





Purchasing Division
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Addendum 3
23-4403
Construct Ranch Hangar at Duluth International Airport

This addendum serves to notify all bidders of the following changes to the solicitation documents:

1. Please see the attached changes.

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation.

Posted: **February 27, 2023**

Project: 2023 Ranch Hangar

Owner: Duluth Airport Authority

Issue Date: February 27th, 2023

Bid Date: March 2nd, 2023 [unaffected]

To: Prospective Bidders

From: Kraus-Anderson Construction Company

501 South 8th Street
Minneapolis, MN 55404

1.01 INTRODUCTION

- A. This Addendum is a Contract Document that modifies the original Bidding Documents dated February 8th, 2023 including Addendum No. 1 and Addendum No. 2. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bid to disqualification.
- B. Use descriptions of changes to Specifications and Drawings in this Document only as a guide only. When Specification Sections or Drawings are issued or reissued with this Addendum the changes made in Specification or on Drawings take precedence over narrative description. When the Specification Section or Drawing is not reissued, the narrative description in this Addendum will communicate the revisions. Each Bidder shall make an independent determination of the work affected by Addendum items.
- C. This Addendum consists of 1 page, plus attachments listed below. Specification Sections and Drawings are not attached unless specifically indicated as (Attached).
- D. **Specification Revisions:** When Specification Sections are reissued, they will be replaced in their entirety. Revisions will be identified by a "Revision Note" that identifies which paragraph was revised, deleted or added. Revised text will be highlighted by overstriking deleted text and underlining new text.
- E. **Drawing Revisions:** Drawings replaced in their entirety with revisions identified by clouding changes and adding a "Revision Delta" near the cloud. The Revision ledger will indicate the date of the revision.

1.02 CHANGES TO DOCUMENTS

Modifications to KA Special Requirements

- 1. **01 1200 List of Work Scopes:** Document is revised to incorporate changed by this Addendum. (Attached).
- 2. **01 1220-06-A – Carpentry:** Document is revised to incorporate changes made by this Addendum. (Attached).
- 3. **01 1220-08-D – Specialty Doors:** Document is revised to incorporate changes made by this Addendum. (Attached).
- 4. **01 1220-10-B – Signage Package:** New document is added to incorporate changes made by this Addendum. (Attached).

Modifications to Specifications

- 5. **00 01 00 Table of Contents:** Document is revised to reflect the addition of specification section 10 14 19 Dimensional Letter Signage. Replace in its entirety. (Attached).
- 6. **10 14 19 Dimensional Letter Signage:** New document is added to bidding documents to incorporate changes made by this Addendum. Insert new document. (Attached).
- 7. **13 34 00 Fabricated Engineered Structures:** Document is revised as follows:
 - a. Section 2.03 B. 2. Interior Liner Panels: "Minimum 29 gauge" replaced with "Minimum 28 gauge."
 - b. Section 3.03 B. 4. "End laps nominal 2 inches." Replaced with "End laps nominal 2 inches with a minimum 16 gauge backup plate."

Modifications to Project Drawings

- 8. Sheet A2.00 Floor Plan, Roof Plan, Door Information: Plan sheet is revised to reflect elimination of roof snow guards except for the roof location over the proposed pedestrian door on the east side of the building. Replace in its entirety. (Attached).
- 9. Sheet A3.00 General Exterior Elevations: Plan sheet is revised to reflect elimination of roof snow guards except for the roof location over the proposed pedestrian door on the east side of the building. Replace in its entirety. (Attached).

-- End of Addendum --

PART 1 - GENERAL

1.01 SUMMARY

- A. **Section Includes:**
1. Summary of Work Scopes being bid in this Package.
 2. Summary of Work Scopes/Contracts previously awarded.
 3. Outline of potential future Bid Packages and Work Scopes.

1.02 WORK SCOPE BEING BID IN THIS PACKAGE

- A. Kraus-Anderson Construction Company is soliciting competitive “**Lump Sum Bids**” for the portions of work as defined herein.
1. Work Scope categories have been constructed to follow CSI MasterFormat specification sections, however individual Work Scope Categories may contain work described in more than one specification section.
 2. Local custom and trade union jurisdictional settlements do not control the scope of work included in Work Scope Categories.
 - a. When a potential jurisdictional dispute or similar interruption of construction activities is identified, effected contractors shall promptly negotiate a reasonable settlement to avoid or minimize interruption and delays.
 3. Unless otherwise indicated, Work Scope Categories include a complete section of Work, including but not limited to labor, materials, equipment, scaffolding, hoisting, applicable permits and taxes as required by the Contract Documents.
- B. By submitting a Bid, bidder acknowledges they have review all Contract Documents, including previously issued documents and have anticipated, based on information provided impact of future Work as it affects their Work Scope.
- C. **Division 1 – General Requirements**
1. Work Scope 01-A: Construction Testing and Inspection Services
 2. Work Scope 01-G: Construction Field Engineering
- D. **Division 2 – Existing Conditions**
- E. **Division 3 - Concrete**
1. Work Scope 03-A: Concrete
- F. **Division 4 - Masonry**
- G. **Division 5 - Metals**
- H. **Division 6 – Wood, Plastics, and Composites**
1. Work Scope 06-A: Carpentry

Division 7 – Thermal and Moisture Protection

- I. **Division 8 - Openings**
1. Work Scope 08-A: Doors, Frames, and Hardware – Material Only
 2. Work Scope 08-D: Specialty Doors
- J. **Division 10 - Specialties**
1. Work Scope 10-A: General Specialties – Material Only
 2. **Work Scope 10-B: Signage Package**
- K. **Division 12 - Furnishings**
- L. **Division 13 – Special Construction**
1. Work Scope 13-G: Pre-Engineered Metal Building – Material Only
 2. Work Scope 13-H: Pre-Engineered Metal Building – Erection Only
- M. **Division 14 – Conveying Systems**
- N. **Division 21 – 25 – Mechanical Package**
1. Work Scope 23-B: Combined Mechanical
- O. **Division 26 – 28 – Electrical Package**
1. Work Scope 26-A: Electrical
- P. **Division 31 – Earthwork Package**
1. Work Scope 31-A: Site Clearing and Earthwork
- Q. **Division 32 – Exterior Improvements**
- R. **Division 33 - Utilities**

Section 01 1200 – List of Work Scopes

PART 2 - PRODUCTS

1. NOT USED

PART 3 - EXECUTION

2. NOT USED

-- End --



1.01 CARPENTRY PACKAGE

- A. **Scope of Work:** This Work Scope consists of the Work directly and indirectly required by the specification sections listed below, plus project drawings, addenda, and other documents identified as part of the Agreement, regardless of design discipline, drawing sheet identification, or jurisdictional requirements.
 - 1. Specific Specifications Sections that are the responsibility of the Work Scope:

00 0000	Agreement and Conditions for the Contract for Construction	As it applies
01 0000	Division 1 - General Requirements	As it applies
 - 2. **Items “furnished” in other Work Scopes to be installed by this Work Scope**

08 1113	Hollow Metal Doors and Frames	Installation Only
08 7100	Door Hardware	Installation Only
10 4400	Safety Specialties	Installation Only

1.02 PROJECT SPECIFIC SCOPE CLARIFICATIONS

- A. **General Requirements for All Work Scope Categories:** Refer to Section 01 1210 for additional requirements affecting this Work Scope.
- B. **Schedule Requirements:** Provide sufficient staffing, equipment, and work the necessary hours to work within the durations identified for this Work Scope to comply with the Project Schedule. Your Base Bid proposal shall include all necessary regular and overtime hours to comply with the Project Schedule.
 - 1. The Project Schedule outlines the intended project sequence only and may not include all necessary tasks.
- C. **Complete Assembly:** This Work Scope recognizes the Contract Documents do not reflect every detail necessary to provide a complete working assembly/system, and therefore has included additional labor and materials to provide a complete assembly per the intent of the Contract Documents.
 - 1. Provide fasteners, sealant, trim, flashings, and miscellaneous components for a complete installation.
 - 2. Provide coatings and isolation barriers to provide separation for dissimilar materials.
- D. **Installation of materials and components specified under other Work Scopes:** Provide labor and miscellaneous mounting hardware/fasteners required for a complete installation for Work Scopes indicated under Article 1.01 A.2 above, including but not limited to the following:
 - 1. Responsible to receive, unload, store, and maintain material to be installed under this Work Scope.
 - 2. Installation of door hardware specified under Work Scope 8-A
 - a. Any door hardware integral to the bi-fold door assemblies and specified in Section 08 3417 will be supplied and installed by Work Scope 8D.
 - 3. Include installation of one (1) Knox box rapid entry system and any associated trim work.
 - 4. Install hollow metal frames and hollow metal doors Include grouting or insulating frames where indicated.
 - a. Include unloading, inventory, and controlled secured storage (inventory control).
 - b. Include necessary time to adjust doors and hardware within the 1-year corrective period.
 - c. **Include labor and material to paint the shop-primed hollow metal frames and doors with two coats of exterior-grade paint.**
 - 5. Installation of safety specialties specified under Work Scope 10-A.
- E. **Joint Sealants:** Expansion joints and sealants occurring within and around assemblies installed by this work scope are the responsibility of this Work Scope. Provide complete systems in accordance with the project specifications.

1.03 SPECIAL COORDINATION OR INSTALLATION REQUIREMENTS

- A. **Field Engineering:** Owner will provide benchmarks and control line in accordance with requirements specified in Section 01 1210 - General Requirements for All Work Scopes.
 - 1. This Work Scope is responsible for all remaining layout.
- B. **Acceptance of Substrates and Existing Conditions:** Starting work constitutes acceptances of existing conditions, preparatory work, and substrates that may affect the performance of this Work Scope.
- C. **Construction Cleaning:** Perform daily construction cleaning operations for debris generated by this Work Scope.
 - 1. Refer to Section 01 5000 for additional requirements.



Work Scope 6-A – Carpentry

1.04 ALLOWANCES, UNIT PRICES, COST BREAKDOWNS, AND ALTERNATES

A. **Alternates:** Refer to *Section 01 2300* for complete listing and description of Alternates.

1.05 SUBMITTAL REQUIREMENTS

A. **Required Submittals:** Refer to Section 01 1210 for additional requirements.

1.06 MATERIAL HANDLING AND STORAGE

A. **Delivery, Hoisting, and Scaffolding:** Refer to Section 01 1210 for additional requirements.

B. **Receiving of Materials:** For materials/products installed by this Work Scope, but furnished by others, this Work Scope is responsible to receive, inspect, unload, sort, and distribute materials to individual work areas.

1. Coordinate with other affected Work Scopes regarding packaging, timing, method of delivery, and any special requirements for receiving materials.

-- End --

1.01 SPECIALTY DOORS

- A. **Scope of Work:** This Work Scope consists of the Work directly and indirectly required by the specification sections listed below, plus project drawings, addenda, and other documents identified as part of the Agreement, regardless of design discipline, drawing sheet identification, or jurisdictional requirements.
 - 1. Specific Specifications Sections that are the responsibility of the Work Scope:

00 0000	Agreement and the Conditions of the Contract for Construction	As it applies
01 0000	Division 1 - General Requirements	As it applies
08 3417	Hangar Door System (Bi-Fold)	Complete

1.02 PROJECT SPECIFIC SCOPE CLARIFICATIONS

- A. **General Requirements for All Work Scope Categories:** Refer to Section 01 1210 for additional requirements affecting this Work Scope.
- B. **Schedule Requirements:** Provide sufficient staffing, equipment, and work the necessary hours to work within the durations identified for this Work Scope to comply with the Project Schedule. Your Base Bid proposal shall include all necessary regular and overtime hours to comply with the Project Schedule.
 - 1. The Project Schedule outlines the intended project sequence only and may not include all necessary tasks.
- C. **Complete Assembly:** Provide fasteners, sealant, trim, and miscellaneous components for a complete installation.
 - 1. This Work Scope recognizes the Contract Documents do not reflect every detail necessary to provide a complete working assembly/system, and therefore has included additional labor and materials to provide a complete assembly per the intent of the Contract Documents.
- D. **Hangar Door System (Bi-Fold):** Provide complete assemblies in accordance with Section 08 3417, including, but not limited to:
 - 1. Coordination and review of opening dimensions, assemblies and structural deflection.
 - 2. Overhead and sill tracks. Jamb assemblies.
 - 3. Panel frames and glazing
 - 4. All required hardware specified in Section 08 3417 is the responsibility of this work scope to supply and install.
 - 5. In-wall blocking or embeds required to secure door frame assembly.
 - 6. Final adjusting to ensure smooth operation.
 - 7. Labor and material required to paint any exposed components that are not factory finished is the responsibility of this work scope. Include two coats of exterior-grade paint for shop-primed items.
- E. **Complete and Functional Assembly:** Provide miscellaneous accessories, fasteners, and trim for a complete system, including but not limited to:
 - 1. Items not shown but necessary to provide a properly functioning system shall be included in this Work Scope.
 - 2. Coordinate power requirements with Work Scope 26-A.
 - 3. All pathways and conductors necessary to power and connect the bi-fold door operator, control station, limit switches, safety devices are by WS 26-A Electrical.
 - 4. Miscellaneous metal framing members required to provide overhead support, vertical jambs and side track, unless specifically indicated to be provided by another Work Scope.

1.03 SPECIAL COORDINATION OR INSTALLATION REQUIREMENTS

- A. **Field Engineering:** Kraus-Anderson will provide benchmarks and control line in accordance with requirements specified in Section 01 1210 - General Requirements for All Work Scopes.
 - 1. This Work Scope is responsible for all remaining layout.
- B. **Acceptance of Substrates and Existing Conditions:** Starting work constitutes acceptances of existing conditions, preparatory work, and substrates that may affect the performance of this Work Scope.
- C. **Construction Cleaning:** Perform daily construction cleaning operations for debris generated by this Work Scope.
 - 1. Refer to Subcontract Agreement and Section 01 5000 for additional requirements.

1.04 ALLOWANCES, UNIT PRICES, COST BREAKDOWNS, AND ALTERNATES

- A. **Alternates:** Refer to Section 01 2300 for complete listing and description of Alternates.

1.05 SUBMITTAL REQUIREMENTS

- A. Required Submittals: Coordinate, prepare, and submit a complete, coordinated submittal package indicating how they will conform to the requirements expressed in the Contract Documents, in compliance with the Project Schedule and requirements of the Agreement.
 - 1. Comply with requirements outlined in Part 1 of each specification section, plus requirement of Division 1 Submittals.
- B. Submittals Requiring Delegated Design: Structural Calculations shall be submitted at the same time as the shop drawings for this Work. It is not acceptable to defer Delegated Design engineering “structural analysis and calculations” until initial shop drawings are reviewed by A/E.

1.06 MATERIAL HANDLING AND STORAGE

- A. **Delivery and Receiving of Materials:** Refer to Section 01 1210 for additional requirements.
- B. **Hoisting:** Refer to Section 01 1210 and the Agreement for additional requirements regarding hoisting.
- C. **Scaffolding:** Work Scope is responsibility for your own working platforms, scaffolding, and equipment necessary to access Work. Refer to the Agreement for additional requirements regarding scaffolding.
 - 1. Coordinate scope and timing of scaffold with Kraus-Anderson Construction Company.

-- End --

Work Scope 10-B – Signage Package

1.01 SIGNAGE PACKAGE

- A. **Scope of Work:** This Work Scope consists of the Work directly and indirectly required by the specification sections listed below, plus project drawings, addenda, and other documents identified as part of the Agreement, regardless of design discipline, drawing sheet identification, or jurisdictional requirements.
- Specific Specifications Sections that are the responsibility of the Work Scope:

00 0000	Agreement and the Conditions of the Contract for Construction	As it applies
01 0000	Division 1 - General Requirements	As it applies
10 1419	Dimensional Letter Signage	Complete

1.02 PROJECT SPECIFIC SCOPE CLARIFICATIONS

- A. **General Requirements for All Work Scope Categories:** Refer to Section 01 1210 for additional requirements affecting this Work Scope.
- B. **Schedule Requirements:** Provide sufficient staffing, equipment, and work the necessary hours to work within the durations identified for this Work Scope to comply with the Project Schedule. Your Base Bid proposal shall include all necessary regular and overtime hours to comply with the Project Schedule.
- The Project Schedule outlines the intended project sequence only and may not include all necessary tasks.
- C. **Signage:** Provide signage in accordance with Section 10 1419, including, but not limited to:
- Building Identification Signs
 - Exterior building signage
 - Provide materials for proper installation of signage.
- D. **Complete Assembly:** This Work Scope recognizes the Contract Documents do not reflect every detail necessary to provide a complete working assembly/system, and therefore has included additional labor and materials to provide a complete assembly per the intent of the Contract Documents.
- Provide fasteners and miscellaneous components for a complete installation.

1.03 ALLOWANCES, UNIT PRICES, COST BREAKDOWNS, AND ALTERNATES

- A. **Alternates:** Refer to Section 01 2300 for complete listing and description of Alternates.

1.04 SUBMITTAL REQUIREMENTS

- A. **Required Submittals:** Coordinate, prepare, and submit a complete, coordinated submittal package indicating how they will conform to the requirements expressed in the Contract Documents, in compliance with the Project Schedule and requirements of the Agreement.
- Comply with requirements outlined in Part 1 of each specification section, plus requirement of Division 1 Submittals.

1.05 MATERIAL HANDLING AND STORAGE

- A. **Delivery and Receiving of Materials:** Refer to Section 01 1210 for additional requirements.
- B. **Scaffolding:** Work Scope is responsibility for your own working platforms, scaffolding, and equipment necessary to access Work. Refer to Section 01 1210 for additional requirements regarding scaffolding.
- Coordinate scope and timing of scaffold with Kraus-Anderson Construction Company.

-- End --

DOCUMENT 00 01 10**TABLE OF CONTENTS**

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00 2100	KA Instructions to Bidders
00 31 32	Geotechnical Data
00 4100	Bid Form
00 45 49	Buy American Certificate for Total Facility
	Contract Forms
00 5110	List of Contract Forms
00 5110-01	AIA A132 CMA Agreement Between Owner & Contractor Example
00 5110-02	KA PCO Request Form
	FAA General Provisions
Section 10	Definitions and Terms
Section 20	Proposal Requirements and Conditions
Section 30	Award and Execution of Contract
Section 40	Scope of Work
Section 50	Control of Work
Section 60	Control of Materials
Section 70	Legal Regulations and Responsibility to Public
Section 80	Execution and Progress
Section 90	Measurement and Payment
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00 7200	General Conditions
00 7200-01	General Conditions of the Contract for Construction - A232-CMA-2019
00 73 30	Additional Special Provisions for Federally-Funded Contracts
00 73 36	State Funded Contract Special Provisions Division A
00 7343	Wage Determination Schedule
00 7343-01	MN DOLI Prevailing Wage Rates – Effective 12-12-2022
00 7343-02	US DOLI Prevailing Wage Rates – Effective 01-06-2023
00 73 45	Minnesota Labor and Wage Rate Requirements
00 73 50	Disadvantaged Business Enterprise (DBE) Special Provisions
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01 1100	Project Summary
01 1200	List of Work Scopes
01 1210	General Requirements for All Work Scopes
01 1220-01-A	Construction Testing and Inspection Services
01 1220-01-G	Construction Field Engineering
01 1220-03-A	Concrete
01 1220-06-A	Carpentry

01 1220-08-A	Doors Frames & Hardware – Material Only
01 1220-08-D	Specialty Doors
01 1220-10-A	General Specialties - Material Only
01 1220-10-B	Signage Package
01 1220-13-G	Pre-Engineered Metal Building - Material Only
01 1220-13-H	Pre-Engineered Metal Building - Erection Only
01 1220-23-B	Combined Mechanical
01 1220-26-A	Electrical
01 1220-31-A	Site Clearing and Earthwork
01 2200	Unit Prices
01 2300	Alternates
01 25 13	Product Substitution Procedures

Administrative Requirements

01 2900	Payment Procedures
01 3100	Project Management & Coordination Procedures
01 3210	Project Schedule Requirements
01 3253	Project Safety Requirements
01 3300	Submittal Procedures

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01 42 18	Reference Standards for Infrastructure Improvements
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01 45 10	Quality Control for Building Construction

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01 5000	Temporary Facilities and Controls
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Product Requirements

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01 78 23	Operation and Maintenance Data
01 78 37	Product Warranties

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03 20 00	Concrete Reinforcing

Cast-in-Place Concrete

03 30 00	Cast-in-Place Concrete
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23 05 29 Hangers & Supports for HVAC & Plumbing Piping & Equipment
23 05 53 Identification for Mechanical & Plumbing Piping & Equipment
23 11 23 Facility Natural-Gas Piping
23 34 23 HVAC Power Ventilators
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26 05 44 Sleeves & Sleeve Seals for Electrical Raceways & Cabling
26 05 53 Identification for Electrical Systems
26 24 16 Panelboards
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26 27 26 Wiring Devices
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Item P-152	Excavation, Subgrade, and Embankment
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APPENDIX A

Geotechnical Report

APPENDIX B

Equal Employment Opportunity Special Provisions (EEO)
Form CM 32-34

APPENDIX C

Construction Safety Plan Narrative (CSPN)

APPENDIX D

DLH Construction Safety Handbook

APPENDIX E

City of Duluth Supplementary Provisions – State & Federal Funding

APPENDIX F

COVID-19 Project Shutdown Plan

SECTION 10 14 19**DIMENSIONAL LETTER SIGNAGE****PART 1 GENERAL****1.01 SUMMARY**

- A. Provide:
 - 1. Dimensional letters and numbers.
 - a. Cast metal:
 - 1) Aluminum.
 - 2. Signage accessories including, but not limited to:
 - a. Fasteners.

1.02 REFERENCES

- A. ADA Accessibility Standards
- B. ANSI A117.1 - Information Systems

1.03 SUBMITTALS

- A. Refer to Section 01 33 00.
- B. Product Data: Submit manufacturer's current Product Data including specifications, installation instructions, and maintenance recommendations.
- C. Shop Drawings: Submit manufacturer's Shop Drawings showing system installation drawings, including elevations, sections details of components, and configurations within system and between system and adjoining system.
- D. Samples:
 - 1. Color Samples: Submit manufacturer's full range of color samples with Product Data and Shop Drawings.
 - 2. Font Samples: Submit example of font indicated, or if not indicated, manufacturer's standard fonts.

1.04 QUALITY ASSURANCE

- A. Single Source Responsibility: Provide signage units made of components of standard construction furnished by one manufacturer as coordinated assemblies for each system.
- B. Qualifications:
 - 1. Manufacturer: 5 years' experience in the manufacture of signage.
 - 2. Contractor: 3 years' experience in the installation of signage.
 - 3. Personnel: For actual installation of signage, use personnel skilled in work required, completely familiar with manufacturer's recommended methods of installation, thoroughly familiar with requirements of work.

1.05 PROJECT CONDITIONS

- A. Drawings do not purport to show actual field dimensions, but are intended only to establish location and scope of Work. Field-verify dimensions and assume full responsibility for their accuracy.

PART 2 PRODUCTS**2.01 MANUFACTURER**

- A. Dimensional Characters:
 - 1. Cast Metal:
 - a. Standard of Quality: Unless indicated otherwise, design is based on products of Gemini Inc., Cannon Falls, MN www.signletters.com
 - b. Other Acceptable Manufacturers: Subject to compliance with specified requirements, acceptable manufacturers and products are:
 - 1) A.R.K. Ramos, Oklahoma City, OK www.arkramos.com
 - 2) Metallic Arts, Inc., Spokane, WA www.metallicarts.com
 - 3) Metal Arts Company, Mandan, ND www.metalartslettersandplaques.com
 - 4) Manufacturer of comparable products submitted in compliance with Section 01 25 13.

2.02 COMPONENTS

- A. Dimensional Lettering:
 - 1. Provide dimensional letters and numbers as indicated on the Drawings or in schedule at end of this section.
 - 2. Material:
 - a. Cast metal: Aluminum.
 - 3. Font: Helvetica Medium.
 - 4. Finish:
 - a. Aluminum:
 - 1) Anodized:
 - a) Color: Dark Bronze.
 - 5. Fastening Location: Projected from surface.
- B. Other Materials: Other materials not specifically described but required for complete, proper installation of signage are subject to acceptance of Architect.

PART 3 EXECUTION**3.01 EXAMINATION**

- A. Work of Other Trades: Prior to commencing work, carefully inspect and verify that work is complete to point where this installation may properly commence.
- B. Verification of Conditions: Verify that identifying devices may be installed in accordance with original design, pertinent codes and regulations, and pertinent portions of referenced standards.
- C. Discrepancies: Immediately notify Architect. Do not proceed with installation in areas of discrepancy until fully resolved. Commencement of installation signifies acceptance of surface conditions.

3.02 INSTALLATION

- A. Use standard fastening methods recommended in writing by manufacturer for character form, type of mounting, wall construction, and condition of exposure indicated.
- B. Provide heavy paper template to establish character spacing and to locate holes for fasteners.
- C. Install plumb, true, square in neat, rigid, substantial manner.

3.03 CLEANING AND PROTECTION

- A. After installation, clean all surfaces.

B. Protect from damage until acceptance by Owner.

3.04 SCHEDULE

A. Provide the following:

1. Dimensional Letters and Numbers:

a. 8 inches high (Three Sets):

1) Signage Text:

a) XXX - XXXX AIRPORT ROAD (verify building number and address with Owner)

b. 8 inches high (Five Sets):

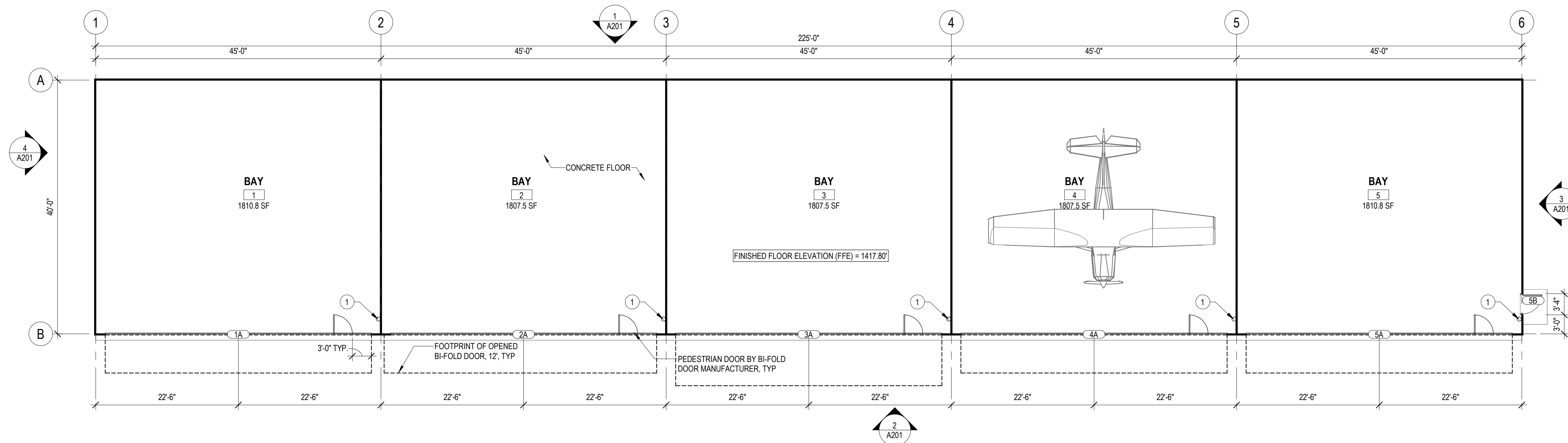
1) Signage Text:

a) X (5 consecutive hangar bay door numbers)

c. Proposed lettering and message shall be approved via shop drawing review prior to fabrication.

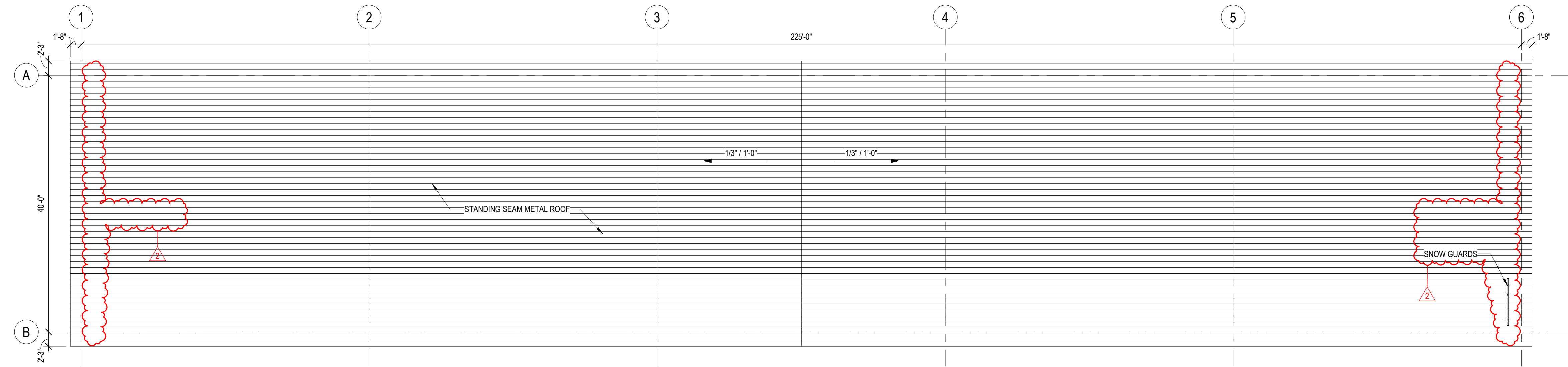
END OF SECTION

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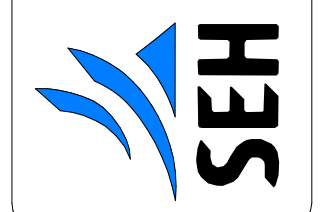


KEYNOTES

1 PROVIDE BRACKET MOUNTED FIRE EXTINGUISHER (FE-1)



3535 VADNASK CENTER DR
DULUTH, MN 55812
PHONE: 651.480.2100
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SCOTT BLANK, AIA
SCOTT BLANK, AIA
DATE: 02/08/2023 LICENSE NO.: 51092

DULUTH INTERNATIONAL AIRPORT
(DLH)
2023 RANCH HANGAR
DULUTH, MN

MARK	DATE	DESCRIPTION
2	02/27/2023	APPENDIX 3 REVISIONS

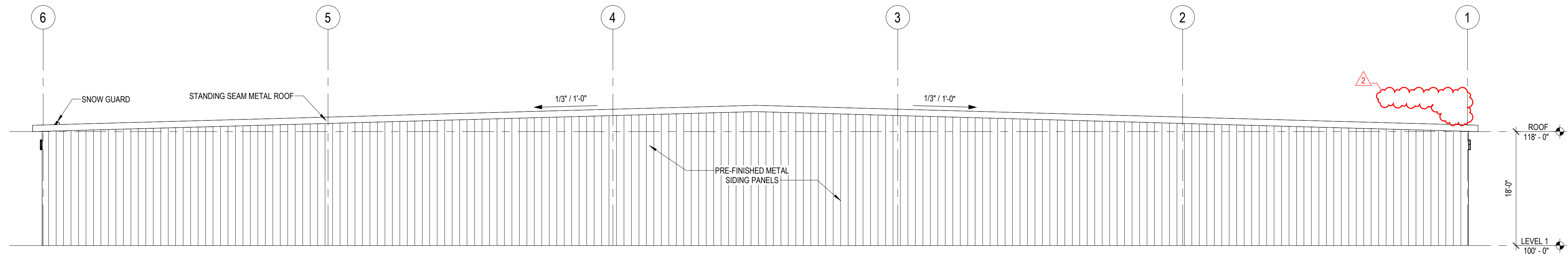
DULH_170373
STATE PROJECT NO.
ISSUE DATE
DESIGNED BY
DRAWN BY

FEB 15, 2023
RRV
RRV

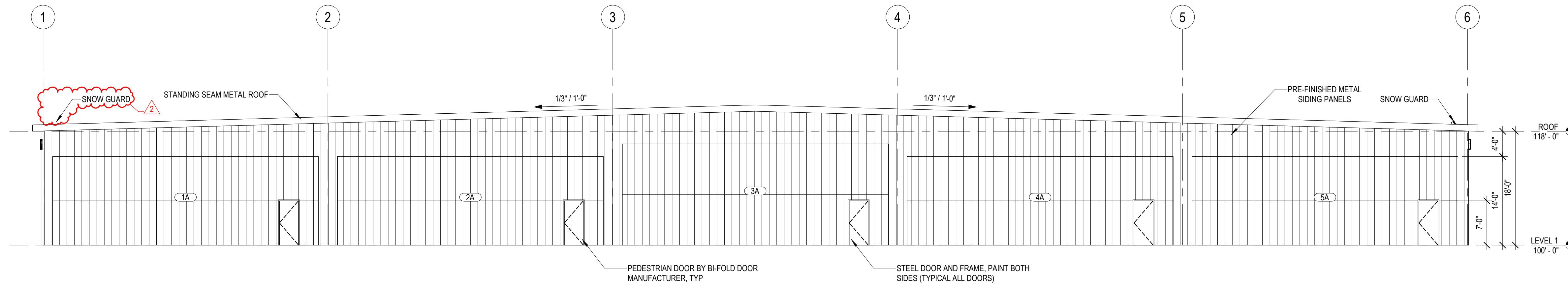
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SHEET TITLE
FLOOR PLAN,
ROOF PLAN,
DOOR INFORMATION

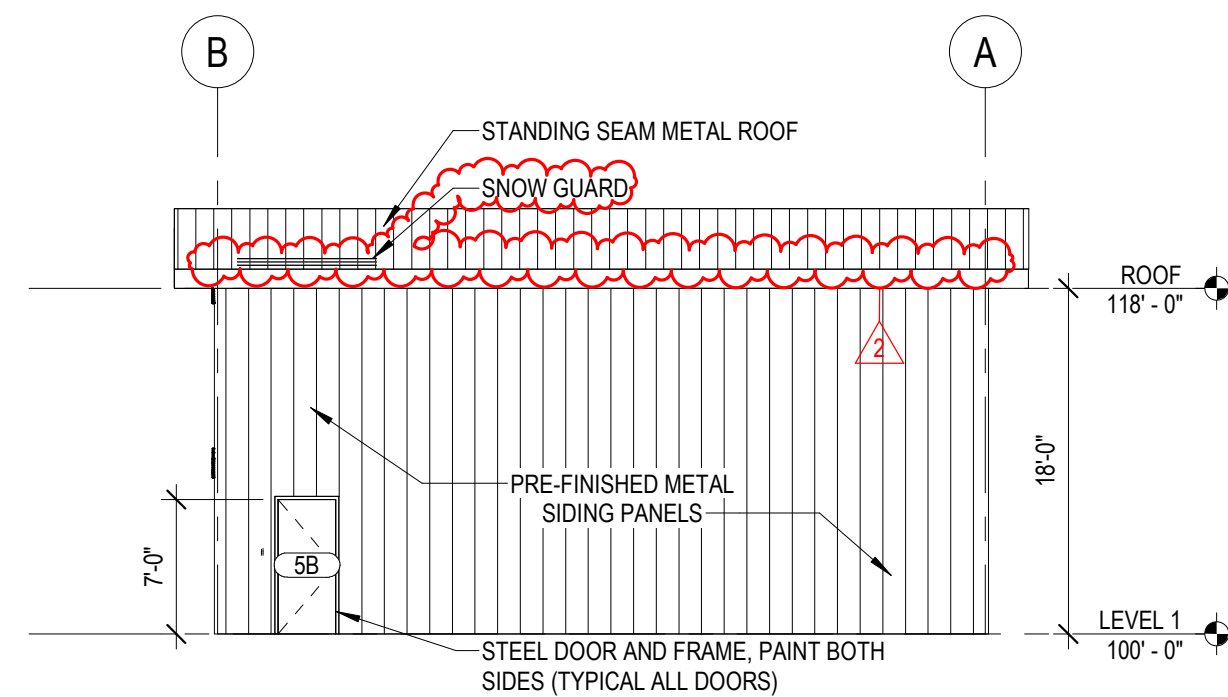
SHEET
A2.00



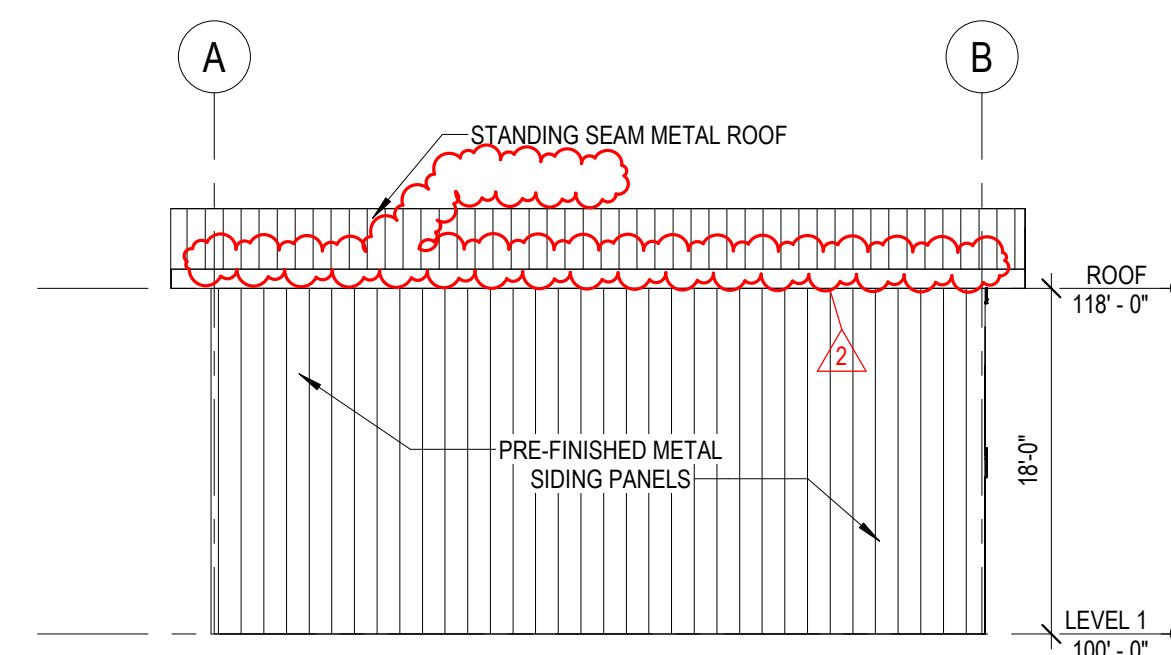
1 EXTERIOR ELEVATION - NORTH
A201 1" = 10'-0"



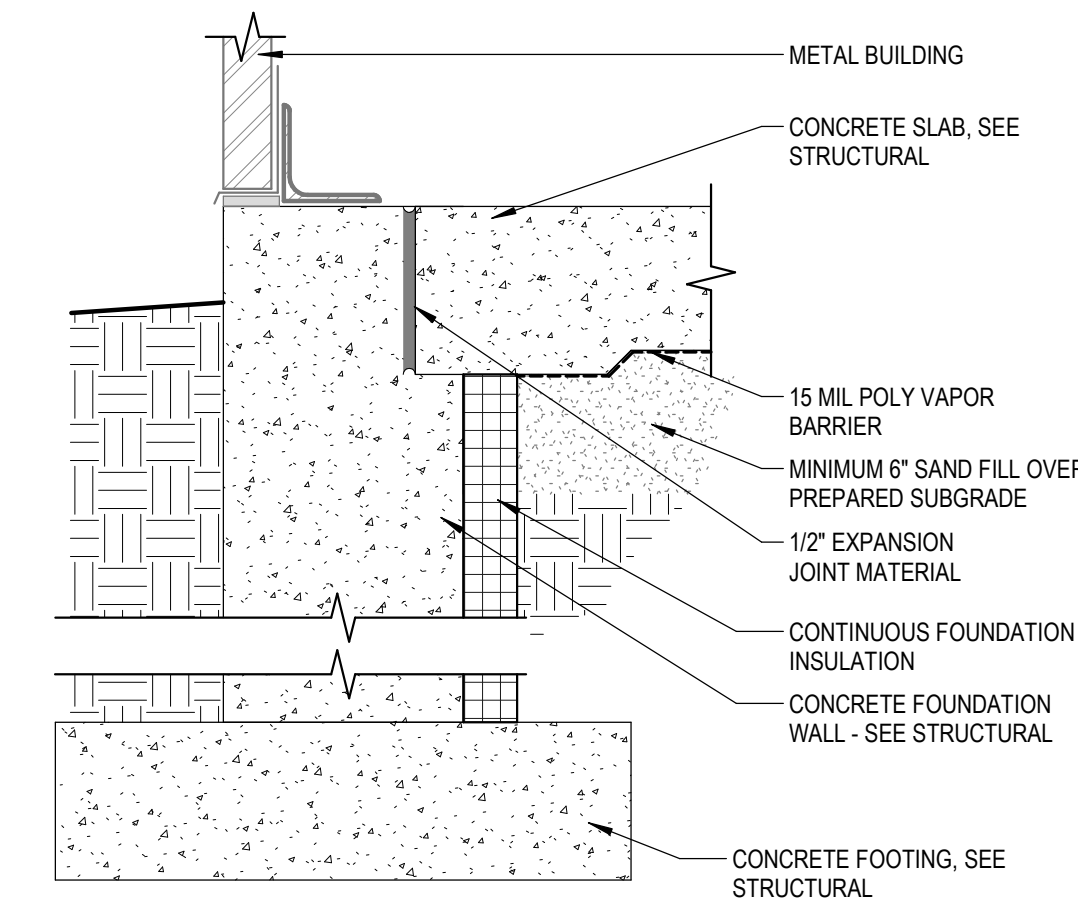
2 EXTERIOR ELEVATION - SOUTH
A201 1" = 10'-0"



3 EXTERIOR ELEVATION - EAST
A201 1" = 10'-0"

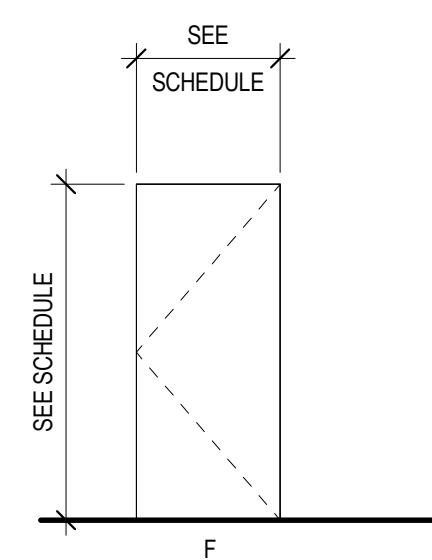


4 EXTERIOR ELEVATION - WEST
A201 1" = 10'-0"

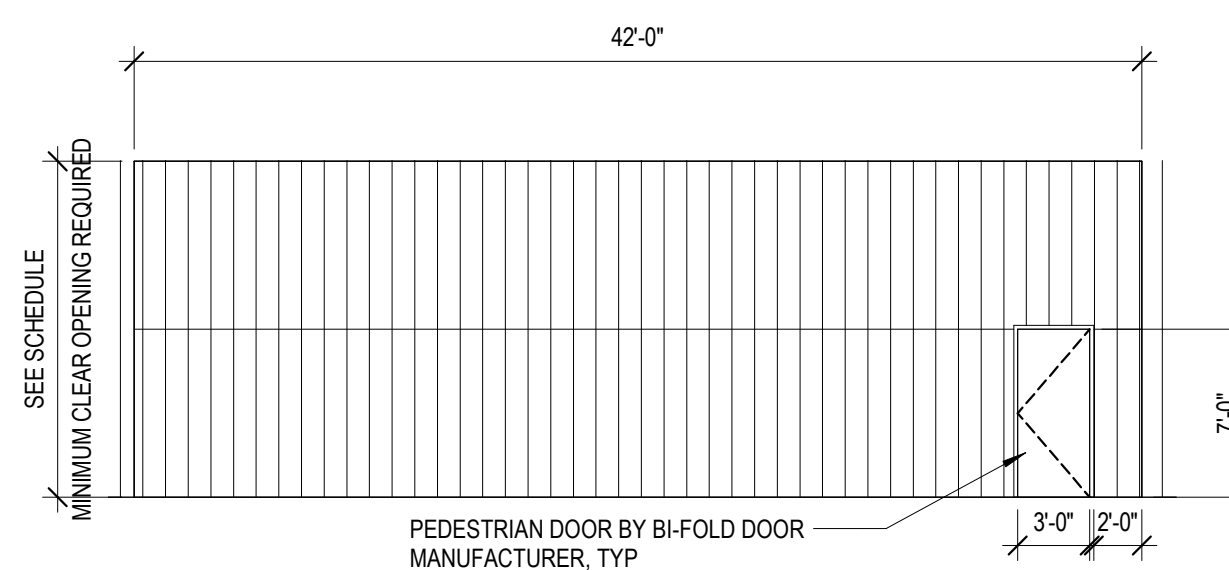
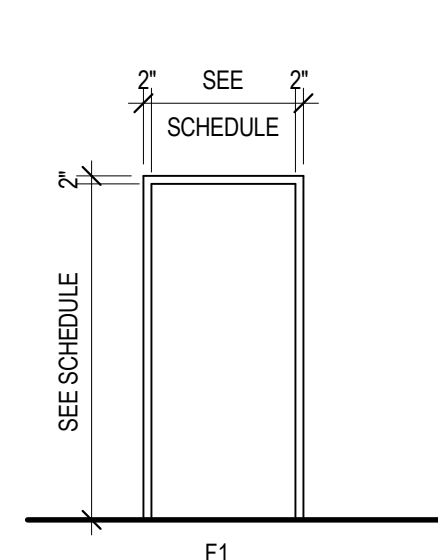


7 TYPICAL FOUNDATION DETAIL
A201 1 1/2" = 1'-0"

DOOR TYPES



FRAME TYPES

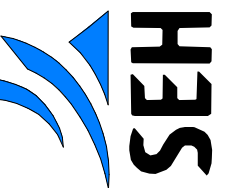


PRE-FINISHED METAL BI-FOLD DOOR

HANGAR DOOR SCHEDULE									
DOOR NUMBER	DOOR				FRAME		HARDWARE GROUP	NOTES	
DOOR CODE	HEIGHT	WIDTH	DOOR MATERIAL	DOOR TYPE	FRAME MATERIAL	FRAME TYPE			
1A	14'-0"	42'-0"	MTL	BI-FOLD	N/A	N/A	01	A,C	
2A	14'-0"	42'-0"	MTL	BI-FOLD	N/A	N/A	01	A,C	
3A	16'-0"	42'-0"	MTL	BI-FOLD	N/A	N/A	01	B,C	
4A	14'-0"	42'-0"	MTL	BI-FOLD	N/A	N/A	01	A,C	
5A	14'-0"	42'-0"	MTL	BI-FOLD	N/A	N/A	01	A,C	
5B	7'-0"	3'-0"	HM	F	HM	F1	01	C	

DOOR REMARKS
 A. CLEAR OPENING TO BE 12"
 B. CLEAR OPENING TO BE 14"
 C. PAINT STEEL DOORS AND FRAMES

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HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM FULLY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA
 SCOTT BLANK, AIA
 DATE: 02/08/2023 LICENSE NO.: 51092

DULUTH INTERNATIONAL AIRPORT (DLH)
 2023 RANCH HANGAR
 DULUTH, MN

MARK	DATE	DESCRIPTION
2	02/27/2023	ADDENDUM 3

DULUTH 170373
 STATE PROJECT NO. FEB 15, 2023
 ISSUE DATE RRV
 DESIGNED BY RRV
 DRAWN BY RRV
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SHEET TITLE
 GENERAL EXTERIOR ELEVATIONS

SHEET

A3.00