

December 17, 2020

Re: Brown County Landfill Cell #4 Construction
Helms A-7653

Bid Opening: **Tuesday, December 22, 2020**
8:45 am Local Time

ADDENDUM NUMBER 1

The following modifications are made to the plans and specifications for the Brown County Landfill Cell #4 Construction.

Construction Contract and Specification Documents:

1. Section 00 21 13 Instruction to Bidders; Article 24, Part 24.04: *revise to read*

416 Production Street North

PO Box 111

Aberdeen, SD 57401

(605) 225-1212

Email: leifr@helmsengineering.com

2. Section 01 57 00 Temporary Controls Part 3.03; *add part B & C*

2.03 DUST CONTROL

- B. Water for dust control may be used from the existing sedimentation pond directly south of the Scale house pending acceptable samples prior to discharge.
- C. The Contractor shall maintain a water truck and personnel available whenever work is being completed at the site for dust control purposes. The Contractor shall implement dust control measures whenever directed by the Owner or Engineer.

3. Section 02 66 50 Landfill Piping and Fittings Part 2.01A; *revise to read*

2.01A The pipe shall be high performance, high molecular weight, high-density polyethylene pipe, PE4710, DR 11, **Iron Pipe Size**. The pipe shall have a minimum cell classification value 445574C as determined by ASTM D3350.

4. Section 32 92 19 Seeding and Fertilizing; delete part 2.04 and part 3.04 B, C & E.

Delete all parts referencing straw mulch. All mulching shall be a spray applied fiber mulch as specified.

5. Section 33 31 00 Sewer Piping and Fittings; add part 2.11.

2.11 Underdrain Pipe

- A. Underdrain pipe shall be perforated Schedule 40 PVC with a geotextile sock suitable for the design application.
- B. Rodent control at underdrain outlet shall be galvanized mesh (0.5-2" X 0.5-2") attached to pipe end with hose clamp or similar method making the screen removable.

(The above specified underdrain pipe is for Pallet Staging Area work, Alternate Bid Schedule 2, Bid Item # A2-4)

PLANS

1. Replace Sheet 3 with revised sheet attached.

Revised version includes the addition of the earthwork table not shown.

Topsoiling from stockpile shall be proposed cell access road ditch bottom installed at a 6" depth.

2. Replace Sheet 5 with revised sheet attached.

Revised version includes the addition of specified haul route to shale stockpile and estimated quantities for the various unclassified excavation stockpiles and their locations.

3. Plan Sheet 7 Cell #4 Plan Sheet; revision to "Install 120/240V 1 Phase Secondary" note

Existing note indicates 700 MCM wire size. Contractor shall install 250 MCM wire size. Existing wire size is 250 MCM.

4. Plan Sheet 9 Sedimentation Pond Plan Sheet; Forcemain Note Comment

Existing note indicates 795ft of 4" forcemain to be installed (forcemain also shown on plan sheet 7 but not noted). This would include installation of 394ft of salvaged 4" forcemain if contractor chooses to salvage said forcemain. Regardless, existing forcemain must be removed completely. New/Salvaged forcemain shall be reimbursed by unit price under Bid Item # 36 Install Salvaged Storm Sewer Forcemain as measured in the field. 4" forcemain shall connect the lift station to the existing concrete storm sewer inlet.

5. Plan Sheet 16 Typical Landfill Construction Details; Extend Leachate Collection Pipe Cleanout Detail.

Revise detail by replacing all references of 6" to 8". Existing cleanout riser pipe is 8" DR11 IPS HDPE. Cleanout Extension shall be 8" Sch 40 PVC connected with repair coupler suitable for the application.

Corrugated Metal Pipe (CMP) shall be per SD DOT Specifications 16 gauge.

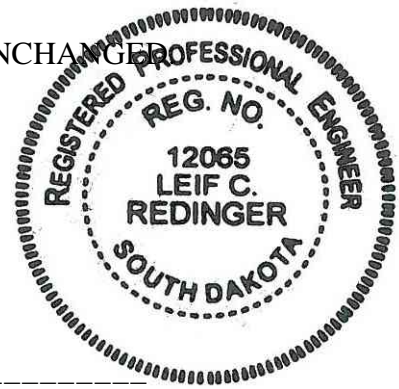
Attachments:

Modified Plan Sheets 3 & 5 of the Plans.

Pre Approved Products:

Evotharm M1 warm mix asphalt additive is an approved alternate additive to Hydrated Lime (SD DOT specifications 760).

ALL OTHER ITEMS OF THE PLANS AND SPECIFICATIONS REMAIN UNCHANGED



BY Leif C. Redinger
PROJECT ENGINEER - HELMS AND ASSOCIATES
=====

FIRM NAME: _____ BY: _____

TITLE: _____ DATE: _____

ATTACH THIS SIGNED ADDENDUM TO THE BID FORM WHEN SUBMITTING AND/OR
ACKNOWLEDGE THE ADDENDUM ON THE BID FORM.

EXISTING LEACHATE COLLECTION PIPE CLEANING

Contractor is required to clean by pressure jetting the existing leachate collection and recovery system LCRS piping. The piping is 6/8" HDPE SDR11. The maximum length required is 700 continuous feet of cleaning, a minimum of 650 feet of televising of existing 6/8" HDPE SDR11 required.

SEQUENCING TRAFFIC CONROL

Contractor is required to provide access to the working face at all times. When crossing customer traffic routes, the customer shall have have the right of way. Contractor shall provide a minimum of 2 road closed barricades for the access road around the cell.

Contractor shall not use the existing access roads as haul routes for off road equipment. The only areas allowed are where crossing these roads are required to reach the stockpile area. Contractor shall maintain these crossing for tracking of mud as directed by Owner or Engineer.

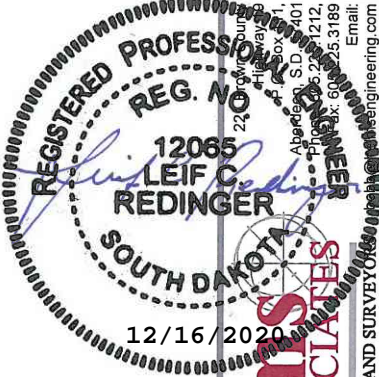
Table of Earthwork		
Item	Cut (CY)	Fill (CY)
Unclassified Excavation	538,485	
Unsuitable Material Undercut	10,000	10,000
24" Clay Liner		24,125
12" Side Slope Cover Material		695
Topsoiling from Stockpile		1,000
Cell Floor Turnaround		2,400
Pallet Area Fill (existing sand)		4,658
Shrinkage (35%)		12,537
Subtotal	548,485	55,415
Excess to be Stockpiled		493,070
Total Earthwork	548,485	548,485

Note: Unclassified Excavaction includes, undercut for clay liner, ditch grading work and topsoil removal. Payment for Unclassified Excavation shall include the costs to stockpile excess to be stockpiled. Unsuitable material unit price shall include the cost to replace the unsuitable material with suitable compacted to the requirements specified.

BASE BID - CELL #4 CONSTRUCTION			
ITEM #	DESCRIPTION	QUANTITY	UNIT
1	Mobilization	1	LS
2	Remove and Stockpile/Salvage Existing Riprap	172	Sq. Yd.
3	Remove and Salvage 8" Stormwater Underdrain/Solid	223	Ft
4	Remove and Salvage Nyloplast Inlet w/ Casting	1	Each
5	Remove, Salvage, and Reinstall Gravel Surfacing (6")	4,700	Sq. Yd.
6	Remove and Salvage 18-24" RCP	180	Ft
7	Remove and Salvage RCP Flared Ends	4	Each
8	Remove and Salvage PVC Forcemain	394	Ft
9	Remove and Salvage Lift Station w/ Panel	1	LS
10	Remove and Salvage Outlet Piping (dispose of splash pad)	1	LS
11	Remove and Salvage 10ft Chain Link Fence	829	Ft
12	Unclassified Excavation	538,485	Cu Yd
13	Unsuitable Material Undercut	10,000	Cu Yd
14	Water for Compaction	1	LS
15	24" Compacted Clay Liner	24,125	Cu Yd
16	12" Side Slope Cover Material	1,390	Cu Yd
17	Topsoiling from Stockpiles	1,000	Cu Yd
18	12" Granular Drainage Material	16,000	Tons
19	Coarse Aggregate	825	Tons
20	Geotextile Drainage Fabric	3,500	S.Y.
21	Connect to Existing Leachate Piping	1	Each
22	8" HDPE Perforated Leachate Piping	900	Ft
23	8" HDPE Solid Leachate Piping	170	Ft
24	8" HDPE 45 Degree Bend	3	Each
25	Extend Existing 36" CMP Cleanout w/ 8" SCH 40	10	Ft
26	Side Slope/Leachate Cleanout	1	Each
27	Jet Cleaning of Existing 6"/8" HDPE Leachate Piping	650	Ft
28	Jet Cleaning of New 8" HDPE Leachate Piping	900	Ft
29	Televising Existing 6"/8" HDPE Leachate Piping	650	Ft
30	Televising New 8" HDPE Leachate Piping	900	Ft
31	Install Salvaged 30" Nyloplast Inlet w/ Beehive Grate	1	Each
32	Install Salvaged 8" HDPE Underdrain Piping w/ Geotextile Sock	223	Ft
33	Intall Salvaged 8" HDPE Solid Piping	83	Ft
34	Install Salvaged Storm Sewer Lift station and controls w/ Startup	1	LS
35	Re-Establish Power to Storm Sewer Lift Station	1.0	LS
36	Install Salvaged Storm Sewer Forcemain	394.0	Ft
37	Connect to Existing Storm Sewer Inlet	1.0	Each
38	Install Salvaged 24" RCP Culvert	80.0	Ft
39	Install Salvaged 24" RCP Flared End	2.0	Each
40	Gravel Surfacing	3,020.9	Tons
41	Fertilize, Seed and Mulch	11.2	Acres
42	RipRap Check Dam	6.0	Each
43	RipRap Drainage Trench	262.0	S.Y.
44	Erosion Control Blanket	6,423.0	S.Y.
45	Erosion Control Wattle	4,825.0	Ft
46	High Flow Silt Fence	130.0	Ft
47	Inlet Protection	7.0	Each
48	Install Salvaged 10ft Chainlink Fence	350.0	Ft
49	Landfill Dewatering	1.0	LS
50	SW PPP	1.0	LS

ALTERNATE BID 1 - ACCESS ROAD			
ITEM #	DESCRIPTION	QUANTITY	UNIT
A1-1	Mobilization	1	LS
A1-2	Asphalt Surfacing Type 2 Class G (PG 64-28)	2705.8	Tons
A1-3	Scarify, Reshape, Compact Road bed (6")	9540	Sq. Yd.
A1-4	Basecourse	1000.0	Tons
A1-5	Remove and Dispose of Existing Asphalt	430	Sq. Yd.

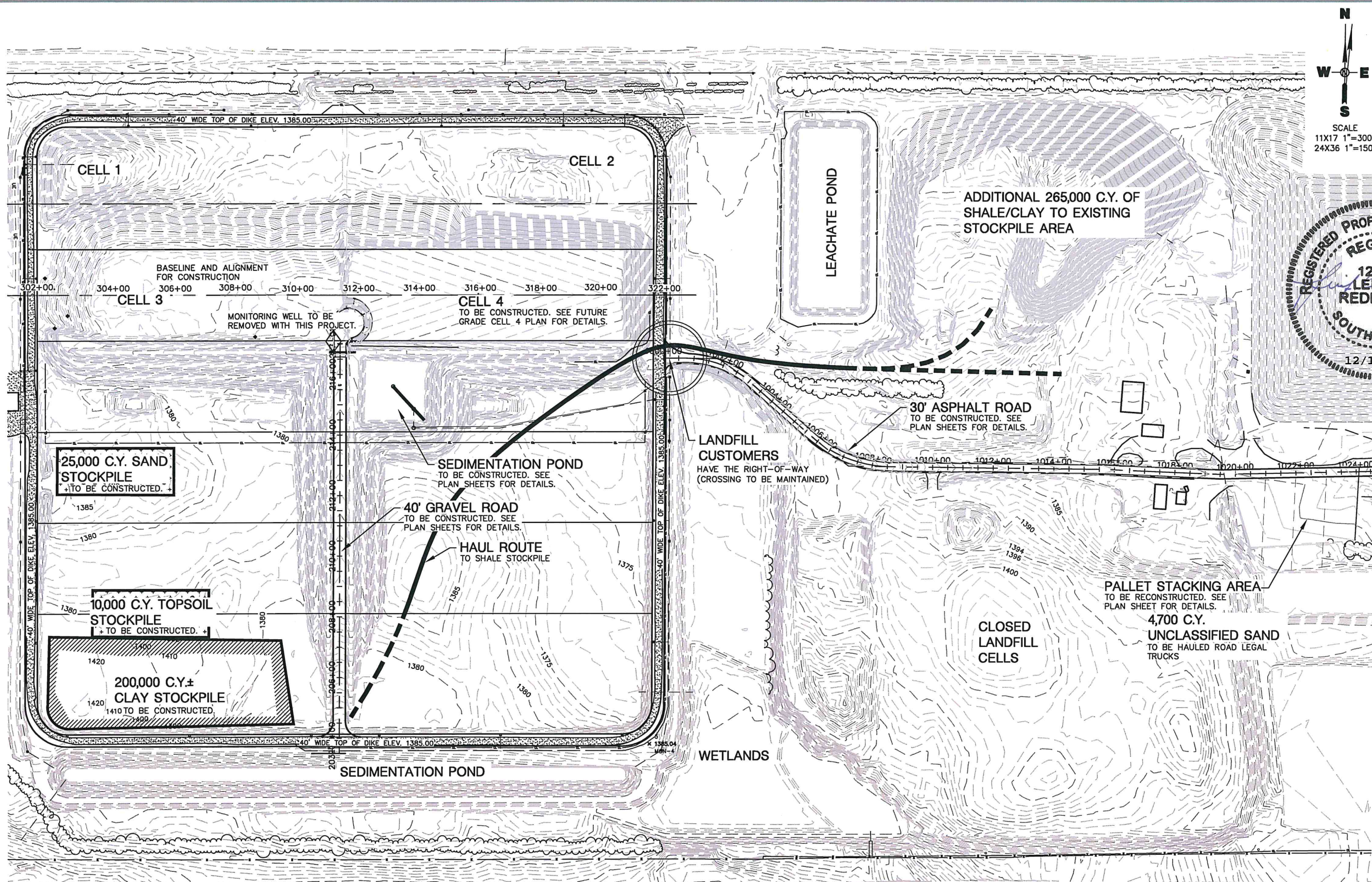
ALTERNATE BID 2 - PALLET AREA			
ITEM #	DESCRIPTION	QUANTITY	UNIT
A2-1	Mobilization	1	LS
A2-2	Place Borrow Sand Material for Cell Unclassified	4658	Cu Yd
A2-3	Gravel Surfacing	3039.0	Tons
A2-4	6" Underain Piping w/ Sock	866	Ft
A2-5	Wire Rodent Guard	3	Each



ESTIMATE OF QUANTITIES

CELL #4 CONSTRUCTION AND DRAINAGE IMPROVEMENTS
BROWN COUNTY, SOUTHDAKOTA

Drawn By:	CLB
Chk' By:	LCR
Proj. No:	A-7653
Dwg. No:	7653-PNT
VP. No:	QUA
Date:	12/15/20



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W E
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SCALE
11X17 1"=300'
24X36 1"=150'

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the law of the State of South Dakota.

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 12065
LEIF R. REDINGER
SOUTH DAKOTA
12/16/2020

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Hels Associates
CIVIL ENGINEERS & LAND SURVEYORS

FUTURE SITE LAYOUT SHEET

CELL #4 CONSTRUCTION AND DRAINAGE IMPROVEMENTS
BROWN COUNTY, SOUTHDAKOTA

Drawn By: CLB
Chk' By: LCR
Proj. No: A-7653
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Date: 12/15/20