	\$9.95/LF	\$656.70
9. Remove Pavement	- 21.80 SY	\$8.70/SY	- \$189.66
10. 8" Concrete Pavement	- 21.80 SY	\$38.50/SY	- \$839.30

TOTAL OF CHANGE ORDER NO. 3 **\$ 806.74**

The changes result in the following adjustment to the Contract Amount:

Contract Price Prior to This Change Order	\$247,718.25
Net Increase/Decrease Resulting from this Change Order	\$ 806.74
Revised Contract Price Including this Change Order	\$ 248,524.99

Approval Recommended:

By _____
 John Collins, Public Works Director

Date _____

The Above Change Order Accepted:

Approved for the City of Grand Island:

_____ The Diamond Engineering Company
Contractor

By _____
Jay Vavricek, Mayor

By _____

Attest: _____
RaNae Edwards, City Clerk

Date _____

Date _____

RESOLUTION 2012-80

WHEREAS, on September 13, 2011, by Resolution 2011-242, the City of Grand Island awarded The Diamond Engineering Company of Grand Island, Nebraska the bid in the amount of \$247,718.25 for the Grand Island Quiet Zone Project No. 2012-QZ-1; and

WHEREAS, Change Order No. 1 was approved by City Council through Resolution 2011-302 on October 11, 2011 and incorporated the Union Pacific Railroad Special Provision for City of Grand Island Projects into the Grand Island Quiet Zone Project No. 2012-QZ-1 contract with The Diamond Engineering Company of Grand Island, Nebraska; and

WHEREAS, Change Order No. 2 was approved by City Council through Resolution 2011-326 on November 8, 2011 and accounted for The Diamond Engineering Company's requirement to comply with all the terms and provisions relating to the work of installing both underground wireline crossings for the Wayside Horn System; and

WHEREAS, it has been determined that modifications to the work to be performed by The Diamond Engineering Company are necessary; and

WHEREAS, such modifications have been incorporated into Change Order No. 3; and

WHEREAS, the result of such modifications will increase the contract amount by \$806.74, for a revised contract amount of \$248,524.99.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the Mayor be, and hereby is, authorized and directed to execute Change Order No. 3 between the City of Grand Island and The Diamond Engineering Company of Grand Island, Nebraska to provide the modifications.

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Adopted by the City Council of the City of Grand Island, Nebraska, March 26, 2012.

Jay Vavricek, Mayor

Attest:

RaNae Edwards, City Clerk