March 08, 2018

INVITATION TO TENDER “ITT” No. PS20172554
PHASE 3 NE CLOSURE & PHASE 4 LFG SYSTEM EXPANSION - VANCOUVER LANDFILL

AMENDMENT No. 1

1. RE: CHANGES TO DRAWINGS - PART D - FORM OF AGREEMENT - SCHEDULE 2 - SPECIFICATIONS AND DRAWINGS - DRAWINGS - PHASE 4 LIFT 2 HORIZONTALS

ADDENDUM

Additional IFT drawings have been added to the tender capturing Phase 4 Lift 2 horizontal gas works. The new drawings are titled as follows:

- PS20172554 - Phase 3NE Closure & Phase 4 LFG System Exp. IFT Drawings - AMD No.1 - Series 600.pdf
- PS20172554 - Phase 3NE Closure & Phase 4 LFG System Exp. IFT Drawings - AMD No.1 - Series 700.pdf

With this amendment the 600-drawing series has been expanded to include drawings 17042-656 through 660.

With this amendment the 700-drawing series has been expanded to include drawings 17042-742 through 762.

All other existing drawings remain unchanged. The updated drawings are available on the FTP specified in the ITT:

https://webtransfer.vancouver.ca/

The user ID is: PS20172254DL@coveftp01

The password is: xnS4D9Fj (The password is case sensitive.)
2. **RE: CHANGE TO SPECIFICATIONS – PART D - FORM OF AGREEMENT - SCHEDULE 2 - SPECIFICATIONS AND DRAWINGS - SECTION 01 11 00 SUMMARY OF WORK - SECTION 1.05 WORK SEQUENCE**

**CURRENTLY READS:**

1.05 WORK SEQUENCE

A. Construct Work in phases/stages to accommodate Owner’s quality assurance and contract administration requirements during the construction period, coordinate construction schedule and operations with Owner. While delivered under one tender, there are two projects that have different schedules including separate Substantial Performance and Total Performance Dates. This is due to the completion timelines for each section of work. The sequencing of works within each project may not be able to be completed continuously or in straight succession. The scope of work and anticipated sequencing of the work shall be as follows:

**Project 1: Phase 3 NE Closure and Gas Works (Substantial Performance – November 1, 2018)**
- Earthworks
- Phase 3 NE Landfill Closure
- Leachate Management
- Surface Water Management
- Phase 3 NE Landfill Gas System Upgrades
- Infrastructure Upgrades and Miscellaneous Works
- Subsurface LFG Monitoring Network (Gas Probes)

**Project 2: Phase 4 Leachate Collector and Landfill Gas System Expansion (Substantial Performance – July 10, 2020)**
- Phase 4 Leachate Collector
- Phase 4 LFG Decommissioning
- Phase 4 South Functional LFG Network
- Phase 4 North Functional LFG Network

1. Construction and overall completion of the **Phase 4 Leachate Collector** will require five (5) weeks. Based on the current forecasted rate of filling in this area the estimated allowable construction window is between September 1st, 2018, and December 31st, 2018. The Owner will provide a minimum of two weeks notice prior to when construction shall begin. If the Owner does not achieve the necessary fill elevation in this area in order for work to commence by November
23, 2018, then at the Owner’s request, subject to a minimum two weeks notice, the Contractor will make arrangements to complete the Phase 4 Leachate Collector at a later date (outside of the identified allowable construction window) as required by the Owner at no extra cost.

2. Construction and overall completion of the Phase 4 LFG Decommissioning Works will require three (3) weeks. Based on the current forecasted rate of filling in this area the estimated allowable construction window is between October 1st, 2018, and November 30th, 2018. The Owner will provide a minimum of two weeks notice prior to when construction shall begin. If the Owner does not achieve the necessary fill elevation in this area in order for work to commence by November 9, 2018, then at the Owner’s request, subject to a minimum two weeks notice, the Contractor will make arrangements to complete the Phase 4 LFG Decommissioning Works at a later date (outside of the identified allowable construction window) as required by the Owner at no extra cost.

3. Construction and overall completion of the Phase 4 South Functional LFG Network will require twelve (12) weeks. Based on the current forecasted rate of filling in this area the estimated allowable construction window is between November 1st, 2018, and March 31, 2019. The Owner will provide a minimum of two weeks notice prior to when construction shall begin. If the Owner does not achieve the necessary fill elevation in this area in order for work to commence by January 4, 2019, then at the Owner’s request, subject to a minimum two weeks notice, the Contractor will make arrangements to complete the Phase 4 South Functional LFG Network at a later date (outside of the identified allowable construction window) as required by the Owner at no extra cost.

4. Construction and overall completion of the Phase 4 North Functional LFG Network will require twelve (12) weeks. Based on the current forecasted rate of filling in this area the estimated allowable construction window is between December 1st, 2019, and June 30, 2020. The Owner will provide a minimum of two weeks notice prior to when construction shall begin. If the Owner does not achieve the necessary fill elevation in this area in order for work to commence by April 6, 2020, then at the Owner’s request, subject to a minimum two weeks notice, the Contractor will make arrangements to complete the Phase 4 North Functional LFG Network at a later date (outside of the identified allowable construction window) as required by the Owner at no extra cost.
REPLACE WITH:

1.05 WORK SEQUENCE

A. Construct Work in phases/stages to accommodate Owner’s quality assurance and contract administration requirements during the construction period, coordinate construction schedule and operations with Owner. While delivered under one tender, there are two projects that have different schedules including separate Substantial Performance and Total Performance Dates. This is due to the completion timelines for each section of work. The sequencing of works within each project may not be able to be completed continuously or in straight succession. The scope of work and anticipated sequencing of the work shall be as follows:

Project 1: Phase 3 NE Closure and Gas Works (Substantial Performance – November 1, 2018)

- Earthworks
- Phase 3 NE Landfill Closure
- Leachate Management
- Surface Water Management
- Phase 3 NE Landfill Gas System Upgrades
- Infrastructure Upgrades and Miscellaneous Works
- Subsurface LFG Monitoring Network (Gas Probes)

Project 2: Phase 4 Leachate Collector and Landfill Gas System Expansion (Substantial Performance – July 10, 2020)

- Phase 4 Leachate Collector
- Phase 4 LFG Decommissioning
- Phase 4 Lift 2 LFG Horizontals
- Phase 4 South Functional LFG Network
- Phase 4 North Functional LFG Network

1.0 Construction and overall completion of the Phase 4 Leachate Collector will require five (5) weeks. Based on the current forecasted rate of filling in this area the estimated allowable construction window is between September 1st, 2018, and December 31st, 2018. The Owner will provide a minimum of two weeks notice prior to when construction shall begin. If the Owner does not achieve the necessary fill elevation in this area in order for work to commence by November 23, 2018, then at the Owner’s request, subject to a minimum two
weeks notice, the Contractor will make arrangements to complete the Phase 4 Leachate Collector at a later date (outside of the identified allowable construction window) as required by the Owner at no extra cost.

2.0 Construction and overall completion of the Phase 4 LFG Decommissioning Works will require three (3) weeks. Based on the current forecasted rate of filling in this area the estimated allowable construction window is between October 1st, 2018, and November 30th, 2018. The Owner will provide a minimum of two weeks notice prior to when construction shall begin. If the Owner does not achieve the necessary fill elevation in this area in order for work to commence by November 9, 2018, then at the Owner’s request, subject to a minimum two weeks notice, the Contractor will make arrangements to complete the Phase 4 LFG Decommissioning Works at a later date (outside of the identified allowable construction window) as required by the Owner at no extra cost.

3.0 Construction and overall completion of the Phase 4 Lift 2 LFG Horizontals, based on the current forecasted rate of filling in this area is scheduled to be completed in 3 separate stages: a) construction of H201, H202, H203 and H204 shall be completed between June 25th, 2018 and July 13th 2018 in a sequence designated by the owner following contract award; b) construction of H205, H206, H207, H208 and H209 shall be completed between July 16th, 2018 and August 31st, 2018 in a sequence designated by the owner following contract award; c) construction of H210, H211, H212, H213 and H214 shall be completed between August 1st, 2018 and September 30th, 2018. If the Owner does not achieve the necessary fill elevation in this area in order for work to commence as per above, then at the Owner’s request, subject to a minimum two weeks notice, the Contractor will make arrangements to complete the Phase 4 Lift 2 LFG Horizontals at a later date (outside of the identified allowable construction window) as required by the Owner at no extra cost. All HDPE perforated pipe needed for the construction of H201 to H214 will be provided by the Owner.

4.0 Construction and overall completion of the Phase 4 South Functional LFG Network will require twelve (12) weeks. Based on the current forecasted rate of filling in this area the estimated allowable construction window is between November 1st, 2018, and March 31, 2019. The Owner will provide a minimum of two weeks notice prior to when construction shall begin. If the Owner does not achieve the necessary fill elevation in this area in order for work to commence by January 4, 2019, then at the Owner’s request, subject to a minimum two weeks notice, the Contractor will make arrangements to complete the Phase 4 South Functional LFG Network at a later date (outside of the identified allowable construction window) as required by the Owner at no extra cost.
5.0 Construction and overall completion of the Phase 4 North Functional LFG Network will require twelve (12) weeks. Based on the current forecasted rate of filling in this area the estimated allowable construction window is between December 1st, 2019, and June 30, 2020. The Owner will provide a minimum of two weeks notice prior to when construction shall begin. If the Owner does not achieve the necessary fill elevation in this area in order for work to commence by April 6, 2020, then at the Owner’s request, subject to a minimum two weeks notice, the Contractor will make arrangements to complete the Phase 4 North Functional LFG Network at a later date (outside of the identified allowable construction window) as required by the Owner at no extra cost.
3. RE: CHANGE TO SPECIFICATIONS - PART D - FORM OF AGREEMENT - SCHEDULE 2 - SPECIFICATIONS AND DRAWINGS - SPECIFICATIONS - SECTION 01 20 00 MEASUREMENT AND PAYMENT - SECTION 1.06 DESCRIPTION OF PAYMENT ITEMS

CURRENTLY READS:

9. Item 9.09 – Gas Pipe, 150 mm (6-in.) Dia. HDPE SDR 11 Perforated
   a. Measurement: Length of pipe installed as measured in the field.
   b. Payment: Per Linear Metre (m).
   c. Includes: Furnishing, installing, testing, and cleaning HDPE pipe, joints, fittings and appurtenances. Also includes factory fabrication of perforations for pipe.

10. Item 9.11 – Gas Pipe, 150 mm (6-in.) Dia. HDPE SDR 11 Solid
    a. Measurement: Length of pipe installed as measured in the field.
    b. Payment: Per Linear Metre (m).
    c. Includes: Furnishing, installing, testing, and cleaning HDPE pipe, joints, fittings and appurtenances.

REPLACE WITH:

9. Item 9.09 – Gas Pipe, 150 mm (6-in.) Dia. HDPE SDR 11 Perforated
   a. Measurement: Length of pipe installed as measured in the field.
   b. Payment: Per Linear Metre (m).
   c. Includes: Furnishing, installing, testing, and cleaning HDPE pipe, joints, fittings and appurtenances. Also includes factory fabrication of perforations for pipe.
   d. Note(s): Portions of work covered under this pay item require an aggressive completion timeline. Advanced planning and material sourcing is paramount. The Contractor shall make all necessary provisions to ensure compliance with the Contract construction timeline requirements. The Owner will supply 2,160m of HDPE perforated pipe for use during the construction of H201 to H214 gas horizontals. The Contractor
is required to provide a tender unit rate accounting for the Owner supplied materials.

11. Item 9.11 – Gas Pipe, 150 mm (6-in.) Dia. HDPE SDR 11 Solid
   a. Measurement: Length of pipe installed as measured in the field.
   b. Payment: Per Linear Metre (m).
   c. Includes: Furnishing, installing, testing, and cleaning HDPE pipe, joints, fittings and appurtenances.
   d. Note(s): Portions of work covered under this pay item require an aggressive completion timeline. Advanced planning and material sourcing is paramount. The Contractor shall make all necessary provisions to ensure compliance with the Contract construction timeline requirements.

ADDITIONAL SECTION:

74. Item 9.74 – Pipe Trench Type 12 for Horizontal Gas Collector (for Solid Pipe)
   a. Measurement: Linear distance along centerline of trench as measured in the field.
   b. Payment: Per Linear Metre (m).
   c. Includes: Includes all costs associated with the loading, hauling and the installation of Owner supplied embankment material for the fill range shown on the drawings. Also includes stockpile management, de-watering, and disposal of excess material. Payment also includes furnishing, hauling, placing and compacting pipe embedment material. Also includes fine grading for pipe and furnishing. Also includes restoration of ground surface to receive overlying materials. Also includes benching, sloping, and shoring, and all safety measures necessary for working in and around the trench.

4. RE: CHANGE TO PART C - FORM OF TENDER - SCHEDULE “A” - SCHEDULE OF QUANTITIES AND PRICES

The current version of Schedule “A” - SCHEDULE OF QUANTITIES AND PRICES has been revised. The revised version is titled “Schedule A - Schedule of Quantities and Prices - ITT Pricing Table V3.0” and is available on the FTP specified in the ITT:
INVITATION TO TENDER “ITT” No. PS20172554
PHASE 3 NE CLOSURE & PHASE 4 LFG SYSTEM EXPANSION - VANCOUVER LANDFILL

AMENDMENT No. 1

https://webtransfer.vancouver.ca/

The user ID is : PS20172254DL@coveftp01

The password is: xnS4D9Fj (The password is case sensitive.)

All other conditions and specifications remain unchanged.

This amendment must be completed, and attached to your Proposal/Tender form.

If you have already submitted your Tender, this amendment shall be submitted to the Supply Chain Management Office, 4th Floor, City of Vancouver, 453 West 12th Avenue, Vancouver, British Columbia, Canada, V5Y 1V4, prior to the Closing Time: 3:00:00 pm, Local Vancouver, BC Time, Tuesday, April 17, 2018 in an envelope clearly marked “AMENDMENT No.1 to ITT No.20172554 PHASE 3NE CLOSURE AND PHASE 4 LFG SYSTEM EXPANSION - VANCOUVER LANDFILL”.

________________________
NAME OF VENDOR

________________________
SIGNATURE OF AUTHORIZED SIGNATORY

________________________
DATE