



City of Grand Island

Tuesday, January 14, 2020

Council Session

Item G-12

**#2020-10 - Approving Certificate of Final Completion for Cell 3
Liner and Leachate System at the Grand Island Regional Landfill**

Staff Contact: John Collins, P.E. - Public Works Director

Council Agenda Memo

From: Jeff Wattier, Solid Waste Superintendent

Meeting: January 14, 2020

Subject: Approving Certificate of Final Completion for Cell 3 Liner and Leachate System at the Grand Island Regional Landfill

Presenter(s): John Collins PE, Public Works Director

Background

Van Kirk Bros. Contracting of Sutton, Nebraska was awarded a \$3,093,150.00 contract on November 14, 2017, via Resolution No. 2017-319, for Cell 3 Liner and Leachate System at the Grand Island Regional Landfill.

On September 11, 2018, via Resolution No. 2018-270, City Council approved Change Order No. 1 resulting in a decrease to the original contract amount by \$20,095.60, for a revised contract amount of \$3,073,054.40, and allowed for quantities to be rectified for such project.

On January 8, 2019, via Resolution No. 2019-22, City Council approved Change Order No. 2 resulting in a decrease to the original contract amount by \$49,433.23, for a revised contract amount of \$3,023,621.17, which addressed liquidated damages and an anticipated overage in turf matting.

The Grand Island Landfill Phase I development was comprised of four cells (Cells 1, 2, 3, and 4) of lateral expansion that are located within a 52 acre landfill footprint. Cell 1 was constructed in 1993 and Cell 2 was constructed in 1998. Landfilling continued in Cells 1 and 2 until intermediate and final grades were achieved for Cell 3. This project was paid from our restricted fund account. Cell 4 will be constructed when filling in Cell 3 nears completion or as facility operations warrant.

Discussion

The project was completed in accordance with the terms, conditions, and stipulations of the contract, plans and specifications. Construction was completed for a total cost of \$3,025,531.41. Additional project costs are shown below.

ADDITIONAL COSTS

| | |
|--|----------------------|
| Grand Island Public Works- Engineering Services | \$ 85.59 |
| HDR Engineering, Inc.- Engineering Services | \$ 421,600.00 |
| Grand Island Daily Independent- Advertising | \$ 121.56 |
| Grand Island Wastewater Division- Televising Pipes | \$ 2,565.00 |
| | \$ 424,372.15 |

Total project cost is \$3,449,903.56.

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 the Certificate of Final Completion for Cell 3 Liner and Leachate System at the Grand Island Regional Landfill.

Sample Motion

Move to approve the Certificate of Final Completion.

ENGINEER'S CERTIFICATE OF FINAL COMPLETION

Cell 3 Liner and Leachate System at the Grand Island Regional Landfill
CITY OF GRAND ISLAND, NEBRASKA
January 14, 2020

TO THE MEMBERS OF THE COUNCIL
CITY OF GRAND ISLAND
GRAND ISLAND, NEBRASKA

This is to certify that Cell 3 Liner and Leachate System at the Grand Island Regional Landfill has been fully completed by Van Kirk Bros. Contracting of Sutton, Nebraska under the contract dated November 21, 2017. The work has been completed in accordance with the terms, conditions, and stipulations of said contract and complies with the contract, the plans and specifications. The work is hereby accepted for the City of Grand Island, Nebraska, by me as Public Works Director in accordance with the provisions of Section 16-650 R.R.S., 1943.

| Item No. | Description | Total Quantity | Unit | Unit Price | Total Cost |
|--|---|----------------|------|--------------|-----------------------|
| Bid Section A- Cell 3 Liner and Leachate System | | | | | |
| 1 | Mobilization/ Demobilization and all work at Grand Island Regional Landfill (not included in Bid Item #'s 2-18) | 1.00 | LS | \$140,000.00 | \$ 140,000.00 |
| 2 | Demolition & Removal | 1.00 | LS | \$ 34,000.00 | \$ 34,000.00 |
| 3 | Bulk Excavation- Remove and Stockpile Soils | 380,000.00 | CY | \$ 1.95 | \$ 741,000.00 |
| 4 | Waste Excavation- Remove Waste and Dispose at Landfill Active Face | 10,432.00 | CY | \$ 4.00 | \$ 41,728.00 |
| 5 | Remove and Stockpile Unsuitable Soils from Existing Cell 2 Areas | 1,560.00 | CY | \$ 2.50 | \$ 3,900.00 |
| 6 | Remove and Replace Unsuitable Soils Below Base Grade | 950.00 | CY | \$ 7.00 | \$ 6,650.00 |
| 7 | Recompacted Clay Linder | 14.36 | ACR | \$ 45,500.00 | \$ 653,380.00 |
| 8 | Drainage Layer | 14.36 | ACR | \$ 22,000.00 | \$ 315,920.00 |
| 9 | Geotextile | 625,500.00 | SF | \$ 0.18 | \$ 112,590.00 |
| 10 | Protective Cover Soil | 14.36 | ACR | \$ 8,500.00 | \$ 122,060.00 |
| 11 | 12-MIL Scrim Reinforced Membrane | 410,000.00 | SF | \$ 0.41 | \$ 168,100.00 |
| 12 | Leachate Collection System | 1.00 | LS | \$118,500.00 | \$ 118,500.00 |
| 13 | Leachate Extraction Riser Access Pad | 1.00 | LS | \$132,500.00 | \$ 132,500.00 |
| 14 | Leachate Control Room | 1.00 | LS | \$ 55,140.00 | \$ 55,140.00 |
| 15 | Storm Water Pumps Relocation | 1.00 | LS | \$ 43,670.00 | \$ 43,670.00 |
| 16 | Turf Reinforcement Matting | 4,100.00 | SY | \$ 4.80 | \$ 19,680.00 |
| 17 | Erosion Control Matting | 14,441.77 | SY | \$ 2.85 | \$ 41,159.04 |
| 18 | Seeding | 10.00 | ACR | \$ 950.00 | \$ 9,500.00 |
| Subtotal Bid Section A- | | | | | \$2,759,477.04 |
| BID SECTION B- ALTERNATE 1 | | | | | |
| 1-1 | Milling of Existing Pavement | 5,950.00 | SY | \$ 4.00 | \$ 23,800.00 |
| 1-2 | SPR Asphaltic Concrete Overlay (1.5") | 880.28 | TONS | \$ 87.00 | \$ 76,584.36 |
| Subtotal Bid Section B- | | | | | \$ 100,384.36 |

| BID SECTION C- ALTERNATE 2 | | | | | |
|--|--|----------|------|----------------|------------------------|
| 2-1 | SPR Asphaltic Concrete Base Layer (4") | 734.74 | TONS | \$ 86.00 | \$ 63,187.64 |
| 2-2 | SPR Asphaltic Concrete Top Lift (2") | 367.37 | TONS | \$ 86.00 | \$ 31,593.82 |
| Subtotal Bid Section C- | | | | | \$ 94,781.46 |
| BID SECTION D- ALTERNATE 3 | | | | | |
| 3-1 | SPR Asphaltic Concrete Base Layer (4") | 636.05 | TONS | \$ 88.00 | \$ 55,972.40 |
| 3-2 | SPR Asphaltic Concrete Top Lift (2") | 318.02 | TONS | \$ 88.00 | \$ 27,985.76 |
| Subtotal Bid Section D- | | | | | \$ 83,958.16 |
| BID SECTION E- ALTERNATE 4 | | | | | |
| 4-1 | Remove Chainlink Fence & Gates | 600.00 | LF | \$ 10.00 | \$ 6,000.00 |
| 4-2 | Install Chainlink Fence | 600.00 | LF | \$ 42.00 | \$ 25,200.00 |
| 4-3 | Install Chainlink Cantilever Gate (16' Wide) & Main Gate | 1.00 | EA | \$ 6,350.00 | \$ 6,350.00 |
| Subtotal Bid Section E- | | | | | \$ 37,550.00 |
| CHANGE ORDER NO. 1 | | | | | |
| 1 | Bulk Excavation- Remove and Stockpile Soils | 0.00 | LF | \$ 1.95 | \$ - |
| CO1-1 | Relocate Stockpile from WIFI | 2,992.00 | LF | \$ 2.55 | \$ 7,629.60 |
| CO1-2 | Regrade Slope | 17.50 | EA | \$ 160.00 | \$ 2,800.00 |
| CO1-3 | Removal of Old Leachate Pipe | 120.00 | LF | \$ 13.13 | \$ 1,575.60 |
| CO1-4 | Use of Existing Transformers | -1.00 | LF | \$ 998.02 | \$ (998.02) |
| CO1-5 | Temporary Liquidated Damages | -31.00 | EA | \$ 1,354.84 | \$ (42,000.04) |
| CO1-6 | Temporary Liquidated Damages | -4.00 | EA | \$ 2,000.00 | \$ (8,000.00) |
| CO1-7 | Bid Alternate #1- 2" Top | 0.00 | LF | \$ 87.00 | \$ - |
| CO1-8 | Bid Alternate #2- 4" Base | 0.00 | EA | \$ 86.00 | \$ - |
| CO1-9 | Bid Alternate #2- 2" Top | 0.00 | LF | \$ 86.00 | \$ - |
| CO1-10 | Bid Alternate #3- 4" Base | 0.00 | LF | \$ 88.00 | \$ - |
| CO1-11 | Bid Alternate #3- 2" Top | 0.00 | EA | \$ 88.00 | \$ - |
| CO1-12 | Bid Alternate #1- Thickness from 1.5" to 2.0" | 0.00 | LF | \$ 87.00 | \$ - |
| CO1-13 | Bid Alternate #2- Limits | 0.00 | EA | \$ 28.07 | \$ - |
| Subtotal Change Order No. 1- | | | | | \$ (38,992.86) |
| CHANGE ORDER NO. 2 | | | | | |
| CO2-1 | Liquidated Damages Aug 31- Sept 21, 2018 | 0.00 | EA | \$ (1,354.84) | \$ - |
| CO2-2 | Liquidated Damages Sept 22- Sept 24, 2018 | 0.00 | EA | \$ (2,000.00) | \$ - |
| CO2-3 | Turf Matting | 1.00 | LS | \$ 3,539.05 | \$ 3,539.05 |
| CO2-4 | Retest Failed Clay Liner | 1.00 | LS | \$ (4,148.00) | \$ (4,148.00) |
| CO2-5 | Additional Show Drawing Reviews | 1.00 | LS | \$ (11,111.00) | \$ (11,111.00) |
| CO2-6 | Change Order No. 1 Calculation Error | 1.00 | LS | \$ 93.20 | \$ 93.20 |
| Subtotal Change Order No. 2- | | | | | \$ (11,626.75) |
| Total Cell 3 Liner and Leachate System= | | | | | \$ 3,025,531.41 |

Additional Costs:

| | |
|--|----------------------|
| Grand Island Public Works- Engineering Services | \$ 85.59 |
| HDR Engineering, Inc.- Engineering Services | \$ 421,600.00 |
| Grand Island Daily Independent- Advertising | \$ 121.56 |
| Grand Island Wastewater Division- Televising Pipes | \$ 2,565.00 |
| | \$ 424,372.15 |

| | |
|----------------------------|-----------------------|
| Total Project Cost= | \$3,449,903.56 |
|----------------------------|-----------------------|

I hereby recommend that the Engineer's Certificate of Final Completion for Cell 3 Liner and Leachate System at the Grand Island Regional Landfill be approved.

John Collins – City Engineer/Public Works Director

Roger G. Steele – Mayor

RESOLUTION 2020-10

WHEREAS, the City Engineering/Public Works Director for the City of Grand Island issued a Certificate of Final Completion for Cell 3 Liner and Leachate System at the Grand Island Regional Landfill certifying that Van Kirk Bros. Contracting of Sutton, Nebraska, under contract, has completed such project for the total construction amount of \$3,025,531.41; and

WHEREAS, the City Engineer/Public Works Director recommends the acceptance of the project; and

WHEREAS, additional project costs equate to \$424,372.15, as shown

ADDITIONAL COSTS

| | |
|--|----------------------|
| Grand Island Public Works- Engineering Services | \$ 85.59 |
| HDR Engineering, Inc.- Engineering Services | \$ 421,600.00 |
| Grand Island Daily Independent- Advertising | \$ 121.56 |
| Grand Island Wastewater Division- Televising Pipes | \$ 2,565.00 |
| | \$ 424,372.15 |

WHEREAS, the Mayor concurs with the recommendation of the City Engineer/Public Works Director, and

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the Certificate of Final Completion for Cell 3 Liner and Leachate System at the Grand Island Regional Landfill, in the total amount of \$3,449,903.56 is hereby confirmed.

Adopted by the City Council of the City of Grand Island, Nebraska, January 14, 2020.

Roger G. Steele, Mayor

Attest:

RaNae Edwards, City Clerk

Approved as to Form □ _____
January 10, 2020 □ City Attorney