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ADDENDUM NO. 5
September 10, 2024

Customs and Border Protection (CBP) Federal Inspection Service (FIS) Facility Renovation
City of Duluth Project No. 24-4401
Duluth International Airport
Duluth, MN

SEH No. DULAI 170389

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 August 2024, and previous addenda dated August 20, 2024, August 28, 2024, August 30, 2024, and September 5, 2024 for this work. Bids submitted for the construction of this work shall conform to this document.

This addendum consists of 11 total pages including 2 plan sheets and 7 specification sheets.

Changes to Specifications:

1. 09 91 23 – Interior Painting, REPLACE with attached specification. Updated Section 2.3 – Paint Color Schedule.

Changes to Drawings:

2. A501 – DOOR & FRAME TYPES AND SCHEDULE – Added painting notes for the door panels and frames.
3. S100 – FIRST LEVEL SECURITY FLOOR PLAN – AREA A – Added (1) new card reader for ADIT 162.

Clarifications and Questions

1. Who is responsible for programming and commissioning the card readers?
    a. The owner will contract Citon to complete the programming and commissioning of the card readers.

2. There are several duress buttons shown throughout the remodeled space with no description of intent other than a few keynotes. Whos' responsible for supplying these?

    a. Duress buttons will be owner provided.

3. The door & frame schedule shows all doors with the exception of opening 237A as existing. Nearly all these doors are assigned hardware groups 1-3. Are we to remove all existing hardware and replace with new per the applicable hardware as described in the hardware schedule in the specification? If this is the case, are all the doors currently prepared to receive this new hardware?

    a. Only the doors & frames getting new card readers (hardware group H1) will be replaced and receive all new hardware: 162A, 164A, and 241A. Doors receiving hardware group H2 will remain. Door 180A will receive new REX (see S100) which will not require a new door. See revised door and frame schedule on A501. See specification section 09 91 23 for revisions to Door Frame/Panel painting.

4. What is the elevation/height from finished floor to structural deck on First and Second Floors?

    a. Measuring off existing plans yields approx. 16'-4" on First Level and 16'-1" on Second Level. Field verify to confirm.

5. Is repainting of the entire ceiling needed/desired?

    a. Repaint ceiling to nearest control joint or approx. 10' by 10' area to feather in and match existing

6. Is the contractor responsible for installing all the signs that are listed on the sign schedule on sheet AG000 – they all are noted as either by the Airport or CBP so wasn't sure.

    a. Yes, the contractor will install all signage. CBP will provide "CBP-provided" signs; Contractor will install. Contractor will both provide and install "airport-provided" signs.

7. The signage keynotes on AG110 show signs G09 and G10 which are not on the schedule on AG000 – what is G10 (statutory sign) and who is supplying/installing G09 and G10 signs?

    a. CBP is providing signs G09 (Secondary Processing Area) and G10 (set of 5 statutory signs) to Contractor. Exact location to be determined.

8. Is the intent to remove existing card readers and replace with new, utilizing the existing cabling and controls?

    a. No, the intent is to reuse existing card readers where possible. See revised door schedule. Existing conduit and cabling can be extended to accommodate the new card readers.

NOTE: Receipt of this Addendum No. 5, dated September 10, 2024 shall be acknowledged on Bid Express. Failure to do so will not allow Bidder to submit Bid.

END OF ADDENDUM

SECTION 09 91 23
INTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Surface preparation and the application of paint systems on interior substrates.

B. Related Sections:
   1. Division 05 Section "Metal Fabrications" for shop priming ferrous metal.
   2. Division 08 Section "Hollow Metal Doors and Frames" for shop priming steel doors and frames.
   3. Division 09 Section "Gypsum Board" for surface preparation for gypsum board.
   4. Division 09 Section "Exterior Painting" for surface preparation and the application of paint systems on exterior substrates.

C. Paint exposed surfaces, except where the paint schedules indicate that a surface or material is not to be painted or is to remain natural. If the paint schedules do not specifically mention an item or a surface, paint the item or surface the same as similar adjacent materials or surfaces whether or not schedules indicate colors. If the schedules do not indicate color or finish, the Architect will select from standard colors and finishes available.
   1. Painting includes field painting of exposed bare and covered pipes and ducts (including color coding), hangers, exposed steel and iron work, and primed metal surfaces of mechanical and electrical equipment.

1.3 DEFINITIONS

A. Gloss Level 1: Not more than 5 units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.

B. Gloss Level 2: Not more than 10 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.

C. Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.

D. Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product. Include preparation requirements and application instructions.
   1. Material List: Provide an inclusive list of required coating materials. Indicate each material and cross-reference specific coating, finish system, and application. Identify each material by manufacturer's catalog number and general classification.
   2. Manufacturer's Information: Provide manufacturer's technical information, including label analysis and instructions for handling, storing, and applying each coating material proposed for use.

3. Certification by the manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).

B. Samples for Verification: For each type of paint system and in each color and gloss of topcoat.
1. Submit Samples on rigid backing, 8 inches square.
2. Step coats on Samples to show each coat required for system.
3. Label each coat of each Sample.
4. Label each Sample for location and application area.

C. Qualification Data: For firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

1.5 QUALITY ASSURANCE

A. Applicator Qualifications: Engage an experienced applicator who has completed painting system applications similar in material and extent to that indicated for this Project with a record of successful in-service performance.

B. Source Limitations: Obtain primers and undercoat materials for each coating system from the same manufacturer as the finish coats.

C. Products shall comply with Master Painters Institute (MPI) X-Green Performance Standard for environmentally safe interior high quality architectural coatings: VOC <50 g/l; reduced or zero quantities of various undesirable chemical components; and certification of emissions compliance to CHPS (Collaborative for High Performance Schools).

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
1. Product name or title of material.
2. Product description (generic classification or binder type).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. VOC content.

B. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

1.7 FIELD CONDITIONS

A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.

B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

1.8 PROJECT CLOSEOUT

A. Provide the Owner with the information listed below for each paint and primer type in Operations and Maintenance Manuals.

1. Product name or title of material.
2. Product description (generic classification or binder type).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. VOC content.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products indicated in other Part 2 Articles or comparable products by one of the following or another in accordance with Provisions for Substitution:
1. Benjamin Moore & Co.
2. Glidden Professional.
3. PPG Architectural Finishes, Inc.
4. Pratt & Lambert.
5. Sherwin-Williams Company.

2.2 PAINT, GENERAL

A. MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MPI Approved Products List."

B. Material Compatibility:
1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.

2.3 PAINT COLOR SCHEDULE

A. Colors: As indicated in the color schedule:
1. Paint Color **PT-1**:
   a. Color: Match existing
   b. Finish: Eggshell (verify)
   c. Location: Walls
2. Paint Color **PT-2**:
   a. Color: Match existing
   b. Finish: Eggshell (verify)
   c. Location: Walls
3. Paint Color **PT-3**:
   a. Color: Match existing
   b. Finish: Flat (verify)
   c. Location: Gypsum Board Ceilings.
4. Paint Color **PT-4**: (Addendum No 5)
   a. Color: Match existing
   b. Finish: Flat (verify)
   c. Location: Doors and Frames.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
   1. Masonry: 12 percent.
   2. Gypsum Board: 12 percent.
   3. Wood: 15 percent.

C. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.

D. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.

E. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
   1. Notify the Architect about anticipated problems using the materials specified over substrates primed by others.

F. Proceed with coating application only after unsatisfactory conditions have been corrected.
   1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
   1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.

C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
   1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

D. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceeds that permitted in manufacturer's written instructions.

E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.

F. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal fabricated from coil stock by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.

G. Wood Substrates:
   1. Scrape and clean knots, and apply coat of knot sealer before applying primer.
   2. Sand surfaces that will be exposed to view, and dust off.

3. Prime edges, ends, faces, undersides, and backsides of wood.
4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.

H. Materials Preparation: Mix and prepare paint materials according to manufacturer's written instructions.
1. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
2. Stir material before application to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into material. If necessary, remove surface film and strain material before using.
3. Use only thinners approved by paint manufacturer and only within recommended limits.

3.3 APPLICATION

A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."
1. Use applicators and techniques suited for paint and substrate indicated.
2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.

B. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.
1. The number of coats and the film thickness required are the same regardless of application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer. If sanding is required to produce a smooth, even surface according to manufacturer's written instructions, sand between applications.
2. Omit primer on metal surfaces that have been shop primed and touchup painted.
3. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
4. Allow sufficient time between successive coats to permit proper drying. Do not recoat surfaces until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and where application of another coat of paint does not cause the undercoat to lift or lose adhesion.

C. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
1. Brushes: Use brushes best suited for the type of material applied. Use brush of appropriate size for the surface or item being painted.
2. Rollers: Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by the manufacturer for the material and texture required.
3. Spray Equipment: Use airless spray equipment with orifice size as recommended by the manufacturer for the material and texture required.

D. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate. Provide the total dry film thickness of the entire system as recommended by the manufacturer.

E. Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to items exposed in equipment rooms and in occupied spaces.

F. Mechanical items to be painted include, but are not limited to, the following:
   1. Piping, pipe hangers, and supports.
   2. Ductwork.
   3. Accessory items.

G. Electrical items to be painted include, but are not limited to, the following:
   1. Conduit and fittings.

H. Prime Coats: Before applying finish coats, apply a prime coat of material, as recommended by the manufacturer, to material that is required to be painted or finished and that has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn through or other defects due to insufficient sealing.

I. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.

J. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

3.4 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.

D. Provide "Wet Paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.

E. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

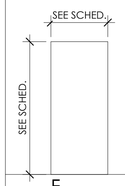
3.5 INTERIOR PAINTING SCHEDULE

A. Gypsum Board Substrates:
   1. Latex System (Walls):
      a. Prime Coat: Primer sealer, latex, interior, MPI #149 X-Green.
         1) Product: Sherwin-Williams; ProMar 200 Zero VOC Interior Latex B28W02600.
      b. Intermediate Coat: Latex, interior, matching topcoat.
      c. Topcoat: Latex, interior, eggshell, (Gloss Level 2), MPI #144 X-Green.
         1) Product: ProMar 200 HP Zero VOC Interior Latex B41W01951.
   2. Latex System (Ceilings):
      a. Prime Coat: Primer sealer, latex, interior, MPI #149 X-Green.
         1) Product: Sherwin-Williams; ProMar 200 Zero VOC Interior Latex B28W02600.
      b. Intermediate Coat: Latex, interior, matching topcoat.

c. Topcoat: Latex, interior, flat, (Gloss Level 1), MPI #143 X-Green.
   1) Product: Sherwin-Williams; ProMar 200 Zero VOC Interior Latex B30W12651.

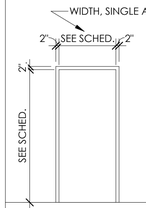
END OF SECTION 09 91 23

PANEL TYPES



F
FLUSH
EXISTING DOOR

FRAME TYPES



DF00
EXISTING FRAME

DOOR PANEL TYPES.
F : WD D
- DOOR PANEL MODIFIER, WHERE INDICATED.
- DOOR PANEL MATERIAL. SEE ALSO DOOR PANEL FINISH
- DOOR PANEL TYPE

DOOR PANEL MODIFIER
D = DOUBLE ACTING.
P = PIVOT HINGED.

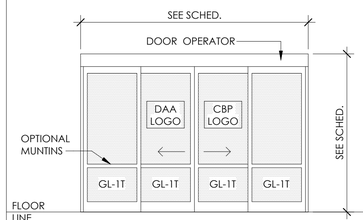
DOOR PANEL AND FRAME MATERIAL
AL = ALUMINUM.
HM = HOLLOW METAL.
WD = WOOD.

DOOR FRAME TYPES.
DF00 : WD DE
- DOOR FRAME MODIFIER, WHERE INDICATED.
- DOOR FRAME MATERIAL. SEE ALSO DOOR FRAME FINISH
- DOOR FRAME TYPE

DOOR FRAME MODIFIER
DE = DOUBLE EGRESS.
CO = CASED OPENING. OMIT DOOR PANEL STOP IN FRAME PROFILE.
A = AUTOMATIC SLIDING DOOR WITH APPROX 8" HEAD FRAME HEIGHT.
M = MASONRY OPENING WITH 4" HEAD FRAME HEIGHT.

DE/M = COMBINATION. DOUBLE EGRESS AND MASONRY OPENING WITH 4" HEAD.
CO/M = COMBINATION. CASED OPENING AND MASONRY OPENING WITH 4" HEAD.

SPECIALITY DOOR AND FRAME TYPES



DOOR PANEL : FGA
DOOR FRAME : DF00:AL A WHERE INDICATED

NOTES

GENERAL DOOR AND FRAME NOTES :
1. NOT ALL DOOR PANEL AND FRAME TYPES ARE USED IN THE PROJECT.
2. REFER TO FRAME TRANSOM AND SIDELIGHT SCHEDULE FOR TRANSOM, SIDELIGHT AND SILL HEIGHTS. 0" DENOTES NOT APPLICABLE.
3. FOR DOOR PANEL/GLASS TYPES, SEE SCHEDULE.
4. GROUT FILL ALL DOOR FRAMES.
5. FOR SIGNAGE TYPES AND DETAILS, SEE SIGNAGE SHEETS.

DOOR AND FRAME SCHEDULE

PHASE	ROOM NAME	DOOR NUMBER	WIDTH	HEIGHT	THICK	DOOR PANELS: PANEL TYPE	PANEL FINISH	PANEL GLASS	DOOR FRAMES: FRAME TYPE	FRAME FINISH	FRAME GLASS	FIRE RATING, MINUTES.	HDWR GROUP	COMMENTS
LEVEL 1														
EXISTING	INTERNATIONAL	117A	3' - 4"	7' - 0"	1 3/4"	F : HM	EXIST	EXIST	DF00 : HM	EXIST	EXIST	EXIST	EXIST	DAA TO REPROGRAM DOOR TO OVERRIDE BADGE READER DURING FIS OPERATIONS
NEW	ADIT	162A	3' - 0"	7' - 0"	1 3/4"	F : WD	PT-4	N/A /1	DF00 : HM	PT-4	N/A /1	EXIST	H1	
NEW	STORAGE	164A	3' - 0"	7' - 0"	1 3/4"	F : WD	PT-4	N/A	DF00 : HM	PT-4	N/A	EXIST	H1	
EXISTING	HOLD	170A	3' - 0"	7' - 0"	1 3/4"	F : WD	EXIST	EXIST	DF00 : HM	EXIST	EXIST	EXIST	H2	
EXISTING	HOLD	171A	3' - 0"	7' - 0"	1 3/4"	F : WD	EXIST	EXIST	DF00 : HM	EXIST	EXIST	EXIST	H2	
EXISTING	OFFICE	180A	3' - 0"	7' - 0"	1 3/4"	F : WD	EXIST	EXIST	DF00 : HM	EXIST	EXIST	EXIST	EXIST /1	
LEVEL 2														
EXISTING	STERILE CORRIDOR	233B	3' - 0"	7' - 0"	1 3/4"	F : AL	EXIST	WF-1	DF11 : AL	EXIST	EXIST	EXIST	EXIST /1	ADD FROSTED FILM TO MATCH EXISTING
NEW	STAIR	237A	14' - 0"	7' - 0"	1 3/4"	FGA	ALUM	GL-1T	DF00 : AL A	ALUM	GL-1T		H3	SLIDING DOOR, TO INCLUDE DAA AND CBP LOGOS. ADD FROSTED FILM.
EXISTING	CBP PRIMARY PROCESSING	237B	3' - 0"	7' - 0"	1 3/4"	F : WD	EXIST	EXIST	DF00 : HM	EXIST	EXIST	EXIST	EXIST /1	
EXISTING	CBP PRIMARY PROCESSING	237C	3' - 6"	7' - 0"	1 3/4"	F : WD	EXIST	EXIST	DF00 : HM	EXIST	EXIST	EXIST	EXIST	
EXISTING	CBP PRIMARY PROCESSING	237D	3' - 0"	7' - 0"	1 3/4"	F : WD	EXIST	EXIST	DF00 : HM	EXIST	EXIST	EXIST	EXIST	
EXISTING	COMMUNICATIONS DATA ROOM	240A	3' - 0"	7' - 0"	1 3/4"	F : WD	EXIST	EXIST	DF00 : HM	EXIST	EXIST	EXIST	EXIST	
NEW	CBP OFFICE	241A	3' - 0"	7' - 0"	1 3/4"	F : WD	PT-4	N/A /1	DF00 : HM	PT-4	N/A /1	EXIST	H1	
EXISTING	STERILE CORRIDOR	242A	3' - 6"	7' - 0"	1 3/4"	F : WD	EXIST	EXIST	DF00 : HM	EXIST	EXIST	EXIST	EXIST /1	
EXISTING	COMMAND AND CONTROL CENTER	245A	3' - 0"	7' - 0"	1 3/4"	F : WD	EXIST	EXIST	DF00 : HM	EXIST	EXIST	EXIST	EXIST	
1 EXISTING	STORAGE	249A	3' - 0"	7' - 0"	1 3/4"	F : WD	EXIST	EXIST	DF00 : HM	EXIST	EXIST	EXIST	EXIST	
EXISTING	FIXED BRIDGE	JB1.02	7' - 0"	7' - 0"	1 3/4"	CD : AL	EXIST	EXIST	DF-CD : STL	EXIST	EXIST	EXIST	EXIST	NEW CARD READER - SEE S201

DOOR SCHEDULE NOTES

FOR TYPICAL/GENERAL NOTES AND REFERENCES, SEE DOOR PANEL AND FRAME TYPE LEGENDS.

DOOR SCHEDULE KEYNOTES

1. ALL HARDWARE BY DOOR MANUFACTURER, UNO.
2. FOUR-FOLD DOORS, SEE ALSO ELECTRICAL DRAWINGS.
3. FOR DESIGNATION TYPE "<>" DOORS, ADD SECURITY SIGNAGE, SEE XX/AG601.1
4. ANSI LEVEL 3.

GLAZING - KEY

GL-1 = NON-INSULATED CLEAR GLASS

GL-1T = NON-INSULATED TEMPERED/SAFETY GLASS

GL-1A = NON-INSULATED ANNEALED GLASS

GL-2 = INSULATED CLEAR GLASS

GL-2T = INSULATED CLEAR TEMPERED/SAFETY GLASS

GL-2S = INSULATED CLEAR GLASS, SPANDREL PANEL

GLAZING FILM - KEY

ONE-WAY FILM

TRANSLUCENT FILM

NOTE:
ADDITIONAL IMPACT RESISTANT FILM AT GLAZING AS INDICATED ON ELEVATION

SEH

Miller Dunwiddie
millerdunwiddie.com
100 Washington Ave South, Suite 500
Minneapolis, Minnesota 55401
612 337 0000

MCE
333 South 7th Street, Suite 1200
Minneapolis, Minnesota 55402
Main: 612-339-4941
www.michaudcooley.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA

GREGORY S. HULNE
DATE 07/24/2024 **LICENSE NO.** 22941

DULUTH AIRPORT AUTHORITY
DULUTH INTERNATIONAL AIRPORT
TERMINAL FEDERAL INSPECTION
SERVICE FACILITY RENOVATION
100% BID SET
4701 GRINDEN DRIVE
DULUTH, MN 55811

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SEH Project	DULAI 170389
MDA Project	DLH2201
Checked By	GSH
Drawn By	PMH
Project Status	**Issue Date**

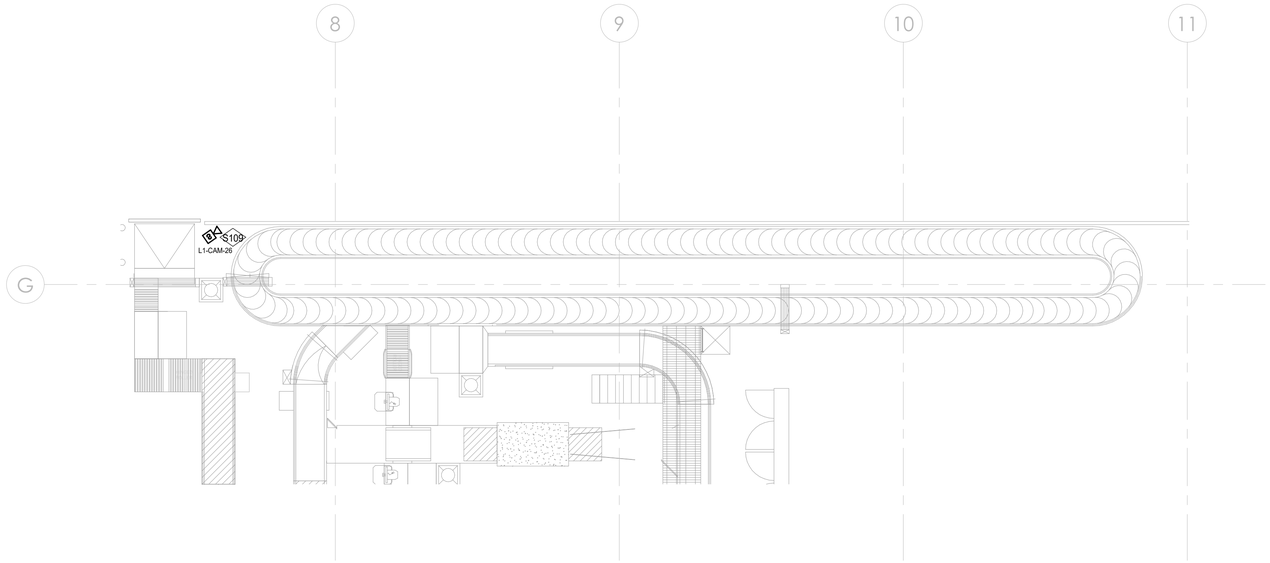
REVISION SCHEDULE

REV. #	DESCRIPTION	DATE
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1	ADDENDUM NO 5	09/10/24

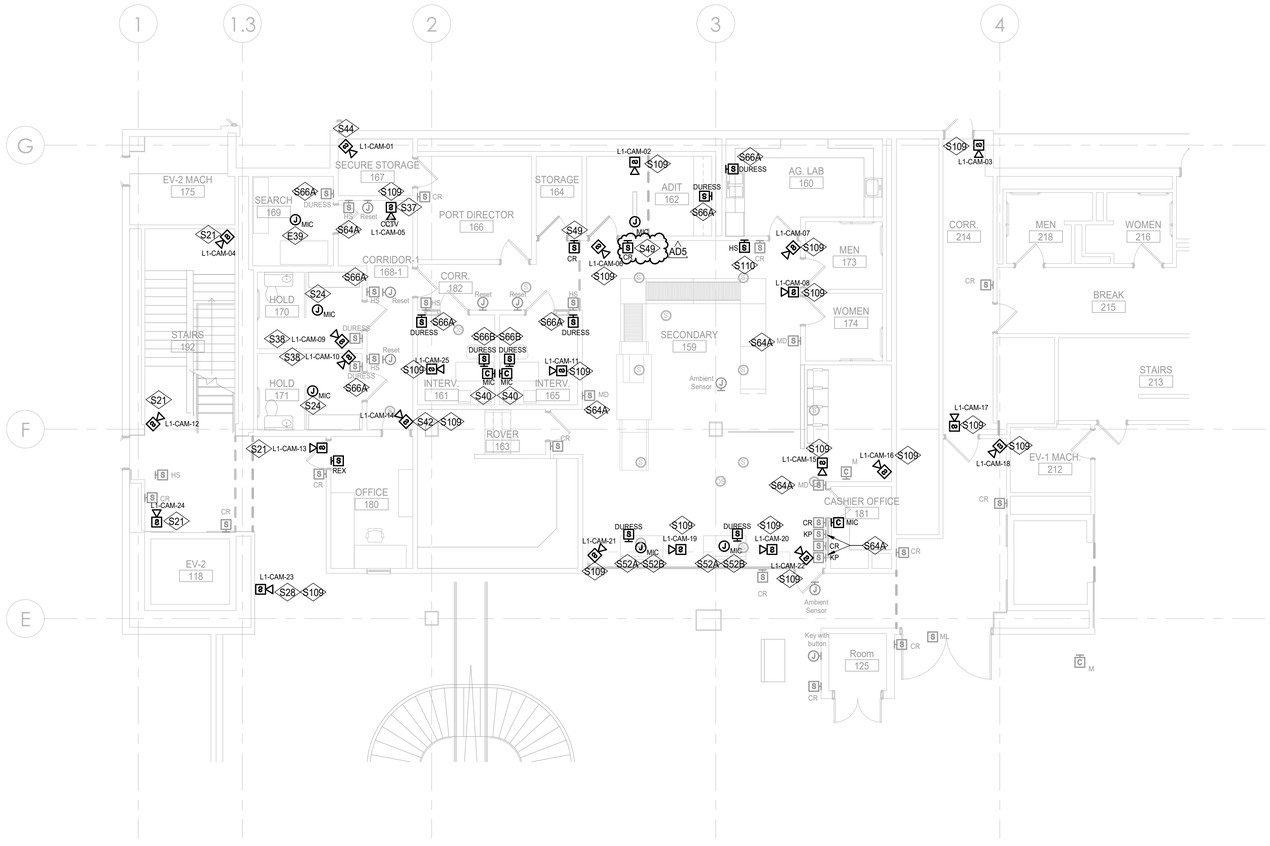
DOOR & FRAME TYPES AND SCHEDULE

A501

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2 FIRST LEVEL SECURITY FLOOR PLAN - TUG DRIVE
1/8" = 1'-0"



1 FIRST LEVEL SECURITY FLOOR PLAN - AREA A
1/8" = 1'-0"

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KEY NOTES

S3A. PROVIDE NEMA 4X CAMERA SYSTEM NETWORK ENCLOSURE. PROVIDE 6 STRAND INDOOR/OUTDOOR SINGLE MODE FIBER OPTIC CABLE TO TELECOMMUNICATIONS ROOM 240. TERMINATE FIBER IN TR AND PROVIDE REQUIRED PATCHING. CONTRACTOR TO INSTALL 8 PORT HARDENED NETWORK SWITCH (CISCO IE4000) IN ENCLOSURE FOR IP CAMERAS. CONFIRM LOCATION OF ENCLOSURE DOES NOT INTERFERE WITH PATH OF PASSENGER BOARDING BRIDGE. AD4

S3B. INSTALL OWNER PROVIDED FIXED CAMERA MOUNTED INSIDE OF PBB.

S4. PROVIDE 1" CONDUIT AND EXTERIOR RATED CAT6 CABLING FROM CAMERA LOCATION TO NETWORK SWITCH IN ROOM 240. MOUNT OWNER PROVIDED CAMERA TO SIDE OF BUILDING TO AVOID ROOF PENETRATIONS. REFER TO CAMERA MOUNTING DETAIL ON SHEET E300 FOR MORE INFORMATION ON CONDUIT AND JUNCTION BOX REQUIREMENTS. AD4 AD4

S5A. INSTALL OWNER PROVIDED CARD READER FOR ACCESS TO STAIRS ON PASSENGER BOARDING BRIDGE. PROVIDE IGUS #CF9-25-05 "SO CORD" FOR POWER TO ACCESS CONTROL. PROVIDE IGUS CHAINFLEX CFBUS.020 STAR QUAD GUARD DESIGN, STYLE 21371 FOR COMMUNICATION CABLING. PROVIDE REQUIRED RACEWAY TO COMPLETE WIRING SYSTEM WITHOUT SPLICES. AD4

S5B. INSTALL OWNER PROVIDED CARD READER ADJACET TO ELEVATOR CALL BUTTON. PROVIDE CONNECTIONS FROM CARD READER TO ELEVATOR EQUIPMENT ROOM TO ALLOW FOR VALID CARD SWIPE REQUIREMENT FOR CALLING ELEVATOR. AD4

S5C. INSTALL OWNER PROVIDED CARD READER AT PILOT DOOR AND END OF BRIDGE. COMMUNICATION CABLING AND POWER CABLING FOR CARD ACCESS TO BE FLEXIBLE TO ALLOW FOR CONTINUED USE WHILE BRIDGE IS EXPANDED OR CONTRACTED.

S11. PROVIDE INSTALLATION FOR OWNER PROVIDED CAMERA. SEE SPECIFICATIONS FOR MORE INFORMATION.

S17. PROVIDE CABLING FROM MICROPHONE LOCATION TO CAMERA SYSTEM.

S18. PROVIDE INSTALLATION FOR OWNER PROVIDED CAMERA. SEE SPECIFICATIONS FOR MORE INFORMATION.

S21. PROVIDE CAT6 CABLING FROM CAMERA LOCATION TO NETWORK SWITCH IN ROOM 240. REFER TO CAMERA MOUNTING DETAIL ON SHEET E300 FOR MORE INFORMATION ON CONDUIT AND JUNCTION BOX REQUIREMENTS.

S23. PROVIDE CAT6 CABLING FROM CAMERA LOCATION TO NETWORK SWITCH IN ROOM 240. REFER TO CAMERA MOUNTING DETAIL ON SHEET E300 FOR MORE INFORMATION ON CONDUIT AND JUNCTION BOX REQUIREMENTS.

S24. PROVIDE CABLING FROM MICROPHONE LOCATION TO CAMERA SYSTEM.

S26. PROVIDE NEW MOTION DETECTION IN STAIR 292. CONNECT MOTION DETECTION TO EXISTING INTRUSION SYSTEM.

S28. PROVIDE INSTALLATION FOR OWNER PROVIDED CAMERA. SEE SPECIFICATIONS FOR MORE INFORMATION.

S37. PROVIDE INSTALLATION FOR OWNER PROVIDED CAMERA. SEE SPECIFICATIONS FOR MORE INFORMATION.

S38. PROVIDE INSTALLATION FOR OWNER PROVIDED CAMERA. SEE SPECIFICATIONS FOR MORE INFORMATION.

S39. PROVIDE CABLING FROM MICROPHONE LOCATION TO CAMERA SYSTEM.

S40. PROVIDE CABLING FROM MICROPHONE LOCATION TO CAMERA SYSTEM.

S41. PROVIDE INSTALLATION FOR OWNER PROVIDED CARD READERS. SEE SPECIFICATIONS FOR MORE INFORMATION.

S42. PROVIDE INSTALLATION FOR OWNER PROVIDED CAMERA. SEE SPECIFICATIONS FOR MORE INFORMATION.

S43. PROVIDE INSTALLATION FOR OWNER PROVIDED CARD READERS. SEE SPECIFICATIONS FOR MORE INFORMATION.

S44. PROVIDE INSTALLATION FOR OWNER PROVIDED CAMERA. SEE SPECIFICATIONS FOR MORE INFORMATION. AD4

S49. INSTALL NEW OWNER PROVIDED CARD READER TO SECURE DOOR. COORDINATE WITH ARCHITECTURAL DOOR SCHEDULE FOR MODIFICATIONS REQUIRED.

S52A. PROVIDE CABLING FROM MICROPHONE LOCATION TO CAMERA SYSTEM. AD4

S52B. INSTALL OWNER PROVIDED DURESS BUTTON FOR PODIUM.

S64A. PROVIDE VERIFICATION OF EXISTING INTRUSION DETECTION SYSTEM (IDS).
- TEST AND CONFIRM THE EXISTING IDS DEVICE MEETS CURRENT AIRPORT TECHNICAL DESIGN STANDARD (ATDS) AND PHYSICAL SECURITY STANDARDS.
- SHOULD THE DEVICE NOT MEET ATDS, CONTRACTOR TO PROVIDE DEFICIENCY REPORT TO THE ENGINEER. COORDINATE WITH ENGINEER FOR NECESSARY UPGRADES.
- CONTRACTOR TO FIELD VERIFY THE EXISTING ZONES AND REPORT FINDINGS BACK TO THE ENGINEER. COORDINATE ZONES WITH SYSTEM OWNER.

S64B. PROVIDE INSTALLATION OF INTRUSION DETECTION DEVICE AND INTEGRATE INTO THE EXISTING INTRUSION DETECTION SYSTEM. PROVIDE A NEW ZONE FOR IDS DEVICES IN COMMUNICATIONS DATA ROOM 240.

S66A. PROVIDE INTERFACING BETWEEN DURESS BUTTONS AND EXACOVISION TO PROVIDE ALERTS TO WORKSTATIONS WHEN BUTTON IS PRESSED.

S66B. PROVIDE INSTALLATION FOR UNDER DESK DURESS BUTTONS. PROVIDE INTERFACING BETWEEN DURESS BUTTON AND EXACQVISION TO PROVIDE ALERTS TO WORKSTATIONS WHEN BUTTON IS PRESSED.

S109. PROVIDE INSTALLATION FOR OWNER PROVIDED CAMERA. SEE SPECIFICATIONS FOR MORE INFORMATION. AD4 AD4

S110. INSTALL OWNER PROVIDED DURESS BUTTON AND LOCAL ALARM BY GRINDER. LOCAL ALARM TO HAVE VISUAL AND AUDIO NOTIFICATION OF DURESS PUSH.

S111. PROVIDE INSTALLATION FOR OWNER PROVIDED CAMERA UNDER PASSENGER BOARDING BRIDGE. SEE SPECIFICATIONS FOR MORE INFORMATION. AD4

NORTH

SEH
Miller Dunwiddie
millerdunwiddie.com
100 Washington Ave South, Suite 500
Minneapolis, Minnesota 55401
612 337 0000
MCE
333 South 7th Street, Suite 1200
Minneapolis, Minnesota 55402
Main: 612-339-4941
www.michaudcooley.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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

MIKE S. OGROSKE

DATE 9/09/2024 LICENSE NO. 54899

DULUTH AIRPORT AUTHORITY
DULUTH INTERNATIONAL AIRPORT
TERMINAL FEDERAL INSPECTION
SERVICE FACILITY RENOVATION
100% BID SET
4701 GRINDEN DRIVE
DULUTH, MN 55811

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Drawn By	CMB
Project Status	**Issue Date**

REVISION SCHEDULE

REV. #	DESCRIPTION	DATE
	100% BID SET	07/22/24
	Addendum 4	09/04/24
	Addendum 5	09/09/24

FIRST LEVEL SECURITY FLOOR PLAN - AREA A

S100