

DOCUMENT 00 00 12

**ADDENDUM NO. 2
May 21, 2026**

**Fuel Farm Relocation
City of Duluth No. 26-4404
SP No. A6901-230
Duluth International Airport
Duluth, Minnesota**

SEH No. DULAI 188841

From: Short Elliott Hendrickson Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110-3507
651.490.2000

To: Document Holders

DOCUMENT HOLDERS on the above-named project are hereby notified that this document shall be appended to, take precedence over and become part of the original bidding documents dated May 1, 2026, for this work. Bids submitted for the construction of this work shall conform to this document.

This addendum consists of 1 page and attached Document No. 00 41 00 Bid Form, and Drawings G0.01, C5.00, E5.00, E5.01, E5.02, and E5.03.

A pre-bid meeting was held May 14, 2026. A recording of that meeting can be downloaded at the following link:

[Duluth International Airport Fuel Farm Relocation Pre-Bid Meeting](#)

Meeting Presentation is included in this addendum.

Changes to Bidding Requirements:

1. 00 41 00 Bid Form, Statement of Estimate Quantities was updated. With attached 00 41 00 Bid Form.

Changes to Drawings:

2. G0.01 Table of Contents and Statement of Estimate Quantities – Replace with attached G0.01.
3. C5.00 Paving Plan – Replace with attached C5.00.
4. E5.00 Electrical Site Plan- Replace with attached E5.00.
5. E5.01 Enlarged Electrical View - Replace with attached E5.01.
6. E5.02 Electrical Details - Replace with attached E5.02.
7. E5.03 Electrical Details – Replace with attached E5.03.

NOTE: Receipt of this Addendum No. 2 dated May 21, 2026 shall be acknowledged on [Bid Express](#). Failure to do so will not allow Bidder to submit Bid.

END OF ADDENDUM

In addition to the Bid Worksheet electronically completed and submitted online, this BID FORM - DOCUMENT 00 41 00 and the attachments provided must be completed emailed to jvinson@sehinc.com within 72 hours of Bid opening.

DOCUMENT 00 41 00

BID FORM

Contractor's Name _____

Telephone _____

PROJECT IDENTIFICATION: **Fuel Farm Relocation
Duluth International Airport (DLH)
Duluth, Minnesota
SEH No. DULAI 188841**

BIDS TO BE OPENED: **Wednesday, May 27, 2026 at 2:00 p.m.**

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ARTICLE 1 – BID RECIPIENT

- 1.01 This Bid is submitted to [Bid Express](#) Online .
- 1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – ATTACHMENTS TO THIS BID

- 2.01 The following documents are attached to and made a condition of this Bid and shall be uploaded via [Bid Express](#) Online :
 - A. Document 00 43 00 - Bid Bond
 - B. Document 00 43 37 - List of Proposed Suppliers.
 - C. Document 00 45 19 - Affidavit of Non-Collusion.
 - D. Document 00 45 45 - Verification of Compliance with Minnesota Statutes 16C.285.
 - E. Document 00 45 47 - Certification of Compliance with Minnesota Statutes 363A.36.

ARTICLE 3 – BASIS OF BID

- 3.01 Bidder will complete the Work in accordance with the Contract Documents for the prices as indicated on the [Bid Express](#) Online Bid Worksheet .

UNIT PRICE BID

Unit Prices have been computed in accordance with Paragraph 13.03 of the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 4 – TIME OF COMPLETION

- 4.01 Bidder agrees that the Work will be substantially complete and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 4.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 5 – BIDDER'S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

- 5.01 Bid Acceptance Period
 - A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 60 days after the day of Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.
- 5.02 Instructions to Bidder
 - A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid Security.
- 5.03 Receipt of Addenda
 - A. Bidder hereby acknowledges receipt of the Addenda via **Bid Express** Online.

ARTICLE 6 – BIDDER'S REPRESENTATION AND CERTIFICATIONS

- 6.01 Bidders Representations
 - A. In submitting this Bid, Bidder represents that:
 - 1. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents and acknowledged receipt of the Addenda via **Bid Express** online.
 - 2. Bidder has visited the site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 - 3. Bidder is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress and performance of the Work.
 - 4. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.
 - 5. Bidder has carefully studied reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, and (3) Bidder's safety precautions and programs.
7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

6.02 Bidder certifies that:

A. The Bidder certifies the following:

1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
3. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 6.02.A:
 - a. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
 - b. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - c. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
 - d. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 7 – DEFINED TERMS

7.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions

ARTICLE 8 – BID SUBMITTAL

8.01 The Bid submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)
(Individual's signature)

Doing business as: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner - attach evidence of authority to sign)

Name (typed or printed): _____

A Joint Venture

Name of Joint Venturer: _____

First Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of first joint venture partner - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

A Corporation

Corporation Name: _____

State of Corporation: _____

Name (General Business, Professional, Service, Limited Liability): _____

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____
(CORPORATE SEAL)

Attest: _____
(Signature of Corporate Secretary)

Date of Qualification to do business in _____ is ____/____/____.
(State Where Project is Located)

Contact Information

Bidder's Business Address: _____

Phone: _____ Facsimile: _____ E-mail: _____

Submitted on _____, 20____.

State Contractor License No. _____. (If applicable)

END OF DOCUMENT

STATEMENT OF ESTIMATED QUANTITIES

LINE NO.	ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	01 71 13	MOBILIZATION	LS	1
2	01 71 13	REMOBILIZATION FOR LONG LEAD TIME EQUIPMENT INSTALL	LS	1
3	01 71 23	FIELD ENGINEERING	LS	1
4	01 55 15	MAINTENANCE & RESTORATION OF HAUL ROADS	LS	1
5	31 25 10	SILT FENCE, TYPE PREASSEMBLE (INCL. INSTALLATION, MAINTENANCE, & REMOVAL)	LF	1500
6	31 25 10	FILTER LOG, TYPE WOOD FIBER BIOROLL (INCL. MAINTENANCE)	LF	1400
7	31 25 10	EROSION CONTROL BLANKET (INCL. MAINTENANCE)	SY	280
8	32 91 13	ON-SITE TOPSOIL SALVAGING, & SPREADING	CY	190
9	02 41 33	SAWING BITUMINOUS PAVEMENT	LF	385
10	02 41 33	FLARED END SECTION REMOVAL	EA	2
11	33 42 20	15" REINFORCED CONCRETE PIPE, CLASS III WITH CLASS B BEDDING	LF	165
12	31 23 10	COMMON EXCAVATION (EV)	CY	3450
13	31 23 10	UNCLASSIFIED EXCAVATION	CY	500
14	31 22 10	SELECT GRANULAR/SUBBASE COURSE	CY	1460
15	32 11 11	SUBGRADE PREPARATION	SY	3200
16	31 34 10	GEOTEXTILE FABRIC	SY	3200
17	31 11 22	CRUSHED AGGREGATE BASE COURSE (CV)	CY	705
18	32 12 16	WEARING COURSE MIXTURE	TON	516
19	32 12 16	NON-WEAR COURSE MIXTURE	TON	530
20	32 12 13	EMULSIFIED BITUMINOUS TACK COAT	GAL	150
21	32 13 10	CONCRETE PAVING (6 INCH)	SY	230
22	32 13 10	CONCRETE SLAB (4 INCH)	SY	17
23	03 30 00	REINFORCED CONCRETE SLAB (12 INCH)	SY	260
24	32 17 25	PARKING LOT MARKING, WHITE	LS	1
25	32 15 10	SHOULDER BASE AGGREGATE	CY	25
26	32 01 16	MILL AND OVERLAY	SY	85
27	32 92 12	TURF ESTABLISHMENT (BRILLION) (INCL SEED, FERTILIZER, MULCH, & WATER)	AC	1
28	ELEC	SERVICE CABINET WITH ENVIRONMENTALLY CONTROLLED ENCLOSURE	EA	1
29	ELEC	EQUIPMENT PAD	EA	1
30	ELEC	LIGHTING UNIT	EA	1
31	ELEC	LIGHT POLE FOUNDATION	EA	1
32	ELEC	LUMINAIRE	EA	1
33	ELEC	EMERGENCY FUEL STOP SYSTEM	EA	1
34	ELEC	1" CONDUIT	LF	460
35	ELEC	2" NON-METALLIC CONDUIT	LF	20
36	ELEC	3/4" NON-METALLIC CONDUIT	LF	3300
37	ELEC	UNDERGROUND WIRE 1/C 10 AWG	LF	8800
38	ELEC	UNDERGROUND WIRE 1/C 2 AWG	LF	90
39	ELEC	BELDEN CABLE #8760	LF	2500
40	ELEC	CAT6A CABLE	LF	75
41	ELEC	COMMISSIONING	LS	1
42	Spec. Prov.	PROCURE AND INSTALL 10,000 GAL UNLEADED AST, APPURTENANCES AND PIPING	LS	1
43	Spec. Prov.	PROCURE AND INSTALL 2-10,000 GAL DIESEL AST, APPURTENANCES AND PIPING	LS	1
44	Spec. Prov.	PROCURE AND INSTALL - AST APPURTANANCES	LS	1
45	Spec. Prov.	PROCURE AND INSTALL- UG PIPING AND SUMPS	LS	1
46	Spec. Prov.	INSTALL NEW DISPENSER ISLANDS	LS	1
47	Spec. Prov.	PROCURE AND INSTALL - NEW DISPENSERS	LS	1
48	Spec. Prov.	PORTABLE SUPPLIES/SIGNAGE - AIRSIDE	LS	1
49	Spec. Prov.	PORTABLE SUPPLIES/SIGNAGE - LANDSIDE	LS	1
50	STRUCT.	CONCRETE BOLLARD WITH SLIP COVER	EA	59
51		MNDOT HIGH TENSION CABLE BARRIER	LF	250
52		6' FIBERGLASS SNOW MARKERS, ORANGE WITH REFLECTIVE BANDING	EA	14

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Sheet List	
Sheet Number	Sheet Title
G0.00	TITLE SHEET
G0.01	TABLE OF CONTENTS & STATEMENT OF ESTIMATED QUANTITIES
G1.00	CONSTRUCTION SAFETY PLAN
G1.01	CONSTRUCTION SAFETY PLAN NOTES
G1.02	CONSTRUCTION SAFETY PLAN NOTES
G1.03	CONSTRUCTION SAFETY PLAN NOTES
G2.00	CONSTRUCTION SIGNAGE PLAN
G2.01	CONSTRUCTION SIGNAGE PLAN
G3.00	GENERAL NOTES
G4.00	EARTHWORK SUMMARY
G5.00	TYPICAL SECTION
C0.00	STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
C0.01	STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
C0.02	STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
C0.10	EROSION CONTROL PLAN
C0.11	EROSION CONTROL PLAN DETAILS
C0.12	EROSION CONTROL PLAN DETAILS
C0.13	EROSION CONTROL PLAN DETAILS
C1.00	TURF ESTABLISHMENT PLAN
C2.00	DEMOLITION PLAN
C5.00	PAVING PLAN
C6.00	GRADING PLAN
C7.00	GENERAL DETAILS
C7.01	CONCRETE JOINT DETAILS
E5.00	ELECTRICAL SITE PLAN
E5.01	ENLARGED ELECTRICAL VIEW
E5.02	ELECTRICAL DETAILS
E5.03	ELECTRICAL DETAILS
E5.04	ELECTRICAL DETAILS
E6.00	ELECTRICAL SPECIFICATIONS
S0.00	GENERAL ABBREVIATIONS AND SYMBOLS
S0.01	STRUCTURAL NOTES
S1.00	FUEL PAD PLAN AND DETAILS
F101	FUEL SYSTEM LAYOUT
F102	FUEL SYSTEM DETAIL
F103	FUEL SYSTEM DETAIL
F104	FUEL SYSTEM DETAIL
F105	DIESEL P&ID
F106	GASOLINE P&ID
F107	DETAIL SHEET

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52		6' FIBERGLASS SNOW MARKERS, ORANGE WITH REFLECTIVE BANDING	EA	14

STATEMENT OF ESTIMATED QUANTITY NOTES:

LINE ITEM NO. 1: LIMITED TO 10% OF THE TOTAL PROJECT COSTS RELATED TO THE BID SCHEDULE.
 LINE ITEM NO. 2: ITEM WILL BE PAID ONLY IF THERE ARE COSTS ASSOCIATED WITH STOPPING THE WORK TO WAIT FOR LONG LEAD TIME EQUIPMENT AND THEN RESTARTING AGAIN. CONTRACTOR'S SCHEDULE SHOULD ONLY PLAN FOR THIS IF THERE WILL BE KNOWN DELAYS.

SEH Project DULAI 188841
 Drawn By NAP
 Designed By NAP
 Checked By JLV

Rev.# 1
 Description ISSUE FOR BID
 Date 05/01/2026

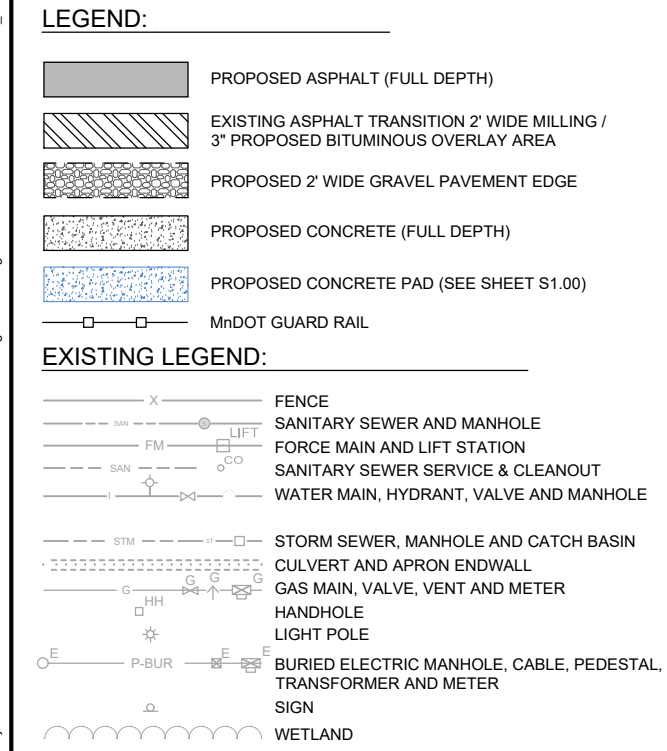
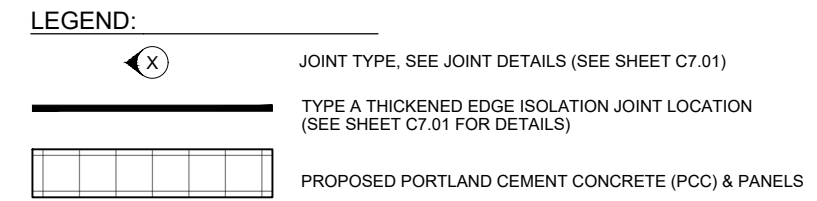
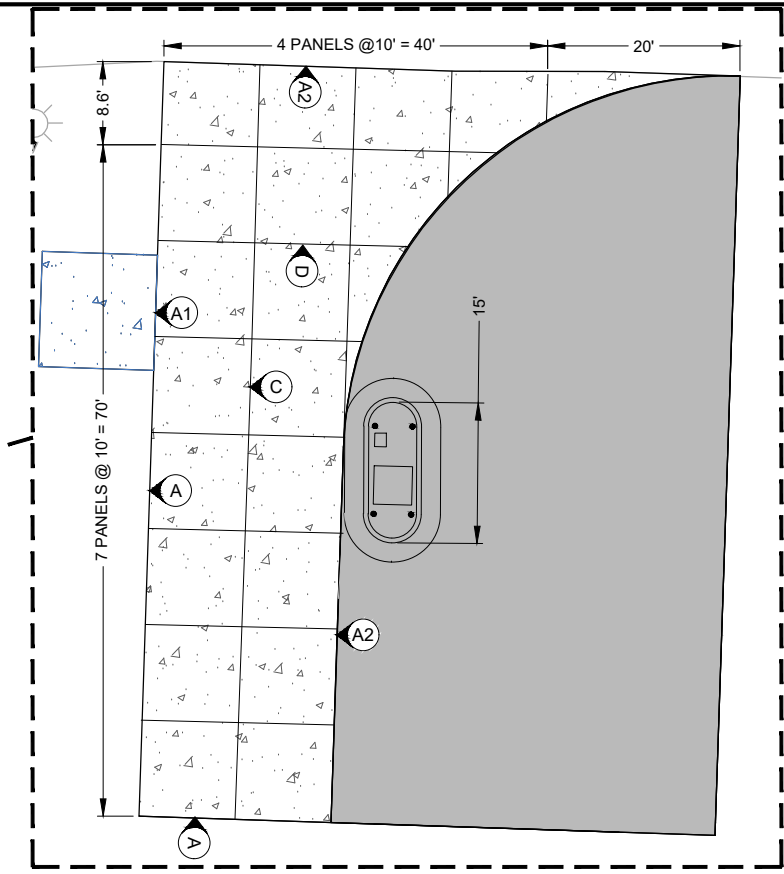
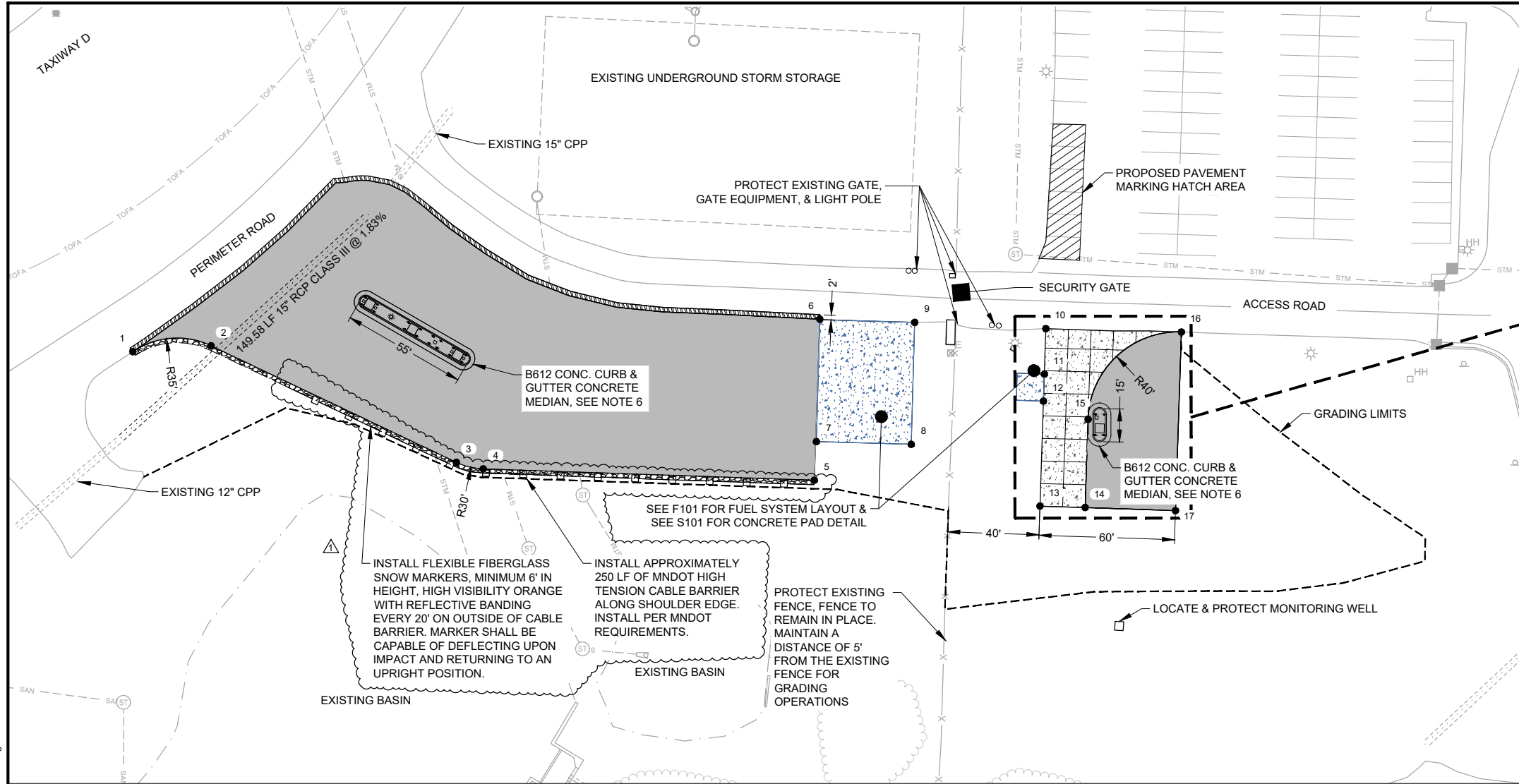
Rev.#
 Description ADDENDUM NO. 1
 ADDENDUM NO. 2
 Date 05/15/2026
 Date 05/21/2026



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 Jessica Vinson, PE
 DATE 05/01/2026 LICENSE NO. 63559

FUEL FARM RELOCATION
 DULUTH, MN

TABLE OF CONTENTS & STATEMENT OF ESTIMATED QUANTITIES | G0.01



GEOMETRIC CONTROL NOTES:

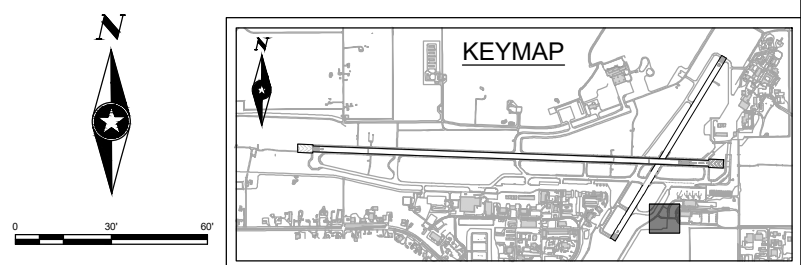
- COORDINATES SHOWN ARE BASED ON THE ST. LOUIS COUNTY SOUTH COORDINATE SYSTEM.
- CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS FOR TIE IN OF PROPOSED PAVEMENT TO EXISTING PAVEMENT.

NOTES:

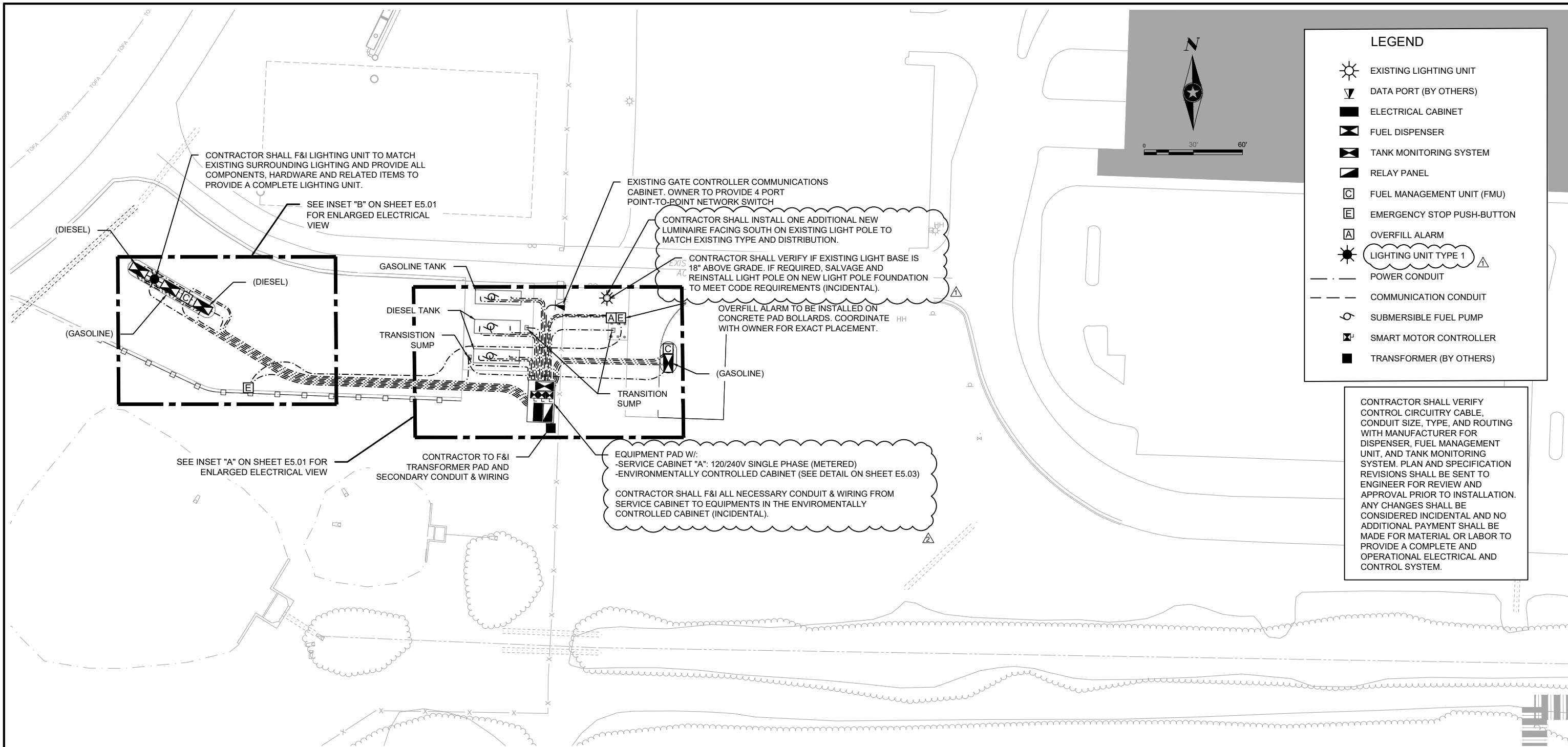
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING STORM PIPES, INLETS, AND MANHOLES PRIOR TO PAVEMENT INSTALLATION AND PROTECT ALL EXISTING SYSTEMS. ANY DAMAGE TO EXISTING UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY TIE LOCATIONS FOR THE PROPOSED PAVEMENT TO EXISTING PAVEMENT.
- SEE TYPICAL SECTION AND DETAILS ON SHEET G5.00.
- JOINT SEALANTS, DOWELS, AND REINFORCEMENT AND OTHER ITEMS REQUIRED FOR JOINTING ARE INCIDENTAL TO PAVING ITEMS. CONCRETE MEDIAN SHALL BE INFILLED IN ACCORDANCE WITH UTILITY PAD TYPICAL SECTION. COORDINATE WITH FUEL AND ELECTRICAL PLANS FOR REQUIRED OPENINGS AND EQUIPMENT. ALL MATERIALS AND CONSTRUCTION OF ISLANDS SHALL BE PAID FOR IN THE "INSTALL NEW DISPENSER ISLANDS" LINE ITEM.

POINT TABLE

POINT #	RAW DESCRIPTION	NORTHING	EASTING
1	ASPHALT EDGE	168405.6975	566609.3325
2	ASPHALT EDGE	168408.3087	566643.9506
3	ASPHALT EDGE	168356.7070	566752.5321
4	ASPHALT EDGE	168353.8207	566764.3753
5	ASPHALT EDGE	168348.7669	566910.9648
6	ASPHALT EDGE	168420.0819	566913.4207
7	CONCRETE EDGE	168365.8671	566911.8673
8	CONCRETE EDGE	168364.6632	566953.8501
9	CONCRETE EDGE	168418.6410	566955.3980
10	CONCRETE EDGE	168415.8781	567013.4624
11	CONCRETE EDGE	168395.7292	567012.7974
12	CONCRETE EDGE	168383.7357	567012.4003
13	CONCRETE EDGE	168337.2889	567010.8623
14	CONCRETE EDGE	168336.6417	567030.8519
15	CONCRETE EDGE	168375.7365	567032.1464
16	CONCRETE EDGE	168414.3907	567073.4527
17	ASPHALT EDGE	168335.3179	567070.8300



Save: 5/19/2026 8:55 AM J:\jvinson Plot: 5/19/2026 4:44 PM X:\AED\DU\1188841\5-final-dsgn\51-drawings\65-Aviation\Plan Sheets\DLH-188841_PP-Add 2.dwg



LEGEND

- EXISTING LIGHTING UNIT
- DATA PORT (BY OTHERS)
- ELECTRICAL CABINET
- FUEL DISPENSER
- TANK MONITORING SYSTEM
- RELAY PANEL
- FUEL MANAGEMENT UNIT (FMU)
- EMERGENCY STOP PUSH-BUTTON
- OVERFILL ALARM
- LIGHTING UNIT TYPE 1
- POWER CONDUIT
- COMMUNICATION CONDUIT
- SUBMERSIBLE FUEL PUMP
- SMART MOTOR CONTROLLER
- TRANSFORMER (BY OTHERS)

CONTRACTOR SHALL VERIFY CONTROL CIRCUITRY CABLE, CONDUIT SIZE, TYPE, AND ROUTING WITH MANUFACTURER FOR DISPENSER, FUEL MANAGEMENT UNIT, AND TANK MONITORING SYSTEM. PLAN AND SPECIFICATION REVISIONS SHALL BE SENT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. ANY CHANGES SHALL BE CONSIDERED INCIDENTAL AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR MATERIAL OR LABOR TO PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL AND CONTROL SYSTEM.

CONTRACTOR SHALL F&I LIGHTING UNIT TO MATCH EXISTING SURROUNDING LIGHTING AND PROVIDE ALL COMPONENTS, HARDWARE AND RELATED ITEMS TO PROVIDE A COMPLETE LIGHTING UNIT.

SEE INSET "B" ON SHEET E5.01 FOR ENLARGED ELECTRICAL VIEW

EXISTING GATE CONTROLLER COMMUNICATIONS CABINET. OWNER TO PROVIDE 4 PORT POINT-TO-POINT NETWORK SWITCH

CONTRACTOR SHALL INSTALL ONE ADDITIONAL NEW LUMINAIRE FACING SOUTH ON EXISTING LIGHT POLE TO MATCH EXISTING TYPE AND DISTRIBUTION.

CONTRACTOR SHALL VERIFY IF EXISTING LIGHT BASE IS 18" ABOVE GRADE. IF REQUIRED, SALVAGE AND REINSTALL LIGHT POLE ON NEW LIGHT POLE FOUNDATION TO MEET CODE REQUIREMENTS (INCIDENTAL).

OVERFILL ALARM TO BE INSTALLED ON CONCRETE PAD BOLLARDS. COORDINATE WITH OWNER FOR EXACT PLACEMENT.

SEE INSET "A" ON SHEET E5.01 FOR ENLARGED ELECTRICAL VIEW

CONTRACTOR TO F&I TRANSFORMER PAD AND SECONDARY CONDUIT & WIRING

EQUIPMENT PAD W/:
 -SERVICE CABINET "A": 120/240V SINGLE PHASE (METERED)
 -ENVIRONMENTALLY CONTROLLED CABINET (SEE DETAIL ON SHEET E5.03)

CONTRACTOR SHALL F&I ALL NECESSARY CONDUIT & WIRING FROM SERVICE CABINET TO EQUIPMENTS IN THE ENVIROMENTALLY CONTROLLED CABINET (INCIDENTAL).

GENERAL NOTES:

- A. ALL CONDUIT AND JUNCTION BOXES IN CLASSIFIED AREAS TO BE EXPLOSION PROOF.
- B. CONTRACTOR SHALL MAKE MODIFICATIONS AS NEEDED BASED ON FINAL EQUIPMENT AND MANUFACTURERS SELECTED (INCIDENTAL).

SEH Project DULAI 188841
 Drawn By RT
 Designed By RT
 Checked By JEK

Rev.#	Plan Revision Issue Description	Date
1	ADDENDUM NO. 1	05/15/2026
2	ADDENDUM NO. 2	05/20/2026

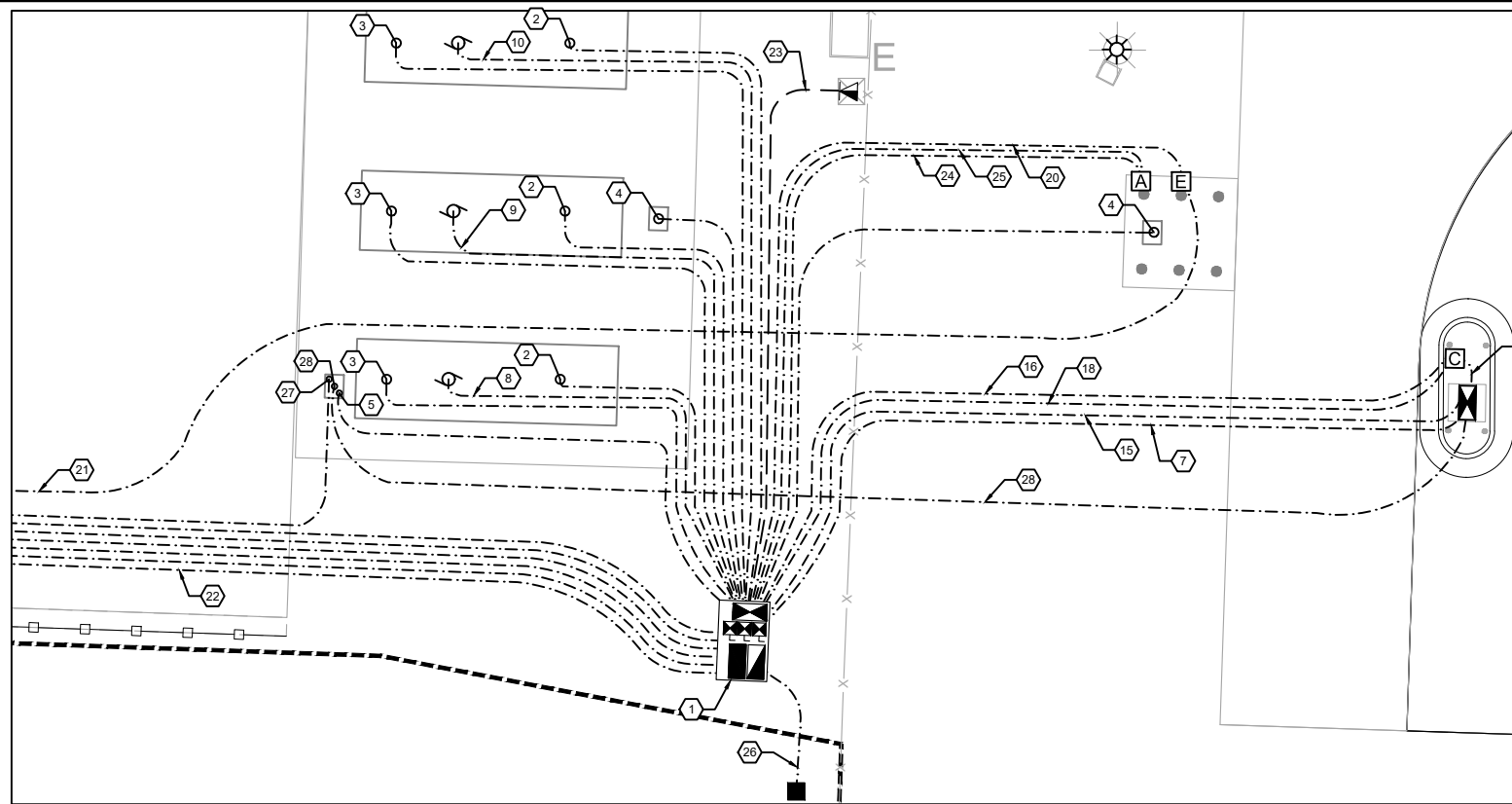
Rev.#	Sheet Revision Issue Description	Date
1		

SEH
 I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 ROTHANA THORNG, P.E.
 DATE 05/01/2026 LICENSE NO. 63074

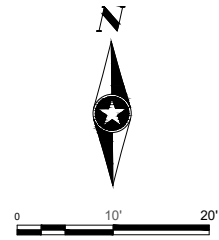
FUEL FARM RELOCATION
 DULUTH, MN

ELECTRICAL SITE PLAN

E5.00

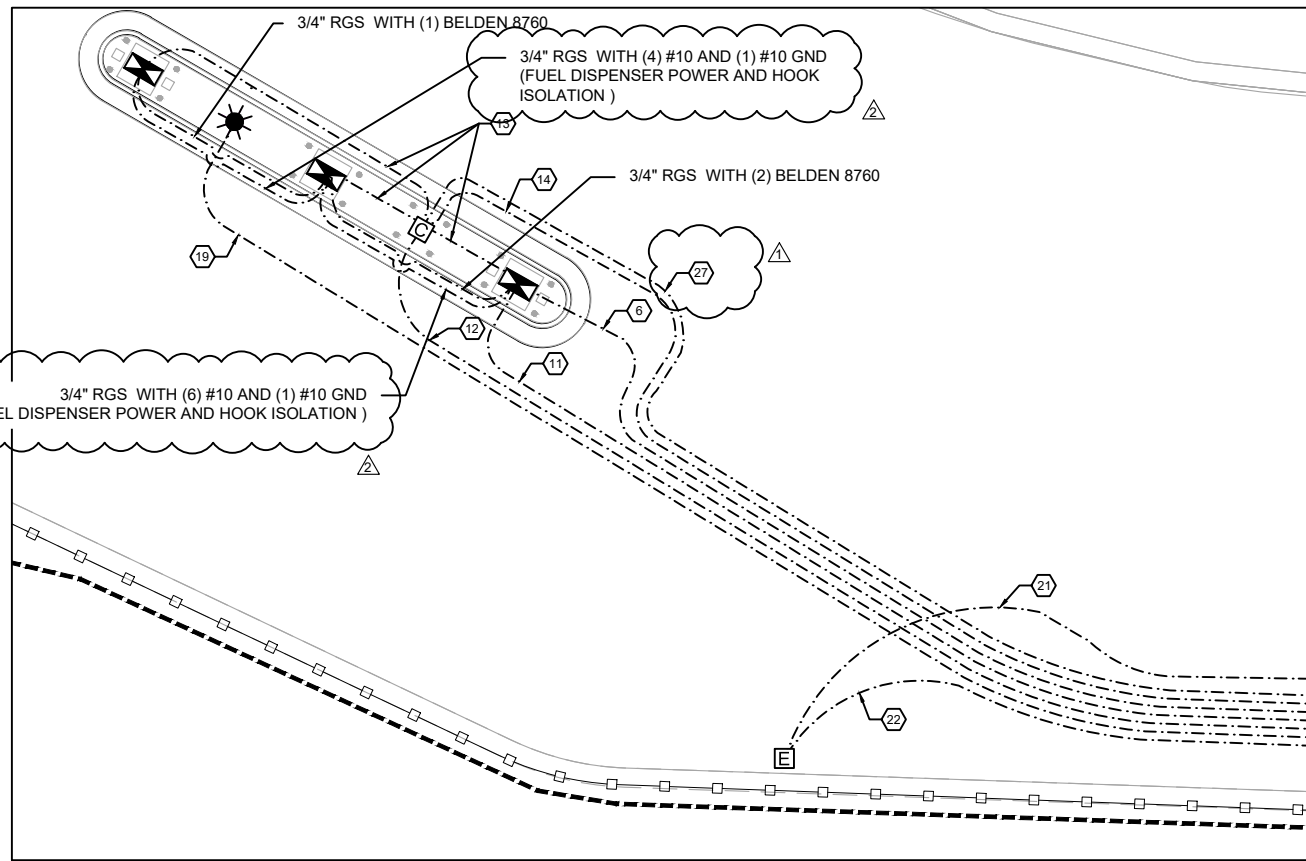


INSET A



CONTRACTOR SHALL VERIFY CONTROL CIRCUITRY CABLE, CONDUIT SIZE, TYPE, AND ROUTING WITH MANUFACTURER FOR DISPENSER, FUEL MANAGEMENT UNIT, AND TANK MONITORING SYSTEM. PLAN AND SPECIFICATION REVISIONS SHALL BE SENT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. ANY CHANGES SHALL BE CONSIDERED INCIDENTAL AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR MATERIAL OR LABOR TO PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL AND CONTROL SYSTEM.

LEGEND	
	EXISTING LIGHTING UNIT
	DATA PORT (BY OTHERS)
	ELECTRICAL CABINET
	FUEL DISPENSER
	TANK MONITORING SYSTEM
	RELAY PANEL
	FUEL MANAGEMENT UNIT (FMU)
	EMERGENCY STOP PUSH-BUTTON
	OVERFILL ALARM
	LIGHTING UNIT TYPE 1
	POWER CONDUIT
	COMMUNICATION CONDUIT
	SUBMERSIBLE FUEL PUMP
	MOTOR CONTROLLER
	TRANSFORMER (BY OTHERS)



INSET B

CONDUIT AND WIRE SCHEDULE

IDENTIFIER	LOAD SERVED "FROM"	LOAD SERVED "TO"	CONDUIT SIZE	CONDUCTORS	GROUND
1*	PROPOSED ELECTRICAL PANEL	TANK MONITORING SYSTEM	N/A	(2) #12	#12
	PROPOSED ELECTRICAL PANEL	PUMP CONTROLLER (1,2,& 3)	N/A	(6) #10	#12
	TANK MONITORING SYSTEM	PUMP CONTROLLER (1,2,& 3)	N/A	(2) BELDEN CABLE #8760	N/A
2	TANK MONITORING SYSTEM	TANK LEVEL GAUGE	3/4"	(1) BELDEN CABLE #8760	N/A
3	TANK MONITORING SYSTEM	INTERSTITIAL LEAK PROBE	3/4"	(1) BELDEN CABLE #8760	N/A
4	TANK MONITORING SYSTEM	TRANSITION SUMP LEAK PROBE	3/4"	(1) BELDEN CABLE #8760	N/A
5	TANK MONITORING SYSTEM	ELECTRONIC LINE LEAK DETECTION (ELLD) AND TRANSITION SUMP PROBE	3/4"	(2) BELDEN CABLE #8760	N/A
6	TANK MONITORING SYSTEM	FUEL DISPENSER SUMP LEAK PROBE (AIRSIDE)	1"	(3) BELDEN CABLE #8760	N/A
7	TANK MONITORING SYSTEM	FUEL DISPENSER SUMP LEAK PROBE (LANDSIDE)	3/4"	(1) BELDEN CABLE #8760	N/A
8	PUMP CONTROLLER 1	DIESEL SUBMERSIBLE FUEL PUMP 1	3/4"	(2) #10	#10
9	PUMP CONTROLLER 2	DIESEL SUBMERSIBLE FUEL PUMP 2	3/4"	(2) #10	#10
10	PUMP CONTROLLER 3	GASOLINE SUBMERSIBLE FUEL PUMP	3/4"	(2) #10	#10
11	PROPOSED ELECTRICAL PANEL	FUEL DISPENSERS (AIRSIDE)	1"	(2) #10	#10
	DISPENSER HOOK ISOLATION	FUEL DISPENSER (AIRSIDE)		(6) #10	N/A
12	PROPOSED ELECTRICAL PANEL	FUEL MANAGEMENT UNIT (AIRSIDE)	3/4"	(2) #10	#10
13	FUEL DISPENSER (AIRSIDE)	FUEL MANAGEMENT UNIT (AIRSIDE)	3/4"	(1) BELDEN CABLE #8760	N/A
14	TANK MONITORING SYSTEM	FUEL MANAGEMENT UNIT (AIRSIDE)	3/4"	(1) BELDEN CABLE #8760	N/A
15	PROPOSED ELECTRICAL PANEL	FUEL DISPENSER (LANDSIDE)	3/4"	(2) #10	#10
	DISPENSER HOOK ISOLATION	FUEL DISPENSER (LANDSIDE)		(2) #10	N/A
16	PROPOSED ELECTRICAL PANEL	FUEL MANAGEMENT UNIT (LANDSIDE)	3/4"	(2) #10	#10
17	FUEL DISPENSER (LANDSIDE)	FUEL MANAGEMENT UNIT (LANDSIDE)	3/4"	(1) BELDEN CABLE #8760	N/A
18	TANK MONITORING SYSTEM	FUEL MANAGEMENT UNIT (LANDSIDE)	3/4"	(1) BELDEN CABLE #8760	N/A
19	PROPOSED ELECTRICAL PANEL	LIGHT POLE	3/4"	(2) #10	#10
20	PROPOSED ELECTRICAL PANEL	EMERGENCY STOP PUSH-BUTTON (LANDSIDE)	3/4"	(1) #10	#10
21	EMERGENCY STOP PUSH-BUTTON (LANDSIDE)	EMERGENCY STOP PUSH-BUTTON (AIRSIDE)	3/4"	(1) #10	#10
22	EMERGENCY STOP PUSH-BUTTON (AIRSIDE)	RELAY PANEL	3/4"	(1) #10	#10
23	DATA PORT (BY OTHERS)	TANK MONITORING SYSTEM	3/4"	CAT 6	N/A
24	TANK MONITORING SYSTEM	OVERFILL ALARM	3/4"	(1) BELDEN CABLE #8760	N/A
25	PROPOSED ELECTRICAL PANEL	OVERFILL ALARM	3/4"	(2) #10	#10
26	PROPOSED ELECTRICAL PANEL	PROPOSED SERVICE CABINET	2"	(3) #2	N/A
27**	FUEL MANAGEMENT UNIT (AIRSIDE)	TRANSITION SUMP	3/4"	(1) #10	#10
28**	FUEL MANAGEMENT UNIT (LANDSIDE)	TRANSITION SUMP	3/4"	(2) #10	#10

* = PROPOSED BELDEN 8760 CABLES TO BE DAISY CHAINED FROM THE TANK MONITOR SYSTEM TO THE PUMP CONTROLLERS FOR RS485 COMMUNICATION PER MANUFACTURER'S INSTRUCTIONS. THE FIRST DAISY CHAINED PUMP CONTROLLER SHALL BE DESIGNATED AS THE PRIMARY CONTROLLER.
 ** = 120V WIRING FROM FMU FOR ANTI-SIPHON SOLENOID VALVE(S).

SEH Project	DULAI 188841	Rev.#	Plan Revision Issue Description	Date	Rev.#	Sheet Revision Issue Description	Date
Drawn By	RT	▲	ADDENDUM NO. 1	05/15/2026			
Designed By	RT	▲	ADDENDUM NO. 2	05/20/2026			
Checked By	JEK						

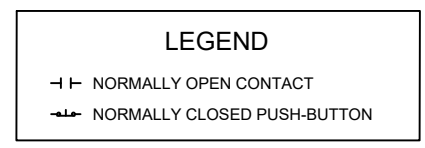
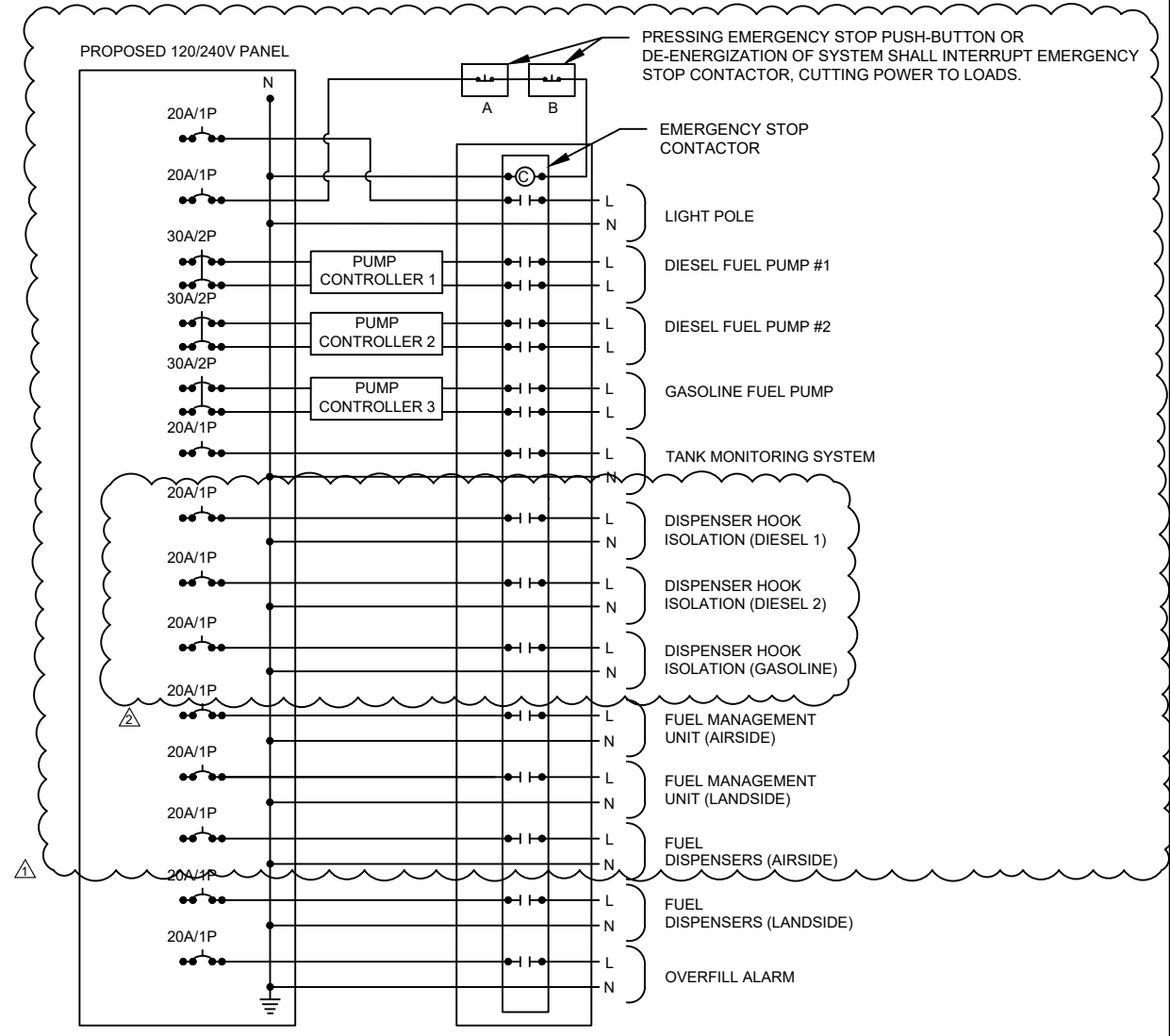
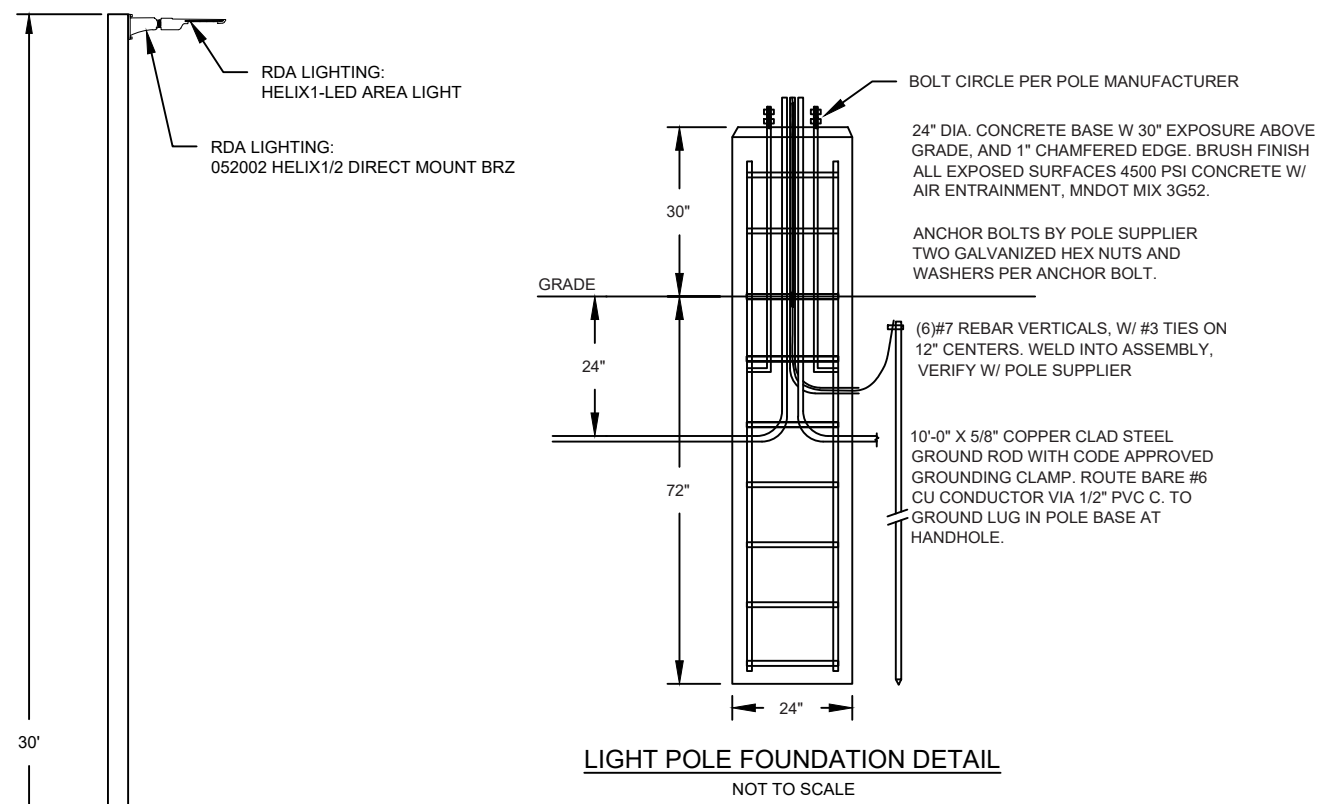
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ROTHANA THORNG, P.E.
 DATE: 05/01/2026 LICENSE NO. 63074

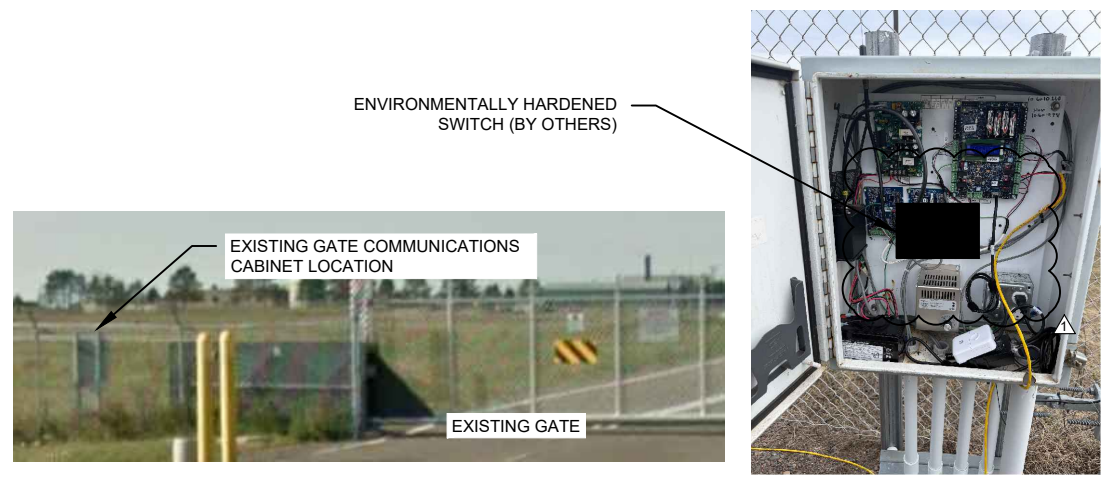
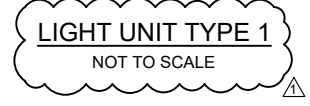
FUEL FARM RELOCATION
 DULUTH, MN

ENLARGED ELECTRICAL VIEW

E5.01



- NOTES:
- CONTRACTOR SHALL F&I LIGHTING UNIT TO MATCH EXACT FIXTURE (INCLUDING PERFORMANCE AND DISTRIBUTION) USED IN EXISTING SURROUNDING LIGHTING OR EQUAL.
 - CONTRACTOR SHALL PROVIDE ALL COMPONENTS, HARDWARE AND RELATED ITEMS TO PROVIDE A COMPLETE LIGHTING UNIT.



EXISTING GATE COMMUNICATIONS CABINET
NOT TO SCALE

ENVIRONMENTALLY CONTROLLED ENCLOSURE NOTES:

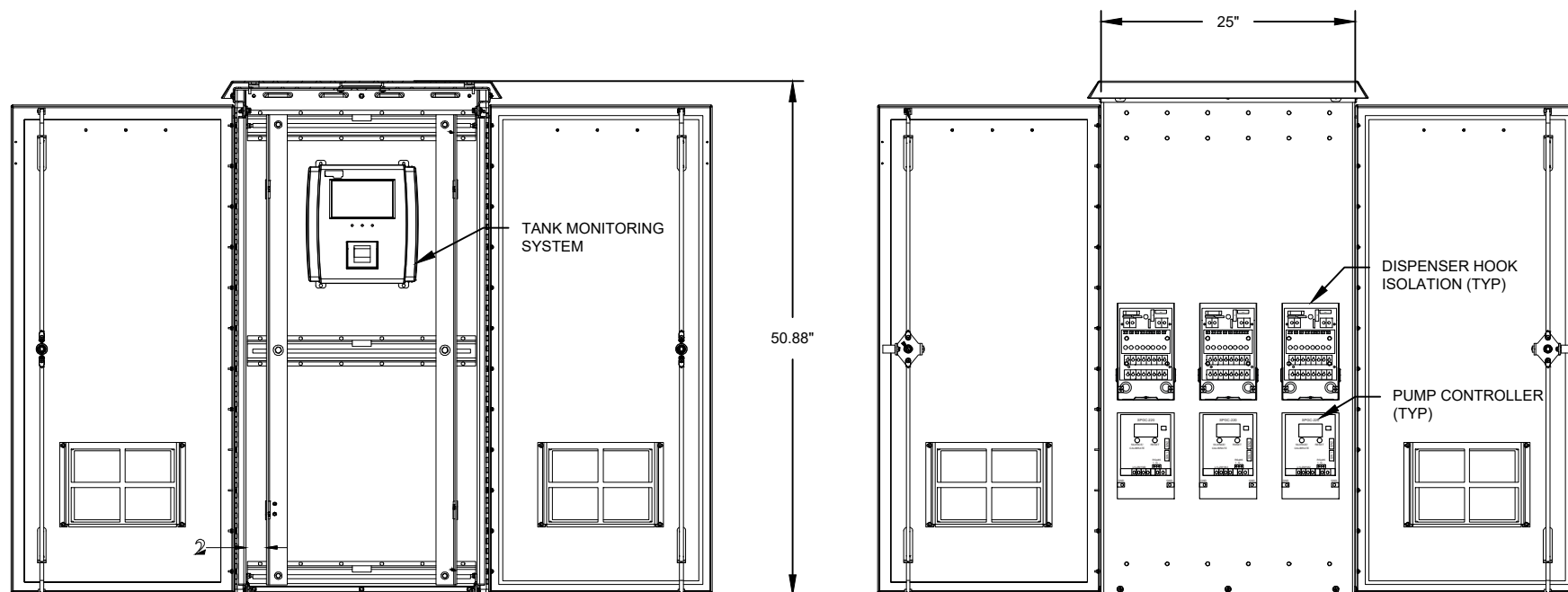
1. CABINET SHALL BE MANUFACTURED BY DDB UNLIMITED. 1.800.753.8459.
2. MANUFACTURE SHALL INSTALL ACP-2000-T20-110 AIR CONDITIONER UNIT (WITH HEAT PACKAGE) MOUNT TO EQUIPMENT PAD PER MANUFACTURER INSTRUCTION.
3. CONTRACTOR TO ENSURE ENVIRONMENTALLY CONTROLLED CABINET ARE COMPLETELY WATER TIGHT.
4. COORDINATE WITH OWNER TO PROVIDE 4 PORT POINT-TO-POINT NETWORK SWITCH CONNECTION FROM EXISTING GATE CONTROLLER COMMUNICATIONS CABINET FOR INTERNET CONNECTION (INCIDENTAL)
5. CONTRACTOR SHALL REVIEW ALL EQUIPMENT FOR ENVIRONMENTAL (TEMPERATURE) REQUIREMENTS AND DETERMINE IF ENCLOSURE WILL HAVE THE HOUSING CAPACITY FOR ALL NECESSARY EQUIPMENT. IF NECESSARY, CONTRACTOR SHALL UPGRADE ENVIRONMENTAL ENCLOSURE SIZE AND TYPE AT NO ADDITIONAL COST.

ENVIRONMENTALLY CONTROLLED CABINET CONSTRUCTION

- NEMA 3R
- DDB UNLIMITED-
 - OUTDOOR ENCLOSURE: OD50DXC
 - AC & HEATER: ACP-2000-T20-110
- REFER TO DDB QUOTE NUMBER 56520 FOR ADDITIONAL INFORMATION



ACP-2000-T20-110 AIR CONDITIONER UNIT WITH BUILT-IN HEAT PACKAGE (MOUNTED TO SIDE OF ENCLOSURE)



LEFT VIEW

RIGHT VIEW

ENVIRONMENTALLY CONTROLLED ENCLOSURE DETAILS
NOT TO SCALE

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Designed By	RT	△	ADDENDUM NO. 2	05/20/2026	.		
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FUEL FARM RELOCATION
DULUTH, MN

ELECTRICAL DETAILS

E5.03