

ENGINEERS & SURVEYORS

PHONE (605) 225-1212 FAX (605) 225-3189

May 16, 2025

Re: Terminal Building Remodel & Expansion

Aberdeen Regional Airport Aberdeen, South Dakota A.I.P. #3-46-0001-055-2025

A-9799

Bid Opening: **May 20, 2025**

2:00 pm (local time)

ADDENDUM NUMBER 1

The following modifications are made to the plans and specifications for the Terminal Building Remodel & Expansion, Aberdeen Regional Airport.

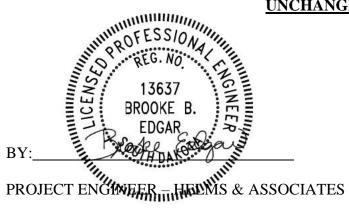
CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS

1. **Proposal form** - Remove pages 855-857 in the contract documents and specifications, replace with the <u>attached</u> pages 855-858 for the proposal.

See the following pages for architectural/mechanical/electrical addendum items that shall be replaced in the plans and specification documents.

The minutes from the Pre-Bid meeting are attached to this addendum.

ALL OTHER ITEMS OF THE PLANS AND SPECIFICATIONS REMAIN UNCHANGED



Acknowledge receipt of the Addendum by inserting its number on the Bid Form. Failure to do so may subject bidder to disqualification. This Addendum forms a part of the Contract Documents. It modifies them as above.

TERMINAL BUILDING REMODEL AND EXPANSION ABERDEEN REGIONAL AIRPORT

AIP #3-46-0001-055-2025 A-9799

Bid Schedule A - Terminal Building Remodel and Expansion

| Item No. | Item Description | Quantity | Unit | Unit Price | Total Price |
|----------|---|----------|------|------------|-------------|
| 1 | Mobilization (Max of 10% of Total Project Cost) | 1 | L.S. | \$ | \$ |
| 2 | Terminal Building Remodel and Expansion, Complete | 1 | L.S. | \$ | \$ |

| Subtotal Bid Schedule A items 1 – 2 inclusive | \$ | |
|---|-----------|---------|
| Written: | | |
| | | Dollars |
| All Itams Furnished and | Installed | |

Bid Schedule B - Terminal Building Civil Site Work

| Item No. | Item Description | Quantity | Unit | Unit Price | Total Price |
|----------|---|----------|------|------------|-------------|
| 1 | Construction Safety Phasing Plan | 1 | L.S. | \$ | \$ |
| 2 | Demolition Plan | 1 | L.S. | \$ | \$ |
| 3 | Furnish and Install 36" High Powder Coated Railing | 52 | LF | \$ | \$ |
| 4 | SDDOT Base Course | 150 | CY | \$ | \$ |
| 5 | 6" Reinforced Concrete Apron, Includes Thickened Edges | 3010 | SF | \$ | \$ |
| 6 | Silicone Joint Sealant | 700 | LF | \$ | \$ |
| 7 | Asphalt Transition | 35 | Ton | \$ | \$ |
| 8 | Asphalt Saw Cutting | 75 | LF | \$ | \$ |
| 9 | Electrical Manhole Rim Elevation Adjustment | 1 | LS | \$ | \$ |
| 10 | Waterline Installation Phase I, All Pipe and Fittings, Furnished and Complete | 1 | LS | \$ | \$ |

| 11 | Waterline Installation Phase II, All Pipe and Fittings, Furnished and Complete | 1 | LS | \$ \$ |
|----|--|-----|----|----------|
| 12 | New Landscaping to Match Existing | 1 | LS | \$ \$ |
| 13 | Remove and Dispose of Existing 10' Fencing | 330 | LF | \$ \$ |
| 14 | 10' High Chain Link Security Fence | 230 | LF | \$ \$ |
| 15 | Connect to Existing 10' Chain Link Security Fencing/Building | 4 | EA | \$ \$ |
| 16 | Remove and Dispose of Asphalt Surfacing | 770 | SF | \$ \$ |
| 17 | Seeding and Fertilizing | 100 | SY | \$ \$ |
| 18 | Contractor Furnished Topsoil | 21 | CY | \$ \$ |
| 19 | Sediment Control at Inlet | 5 | EA | \$ \$ |
| 20 | Silt Fence | 490 | LF | \$ \$ |

| Subtotal Bid Schedule B items 1 – 20 inclusive | \$ |
|--|---------------|
| Written: | |
| | Dollars |
| All Items Furnished | and Installed |

Alternate Bid Schedule B1 -

| Item No. | Item Description | Quantity | Unit | Unit Price | Total Price |
|----------|--|----------|------|------------|-------------|
| 1 | Provide labor and materials for snowmelt system shown on sheet M4, Detail #3 on Sheet M7, and Detail #4 on Sheet M9 | 1 | L.S. | \$ | \$ |

| Subtotal Alternate Bid Schedule B1 | <u>\$</u> |
|------------------------------------|------------------|
| Written: | |
| | Dollars |
| All Items Furnish | ed and Installed |

| Total Bid Schedule A and Bid Schedule B \$ | |
|---|----------|
| Written: | |
| | Dollars |
| All Items Furnished and Installed | |
| Total Bid Schedule A, Bid Schedule B, and Alternate Bid Schedule B1 \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | |
| Written: | |
| | Dollars |
| All Items Furnished and Installed | <u> </u> |

** BIDDERS MUST BID ON ALL BID SCHEDULES**

** One contract will be awarded for to the lowest responsible bidder based on the combined total, alternate bid will be awarded based on funding availability. Bid quantities may be adjusted by the Sponsor to stay within project funds. Where a conflict between unit prices and total price exists unit prices will control.

The undersigned bidder understands and agrees that the bidder is to furnish all necessary labor, tools, materials and equipment required to fully complete the work covered by this contract.

The undersigned bidder hereby agrees to enter into the prescribed contract and to furnish and execute the required Surety Bond within fifteen (15) days from the date of acceptance of this proposal and further agrees to fully complete the entire work within the schedule of working days after due notification by the Engineer that the contract and bond have been accepted and approved by the <u>City of Aberdeen</u>, South Dakota.

The undersigned acknowledges that they have read and understand the Asbestos-Containing Materials Statement contained in the project manual.

| | Respectfully submitted: |
|---------------------------------------|-------------------------------------|
| | |
| | (Name of Firm) |
| | |
| | (Business Address) |
| | (Business Phone Number) |
| | |
| | (Signature of Responsible Official) |
| | |
| | (Title) |
| We acknowledge receipt of Addendum No | |



PHONE (605) 225-1212 FAX (605) 225-3189

Pre-Bid Conference Minutes

Terminal Building Remodel & Expansion Aberdeen Regional Airport Aberdeen, South Dakota AIP #3-46-0001-055-2025, Helms # A-9799 May 20, 2025 2:00 pm (Central)

I. Bidding

A. Delivery of Bids

Sealed: Office of the City Finance Officer of Aberdeen 123 S. Lincoln St. Aberdeen, SD 57401

B. Mailing of Bids

Sealed: Office of the City Finance Officer of Aberdeen 123 S. Lincoln St. Aberdeen, SD 57401

C. Opening of Bids

May 20th @ 2:00 P.M. (Central Time) Bids will be publicly opened and read aloud

- D. Bid Documents
 - 1. Proposal (Pages 845-857)
 - a. Acknowledgement of Addendum(s)
 - b. Site examination of existing conditions
 - c. Insert all Unit Prices and Total Prices as required (Unit Prices will control)
 - d. Buy American Certificate
 - e. Sign and Date the Proposal

- f. Bid Schedules
 - 1. Bidders must bid on Bid Schedule A and Bid Schedule B
 - a. Bid Schedule A Terminal Building Remodel and Expansion
 - b. Bid Schedule B Terminal Building Civil Site Work

g. Mobilization – SHALL BE LIMITED TO 10% OF TOTAL PROJECT COST

- 2. Attachment to Proposal (Pages 859-861) 2.5% DBE Goal, Sign and Date
 - a. DBE Manufacturers 100% Credit
 - b. DBE Suppliers 60% Credit
 - c. DBE Wholesalers only receive credit for mark-up
 - d. If the Contractor is not going to meet DBE Goal, he/she must show a "Good Faith Effort" (Documentation must be provided within 2 business days from the date that the apparent low bidder is contacted. This documentation must be approved prior to issuing of a Contract).
 - i. Please review SC-14. Special Provision for Disadvantaged Business Enterprise (Pages 26-33)
 - ii. Good Faith Effort (GFE) Requirements are listed on Pages 28-29 and must be met if you will not meet the DBE Goal. If you haven't started working on this, please start **now**.
- 3. Bid Security
 - a. 10% Bid Bond Payable to the City of Aberdeen
 - b. 5% Cashier's Check Payable to City of Aberdeen

MAKE SURE ALL OF THE ABOVE MENTIONED FORMS ARE COMPLETELY FILLED OUT, SIGNED, AND DATED, PRIOR TO SUBMITTAL OF YOUR BID

II. General Provisions

A. Bonding, Insurance, Utility Contacts, Etc.

III. Specific Project Requirements

- A. Non-Discrimination in Contractor's work force
 - 1. Goals

- a. Minority 1.0%
- b. Female 6.9%

B. Buy American Waiver

1. Helms and Associates will assist with submission of the Waiver for the total facility to the FAA, if needed.

C. Posters

- 1. Posted notices: Prior to commencement of construction activities, the Contractor must post the following documents in a prominent and accessible.
 - a. EEO Posters Available from SD-DOT (On Site)
 - b. Davis Bacon Wage Poster (WH 1321) DOL "Notice to All Employees" Poster; and Applicable Davis-Bacon Wage Rate Determination.

D. Payrolls

1. Need to be submitted weekly by the Prime Contractor and all Subcontractors performing work on-site.

E. Reports to be Filed

- 1. Annual EEO-1 Report Standard Form 100 must have been filed within past 12 months. Special Conditions page 24.
- 2. Construction Contractor Identification Data Award Notification shall be given within 10 working days of Contract Award, see Special Conditions Page 25.

IV. Permits

A. State/Local Permits must be obtained by the Contractor as required (i.e. Haul Road Permit).

V. Technical Specifications

- A. Items for all Base Items are found in Part VI of the Construction Specifications and Contract Documents or in the Plans.
- B. All questions shall be directed to Helms & Associates, HKG Architects, or WPE:

Helms & Associates: Brooke Edgar, P.E. (605) 225-1212 brookee@helmsengineering.com HKG Architects
Dean Marske
(605) 225-6820
Dean@hkgarchitects.com

West Plains Engineering Jonathan Kennedy, P.E. (605) 306-8048 Jonathan.Kennedy@WestPlainsEngineering.com

C. Helms & Associates will issue all Addendums.

VI. Miscellaneous

- A. Review of Bids and approval by the FAA will be prior to Award of the Contract. (Anticipate up to 60 days after the Bid Opening)
- B. A Pre-Construction Conference will be held prior to construction starting.
- C. Construction Observation
 - 1. Helms & Associates/HKG Architects/WPE
 - 2. SD-DOT / FAA Intermittent and Final
- D. Payments
 - 1. Monthly
 - 2. RETAINAGE 10% (General Provisions, Section 90)
 - 3. Stockpiled Materials
 - a. Cost documentation / Invoice
 - b. Certificate of Compliance or test results to show it meets the specification requirements
 - c. Proof of Insurance
 - d. Estimated Pay Estimate Cut-off Dates:
 - a. Airport Board meetings are the first Thursday after the first Tuesday
 - b. The pay estimate shall be completed the week prior
 - c. Cut-Off Dates will be the 3rd or 4th Saturday of the month dependent on the Airport Board meeting date.
- E. Project Completion Special Conditions (SC-6)

1. Construction Limitations – see Special Conditions Page 22.

Bid Schedule A and B (Option 1 – 2025 Construction):

The construction of the terminal renovation project shall be completed by November 26, 2025.

The work shall be completed in accordance with Paragraph 50-15 of the General Provisions by December 24, 2025.

Liquidated Damages set forth in section SC-1 of the Special Conditions may be assessed if this timeframe is not met.

Bid Schedule A and B (Option 2 – 2026 Construction):

The construction of the terminal renovation project shall not begin until **April 15**, **2026** and shall be completed by August 30, 2026.

The work shall be completed in accordance with Paragraph 50-15 of the General Provisions by September 30, 2026.

Liquidated Damages set forth in section SC-1 of the Special Conditions may be assessed if this timeframe is not met.

VII. Construction Methods / Discussion

- A. Utility work must be timed as to limit the interruptions to the Terminal Building as the building is used 7 days per week for commercial flights.
- B. Construction Meetings will be held throughout the project. All Contractors involved with work at the time of the meeting must attend. Frequency and time shall be coordinated at the Pre-Construction Conference.
- C. Bid quantities may be adjusted to stay within project funds.
- D. Contractor will be responsible for Aggregate Testing (Gradations). The Engineer will perform all density testing.
- E. FAA General Provisions / Technical Specification Changes (make sure your read the specs as they have been updated):
 - 1. Mobilization shall be limited to 10 percent of the total project cost (Section 105)

Current Airline Schedule for consideration in utility replacement:

Departure: 6:30-7:00 am Arrival/Departure: 12:00-3:00 pm

Arrival: 10:00-10:30 pm

ADDENDUM NO. 1 TO GENERAL, MECHANICAL AND ELECTRICAL ABERDEEN REGIONAL AIRPORT TERMINAL BUILDING REMODEL & EXPANSION ABERDEEN, SOUTH DAKOTA

Addendum Dated: May 16, 2025

Original Plans and Specifications Dated: April 29, 2025

NOTE: The Plans, details and accompanying specifications shall be amended as follows, but where any article is amended the original article shall remain in effect and shall become a part of the original plans and specifications.

A. GENERAL NOTES

- 1. Baggage Addition Room Schedule is as follows:
 - a) Wall Paint to be Enamel.
 - b) Bar Joists/ Ceiling will be Painted with Dry-Fall Paint.
 - c) Wall Base to be Vinyl Base
 - d) Floor is to be Concrete with Hardner
- 2. There is no Polished Concrete in the Project.
- 3. Contractor to include in base bid an Allowance of \$30,000 for the following Conveyor pieces below:
 - a) 11'-0" Flat Belt Motorized Driven Conveyor
 - b) 45° Curved Roller Conveyor
 - c) 5'-8" Inclined Motorized Driven Belt Conveyor

B. PLAN CHANGES AND CLARIFICATIONS:

1. Sheet A2:

- a) Remove Existing Railing and Concrete at Existing Conveyor in the new TSA Security Area Room 2. Add Demolition note 10; "REMOVE EXISTING RAIL AND CONCRETE CURB. PATCH FLOOR AS NECESSARY.".
- b) Delete Demolition Note 5. Existing Granite is to Remain.

2. Sheet A4:

- a) Delete Page A4 and Replace with Attached Page A4. Changes are as Noted:
 - I) W1 Wall Type was Deleted.
 - II) W4 Wall Type was Deleted.
 - II) Replace W4 Walls with W5 Wall Type Walls.
 - III) Vestibule Containing Doors 1D & EX has been reduced.
 - IV) Door 1D has been Moved and Flipped.
 - V) Door 2A has been Moved Further North.
 - VI) Door 2B has been Moved Further South.
 - VII) TSA Security Area Room 2, Equipment is now shown. All

Equipment is by Others and is not Installed by the Contractor.

VIII) Hold Room 3 has been Reduced.

- IX) Install 1/2" Hat Channels and 5/8" Sheetrock, Painted to Match over Existing Window. Leave Existing Window as is. Install Sheetrock Flush with Existing Wall.
- X) Include Add Alternate #2; Modify Existing Airport Conveyor.

3. <u>Sheet A6</u>:

- a) Delete Page A6 and Replace with Attached Page A6. Changes are as Noted:
 - I) Delete 10'-0" x 8'-0" Overhead Doors and Replace with 12'-0" x 8'-0" Overhead Doors.
 - II) Delete W4 Wall Type and Replace with W5 Wall Type

4. Sheet A7:

- a) Delete Page A7 and Replace with Attached Page A7. Changes are as Noted:
 - I) Delete 10'-0" x 8'-0" Overhead Doors and Replace with 12'-0" x 8'-0" Overhead Doors.
 - II) Delete W4 Wall Type and Replace with W5 Wall Type

5. Sheet A10:

a) Door Schedule: Door 2B, Delete Sill Height 1'-6" and Replace with Sill Height 2'-4".

C. SPECIFICATION CHANGES AND CLARIFICATIONS:

- 1. <u>Section 09 91 00 Painting</u>
 - a) 1.1 INTERIOR FINISH COATS
 - A. Interior Semigloss Acrylic Enamel: Factory-formulated semigloss acrylic-latex enamel for interior application.
 - 1. Benjamin Moore; Moorcraft Super Spec Latex Semi-Gloss Enamel No. 276: Applied at a dry film thickness of not less than 1.2 mils.
 - 2. Pittsburgh Paints; 6-500 Series SpeedHide Interior Semi-Gloss Latex: Applied at a dry film thickness of not less than 1.0 mil.
 - 3. Sherwin-Williams; ProMar 200 Interior Latex Semi-Gloss Enamel B31W200 Series: Applied at a dry film thickness of not less than 1.3 mils.

1.2 INTERIOR PAINT SCHEDULE

- A. Gypsum Board: Provide the following finish systems over interior gypsum board surfaces:
 - 1. Semigloss Acrylic-Enamel Finish: Two finish coats over a primer.
 - a. Primer: Interior gypsum board primer.
 - b. Finish Coats: Interior semigloss acrylic enamel.

- B. Ferrous Metal: Provide the following finish systems over ferrous metal:
 - 1. Semigloss Acrylic-Enamel Finish: Two finish coats over a primer.
 - a. Primer: Interior ferrous-metal primer.
 - b. Finish Coats: Interior semigloss acrylic enamel.
- C. Exposed Structural Steel (Gym): Provide the following finish systems to structural steel joists and deck.
 - 1. Flat Dry-Fall spray applied (double coverage) Include painting of joists, deck and paintable mechanical items.

D. <u>APPROVED EQUALS:</u>

- 1. Modified Conveyor:
 - a) Global Industrial
 - b) Thomas Conveyor & Equipment
 - c) Gilmore-Kramer Company

Roller Conveyor, Baggage Addition 1 shall be:

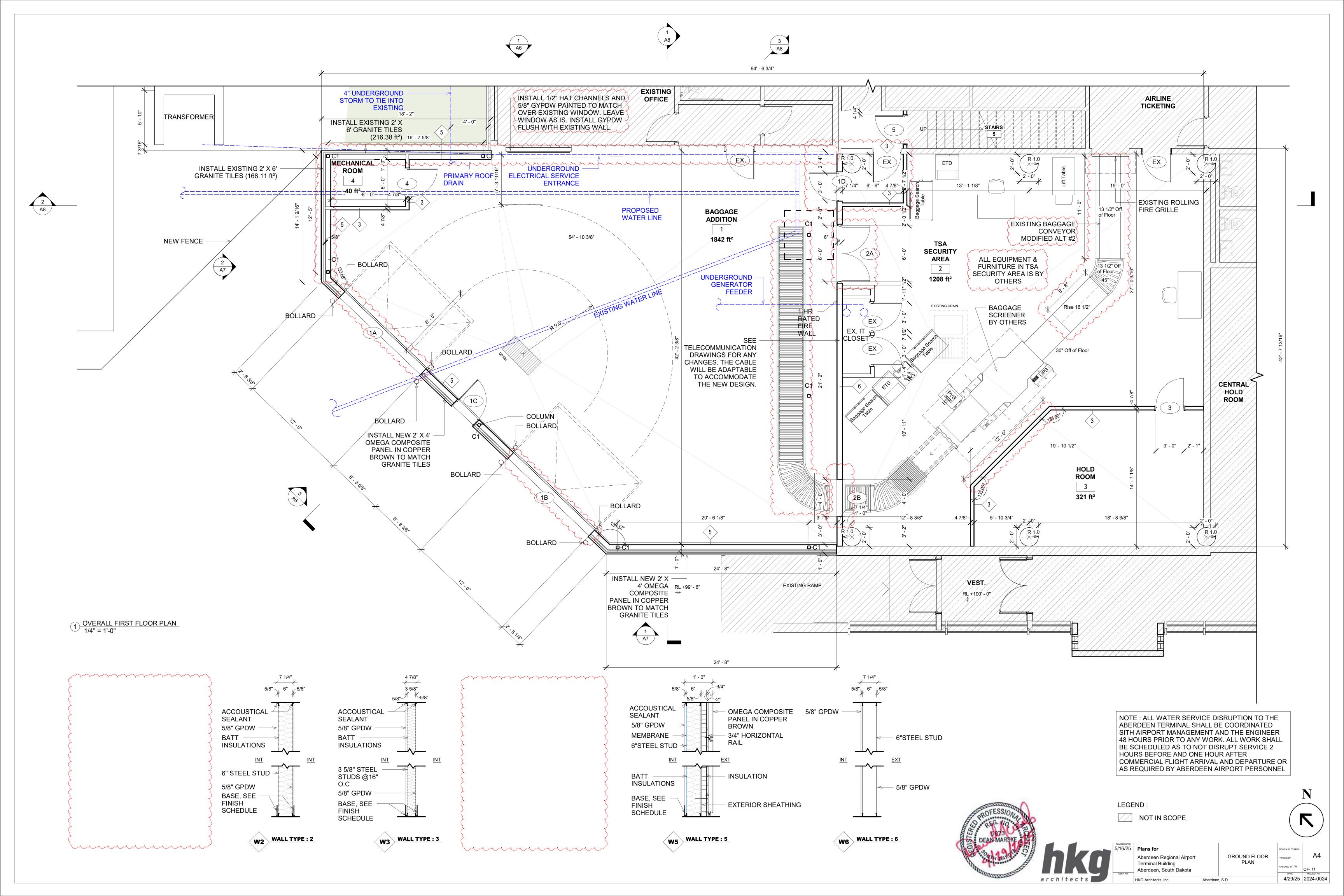
- 2 x B897201 Ashland 36"W Gravity Roller Conveyor, 10'L, 1.9" Roller Diameter, 41/2" Roller Centers
- 1 x B897219 Ashland 36"W Gravity Roller Conveyor, 5'L, 1.9" Roller Diameter,
 3" Roller Centers
- 8 x B730135 H-Stand Support 34511 for Ashland 36" BF Roller Conveyor
 19 ½" to 31" H
- 1 x B897235 Ashland 90° Curve Roller Conveyor 36" F 1.9" Roller Dia. 3"
 Axles 30" Inside Radius
- 1 x 293189 Global Industrial™ 24" Angle End Stop & Hardware for Roller Conveyors, 12 Gauge Steel
- 1 x B2184914 Ashland Guard Pair 30224 Galvanized Steel 90 Degree Curve 16"
 BF 36" Inside Radius

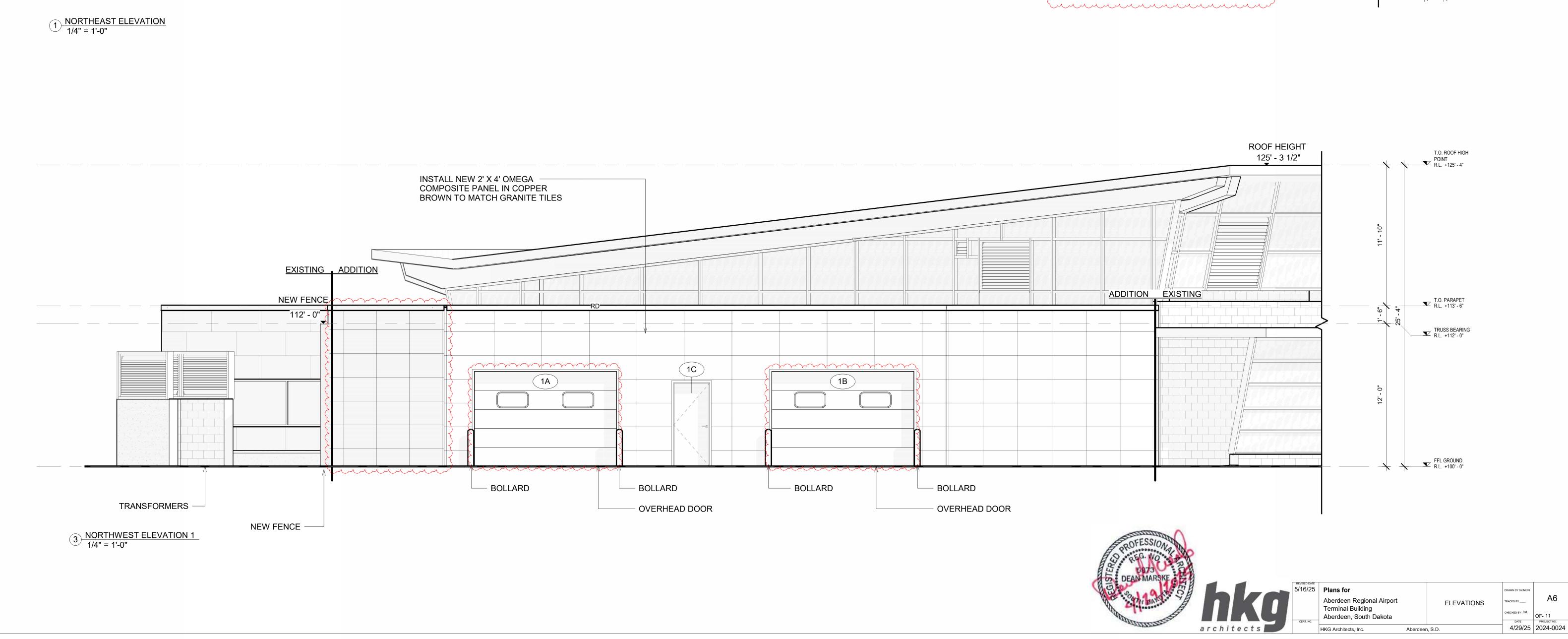
As supplied by Global Industrial

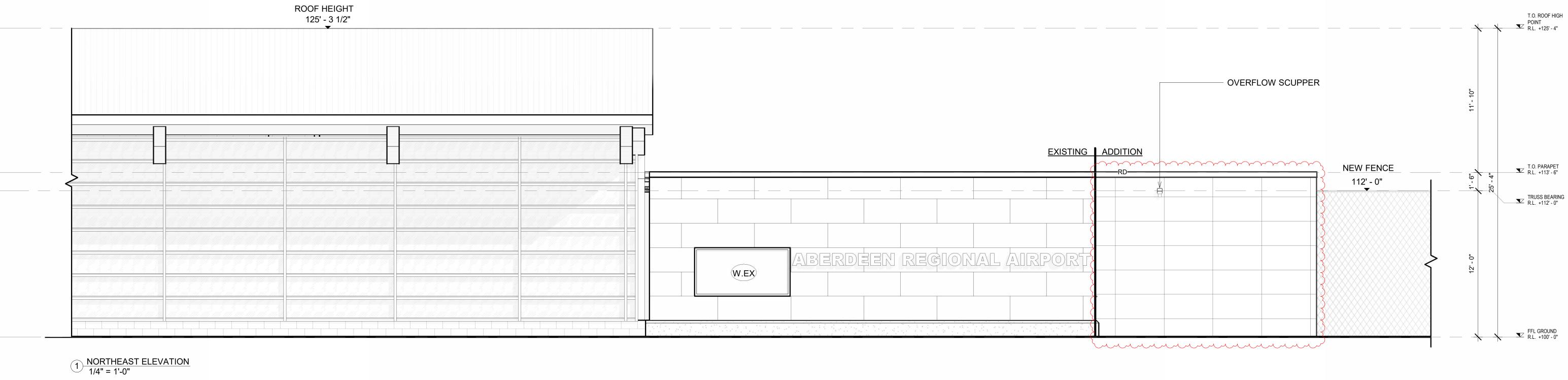
2505 Mill Center Parkway, Suite 100 Buford, GA 30518

Phone: 800-645-1232

Product Reference: #780060

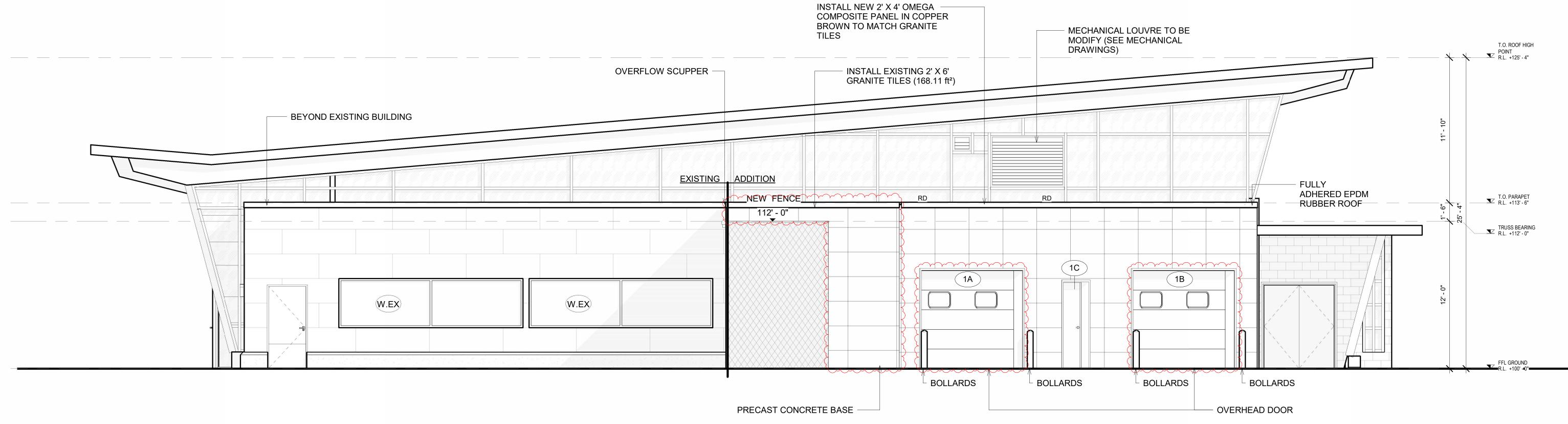


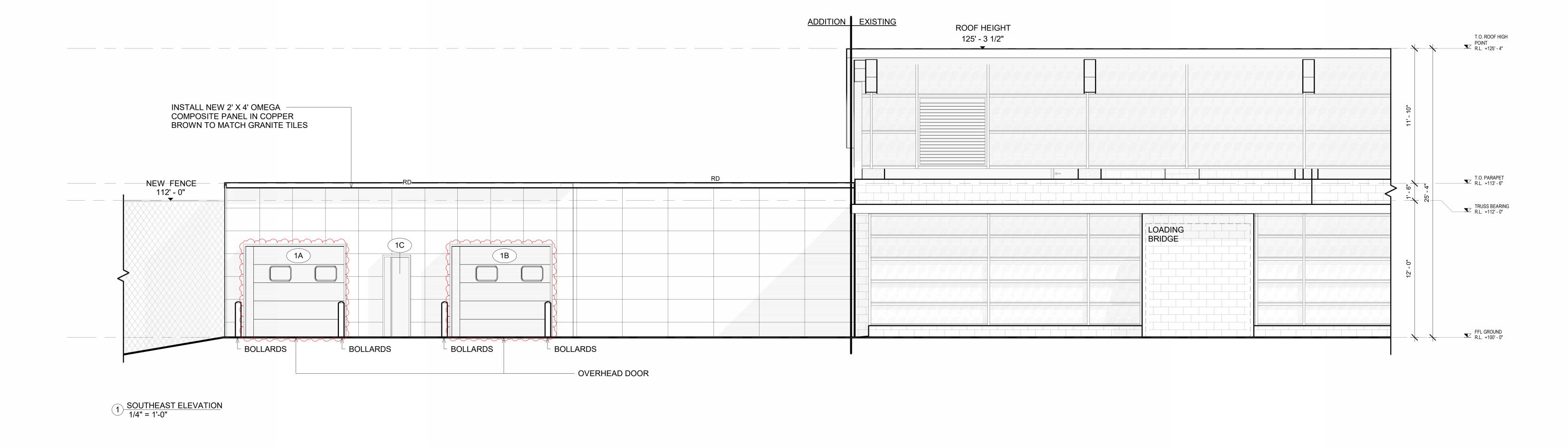






2 NORTHWEST ELEVATION 2 1/4" = 1'-0"









Date: May 16, 2025 Project: Aberdeen Regional Airport Baggage Addition

To: Dean Marske, AIA
HKG Architects
Project #: BS25017

From: Jon Kennedy, PE Stu Oster, PE

Project Location: Aberdeen, SD

Addendum Number: No. 1

To: All prime contract bidders and all others to whom Drawings and Specifications have been issued by the Engineer. Acknowledge receipt of the Addendum by inserting its number and date on the Bid Form. Failure to do so may subject bidder to disqualification. This Addendum forms a part of the Contract Documents. It modifies them as follows:

Product Approvals

The manufacturers and products, which are listed in the following texts, are approved for bidding. Final acceptance is contingent upon receipt and approval of final shop drawings. Manufacturer shall conform to all warranties, performances, size, etc., as the item specified. The burden of proof of the merit of the proposed substitution is upon the proposer. Those items not specifically listed by addendum shall not be approved for bidding.

| Section | Description | Manufacturer |
|----------|--------------------------------------|---------------|
| 23 21 14 | Expansion Tanks | Grundfos |
| 23 21 14 | Air Separators | Spirotherm |
| 23 21 14 | Automatic Flow Control Valves | HCI |
| 23 34 23 | HVAC Power Ventilators | Rupp |
| | | Aerovent |
| 23 37 00 | Louvers | Air Balance |
| | | Greenheck |
| 23 37 00 | Roof Hoods | ACME |
| | | Greenheck |
| 23 52 16 | Condensing Boilers | Alta |
| 23 81 01 | Terminal Heat Transfer Units | Modine |
| | | Sterling |
| | | Beacon Morris |
| | | IEC |
| 23 82 00 | Convection Heating and Cooling Units | QMark |
| 23 83 00 | Radiant Heating and Cooling Units | Mr. Pex |
| | Hydronic Pumps | Grundfos |
| | · · | |



Specifications

Section 23 09 93 – Sequence of Operations for HVAC Controls

1. Paragraph 3.3 for new snowmelt heating system to be provided under cope of Alternate Bid B1 only.

Section 23 21 14 – Hydronic Specialties

- 2. The following equipment shall be provided under scope of Alternate Bid B1 only:
 - a. Expansion Tanks
 - b. Air Separators

Section 23 25 00 - HVAC Water Treatment

- 1. The following equipment shall be provided under scope of Alternate Bid B1 only:
 - a. Chemical Pot Feeder
 - b. Cleaners, inhibitors, and glycol for new snowmelt heating system.

Section 23 52 16 - Condensing Boilers

1. Entire section to be included under scope of Alternate Bid B1 only.

Section 23 83 00 - Radiant Heating and Cooling Units

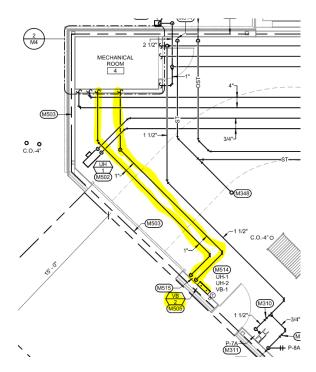
1. Remove Paragraph 1.1. Only the new snowmelt heating system will be provided under scope of Alternate Bid B1 only.



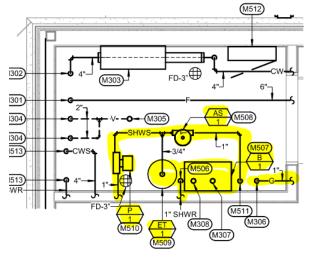
Drawings

Sheet M4 - Plumbing and HVAC Piping Plan - First Floor

1. Highlighted piping and valve manifold box indicated for new snowmelt system to be provided under scope of Alternate Bid B1 only:



Highlighted piping and equipment indicated for new snowmelt system to be provided under scope of Alternate Bid B1 only:



3 of 4



3. VB-1 and VB-2 do not match on floor plans versus the schedule on sheet M12. The schedule on sheet M12 will remain the same for numbering. On sheet M4, switch the VB numbers so that current VB-2 becomes VB-1 and current VB-1 becomes VB-2.

Sheet M7 - Mechanical Controls Details

1. Detail #4 for new snowmelt heating system to be provided under scope of Alternate Bid B1 only.

Sheet M9 – Mechanical Controls Details

1. Detail #4 for new snowmelt heating system to be provided under scope of Alternate Bid B1 only.

Sheet M10 - Mechanical Details

- 1. Detail #9 applies to scope of Alternate Bid B1 only.
- 2. Detail #12 applies to scope of Alternate Bid B1 only.

Sheet M11 – Mechanical Details

1. Detail #1 applies to scope of Alternate Bid B1 only for new snowmelt heating system.

Sheet M12 – Mechanical Schedules

- Provide the following equipment indicated in schedules for new snowmelt heating system to be provided under scope of Alternate Bid B1 only:
 - a. Pump (P-1).
 - b. Air Separator (AS-1).
 - c. Boiler (B-1).
 - d. Expansion Tank (ET-1).
 - e. Snowmelt Heating Valve Manifold Box (VB-1).

Sheet E1 - Electrical Demolition Plan

1. See attached drawing for revisions.

Sheet E2 – Power and Communications Floor Plan

- 1. Connection to Pump P-1 (circuit P1-9) and connection to Boiler B-1 (P1-5,7) along with the boiler shutdown switch shall be provided under scope of Alternate Bid B1 only.
- 2. Refer to the attached floor plan for receptacle location revisions.

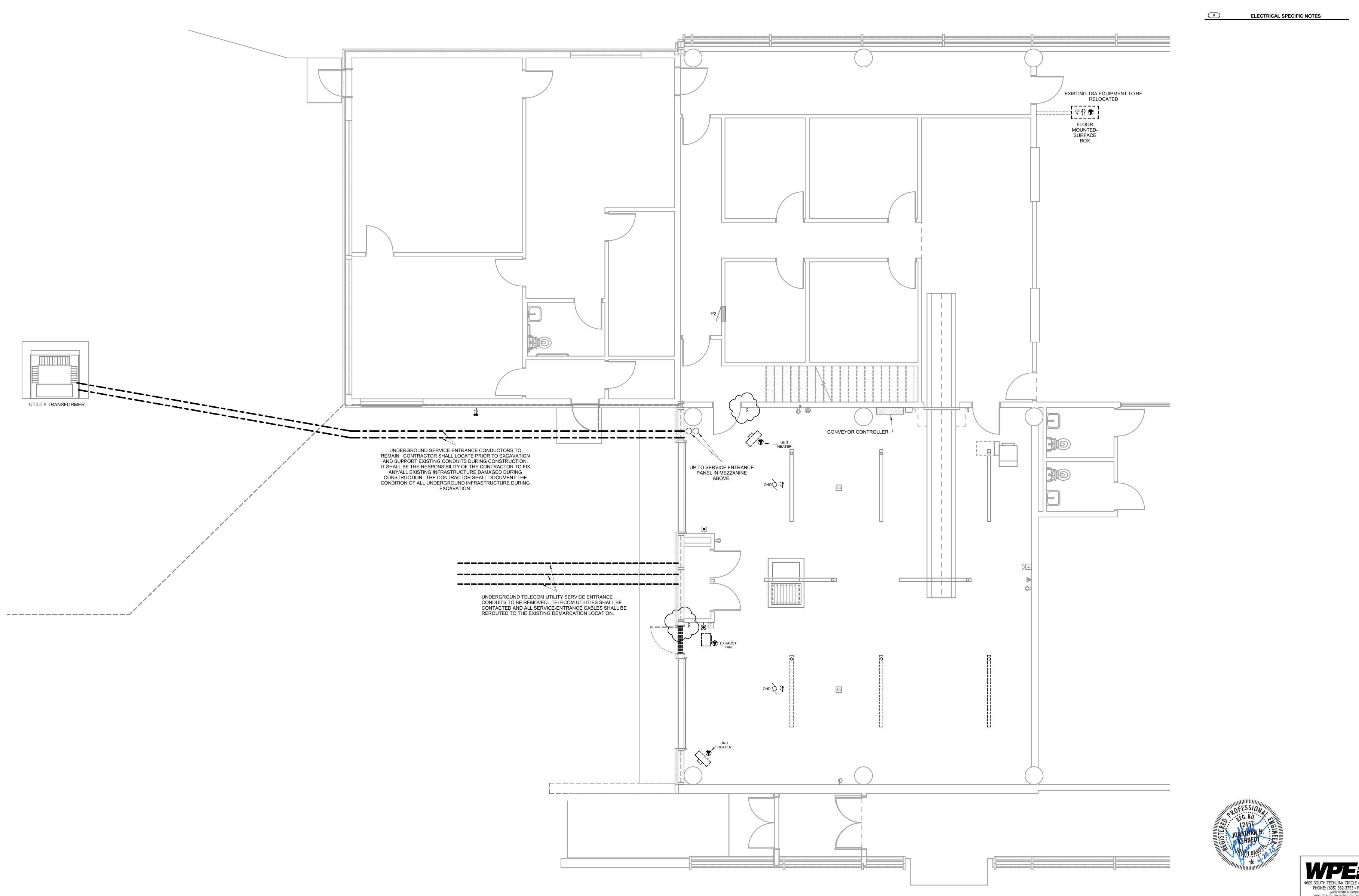
Sheet E3 - Lighting Floor Plan

- 1. Lighting control sequence of operations added. Reference attached drawing.
- 2. Light switching in TSA Security Area 2 changed. See attached drawing for revisions.

Sheet E4 – Electrical Schedules & Details

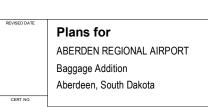
1. Lighting fixture schedule added. Reference attached drawing.

END OF DOCUMENT - JK/SO



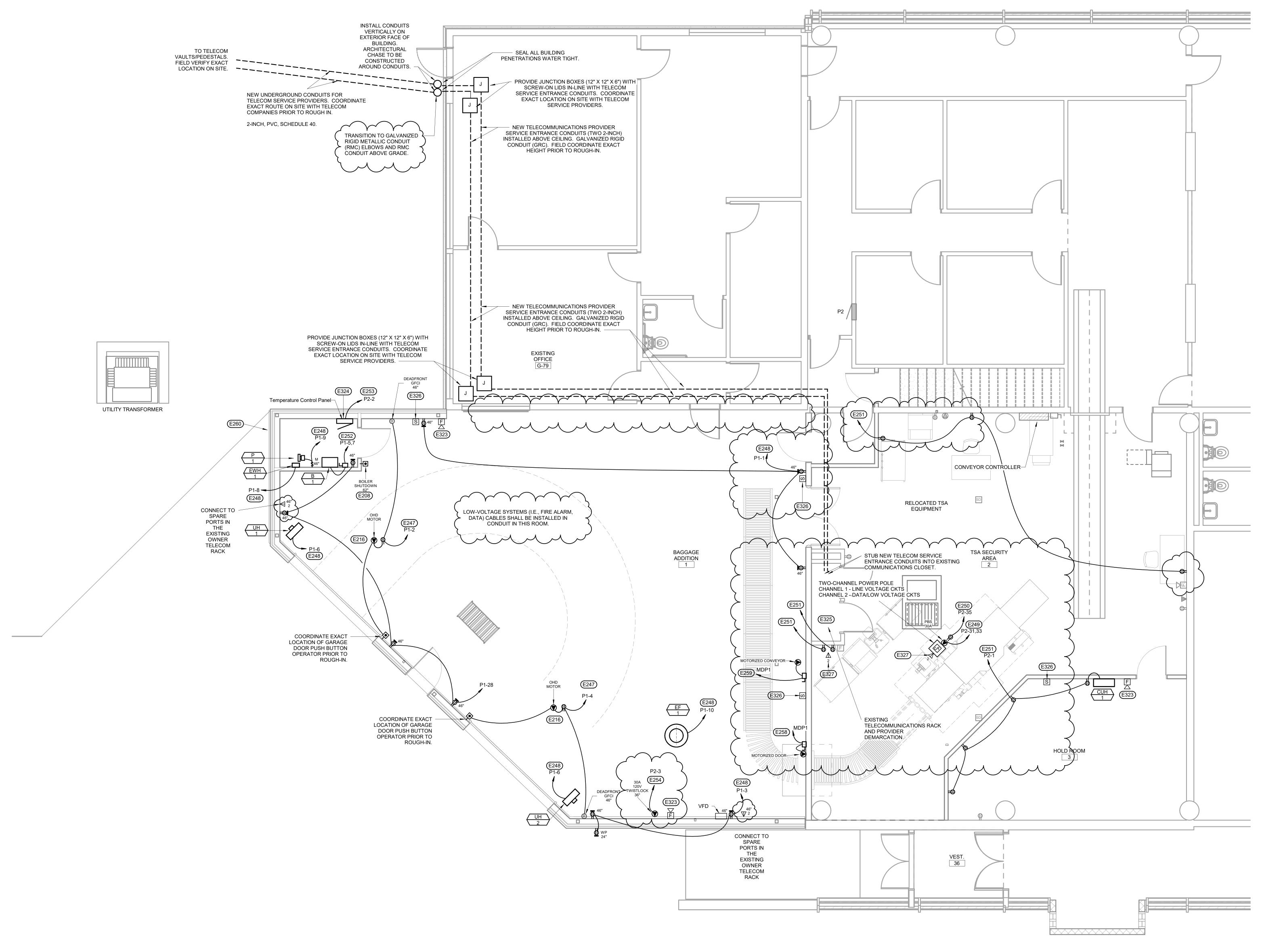
1/4" = 1'-0"

4609 SOUTH TECHLINK CIRCLE • SIOUX FALLS, SD 57106
PHONE: (605) 362-3753 • FAX: (605) 362-3759
www.westplainsengineering.com
RAPID CITY, SD • SIOUX FALLS, SD • CASPER, WY • CEDAR RAPIDS, IA



HKG Architects, Inc.

ELECTRICAL DEMOLITION PLAN 04/29/2025 BS25017



1 POWER AND COMMUNICATIONS PLAN - FIRST FLOOR

ELECTRICAL SPECIFIC NOTES

E208 PROVIDE AN EMERGENCY SHUTDOWN PUSHBUTTON SWITCH WITH (RED) MUSHROOM HEAD AND INTERLOCK WITH THE BOILER(S). PROVIDE WITH A CLEAR FLIP-UP COVER. SWITCH SHALL BE LABELED "EMERGENCY BOILER SHUT DOWN".

E216 AUTOMATIC OVERHEAD DOOR PUSHBUTTON STATIONS AND OPERATORS, EQUIPMENT PROVIDED AND INSTALLED BY GC, CONNECTED/POWERED BY EC, INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL SPECIFICATIONS/SHOP DRAWINGS. PROVIDE NECESSARY CONTROL WIRING FOR SAFETY FEATURES. COORDINATE EXACT LOCATIONS WITH OWNER AND OTHER TRADES TO MAKE ALL SERVICES FIT IN THIS AREA.

E247 CONNECT TO THE BRANCH CIRCUIT IN PANEL P1 PREVIOUSLY SERVING OVERHEAD MOTOR OPERATED DOORS REMOVED DURING DEMOLITION. PROVIDE #12 CU BRANCH CIRCUIT CONDUCTORS IN RACEWAY. WHERE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION IS REQUIRED BY CODE, THE GFCI DEVICE SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION IN ACCORDANCE WITH CODE AND THE LOCAL AUTHORITY HAVING JURISDICTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE A COMPLETE AND FULLY FUNCTIONING SYSTEM INSTALLED IN ACCORDANCE WITH CODE.

E248 CONNECT TO A NEW 20-AMP, 1-POLE CIRCUIT BREAKER IN EXISTING SQUARE D NQOD LIGHTING AND APPLIANCE PANEL P1. NEW BREAKER SHALL MATCH PROPERTIES OF THE EXISTING PANEL. INSTALL IN SPARE

SPACE AVAILABLE. PROVIDE NEW UPDATED TYPED PANEL DIRECTORY. E249 CONNECT TO THE 30-AMP. 2-POLE CIRCUIT BREAKER IN PANEL P2 PREVIOUSLY SERVING THE RELOCATED EQUIPMENT. PROVIDE #10

E250 CONNECT TO THE 20-AMP, 1-POLE CIRCUIT BREAKER IN PANEL P2 PREVIOUSLY SERVING THE RELOCATED EQUIPMENT. PROVIDE #12

BRANCH CIRCUIT CONDUCTORS IN RACEWAY.

BRANCH CIRCUIT CONDUCTORS IN RACEWAY. E251 CONNECT TO A NEW 20-AMP, 1-POLE CIRCUIT BREAKER IN EXISTING SQUARE D NQOD LIGHTING AND APPLIANCE PANEL P2. NEW BREAKER SHALL MATCH PROPERTIES OF THE EXISTING PANEL. INSTALL IN SPARE SPACE AVAILABLE. PROVIDE UPDATED TYPED PANEL DIRECTORY. PROVIDE #12 BRANCH CIRCUIT CONDUCTORS IN RACEWAY.

E252 CONNECT TO A NEW 15-AMP, 2-POLE CIRCUIT BREAKER IN EXISTING SQUARE D NQOD LIGHTING AND APPLIANCE PANEL P1. NEW BREAKER SHALL MATCH PROPERTIES OF THE EXISTING PANEL. INSTALL IN SPARE SPACE AVAILABLE. PROVIDE UPDATED TYPED PANEL DIRECTORY. PROVIDE #12 BRANCH CIRCUIT CONDUCTORS IN RACEWAY. E253 CONNECT TO A NEW 20-AMP, 1-POLE CIRCUIT BREAKER IN EXISTING

SQUARE D NQOD LIGHTING AND APPLIANCE PANEL P2. NEW BREAKER SHALL MATCH PROPERTIES OF THE EXISTING PANEL. INSTALL IN SPARE SPACE AVAILABLE. PROVIDE UPDATED TYPED PANEL DIRECTORY. PROVIDE #12 BRANCH CIRCUIT CONDUCTORS IN RACEWAY. E254 CONNECT TO A NEW 30-AMP, 1-POLE CIRCUIT BREAKER IN EXISTING

SQUARE D NQOD LIGHTING AND APPLIANCE PANEL P2. NEW BREAKER SHALL MATCH PROPERTIES OF THE EXISTING PANEL. INSTALL IN SPARE SPACE AVAILABLE. PROVIDE UPDATED TYPED PANEL DIRECTORY. PROVIDE #10 BRANCH CIRCUIT CONDUCTORS IN RACEWAY. COORDINATE EXACT PLUG TYPE WITH OWNER-PROVIDED EQUIPMENT.

E258 PROVIDE AN ELECTRICAL CONNECTION TO A NEW MOTORIZED CONVEYOR DOOR. CONNECT TO AN EXISTING 20-AMP, 3-POLE CIRCUIT BREAKER IN MDP-1. PROVIDE #12 BRANCH CIRCUIT CONDUCTORS IN RACEWAY. PROVIDE A 30-AMP, 3-POLE HEAVY-DUTY NON-FUSED DISCONNECT IN A NEMA 1 ENCLOSURE AND INSTALL ADJACENT TO THE EQUIPMENT. COORDINATE THE EXACT REQUIREMENTS WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

E259 PROVIDE AN ELECTRICAL CONNECT TO A NEW MOTORIZED CONVEYOR SYSTEM. CONNECT TO A NEW 20-AMP, 3-POLE CIRCUIT BREAKER IN EXISTING SQUARE D I-LINE MDP-1. NEW CIRCUIT BREAKER SHALL MATCH THE EXISTING PANEL PROPERTIES. PROVIDE ALL REQUIRED MOUNTING HARDWARE. REMOVE A SPARE 3-POLE CIRCUIT BREAKER TO ALLOW SPACE TO INSTALL THE NEW CIRCUIT BREAKER. PROVIDE #12 BRANCH CIRCUIT CONDUCTORS IN RACEWAY. PROVIDE A 30-AMP, 3-POLE HEAVY-DUTY NON-FUSED DISCONNECT IN A NEMA 1 ENCLOSURE AND INSTALL ADJACENT TO THE EQUIPMENT. COORDINATE THE EXACT REQUIREMENTS WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

E260 PROVIDE CONDUIT SLEEVES IN THE NEW BELOW-GRADE FOUNDATION WALL TO ACCOMMODATE THE EXISTING SERVING ENTRANCE CONDUITS. COORDINATE EXACT LOCATION WITH FOUNDATION WALL CONTRACTOR.

E323 CONNECT TO THE EXISTING EDWARDS EST-2 FIRE ALARM SYSTEM.. FIRE ALARM CONTROL PANEL LOCATED IN LEVEL 2 ELECTRICAL ROOM. E324 PROVIDE A CATEGORY 6 CABLE FROM THE EXISTING DATA/IT HEAD RACK TO THE NEW TEMPERATURE CONTROLS PANEL. INSTALL THE NEW CABLE IN A 3/4-INCH CONDUIT IN THE NEW BAGGAGE ADDITION. INSTALL THE CONDUIT WITHIN THE ROOF STRUCTURE/JOIST SPACE. TERMINATE BOTH CABLE ENDS. TEST THE CABLE AND PROVIDE A COPY OF THE TEST REPORT WITH THE O&M MANUALS. CONNECT TO A NEW PATCH PANEL

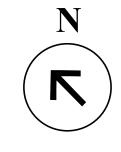
INSTALLED IN THE EXISTING TELECOM RACK.

E325 PROVIDE A NEW 24-PORT MODULAR PATCH PANEL, PANDUIT OR EQUAL. WITH REMOVABLE KEYSTONE STYLE JACK INSERTS. CONNECT NEW DATA CABLES TO THE NEW PATCH PANEL. COORDINATE INSTALLATION

WITHIN THE EXISTING RACK AND PORT LABELING WITH THE OWNER. E326 PROVIDE A CONE-STYLE PAGING SPEAKER INSTALLED IN A WALL-MOUNT TYPE ENCLOSURE. MOUNT AT 9-FOOT AFF. CONNECT TO THE EXISTING PAGING SYSTEM (THE HEAD-END CONTROLLER/AMPLIFIER IS INSTALLED IN THE SAME CLOSET AS THE DATA/IT RACK). PROVIDE NEW SPEAKER CONDUCTORS, INSTALLED IN A 1/2-INCH RACEWAY. PROVIDE A SHOP DRAWING SUBMITTAL OF NEW SPEAKERS, CONDUCTORS, AND A RISER SKETCH OF THE EXISTING SYSTEM HADICATING CONNECTION METHOD/LOCATION.

E327 CONNECT TO THE EXISTING TSA DATA RACK LOCATED AT THE EAST END OF THE BUILDING. APPROXIMATELY 200-FEET AWAY. COORDINATE EXACT ROUTING ON SITE WITH OWNER AND TSA PRIOR TO ROUGH-IN. COORDINATE TSA RACK CONNECTIONS WITH TSA.



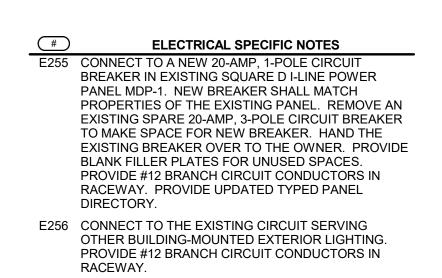


04/29/2025 BS25017

PHONE: (605) 362-3753 • FAX: (605) 362-3759 RAPID CITY, SD • SIOUX FALLS, SD • CASPER, WY • CEDAR RAPIDS, IA

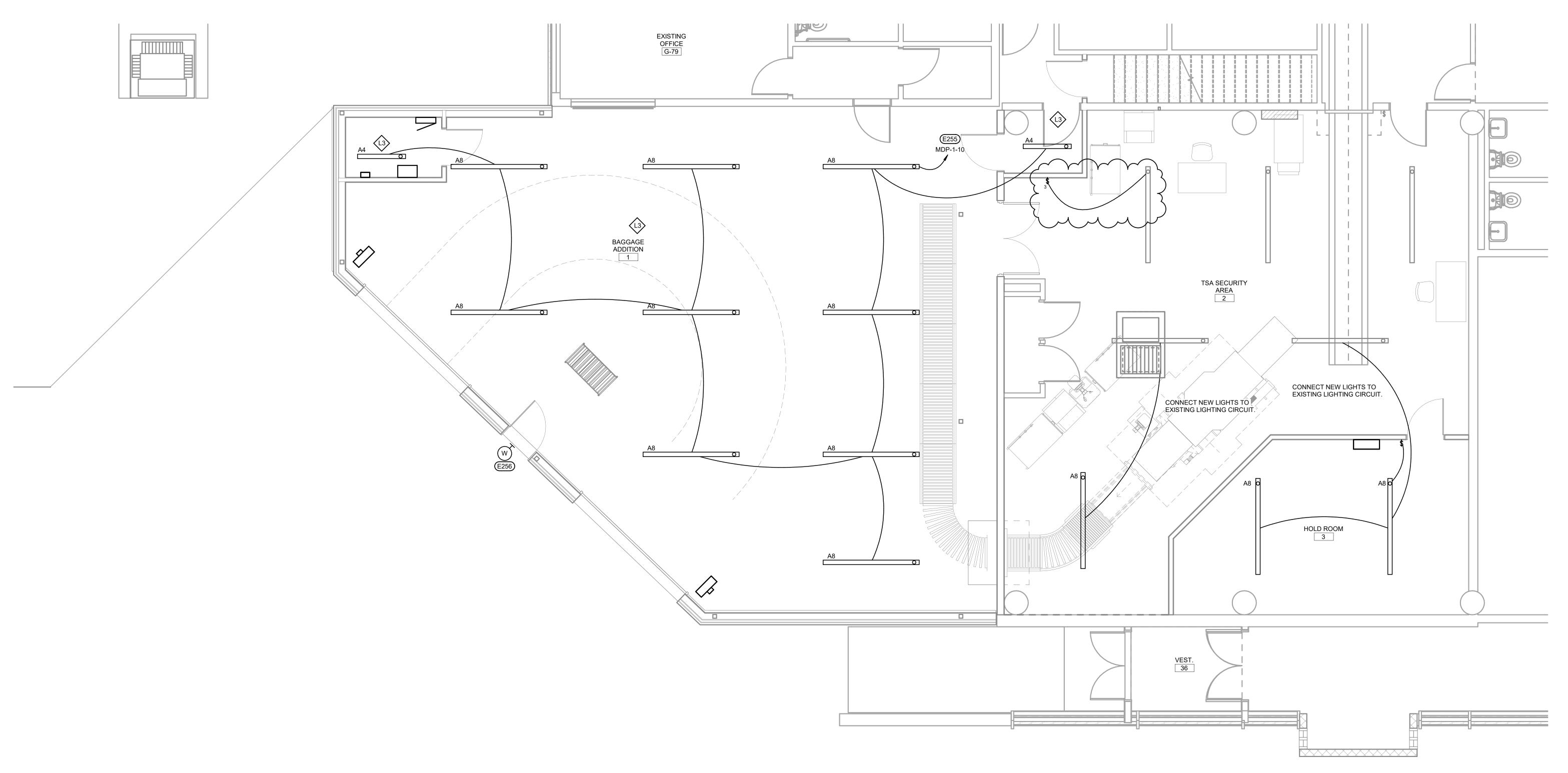
ABERDEN REGIONAL AIRPORT Baggage Addition Aberdeen, South Dakota

COMMUNICATIONS FLOOR



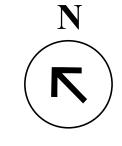
LIGHTING CONTROL SEQUENCE OF OPERATIONS

L3 SEQUENCE 3 - LIGHTING WITHIN A DEFINED ROOM OR SPACE SHALL BE CONTROLLABLE BY MEANS OF LOCAL OCCUPANCY SENSORS. WHEN OCCUPANCY IS DETECTED, LIGHTS SHALL OPERATE AT 100% OUTPUT. WHEN NO OCCUPANCY IS DETECTED (DEFAULT 20 MINUTES), THE LIGHTS IN THE SPACE SHALL BE TURNED OFF. OCCUPANCY SENSORS SHALL BE PROVIDED FOR 100% COMPLETE MINOR MOTION COVERAGE IN THE ROOM OR SPACE. OCCUPANCY SENSORS SHALL BE CEILING MOUNTED, AND WALL-MOUNTED WHERE NO CEILING IS PRESENT. THE CONTRACTOR SHALL CONFIRM THE PRESENCE OF A CEILING WITH THE DOCUMENTS. OCCUPANCY SENSOR SHALL TURN LIGHTS ON AND TURN LIGHTS OFF (I.E. AUTO-ON, AUTO-OFF).



1/4" = 1'-0"





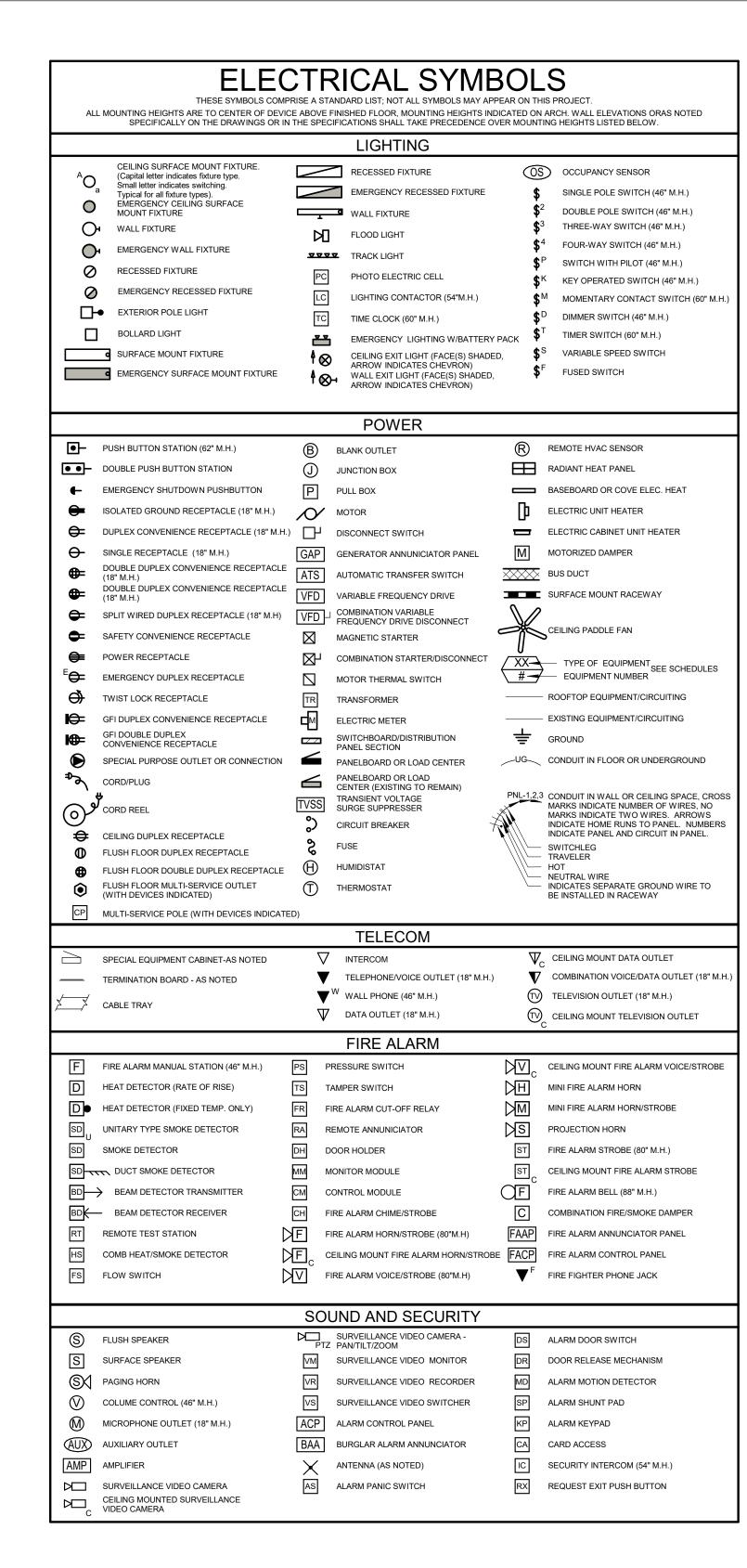
WEST
PLAINS
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| Plans for | |
|------------------------|------|
| ABERDEN REGIONAL AIRF | PORT |
| Baggage Addition | |
| Aberdeen, South Dakota | |
| | |
| HKG Architects, Inc. | Aber |



| | ELECTRICAL A | | |
|--------------------|---|-------------------------|--|
| | SEE SPECIFICATION SECTION "EQUIPMENT WIRIN | IG" FOR ADDITIONAL INFO | RMATION AND REQUIREMENTS. |
| A or AMP A/C | AMPERE AIR CONDITIONING | LA LT | LIGHTNING ARRESTOR LIGHT |
| A/E or AE | ARCHITECT & ENGINEER | LTG | LIGHTING |
| ac AC | ABOVE COUNTER ALTERNATING CURRENT | LTS | LIGHTS |
| ADA | AMERICANS WITH DISABILITIES ACT | MC | MECHANICAL CONTRACTOR |
| AFF | ABOVE FINISH FLOOR | MCB | MAIN CIRCUIT BREAKER |
| AFG AFI or AFCI | ABOVE FINISH GRADE ARC FAULT CIRCUIT INTERRUPTER | MCC MCM | MOTOR CONTROL CENTER THOUSAND CIRCULAR MILS |
| AHJ | AUTHORITY HAVING JURISDICTION | MDP | MAIN DISTRIBUTION PANEL |
| AHU | AIR HANDLING UNIT | MECH | MECHANICAL |
| AIC AL | AMPERES INTERRUPTING CURRENT ALUMINUM | MFS MH | MAIN FUSIBLE SWITCH METAL HALIDE |
| ANN | ANNUNCIATOR | MLO | MAIN LUG ONLY |
| AS | AUTOMATIC SENSORS | MSB MTD | MAIN SWITCHBOARD MOUNTED |
| AWG | AMERICAN WIRE GAUGE | MTS | MOTOR THERMAL SWITCH |
| bc | BELOW COUNTER | MV | MERCURY VAPOR |
| BC BH | BELOW COUNTER BASKETBALL HOOP OPER | MW | MICROWAVE |
| BL | BLEACHER ELECTRIC OPERATOR | NA or N/A | NOT APPLICABLE |
| BRD or BD | BOARD | NC NEC | NORMALLY CLOSED |
| BUH | BLAST UNIT HEATER | NEC NEMA | NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS |
| C or COND | CONDUIT | | ASSOCIATION |
| C/B or CB CAT | CIRCUIT BREAKER CATEGORY | NEU, NEUT or N NF | NEUTRAL NON-FUSED |
| CCT or CKT | CIRCUIT | NF NL | NIGHT LIGHT |
| CM | CARBON MONOXIDE SENSOR | NO | NORMALLY OPEN |
| CO COMB | CARBON MONOXIDE COMBINATION | OFF, OF, or OFC | OFFICE |
| CONF | CONFERENCE | OH OF | OVERHEAD |
| CP | CEILING PROJECTOR | OHD | OVERHEAD DOOR |
| CTC Cu or CU | CABLE TERMINATION CABINET COPPER | P | POLE |
| CU | CONDENSING UNIT | PA | PUBLIC ADDRESS |
| CUH | CABINET UNIT HEATER | PB PH | PUSH BUTTON PHASE |
| DC | DIRECT CURRENT | PH PLBG | PHASE PLUMBING |
| DC | DISTRIBUTION CABINET | PNL | PANEL |
| DP DISC | DISTRIBUTION PANEL DISCONNECT | PR or pr PRV | PAIR POWER ROOF VENTILATOR |
| DISP | DISPOSAL | PS | PULL SWITCH |
| DL | DOCK LEVELER | PS | PROJECTION SCREEN |
| DN or DWN DR | DOWN DOOR | PTZ PVC | PAN TILT ZOOM POLYVINYL CHLORIDE |
| DW | DISHWASHER | PWR | POWER |
| DWG | DRAWING | RCP | REFLECTED CEILING PLAN |
| EC | ELECTRICAL CONTRACTOR | REC or RECEPT | RECEPTACLE |
| EC | ELECTRICAL CABINET | REF or REFRIG | REFRIGERATOR |
| EF | EXHAUST FAN | RH RH | RADIANT HEAT RANGE HOOD |
| EH ELEC | ELECTRICAL HEAT ELECTRIC OR ELECTRICAL | RLY | RELAY |
| EHD | ELECTRIC HAND DRYER | RM | ROOM |
| EM or EMERG EMT | EMERGENCY ELECTRICAL METALLIC TUBING | RMS | ROOT MEAN SQUARE |
| ENT | ELECTRICAL METALLIC TOBING ELECTRICAL NON-METALLIC TUBING | scc | SHORT CIRCUIT CURRENT |
| EUH | ELECTRIC UNIT HEATER | SD | SMOKE DETECTOR |
| EWC EX | ELECTRIC WATER COOLER EXISTING | SFR SFTY | SAFETY RECEPTACLE SAFETY |
| EXP | EXPLOSION PROOF | SHLD | SHIELD OR SHIELDED |
| F FUC | FLICE OD FLICIDI F | SIG | SIGNAL |
| F or FUS FA | FUSE OR FUSIBLE FIRE ALARM | SMR SN | SURFACE MOUNT RACEWAY SOLID NEUTRAL |
| FAAP | FIRE ALARM ANNUNCIATOR PANEL | SP | SUMP PUMP |
| FACP FBO | FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS | SPECS SPKR | SPECIFICATIONS SPEAKER |
| FL, FLU or FLUOR | FLUORESCENT | SPKR SPR | SPEAKER SPLIT WIRE RECEPTACLE |
| FLA | FULL LOAD AMPERES | SW | SWITCH |
| FVNR FVR | FULL VOLTAGE, NON-REVERSING FULL VOLTAGE, REVERSING | SWBD | SWITCH BOARD |
| . *** | . SEE VOET OE, INEVERSING | TC | TEMPERATURE CONTROL |
| GC | GENERAL CONTRACTOR | TC | TELEPHONE CABINET |
| GD GEN | GARBAGE DISPOSAL GENERATOR | TCC TEL | TEMPERATURE CONTROL CONTRACTOR TELEPHONE |
| GFI or GFCI | GROUND FAULT CIRCUIT INTERRUPTER | TL | TWIST LOCK |
| GRC GND or GRND | GALVANIZED RIGID CONDUIT GROUND | TR, TRANS or TRFMR | TRANSFORMER TELEPHONE TERMINATION BOARD |
| OIND OI GKIND | CIVOUIND | TV | TELEPHONE TERMINATION BOARD TELEVISION |
| H & AC | HEATING & AIR CONDITIONING | TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION |
| H & V HA | HEATING & VENTILATING HANDICAP ACCESS DOOR | TYP | TYPICAL |
| HD | HAND DRYER | UG | UNDERGROUND |
| HID | HIGH INTENSITY DISCHARGE | UH | UNIT HEATER |
| HP HPS | HORSE POWER HIGH PRESSURE SODIUM | UV | UNIT VENTILATOR |
| HTG | HEATING | V | VOLT |
| HTR | HEATER | VFD | VARIABLE FREQUENCY DRIVE |
| HVAC HZ | HEATING, VENTILATION & AIR CONDITIONING HERTZ (CYCLES/SEC) | W | WATT |
| | , | W/ | WITH |
| IC ICP | INTERRUPTING CURRENT | W/O WP | WITHOUT |
| IGR IMC | ISOLATED GROUND RECEPTACLE INTERMEDIATE METAL CONDUIT | WP WTR or H20 | WEATHERPROOF WATER |
| INC | INCANDESCENT | WS | WINDOW SHADE |
| ISO | ISOLATED OR ISOLATION | XFMR | TRANSFORMER |
| J, JB or J-BOX | JUNCTION BOX | AL IVIIX | TOTAL OLIVIER |
| | | Υ | WYE CONNECTION |
| KCMIL KV | THOUSAND CIRCULAR MILS KILOVOLT | ф | PHASE |
| KVA | KILOVOLT - AMPERE | | |
| KVAR | KILOVOLT - AMPERE REACTIVE KILOWATT | Δ | DELTA |
| KW | B 11 L 100/ 43 L L | Ī | |

| _ | STARTER DISCONNECT SCHEDULE | | | | | | | | | | | | | |
|--------------|-----------------------------|-----|-----------------|------------|---------|--------|-----------------|-------------------------|------------------------------|----------------------------|--------------|---------------------------|-------------------------|-----------------------------------|
| UNIT TYPE | UNIT NUMBER | KW | MO ⁻ | TOR MCA | VOLTAGE | PHASES | STARTER TYPE | STARTER NEMA SIZE | STARTER ENCLOSURE TYPE | STARTER KEY FEATURES | CONTROL | DISCONNECT SWITCH SIZE | DISCONNECT FUSE SIZE | COMMENTS |
| В | 1 | | 0 hp | 4 A | 208 V | 1 | INTEGRAL | - | - | - | BY DIV 22/23 | 30A, 2P, NFD | NFD | LOCKABLE DISCONNECT |
| CUH | 1 | | 0.1 hp | 0 A | 120 V | 1 | INTEGRAL | - | - | - | BY DIV 22/23 | INTEGRAL TO UNIT | - | |
| EF | 1 | | 0.25 hp | | 120 V | 1 | MMS | 0 | NEMA 1 | - | BY DIV 22/23 | INTEGRAL TO STARTER | - | COMBINATION STARTER/DISCONNECT |
| EWH | 1 | 1.5 | 0 hp | 14 A | 120 V | 1 | INTEGRAL | - | - | - | BY DIV 22/23 | INTEGRAL TO UNIT | - | |
| Р | 1 | | 0.4 hp | | 120 V | 1 | MMS | 0 | NEMA 1 | - | BY DIV 22/23 | INTEGRAL TO STARTER | - | |
| UH | 1 | | 0.125 hp | | 120 V | 1 | INTEGRAL | - | - | - | BY DIV 22/23 | INTEGRAL TO UNIT | - | |
| UH | 2 | | 0.125 hp | | 120 V | 1 | INTEGRAL | - | - | - | BY DIV 22/23 | INTEGRAL TO UNIT | - | |

| LIGHTING FIXTURE SCHEDULE | | | | | | | | | | | |
|---------------------------|-----------------|----------------------------|---------------------|---------|---------------------------|------------|------------------|--------------------|-------------------------|----------|--|
| Ī | FIXTURE MARK | FIXTURE TYPE | FIXTURE DIFFUSER | VOLTAGE | LUMEN OUTPUT / WATTAGE | COLOR TEMP | MOUNTING TYPE | MOUNTING HEIGHT | MANUFACTURER | MODEL | COMMENTS |
| ſ | A4 | 4' STRIP | ACRYLIC | MVOLT | 5,000L / 33W | 4000K | SURFACE | CEILING | HE WILLIAMS OR EQUAL | 75R-L50 | 80CRI |
| Ī | A8 | 8' STRIP | ACRYLIC | MVOLT | 10,000L / 66W | 4000K | SURFACE | CEILING | HE WILLIAMS OR EQUAL | 75R-L100 | 80CRI |
| | W | EXTERIOR WALL SCONCE | SDGL | MVOLT | 6,000L / 49W | 4000K | WALL | 9' AFG | HE WILLIAMS OR EQUAL | VWPV | TYPE 4 FT (FORWARD THROW), FINISH SELECTE BY ARCHITECT |







Plans for
ABERDEN REGIONAL AIRPORT
Baggage Addition
Aberdeen, South Dakota

ELECTRICAL SCHEDULES & TRACED BY DETAILS

DATE PROJECT NO. 04/29/2025 BS25017