

SUBJECT: Award of Bid No. 26-166B to Professional Trails for the contract amount of \$965,270.00 to Construct Cell 3 Gas Collection and Control System Expansion at the Central Landfill.

AGENDA OF: July 21, 2026

ASSEMBLY ACTION:

AGENDA ACTION REQUESTED: Present to the Assembly for consideration.

Route To:	Signature
Purchasing Director	6/30/2026 X Rustin Krafft Signed by: Rustin Krafft
Public Works Director	6/30/2026 X Tom Adams, P.E. Signed by: Tom Adams
Finance Director	RECOVERABLE SIGNATURE X Cheyenne Heindel Signed by: Cheyenne Heindel
Borough Attorney	7/2/2026 X Shannon Bodelay Signed by: Shannon Bodelay
Borough Manager	RECOVERABLE SIGNATURE X Michael Brown Signed by: Michael Brown
Borough Clerk	7/6/2026 X Estelle M. Wiese for LM Signed by: Estelle Wiese

ATTACHMENT (S): Fiscal Note (1p)
 Analysis Sheet (1p)
 Scope of Work (10p)

SUMMARY STATEMENT: On May 19, 2026, the Matanuska-Susitna Borough Purchasing Division issued a solicitation requesting bids from qualified contractors for the Cell 3 Landfill Gas Collection and Control System (GCCS) Expansion Project at the Central Landfill in Palmer, Alaska. The project includes mobilization, utility locating and surveying, drilling and installation of new landfill gas recovery wells, installation of gas collection headers and laterals, wellheads, isolation valves, road crossings, removal and salvage of existing gas collection piping, connection of existing temporary horizontal gas collection systems, and site restoration with erosion control measures. In addition, the solicitation includes additive alternate bid items for supplemental gas recovery wells, laterals, wellheads, header improvements, and system maintenance and investigation services. This project will enhance landfill gas collection efficiency, support regulatory

compliance, improve environmental performance, and extend the operational effectiveness of the Central Landfill. Services purchased will support the Public Works Department in assembly district #2.

In response to the advertisement, two bids were received. Award recommendation is being made to Professional Trails, LLC as the lowest responsive and responsible bidder based on Total Bid Amount.

The final completion date for this project is October 31, 2026.

In accordance with MSB 3.08.170(B), Administration requests authority to modify the resulting contract completion date by 120 days for unforeseen circumstances.

The Public Works Department, Solid Waste Division will be administering the contract.

RECOMMENDATION OF ADMINISTRATION: Approve the subject action memorandum.

MATANUSKA-SUSITNA BOROUGH

FISCAL NOTE

Agenda Date: July 21, 2026

SUBJECT: Award of Bid No. 26-166B to Professional Trails for the contract amount of \$965,270.00 to Construct Cell 3 Gas Collection and Control System Expansion at the Central Landfill.

FISCAL ACTION (TO BE COMPLETED BY FINANCE)	FISCAL IMPACT YES NO
AMOUNT REQUESTED \$965,270.00	FUNDING SOURCE Landfill Capital Projects
FROM ACCOUNT # 420.000.000 4xx.xxx	PROJECT# 25007-2400-2402
TO ACCOUNT :	PROJECT #
VERIFIED BY: 7 / 1 / 2 0 2 6 <u>X</u> <u>L i e s e l Z a n t o</u> S i g n e d b y : L i e s e l Z a n t o	CERTIFIED BY:
DATE:	DATE:

EXPENDITURES/REVENUES:

(Thousands of Dollars)

OPERATING	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Personnel Services						
Travel						
Contractual						
Supplies						
Equipment						
Land/Structures						
Grants, Claims						
Miscellaneous						
TOTAL OPERATING						

CAPITAL	965.3					
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REVENUE						
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FUNDING:

(Thousands of Dollars)

General Fund						
State/Federal Funds						
Other	965.3					
TOTAL						

POSITIONS:

Full-Time						
Part-Time						
Temporary						

ANALYSIS: (Attach a separate page if necessary)

PREPARED BY: _____ PHONE: _____

DEPARTMENT: _____ DATE: _____

7 / 1 / 2 0 2 6

X C h e y e n n e H e i n d e l

APPROVED BY: _____ DATE: _____

S i g n e d b y : C h e y e n n e H e i n d e l

DETAILED BID TABULATION

26-166B Construct Cell 3 Gas Collection and Control System Expansion

					BIDDERS			
					Professional Trails		SCS	
Base Bid								
Item Number	Item Code	Pay Item Description	Pay Unit	Estimated Quantity	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
1	G-1	Mobilization	LUMP SUM	ALL REQUIRED	\$ 45,000.00	\$ 45,000.00	\$ 130,491.50	\$ 130,491.50
2	G-2	Utility Locate and Survey	LUMP SUM	ALL REQUIRED	\$ 45,000.00	\$ 45,000.00	\$ 36,000.00	\$ 36,000.00
3	G-3	Gas Recovery Well Drilling and Install	LUMP SUM	ALL REQUIRED	\$ 300,000.00	\$ 300,000.00	\$ 453,521.25	\$ 453,521.25
4	G-4	Gas Recovery Well Drilling Refusal	LUMP SUM	ALL REQUIRED	\$ 8,000.00	\$ 8,000.00	\$ 53,737.85	\$ 53,737.85
5	G-5	Removal and Salvage of Existing GCCS 6" Header	LUMP SUM	ALL REQUIRED	\$ 50,000.00	\$ 50,000.00	\$ 29,555.90	\$ 29,555.90
6	G-6	Supply and Install GCCS 10" Header	LUMP SUM	ALL REQUIRED	\$ 40,000.00	\$ 40,000.00	\$ 73,141.53	\$ 73,141.53
7	G-7	Supply and Install GCCS 8" Header	LUMP SUM	ALL REQUIRED	\$ 40,000.00	\$ 40,000.00	\$ 342,417.34	\$ 342,417.34
8	G-8	Install Salvaged GCCS 6" Lateral	LUMP SUM	ALL REQUIRED	\$ 40,000.00	\$ 40,000.00	\$ 246,728.96	\$ 246,728.96
9	G-9	Supply and Install GCCS 6" Lateral	LUMP SUM	ALL REQUIRED	\$ 40,000.00	\$ 40,000.00	\$ 53,769.24	\$ 53,769.24
10	G-10	Connection of Cell 4 Horizontal Gas Collectors Temporary	LUMP SUM	ALL REQUIRED	\$ 5,150.00	\$ 5,150.00	\$ 26,558.24	\$ 26,558.24
11	G-11	Supply and Install of Vertical Wellheads	LUMP SUM	ALL REQUIRED	\$ 35,000.00	\$ 35,000.00	\$ 41,302.17	\$ 41,302.17
12	G-12	Gas Lateral Road Crossing	LUMP SUM	ALL REQUIRED	\$ 10,000.00	\$ 10,000.00	\$ 79,020.00	\$ 79,020.00
13	G-13	Supply and Install 10" Isolation Valve	LUMP SUM	ALL REQUIRED	\$ 35,000.00	\$ 35,000.00	\$ 54,995.15	\$ 54,995.15
14	G-14	Supply and Install 8" Isolation Valve	LUMP SUM	ALL REQUIRED	\$ 35,000.00	\$ 35,000.00	\$ 45,643.95	\$ 45,643.95
15	G-15	Site Restoration and Sediment Control	LUMP SUM	ALL REQUIRED	\$ 12,000.00	\$ 12,000.00	\$ 308,410.49	\$ 308,410.49
Total Bid Amount					\$740,150.00		\$1,975,293.57	
ALTERNATE BID 1 SCHEDULE - CELL 2A GCCS HEADER JUMPER								
1	A-1	Cell 2A GCCS Header Jumper	LUMP SUM	ALL REQUIRED	\$ 14,100.00	\$ 14,100.00	\$ 24,030.83	\$ 24,030.83
Total Bid Amount					\$14,100.00		\$24,030.83	
ALTERNATE BID 2 SCHEDULE - GCCS HEADER MAINTENANCE & INVESTIGATION								
1	A-2	GCCS Header Maintenance & Investigation	LUMP SUM	ALL REQUIRED	\$ 21,120.00	\$ 21,120.00	\$ 52,499.58	\$ 52,499.58
Total Bid Amount					\$21,120.00		\$52,499.58	
ALTERNATE BID 3 SCHEDULE - GAS RECOVERY WELL GW3-08 AND ASSOCIATED PIPING								
1	A-3A	Gas Recovery Well Drilling and Install	LUMP SUM	ALL REQUIRED	\$ 36,000.00	\$ 36,000.00	\$ 52,361.98	\$ 52,361.98
2	A-3B	Supply and Install GCCS 6" Lateral	LUMP SUM	ALL REQUIRED	\$ 8,500.00	\$ 8,500.00	\$ 33,417.23	\$ 33,417.23
3	A-3C	Supply and Install of Vertical Wellhead	LUMP SUM	ALL REQUIRED	\$ 7,000.00	\$ 7,000.00	\$ 4,633.39	\$ 4,633.39
Total Bid Amount					\$51,500.00		\$90,412.60	
ALTERNATE BID 4 SCHEDULE - GAS RECOVERY WELL GW3-11 AND ASSOCIATED PIPING								
1	A-4A	Gas Recovery Well Drilling and Install	LUMP SUM	ALL REQUIRED	\$ 37,500.00	\$ 37,500.00	\$ 59,859.74	\$ 59,859.74
2	A-4B	Supply and Install GCCS 6" Lateral	LUMP SUM	ALL REQUIRED	\$ 8,500.00	\$ 8,500.00	\$ 37,421.27	\$ 37,421.27
3	A-4C	Supply and Install of Vertical Wellhead	LUMP SUM	ALL REQUIRED	\$ 7,000.00	\$ 7,000.00	\$ 4,633.39	\$ 4,633.39
Total Bid Amount					\$53,000.00		\$101,914.40	
ALTERNATE BID 5 SCHEDULE - GAS RECOVERY WELL GW3-12 AND ASSOCIATED PIPING								
1	A-5A	Gas Recovery Well Drilling and Install	LUMP SUM	ALL REQUIRED	\$ 37,500.00	\$ 37,500.00	\$ 62,885.00	\$ 62,885.00
2	A-5B	Supply and Install GCCS 6" Lateral	LUMP SUM	ALL REQUIRED	\$ 8,500.00	\$ 8,500.00	\$ 32,123.11	\$ 32,123.11
3	A-5C	Supply and Install of Vertical Wellhead	LUMP SUM	ALL REQUIRED	\$ 7,000.00	\$ 7,000.00	\$ 4,633.39	\$ 4,633.39
Total Bid Amount					\$53,000.00		\$99,641.50	
ALTERNATE BID 6 SCHEDULE - GAS RECOVERY WELL GW3-13 AND ASSOCIATED PIPING								
1	A-6a	Gas Recovery Well Drilling and Install	LUMP SUM	ALL REQUIRED	\$ 16,900.00	\$ 16,900.00	\$ 27,621.26	\$ 27,621.26
2	A-6b	Supply and Install GCCS 6" Lateral	LUMP SUM	ALL REQUIRED	\$ 8,500.00	\$ 8,500.00	\$ 22,069.29	\$ 22,069.29
3	A-6c	Supply and Install of Vertical Wellhead	LUMP SUM	ALL REQUIRED	\$ 7,000.00	\$ 7,000.00	\$ 4,593.04	\$ 4,593.04
Total Bid Amount					\$32,400.00		\$54,283.59	
TOTAL AMOUNT BID					\$965,270.00		\$2,398,076.07	

SECTION 01 11 00 - SUMMARY OF WORK

PART 1 - GENERAL

1.01 SUMMARY:

- A. This Section summarizes the Work covered in detail in the complete Contract Documents.
- B. Owner: Matanuska-Susitna Borough (MSB), Central Landfill, 1201 N 49th State St, Palmer, AK 99645 is contracting for Work described in the Contract Documents.
 - 1. Contract Identification: Cell 3 GCCS Expansion Construction.
 - 2. Work Site Location: Central Landfill, 1201 N 49th State St, Palmer, AK 99645.
- C. Engineer: The Contract Documents were prepared by Burns & McDonnell Engineering Company, Inc., 5600 American Blvd. W, Bloomington, Minnesota 55437.
- D. Contractor: General contractor for this installation of the landfill gas collection system expansion.

1.02 PROJECT DESCRIPTION:

- A. Work Covered by Contract Documents:
 - 1. The work by the Contractor includes but is not limited to, furnishing and paying for all materials not borrowed from Site, labor, transportation, and services necessary to complete the construction of the Project.

G-1 Mobilization

G-1 Mobilization shall include all costs associated with:

Contractor's mobilization to and demobilization from the site including all health and safety related costs; temporary barriers, temporary controls, temporary utilities, temporary field offices, and other structures required for office and storage space required by the Contractor; attending all of Engineer and Owner required meetings and submitting all required submittals, insurance, bonds, all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-1 Mobilization.

G-2 Utility Locate, Survey, and Record Drawings

G-2 Utility Locate and Survey shall include all costs associated with:

Utility locate of all areas with earthworks to confirm location of known utilities and identify unknown locations, survey after locating, surveys associated with unit price adjustment items, provide locations on as-built drawings, protection of utilities, monitoring wells, control points, and existing site structures, all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-2 Utility Locate and Survey.

G-3 Gas Recovery Well Drilling & Install

G-3 shall include all costs associated with:

Drilling the borehole for ten new gas recovery wells; supply and install of solid pipe, fittings, reinforced geocomposite borehole rings, and foam plugs; and install of owner provided perforated pipe, filter pack material, and soil backfill as detailed in the Contract Drawings and Section 02 66 60 Gas Recovery Well. Surveying of as-built location of gas recovery well and connection to gas laterals as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation during drilling. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-3 Gas Recovery Well Drilling & Install.

SECTION 01 11 00 - SUMMARY OF WORK: continued

G-4 Gas Recovery Well Drilling Refusal

G-4 shall include all costs associated with:

An attempted but unsuccessful drilling of a gas recovery well due to subsurface obstructions that prevent reaching the design depth, as determined by the Engineer and described in Section 02 66 60 Gas Recovery Well. Associated costs shall include the costs of mobilizing the drill rig to the location, the drilling attempt, the proper abandonment of the borehole, and the relocation of excess excavated waste as detailed in Section 02 66 60 Gas Recovery Well and Section 32 92 01 Waste Relocation. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-4 Gas Recovery Well Drilling Refusal. Pricing for bid shall be made on a basis of 85-feet of refusal with total payment for this item on a unit rate basis of linear feet of borehole before refusal as per the unit rate adjustment provided in the bid form. Confirmation of refusal depth shall be made by Owner or Engineer on site prior to backfill of borehole.

G-5 Removal and Salvage of Existing GCCS 6" Header

G-5 shall include all costs associated with:

All labor, material, and equipment required to remove, salvage and stockpile the existing surface GCCS 6-inch HDPE SDR 17 header pipe specified in the Contract Drawings, temporarily capping the connections to the existing GCCS header at the road near the flare and temporary horizontal gas wellheads, and staging the existing GCCS 6-inch HDPE SDR 17 header pipe within the limits of construction. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-5 Removal and Salvage of Existing 6" Header.

G-6 Supply and Install GCCS 10" Header

G-6 shall include all costs associated with:

Owner shall provide pipe bedding material and pipe backfill genreal aggregate. Contractor shall provide all labor, materials, and equipment required to excavate trenches, relocate waste material, install pipe bedding and backfill material, restore intermediate cover at the existing grade, install 2-inch extruded polystyrene insulation boards, foam plugs, 4-ounce non-woven geotextile, 10-inch HDPE SDR 17 pipe, cleanouts, and all necessary fittings, and perform HDPE pipe fusion, placement, and connection to new gas laterals, the existing GCCS header, and all necessary fittings as shown in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe. Surveying of as-built location GCCS 10-inch HDPE SDR 17 header pipe, fittings, and connection to existing GCCS features as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-6 Supply and Install GCCS 10" Header.

G-7 Supply and Install GCCS 8" Header

G-7 shall include all costs associated with:

Owner shall provide pipe bedding material and pipe backfill genreal aggregate. Contractor shall provide all labor, materials, and equipment required to excavate trenches, relocate waste material, install pipe bedding and backfill material, restore intermediate cover at the existing grade, install 8-inch HDPE SDR 17 pipe, cleanouts,

SECTION 01 11 00 - SUMMARY OF WORK: continued

and all necessary fittings, and perform HDPE pipe fusion, placement, and connection to new gas laterals, existing temporary horizontal gas wellheads, new GCCS 10-inch header, existing GCCS 8-inch insulated above-ground header, and all necessary fittings as shown in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe. Surveying of as-built location GCCS 8-inch HDPE SDR 17 header pipe, fittings, and connection to existing GCCS features as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-7 Supply and Install GCCS 8" Header.

G-8 Install Salvaged GCCS 6" Lateral

G-8 shall include all costs associated with:

Owner shall provide pipe bedding material, pipe backfill general aggregate, and 6-inch HDPE pipe. Contrator shall provide all labor, materials, and equipment required to excavate trenches, relocate waste material, install pipe bedding and backfill material, restore intermediate cover at the existing grade, install 6-inch HDPE pipe and all necessary fittings, and perform HDPE pipe fusion, placement, and connection to all necessary fittings as shown in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe. Surveying of as-built location GCCS 6-inch HDPE SDR 17 lateral pipe, fittings, and connection to other GCCS features as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-8 Install Salvaged GCCS 6" Lateral.

G-9 Supply and Install GCCS 6" Lateral

G-9 shall include all costs associated with:

Owner shall provide pipe bedding material and pipe backfill general aggregate. Contrator shall provide all labor, materials, and equipment required to excavate trenches, relocate waste material, install pipe bedding and backfill material, restore intermediate cover at the existing grade, install 6-inch HDPE SDR 17 pipe and all necessary fittings, and perform HDPE pipe fusion, placement, and connection to all necessary fittings as shown in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe. Surveying of as-built location GCCS 6-inch HDPE SDR 17 lateral pipe, fittings, and connection to other GCCS features as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-9 Supply and Install GCCS 6" Lateral.

G-10 Connection of Cell 4 Horizontal Gas Collector Temporary Wellheads

G-10 shall include all costs associated with:

All labor, materials, and equipment required to connect five existing Cell 4 horizontal gas collector temporary wellheads to new GCCS header. This includes but is not limited to modifying Cell 4 horizontal gas collectors solid pipe, relocation of temporary wellheads, furnishing and installing manifolds and signage; re-installing all flexible hoses, clamps and fittings which correspond to relocated temporary wellheads as detailed in the Contract Drawings, and Section 02 66 25 Gas and Condensate Conveyance Pipe.

SECTION 01 11 00 - SUMMARY OF WORK: continued

Surveying of as-built location of temporary wellheads and connection to GCCS header as detailed in Section 01 71 23 Surveying. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-10 Connection of Cell 4 Horizontal Gas Collector Temporary Wellheads.

G-11 Supply and Install of Vertical Wellheads

G-11 shall include all costs associated with:

All labor, materials, and equipment required to supply and install thirteen vertical wellheads. Furnishing and installing all vertical wellheads, valves, flexible hoses, clamps, fittings, and signage which correspond to gas recovery wells as detailed in the Contract Drawings, Section 33 12 16 Landfill Gas System Valves and Section 33 51 23 Vertical Wellhead Assembly. Connection of vertical wellheads to gas laterals, furnishing and installing the solid pipe and fittings which correspond to the new gas recovery wells and gas laterals as detailed in the Contract Drawings and Section 02 66 25 Gas and Condensate Conveyance Pipe. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-11 Supply and Install of Vertical Wellheads.

G-12 Gas Lateral Road Crossing

G-12 shall include all costs associated with:

All labor, materials, and equipment required to furnish and install the new 12-inch corrugated metal pipe around the 6-inch gas lateral pipe described above as shown in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe. Surveying of as-built location of corrugated metal pipe as detailed in Section 01 71 23 Surveying. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-12 Gas Lateral Road Crossing.

G-13 Supply and Install 10" Isolation Valve

G-13 shall include all costs associated with:

All labor, materials, and equipment required to furnish and install the new isolation valve associated with GCCS 10-inch header described above. This includes but is not limited to HDPE pipe fusion, flange connections to stainless steel valve, supply and install valve stems with t-handle, placement, signage, and connection to new GCCS 10-inch header; installation of all necessary fittings and valves as shown in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe and Section 33 12 16 Landfill Gas System Valves. Surveying of as-built location of 10-inch isolation valve as detailed in Section 01 71 23 Surveying. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-13 Supply and Install 10" Isolation Valve.

G-14 Supply and Install 8" Isolation Valve

G-14 shall include all costs associated with:

All labor, materials, and equipment required to furnish and install the new isolation valve associated with GCCS 8-inch header described above. This includes but is not limited to HDPE pipe fusion, flange connections to stainless steel valve, supply and install valve stem with t-handle, placement, signage, and connection to new GCCS 8-inch header; installation of all necessary fittings and valves as shown in the Contract Drawings and

SECTION 01 11 00 - SUMMARY OF WORK: continued

detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe and Section 33 12 16 Landfill Gas System Valves. Surveying of as-built location of 8-inch isolation valve as detailed in Section 01 71 23 Surveying. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-14 Supply and Install 8" Isolation Valve.

G-15 Site Restoration and Sediment Control

G-15 shall include all costs associated with:

Restoring all areas disturbed by construction activities to their original or better condition. This work includes, but is not limited to, re-establishing intermediate cover within cell boundaries, re-establishing existing grades outside cell boundaries, placement of topsoil, seeding, mulching, and erosion control measures as required to establish permanent vegetative cover as specified in the Contract Documents (see section 32 92 00 Lawns). Supplying and installing best management practices to control dust, surface water erosion, debris, and pollution to the Project, the Site, and adjoining properties as detailed in Section 01 57 00 Temporary Barriers and Controls. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of G-15 Site Restoration and Sediment Control.

A-1 Alternative Bid 1: Cell 2A GCCS Header Jumper

A-1 shall include, if awarded, all costs associated with:

All labor, materials, and equipment required to furnish and install the new GCCS 4-inch HDPE SDR 17 insulated jumper pipe and associated fittings. This includes but is not limited to HDPE pipe fusion, placement, insulation, support, and all necessary fittings as shown in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe. Surveying of as-built location GCCS 4-inch HDPE SDR 17 insulated jumper pipe, fittings, and connection to other GCCS features as detailed in Section 01 71 23 Surveying. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-1 Cell 2A GCCS Header Jumper.

A-2 Alternative Bid 2: GCCS Header Maintenance and Investigation

A-2 shall include, if awarded, all costs associated with:

All labor, materials, and equipment required to perform maintenance and investigation on GCCS header north of the flare. This includes but is not limited to excavation of first GCCS 8-inch header cleanout north of flare, cut existing header, remove PVC material inside of header, camera entire length of existing header between flare and the second cleanout north of the flare, document any blockage, deformation, or damage to the header, repair GCCS header and header cleanout, and backfill as noted in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-2 GCCS Header Maintenance and Investigation.

A-3a Alternative Bid 3: Gas Recovery Well Drilling and Install

A-3a shall include, if awarded, all costs associated with:

Drilling the borehole for new gas recovery well GW3-08; supply and install of solid pipe, fittings, reinforced geocomposite borehole ring, and foam plugs; and install of owner

SECTION 01 11 00 - SUMMARY OF WORK: continued

provided perforated pipe, filter pack material, and soil backfill as detailed in the Contract Drawings and Section 02 66 60 Gas Recovery Well. Surveying of as-built location of gas recovery well and connection to gas laterals as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation during drilling. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-3a Gas Recovery Well Drilling & Install.

A-3b Alternative Bid 3: Additional Supply and Install GCCS 6" Lateral

A-3b shall include, if awarded, all costs associated with:

Owner shall provide pipe bedding material and pipe backfill general aggregate. Contrator shall provide all labor, materials, and equipment required to excavate trenches, relocate waste material, install pipe bedding and backfill material, restore intermediate cover at the existing grade, install 6-inch HDPE SDR 17 pipe and all necessary fittings, and perform HDPE pipe fusion, placement, and connection to all necessary fittings for 6" laterals extending to GW3-08 as shown in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe. Surveying of as-built location GCCS 6-inch HDPE SDR 17 lateral pipe, fittings, and connection to other GCCS features as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-3b Supply and Install GCCS 6" Lateral.

A-3c Alternative Bid 3: Additional Supply and Install of Vertical Wellheads

A-3c shall include all costs associated with:

All labor, materials, and equipment required to supply and install vertical wellheads for GW3-08. Furnishing and installing all vertical wellhead, valves, flexible hoses, clamps, fittings, and signage which correspond to gas recovery wells as detailed in the Contract Drawings, Section 33 12 16 Landfill Gas System Valves and Section 33 51 23 Vertical Wellhead Assembly. Connection of vertical wellhead to gas lateral, furnishing and installing the solid pipe and fittings which correspond to the new gas recovery well and gas lateral as detailed in the Contract Drawings and Section 02 66 25 Gas and Condensate Conveyance Pipe. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-3c Supply and Install of Vertical Wellheads.

A-4a Alternative Bid 4: Gas Recovery Well Drilling and Install

A-4a shall include, if awarded, all costs associated with:

Drilling the borehole for new gas recovery well GW3-11; supply and install of solid pipe, fittings, reinforced geocomposite borehole ring, and foam plugs; and install of owner provided perforated pipe, filter pack material, and soil backfill as detailed in the Contract Drawings and Section 02 66 60 Gas Recovery Well. Surveying of as-built location of gas recovery well and connection to gas laterals as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation during drilling. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-4a Gas Recovery Well Drilling & Install.

A-4b Alternative Bid 4: Additional Supply and Install GCCS 6" Lateral

SECTION 01 11 00 - SUMMARY OF WORK: continued

A-4b shall include, if awarded, all costs associated with:

Owner shall provide pipe bedding material and pipe backfill general aggregate. Contrator shall provide all labor, materials, and equipment required to excavate trenches, relocate waste material, install pipe bedding and backfill material, restore intermediate cover at the existing grade, install 6-inch HDPE SDR 17 pipe and all necessary fittings, and perform HDPE pipe fusion, placement, and connection to all necessary fittings for 6" laterals extending to GW3-11 as shown in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe. Surveying of as-built location GCCS 6-inch HDPE SDR 17 lateral pipe, fittings, and connection to other GCCS features as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-4b Supply and Install GCCS 6" Lateral.

A-4c Alternative Bid 4: Additional Supply and Install of Vertical Wellheads

A-4c shall include all costs associated with:

All labor, materials, and equipment required to supply and install vertical wellheads for GW3-11. Furnishing and installing all vertical wellhead, valves, flexible hoses, clamps, fittings, and signage which correspond to gas recovery wells as detailed in the Contract Drawings, Section 33 12 16 Landfill Gas System Valves and Section 33 51 23 Vertical Wellhead Assembly. Connection of vertical wellhead to gas lateral, furnishing and installing the solid pipe and fittings which correspond to the new gas recovery well and gas lateral as detailed in the Contract Drawings and Section 02 66 25 Gas and Condensate Conveyance Pipe. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-4c Supply and Install of Vertical Wellheads.

A-5a Alternative Bid 5: Gas Recovery Well Drilling and Install

A-5a shall include, if awarded, all costs associated with:

Drilling the borehole for new gas recovery well GW3-12; supply and install of solid pipe, fittings, reinforced geocomposite borehole ring, and foam plugs; and install of owner provided perforated pipe, filter pack material, and soil backfill as detailed in the Contract Drawings and Section 02 66 60 Gas Recovery Well. Surveying of as-built location of gas recovery well and connection to gas laterals as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation during drilling. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-5a Gas Recovery Well Drilling & Install.

A-5b Alternative Bid 5: Additional Supply and Install GCCS 6" Lateral

A-5b shall include, if awarded, all costs associated with:

Owner shall provide pipe bedding material and pipe backfill general aggregate. Contrator shall provide all labor, materials, and equipment required to excavate trenches, relocate waste material, install pipe bedding and backfill material, restore intermediate cover at the existing grade, install 6-inch HDPE SDR 17 pipe and all necessary fittings, and perform HDPE pipe fusion, placement, and connection to all necessary fittings for 6" laterals extending to GW3-12 as shown in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe. Surveying of as-built location GCCS 6-inch HDPE SDR 17 lateral pipe, fittings, and connection to other GCCS features as

SECTION 01 11 00 - SUMMARY OF WORK: continued

detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-5b Supply and Install GCCS 6" Lateral.

A-5c Alternative Bid 5: Additional Supply and Install of Vertical Wellheads

A-5c shall include all costs associated with:

All labor, materials, and equipment required to supply and install vertical wellheads for GW3-12. Furnishing and installing all vertical wellhead, valves, flexible hoses, clamps, fittings, and signage which correspond to gas recovery wells as detailed in the Contract Drawings, Section 33 12 16 Landfill Gas System Valves and Section 33 51 23 Vertical Wellhead Assembly. Connection of vertical wellhead to gas lateral, furnishing and installing the solid pipe and fittings which correspond to the new gas recovery well and gas lateral as detailed in the Contract Drawings and Section 02 66 25 Gas and Condensate Conveyance Pipe. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-5c Supply and Install of Vertical Wellheads.

A-6a Alternative Bid 6: Gas Recovery Well Drilling and Install

A-6a shall include, if awarded, all costs associated with:

Drilling the borehole for new gas recovery well GW3-13; supply and install of solid pipe, fittings, reinforced geocomposite borehole ring, and foam plugs; and install of owner provided perforated pipe, filter pack material, and soil backfill as detailed in the Contract Drawings and Section 02 66 60 Gas Recovery Well. Surveying of as-built location of gas recovery well and connection to gas laterals as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation during drilling. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-6a Gas Recovery Well Drilling & Install.

A-6b Alternative Bid 6: Additional Supply and Install GCCS 6" Lateral

A-6b shall include, if awarded, all costs associated with:

Owner shall provide pipe bedding material and pipe backfill general aggregate. Contrator shall provide all labor, materials, and equipment required to excavate trenches, relocate waste material, install pipe bedding and backfill material, restore intermediate cover at the existing grade, install 6-inch HDPE SDR 17 pipe and all necessary fittings, and perform HDPE pipe fusion, placement, and connection to all necessary fittings for 6" laterals extending to GW3-13 as shown in the Contract Drawings and detailed in Section 02 66 25 Gas and Condensate Conveyance Pipe. Surveying of as-built location GCCS 6-inch HDPE SDR 17 lateral pipe, fittings, and connection to other GCCS features as detailed in Section 01 71 23 Surveying. Relocation of excavated waste as detailed in Section 32 92 01 Waste Relocation. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-6b Supply and Install GCCS 6" Lateral.

A-6c Alternative Bid 6: Additional Supply and Install of Vertical Wellheads

A-6c shall include all costs associated with:

All labor, materials, and equipment required to supply and install vertical wellheads for GW3-13. Furnishing and installing all vertical wellhead, valves, flexible hoses, clamps,

SECTION 01 11 00 - SUMMARY OF WORK: continued

fittings, and signage which correspond to gas recovery wells as detailed in the Contract Drawings, Section 33 12 16 Landfill Gas System Valves and Section 33 51 23 Vertical Wellhead Assembly. Connection of vertical wellhead to gas lateral, furnishing and installing the solid pipe and fittings which correspond to the new gas recovery well and gas lateral as detailed in the Contract Drawings and Section 02 66 25 Gas and Condensate Conveyance Pipe. This item includes all items not specified herein but required under the Contract Documents, and all other incidental and associated costs required to complete the work of A-6c Supply and Install of Vertical Wellheads.

1.03 WORK BY OTHERS:

- A. Work Under Other Contracts:
- B. Work by Owner:
- C. Other Activities:

1.04 CONTRACTOR'S USE OF PREMISES:

- A. Limited Use:
 - 1. Limit use of the premises for storage and execution of the Work to allow for Owner occupancy. Confine operations to areas within Contract limits indicated. Portions of Site outside the Contract limits shall not be disturbed.
 - 2. Coordinate with other separate contractors and Owner to avoid interference of operations.
 - 3. Conduct operations so as to ensure the least inconvenience to Owner and the general public.

1.05 WORK SEQUENCE:

- A. General: Construction sequence shall be determined by Contractor subject to Owner's need for continuous operation of existing facilities.
- B. Continuous Service of Existing Facilities: Exercise caution and schedule operations to ensure that functioning of present facilities will not be disrupted. Shutdown of Owner's operating facilities to perform the Work shall be held to a minimum length of time and shall be coordinated with Owner who shall have control over the timing and schedules of such shutdowns.

1.06 OWNER-FURNISHED EQUIPMENT AND MATERIALS:

- A. Owner will furnish washed gravel aggregate in accordance with Specification 02 66 60 to be used for Primary Gravel Filter Pack.
- B. Owner will furnish poorly graded sand in accordance with Specification 02 66 25 to be used for Bedding Material.
- C. Owner will furnish pipe general aggregate with a maximum particle size of 3-inch to be used for backfilling of trenches.
- D. Owner will furnish 6-inch HDPE solid pipe (salvaged from the existing above ground GCCS header) in accordance with Specification 02 66 25 to be used for 6" laterals.
- E. Owner will furnish 6-inch HDPE perforated pipe in accordance with Specification 02 66 25 to be used for vertical gas recovery wells.

1.07 MEASUREMENT AND PAYMENT:

- A. Lump Sum with Adjustment Unit Price Contracts: All Work indicated and specified in the Contract Documents shall be included in the Lump Sum Contract Price, with adjustments to that price made upon final determination of measurements and in accordance with items and prices stated in "Schedule of Adjustment Unit Prices" in the Bid Form.

SECTION 01 11 00 - SUMMARY OF WORK: continued

1.08 COPIES OF DOCUMENTS:

- A. Furnished Copies: After execution of Agreement, Contractor will be furnished at no cost, a maximum of 2 sets of Contract Documents consisting of full-size Contract Drawings including revised Drawings (and schedules), and the Project Manual, in addition to those used in execution of the Agreement.
- B. Additional Copies: Additional copies of above documents will be supplied by Engineer upon request at printing and delivery cost.

1.09 LIST OF DRAWINGS:

- A. Contract Drawings:
 - 1. Each sheet of the Contract Drawings bears the following general title: Cell 3 GCCS Expansion.
 - 2. Individual sheet numbers and titles are as stated on index sheet under "List of Drawings".

PART 2 - PRODUCTS - NOT APPLICABLE.

PART 3 - EXECUTION – NOT APPLICABLE.

END OF SECTION 01 11 00