

PROJ #2016040001.03	ADDENDUM #1	DATE: 3/22/2018
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NOTICE: This Addendum No.1, issued in accordance with the Contract Documents, is hereby incorporated into the Contract Documents. This information supersedes and updates all conflicting information as follows:

CLARIFICATIONS & RESPONSES TO QUESTIONS

- 1) Only the potential bidders that attended the pre-bid meeting are eligible to submit a bid as the prime contractor. A copy of the pre-bid meeting sign-in sheet is attached.
- 2) Electronic versions of the AutoCAD surfaces are available for bidder reference upon request. Bidders must submit a written request and complete the attached "Electronic File Transfer Agreement".
- 3) No exceptions will be made for the drainage sand permeability specified.
- 4) Builder's Risk insurance shall be provided as specified in Section 700, Article 6.
- 5) The unit price Excavation pay items #2 and #3 are the volumes of cut and fill bound by the station lines E+50 to B+00 and 18+30 to 21+60. Necessary excavation (cut and fill) outside of these bounds shall be included in the other Earth Work pay items.
- 6) The cell certification boundaries for existing Cell A – Phase III and Cell B – Phase II are the station lines 18+30 and E+50, respectively.
- 7) If the contractor chooses to complete construction units in phases (e.g. secondary liner system, leachate collection system, secondary detection system, etc.), the Owner will provide up to two survey mobilizations per construction unit to allow for the construction of subsequent layers as a means to protect the partially completed work. The Contractor will maintain responsibility for the partially completed work and shall repair any damage that may occur.
- 8) Regular working hours are those stated in Supplemental Condition 7.02B (Section 800). Per the General Conditions, Article 7 – "The Contractor may perform work outside regular hours or on Saturdays, Sundays, or legal holidays only with Owner's written consent, which will not be unreasonable withheld." It is the Owner's intention to allow construction of low permeability soil layers and liner outside of regular working hours if requested by the Contractor.
- 9) Site access via the historic south entrance shall be in accordance with Section 01010, 1.13. Owner may provide Contractor approval to utilize the south entrance during trucking and delivery operations as a means to reduce traffic and congestion along the north access route and at the weigh station. The south gate shall not be utilized as a personnel access point for routine operations. Revocation of permission to utilize the south gate does not entitle Contractor to a change in contract time nor price.
- 10) During construction, the Contractor shall not allow water to drain and pond against the existing liner system at the north end of Cell B – Phase II, approximate station E+50. The liner system for Cell B – Phase III shall be connected to the existing adjacent liner systems as construction progresses.
- 11) The Contractor may, if it so chooses, construct a diversionary berm within cells A-III and B-II to reduce the potential of surface water runoff into the work area. The Contractor shall protect the existing interim cover material and control any water discharge to ensure that only storm water is discharged outside of the existing cell boundaries. The berms may be left in place at the completion of the work. Any refuse exposed during construction, maintenance, or as a result of berm erosion shall be covered with interim cover by the Contractor.

CHANGES TO THE CONTRACT DOCUMENTS:

Section 01050,

Part 3, 3.03 – Replace the elevation tolerance for pipes as follows:

The elevation tolerance for the Leachate and Secondary Collection Pipes shall be within ± 0.2 feet.

Section 02200,

Part 2, 2.03A3 – Replace the first sentence to read:

“Pre-construction testing of any fill soil to obtain sub-grade elevation soil shall be completed at the minimum frequency specified in the following table for each borrow source.”

Section 02220, Compacted Soil Liner

Part 3, 3.02B5 – Replace “sheepsfood” with “sheepsfoot”.

Section 02230 – Granular Drainage Material

Change 2.02B as follows:

1. The material shall consist of a maximum of 10 percent limestone by weight, and a maximum 20 percent peastone or EJIW “popcorn slag”, or other approved equal.

Section 02270, Erosion Control – Add the following:

Stone check dams, in accordance with the detail on Sheet 9, shall be installed at the following locations:

- Within the ditch along the eastern Cell B-3 boundary, parallel to Station 21+90, at Stations B+50, C+00, C+50, D+00, and E+00
- Within the ditch along the northern Cell B-3 boundary, parallel to Station A+80, at Stations 19+00, 21+00, and 23+00

Section 02310, Geomembranes

Part 1, 1.13C – Non-destructive Field Testing

3.b.3. Air Pressure Testing – Change 60 seconds to 5 minutes

Table 1.12 – 60-mil HDPE Welded Seam Strength Requirements

The minimum Fusion Peel strength for four out of five samples shall be 91 ppi.

Section 02320 – Geocomposites

Replace Section 2.01 with the following:

2.01 GEONET PROPERTIES

- A. The drainage geocomposite used for the leachate collection and leak detection system shall be non-woven, needle-punched, polypropylene continuous filament geotextile thermally bonded to both sides of a high density polyethylene (HDPE) geonet meeting or exceeding the following requirements.
- B. The geotextile shall have properties that meet or exceed the values listed in Table 1B

Table 1B: Geotextile Properties

Property	Test Method	Test Frequency	Minimum Average Roll Value
Mass Per Unit Area (oz/yd ²)	ASTM D5261	1/90,000 ft ²	8.0
Grab Tensile Strength (lbs)	ASTM D4632	1/90,000 ft ²	200
Apparent Opening Size (mm)	ASTM 4751	1/540,000 ft ²	0.18
Permittivity (sec ⁻¹)	ASTM D4491	1/540,000 ft ²	1.3

- C. A geonet shall be manufactured by extruding two crossing strands to form a bi-planar drainage net structure.
- D. The geonet specified shall have properties that meet or exceed the values listed in Table 1D below.

Table 1D: Geonet Properties

Property	Test Method	Test Frequency	Minimum Average Roll Value
Thickness (mils)	ASTM D5199	1/100,000 ft ²	300
Carbon Black (%)	ASTM D1603	1/100,000 ft ²	2 -3
Tensile Strength (lb/in, MD)	ASTM D5035	1/100,000 ft ²	100
Transmissivity (m ² /sec)	ASTM D4716	1/540,000 ft ² , min. 1	5.4x10 ⁻⁴
Compressive Strength (lb/ft ²)	ASTM D6364	1/540,000 ft ²	50,000
Density (g/cm ³)	ASTM D 1505	Once Per Resin Lot	≥0.932
Melt Flow Index (g/10 min)	ASTM D 1238	Once Per Resin Lot	≤0.4

- E. The combined geocomposite specified shall have properties that meet or exceed the values listed in Table 1E below.

Table 1E: Geocomposite Properties

Property	Test Method	Test Frequency	Minimum Average Roll Value
Transmissivity (m ² /sec)	ASTM D4716	1/540,000 ft ² , min. 1	5.4x10 ⁻⁴
Ply Adhesion (lb/in)	ASTM D 7005	1/50,000 ft ²	1.0

Modify Section 3.03 as follows:

- B.1 – Overlay geocomposite at least 6" in the machine direction and 12" in the transverse direction, or more if recommended by the Manufacturer.
- B.2 – Ties shall be spaced every 5 feet in the machine direction and every 1 foot in the transverse direction.
- B.4 – Sew top geotextile fabric to adjacent top geotextile fabric.

Section 02330, Geosynthetic Clay Liner

Table 2.3A – GCL Properties

Replace the following property data:

Tensile Strength ⁽³⁾	ASTM D 6768	1/40,000 ft ²	30 90 lb/in MARV
Peel Strength	ASTM D 6496 ASTM D 4632 ⁽⁴⁾	1/40,000 ft ²	3-5 15 lb/in MARV
Hydraulic Conductivity ⁽⁵⁾	ASTM D 5887	1/Week 1/100,000 ft ²	5 x 10 ⁻⁹ cm/sec max
Index Flux ⁽⁵⁾	ASTM D 5887	1/Week 1/100,000 ft ²	1 x 10 ⁻⁸ m ³ /m ² /sec max
Internal Shear Strength ⁽⁶⁾	ASTM D 6243	Periodically 1/100,000 ft ²	500 psf

Section 02600 – HDPE Pipe

3.050A.1 – Change the first sentence to read:

“Testing shall be performed after the pipe has been placed in its final position (e.g., in trenches or in the leachate transfer buildings, etc.), ~~but prior to placing backfill materials~~ and backfilled to at least 1 foot above the top of the pipe.”

ADDENDUM ACKNOWLEDGMENT:

This Addendum No. 1 shall be attached to and shall become a part of the Contract Documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may result in the rejection of the Bid.

END SECTION

DISTRIBUTION:

All Plan Holders (via email)
Connie Gerrie, MOA SWMA

PRE-BID MEETING ATTENDANCE

Montmorency-Oscoda-Alpena Solid Waste Management Authority
Cell B Phase III

Pre-Bid Meeting: 9:30 AM, March 14, 2018

Engineer: Adam Segerlind/Gosling Czubak Engineering Sciences, Inc.

Email: aasegerlind@goslingczubak.com

Project No.:

2016040001.03

Plan No.	Attending Plan Holder	Company	Telephone	Email
1	Randy Crawford	Great Lakes Fusion	989-233-9961	rcrawford@greatlakesfusion.com
2	DAN AFLECHÉ	TEAM ELMERS	989-657-2147	DAN@TEAMELMERS.COM
3	Ken Nowicki	M & M Excavating	989-732-6277	ken@m-m-excavating.com
4	MARK KIRBY	STN Construction	989-732-8318	MARK@STNCONSTRUCTION.COM
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ELECTRONIC FILE TRANSFER AGREEMENT

It is hereby agreed between Gosling Czubak Engineering Sciences, Inc., of 1280 Business Park Drive, Traverse City, Michigan, (Hereinafter GCES) and the Recipient indicated below, that GCES will transfer electronic data subject to the terms set forth in this Agreement.

1. In accepting and utilizing any project-related correspondence, drawings, reports, data, and digital information on any form of electronic media generated and furnished by GCES, the Recipient agrees that all such files are instruments of service of GCES, who shall be deemed the author, and shall retain all common law, statutory law and other rights, without limitation, including copyrights.
2. The Recipient agrees not to reuse these electronic files, in whole or in part, for any purpose other than for the Project. The Recipient agrees not to transfer these electronic files to others without the prior written consent of GCES. The Recipient further agrees to indemnify and hold harmless GCES and that GCES shall have no responsibility or liability to Recipient or others for the use of these documents on any future projects or any changes made by anyone other than GCES or for any reuse of the electronic files without the prior written consent of GCES.
3. The Recipient acknowledges that CAD drawing files may not have been created utilizing detailed three dimensional data and that use of these files for modeling, quantity calculations, construction control, or layout is at the sole risk of the Recipient.
4. Electronic files furnished by GCES shall conform to the specifications and software version in which they were originally produced. GCES makes no representation about the compatibility of the electronic files and data for any other software or hardware. If the Recipient requests that any electronic files furnished shall conform to a different specification, any changes to the electronic specifications are subject to review and acceptance by GCES. If GCES is required to expend additional effort to incorporate changes to the electronic file specifications made by the Recipient, these efforts shall be compensated for as Additional Services.
5. Under no circumstances shall delivery of electronic files for use by the Recipient be deemed a sale by GCES, and GCES makes no warranties, either express or implied, of merchantability and fitness for any purpose. In no event shall GCES be liable for indirect or consequential damages as a result of Recipient's unauthorized use or reuse of the electronic files.
6. The Recipient is aware that differences may exist between the electronic files delivered and the printed hard-copy documents. In the event of a conflict between the paper copy and electronic files, the paper copy shall govern.
7. Electronic files furnished by GCES shall be subject to an acceptance period of thirty (30) days. GCES shall correct any discrepancies or errors detected and reported within the acceptance period. After the acceptance period, the electronic files shall be deemed to be accepted, and GCES shall have no obligation to correct errors or maintain electronic files.

PROJECT: MOA Landfill, Cell B Phase III

RECIPIENT: _____

Accepted By: _____

Signature: _____

Title: _____

Date: _____