

Item Details

Legistar # 18-0378

Construction Contract – Cefe´ F. Valenzuela Landfill Sector 3C Cell Development	
<u>Council Meeting Dates:</u> Action Item – April 10, 2018	<u>Item Being Considered:</u> Motion

RECOMMENDATION:

Authorization to award a construction contract with FCS Construction, LP of Dallas, Texas in the amount of \$5,273,159.46 for the Cefe´ F. Valenzuela Landfill Sector 3C Cell Development project for the base bid.

BASE BID:

The project will consist of Phase 1 & Phase 2 construction (approximately 15.8 acres and 15.4 acres, respectively for a total of 31.2 acres) of a subtitle D landfill sector for the City of Corpus Christi at the Cefe´ F. Valenzuela landfill. It is the intent that Phase 1 be completed prior to Phase 2 completion to allow the City to utilize partial Sector 3C. This will include subgrade preparation, excavation, compacted fill, dewatering system installation, composite liner installation, leachate collection system installation, berm construction, evaporation dewatering pond, protective cover, installation of concrete box culverts, drainage improvements, litter containment fence, roadway rehabilitation, storm water pollution prevention plan, and associated electrical services.

ALTERNATES:

None

BID SUMMARY	
CONTRACTOR	BASE BID
FCS Construction, LP Dallas, Texas	\$5,273,159.46
4 X Construction Group, LLC Mansfield, Texas	6,049,323.08
<i>Engineer’s Opinion of Probable Construction Cost</i>	<i>\$5,816,000.00</i>

SUMMARY:

Based upon historical average disposal rates and recent increases due to Hurricane Harvey debris disposal, the current developed disposal space at Cefe´ Valenzuela Landfill is predicted to be exhausted in September 2018. Construction of the next disposal cell, Sector 3C, was expedited and planned in two phases to provide new disposal space prior to that event.

The 2-phased approach includes Phase 1 for 15.8 acres and Phase 2 for the remaining 15.4 acres. Phase 1 construction requires an accelerated construction schedule of 100 calendar days with Liquidated

Damages (LD's) of \$27,500 per day to offset construction oversight and potential overflow costs. Phase 2 is planned for construction concurrently with Phase 1 but allows an additional 140 days for completion of the remaining 15.4 acres. The following is a summary of the construction activities:

- Site clearing excavation, subgrade preparation, compaction, and dewatering
- Installation of new Geosynthetic Clay Liner with Flexible Membrane Liner and Geonet Leachate Drainage Layer
- Construction of the new leachate system piping, pumps and associated electrical services
- New wire fabric litter containment fence
- Site improvements to the perimeter road and underground drainage

The Geosynthetic Clay Liner, Flexible Membrane Liner and Geonet Leachate Drainage Layer provides the primary protective barrier to avoid contamination of surrounding soils and groundwater.

TCEQ requires authorization to allow temporary overflow for placement of waste above permitted elevations: a likely situation if the existing capacity is exhausted before an additional cell is available. The temporary overflow would then have to be relocated into Cell 3C when that Cell is complete and permitted. The cost for relocating waste following a temporary overflow situation is estimated at approximately \$10 per Cubic Yard (CY) with an estimated 75,000 CY per month and total monthly cost of \$750,000. Temporary overflow is anticipated to occur for no more than two months for a total of \$1,500,000. The 2-phased approach allows opening a partial cell to minimize the temporary overflow. The Cell 3C project provides the most cost-effective way to address the critical timeline and provides additional capacity for approximately 5 years.

Hanson Professional Services, the design engineer selected for this project by RFQ No. 2017-01 dated April 7, 2017, recommends FCS Construction, LP.

PREVIOUS COUNCIL / BOARD ACTIONS:

January 23, 2018 – Council approved Ordinance amending FY 2017-2018 Capital Improvement Program Budget for this project. Professional Services contract with Hanson Professional Services also approved.