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A D D E N D U M

Project No.:	2601701	**Addendum No:**	01
Project:	AF26-07 Fort Wayne International Airport, General Aviation Hangar 2070	Date:	11/6/2026

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 01, to Drawings and Specifications dated 10/21/2026, for AF26-07 Fort Wayne International Airport, General Aviation Hangar 2070 for the Fort Wayne Allen County Airport Authority; as prepared by ELEVATUS Architecture, 111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802

This ADDENDUM shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified and set forth in this ADDENDUM.

Each Bidder shall acknowledge receipt of this ADDENDUM on the Bid Form.

GENERAL:

ITEM NO. 1.01 – Pre-bid Meeting

A. Pre-bid meeting agenda attached.

B. Pre-bid meeting sign-in sheet attached.

ITEM NO. 1.02 – FAA 7460 Permit

A. Contractor is responsible for procuring the FAA 7460 crane permit along with associated costs.

ITEM NO. 1.03 – NOTAMS

A. No height limits are known at this time. Pending FAA response.

PROJECT MANUAL:

ITEM NO. 2.01 - PROJECT MANUAL, 03 35 43, Polished Concrete

A. Article 2.1, paragraph A; The following additional manufacturers are acceptable. Provided products and processes shall match those specified in all respects.:

   2. Prosoco, Inc., Lawrence, Kansas

   3. L & M Construction Chemicals, Permashine Polishing System, Bethany, Connecticut

ITEM NO. 2.02 - PROJECT MANUAL, 07 21 13, Metal Building Insulation System

A. Article 2.2, paragraph B; Removed.

B. Article 3.4; Removed.

ITEM NO. 2.03 - PROJECT MANUAL, 13 34 19, Metal Building Systems

A. Article 2.1, paragraph A; The following additional manufacturers are acceptable. Provided products and processes shall match those specified in all respects.:
   4. American Buildings; www.americanbuildings.com
   5. Metallic Building Systems: www.metallic.com

ITEM NO. 2.04 - PROJECT MANUAL, 32 13 13, Portland Cement Concrete Pavement

A. Article 2.4, paragraph B; Revise paragraph to read as follows:
   1. “Joint sealant shall be Type “II” and conform to ASTM D7116 in accordance with FAA Item P-605. Backer rod shall conform to ASTM D5249, sized 25 percent (plus or minus 5 percent) larger than the nominal joint width.”

DRAWINGS:

ITEM NO. 3.01 - DRAWING NO. C-100 Existing Condition Site Plan

A. Contractor shall be responsible for relocation of temporary fencing to final fencing location at the end of the project. Refer to drawing C-200.

ITEM NO. 3.02 - DRAWING NO. C-400 Site Utility Plan

A. Removal of site drains from airside of building.

ITEM NO. 3.03 - DRAWING NO. C-500 Site Construction Erosion Plan

A. Removal of site drains from airside of building.

ITEM NO. 3.04 - DRAWING NO. A-100, Architectural Floor Plan

A. Addition of Floor Plan Note 7.01 to read as follows:
   1. “LINER PANEL UP TO 27’-3”

ITEM NO. 3.05 - DRAWING NO. A-201, Building Elevations

A. Revision on Plan East Elevation such that:
   1. 60” x 151 ½” perforated metal panels are split into two 30” x 151 ½” panels.
   2. Addition of eight mounting brackets, and two connecting support tubes.

ITEM NO. 3.06 - DRAWING NO. A-211, Interior Elevations

A. Revised portion of liner panel to height of 27’-3” to conceal substructure for exterior perforated metal panels.

ITEM NO. 3.07 - DRAWING NO. A-301, Building Sections and Details

A. Revised visual representation of roof insulation.

B. Revised annotation on 3/A-301, “VAPOR BARRIER ATTACHED TO WOOD BLOCKING AND WRAPPED TO TOP” to read as follows:
   1. “MEL-ROL BY W.R. MEADOWS OR APPROVED EQUAL TO BE ATTACHED TO WOOD BLOCKING AND WRAPPED TO TOP”

C. Revised visual representation of roof insulation.

ITEM NO. 3.08 - DRAWING NO. A-311, Wall Sections and Details

A. Revised all “VINYL-FACED INSULATION (R-13 MIN) – BY PEMB MFR / CONTRACTOR” annotations to read as follows:
   1. “SAG-AND-BAG INSULATION (R-13 MIN) – BY PEMB MFR / CONTRACTOR”

B. Addition of MEL-ROL by W.R. Meadows or approved equal.

ITEM NO. 3.03 - DRAWING NO. A-501, Architectural Details

A. Revised all “VINYL-FACED INSULATION (R-13 MIN) – BY PEMB MFR / CONTRACTOR” annotations to read as follows:
   1. “SAG-AND-BAG INSULATION (R-13 MIN) – BY PEMB MFR / CONTRACTOR”

B. Addition of MEL-ROL by W.R. Meadows or approved equal to 4/A-501.

C. Addition of Thermal Break Material, TBM-2 by Thermal Bridging Solutions or approved equal.

D. Addition of mineral wool Insulation on 7/A-501 and 8/A-501
   1. Mineral wool to wrap HSS perforated metal panel substructure.

E. Addition of bent plates on 7/A-501.

F. Addition of strip lights on 7/A-501.

G. HSS substructure sizing will be determined by PEMB manufacturer. The PEMB manufacturer will have the acceptable fastening methods for HSS attachment to the girts.

ITEM NO. 4.01 – MEP Addendum

A. Refer to attached MEP Addendum 01.

Submitted By:

Jon C. Hubart, Assoc. AIA, LEED AP BD+C, CSI, CDT
Principal, Sr. Project Manager

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cc: ☐ File: Document17
☐ Owner:
☐ Contractor:
☐ Consultant:
☐ Consultant:

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PRE-BID MEETING AGENDA

Project No.:	2601701	**Date:**	11/3/2026
Project:	AF26-07 - General Aviation Hangar 2070	Time:	11:00am

1. Introductions:
   - Owners Representative: Joe Marana, FWACAA
   - Project Architect: Cory Miller, Jon Hubart, Elevatus
   - Civil Engineer: Keelan Rushing, ERI
   - Structural Engineer: Shane Brager, ERI
   - MEP Engineers: Brian Barkel, Nick Gilman, SCO
   - Attendees: PLEASE SIGN IN

2. Description of Project:
   - Owner Comments:
   - Architectural: New engineered metal building hangar for multi-tenant craft storage. Construction to occur land side of the fence, with fence to be moved at end of project.
   - Civil: Coordination with ongoing site development.
   - Structural:
   - Mechanical/Plumbing:
   - Electrical:

3. Instructions to Bidders:
   - Documents are available thru Eastern Engineering Plan Room.
   - Substitution Requests should be submitted during bidding.
   - Bid security: Shall not be less than five percent (5%) of the Base Bid.
   - Allowances: No allowance included in the project Bid.
   - Alternates: (1) alternate included. Lightning Protection.

4. RFI's & Addenda:
   - RFI questions shall be submitted to Jon Hubart (JHubart@Elevatus.com)
   - RFI's due November 10,2026. RFI's received after this date may not be answered.
   - Addendum NO. 01 is planned to be issued on the following date: November 5, 2026
   - Final Addendum to be issued on the following date: November 17, 2026

5. Bid Due Date:
   - Bids will be accepted until the following date and time: 11/30/2026 @ 11:00am at the office of the Airport Authority, Suite 209, 3801 W. Ferguson Road

6. Project Requirements:
   - Start Date for the project is:
     - Notice of Award: Late December 2026
     - Conditional Notice to Proceed: Anticipate on or about January 4, 2027. Begin mobilization, shop drawings, mix design and other pre-construction activities.
     - Construction Notice to Proceed: No later than March 1, 2027
   - Substantial Completion date for the project is: No later than November 1, 2027
   - Liquidated Damages
     - The Contractor shall pay Owner the sum of $2,500.00 per calendar day for work, that expires after the time specified.

7. Contract Information:
   - FAA Crane Permit submission and fees to be included in the contract.

8. Special Notes:
   - Optional tour of Hangar 2018.

Submitted by:

Jon C. Hubart, Assoc. AIA, LEAD AP BD+C, CSI, CDT
Principal, Sr. Project Manager

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cc: ☒ File: Document1
☒ Owner:
☐ Contractor:
☐ Consultant:
☐ Consultant:

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SIGN IN SHEET

Project No.: 2601701 **Date:** 11/3/2026
Project Name: AF26-07 - General Aviation Hangar 2070 Time: 11:00am
Meeting Purpose: Pre-Bid Meeting

Name	Company	Email Address	Present
Jon Hubart	Elevatus	jhubart@elevatus.com	
Joel Barker	Shawnee	JBarker@Shawnee Construction.com	✓
Austin Mason	CME	amason@cmeconstruction.com	✓
James Watson	CME	jwatson@cmeconstruction.com	✓
Jay Rhodes	Nunway	jrhodes@nunwayconstruction.com	✓
Andy Nesbitt	Nunway	anesbitt@nunwayconstruction.com	✓
John Forsythe	Novati	jforsythe@Novati Construction.com	✓
Justin Busch	Gavmons	jbusch@gavmons.net	✓
Wes Gorsuch	Nunway	wgorsuch@nunwayconstruction.com	✓
Brad Hoff	KPS Construction	bhoff@KPSconstruction.com	✓
Zach Rowlett	KPS CONSTRUCTION	zrowlett@KPSconstruction.com	✓
James Heiermann	FCI	JHeiermann@fci.construction	✓
JEANNE YOUNG	FCI	jyoung@fci.construction	✓
JEFF MAINES	WITMER CONSTRUCTION	JMaines@WITMERCONSTRUCTION.com	✓
Kevin Runkle	Witmer Construction	krunkle@witmerconstruction.com	✓
Chris Gatian	Tremec	cgatian@redoxcoatings.com	✓
Nick McAbee	Geiger Excavating	nmcabee@geigerexcavating.com	✓
Brian Barkel	SCO	bbarkel@sco-llc.com	✓
Greg Schenkel	Schenkel	gschenkel@schenkelinc.com	✓
Josh Reibs	Hagerman	jreibs@hagermangc.com	✓
ZACH STRASSER	HAGERMAN	ZSTRASSER@HAGERMANGC.com	✓

SECTION 03 35 43 - POLISHED CONCRETE

PART 1 GENERAL

1.1 SUMMARY

A. Section includes products and procedure for multiple step concrete polishing process for designated area as specified herein as indicated on drawings.

1.2 SUBMITTALS

A. Product Data: Manufacturer’s technical literature for each product indicated, specified, or required.

B. Samples: For each type of exposure, finish or color.

1.3 QUALITY ASSURANCE

A. Field Sample Panels: After approval of samples, produce field sample panels to demonstrate range of selections made under sample submittals. Produce full-scale panels to demonstrate the expected range of finish, color, and appearance variations.

1. Locate panel as indicated or, if not indicated, as directed by the Architect.

2. Maintain field sample panels during construction in an undisturbed location as standard for judging completed work.

B. Polisher Qualifications: Company experienced in performing work similar in design, products, and extent to scope of this Project; with a record of successful in-service performance; and with sufficient production capability, facilities, and personnel to product specified work.

1. Manufacturer Qualification: Approved by manufacturer to apply liquid applied products.

1.4 FIELD CONDITIONS

A. New concrete is to be placed, floated and smoothed per ACI guidelines. To attain the desired finish, the surface should be power troweled smooth until no ridges, trowel markings, or textured spots are left on the surface. Some burn marks are acceptable and favored rather than ridges. Concrete contractor, general contractor, and polishing contractor to meet for design meeting prior to pouring.

B. Damage and Stain Prevention: Take precautions to prevent damage and staining of concrete surfaces to be polished.

1. Prohibit improper application of liquid membrane forming curing compounds, vehicle's parking over the concrete surface, pipe-cutting operations over concrete surface, storage of items on concrete less than 28 days old, petroleum, oil, hydraulic fluid, and acids as these may all affect final finish of floor treatment.

C. All flooring to be polished as noted on prints. All polishing to be completed within ¼’’ of wall surface with expectation that floor base will cover this unpolished area. Any areas needed to be polished closer than ¼” to be noted. All inside corners to be completed with an oscillating multi-tool fitted with abrasives to achieve similar results in all hard to reach areas.

1.5 WARRANTY

A. Warrant that material and installation are free from defects and will perform substantially.

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B. Warranty to cover labor and material of installation for a period of two years.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURES

A. Approved Manufacturer: for products and materials specified StrongTread Polished Concrete Flooring System installed by DANCER, Fort Wayne, Indiana. Products of the manufacturer are approved provided compliance with all technical requirements as specified herein:

1. DANCER, StrongTread Polishing System, Fort Wayne, Indiana. 260-415-1951

2. Prosoco, Inc., Lawrence, Kansas

3. L & M Construction Chemicals, Permashine Polishing System, Bethany, Connecticut

2.2 PERFORMANCE REQUIREMENTS

A. Final Polishing Depth of Exposure

1. Aggregate Exposure Class B – Fine/Sand Aggregate Finish: Removes not more than 1/16th of concrete surface by grinding and polishing resulting in majority of exposure displaying fine aggregate with no, or a small amount of medium aggregate at random.

B. Level of Floor Reflection

1. Finished Gloss Level 1 – Satin – 400 Grit Finish

2.3 POLISHING EQUIPMENT

A. Field Grinding and Polishing Equipment

1. A multiple head, counter rotating, walk behind on machine, with diamond tooling affixed to the head for the purpose of grinding concrete. Excludes janitorial equipment.

2. If dry grinding, honing, or polishing, use dust extraction equipment with flow rate suitable for dust generated, with squeegee attachments.

3. If wet grinding, honing, or polishing use slurry extraction equipment suitable for slurry removal and containment prior to proper disposal.

B. Edge Grinding and Polishing Equipment: Hand-held machine which produces same results, without noticeable differences, as field grinding polishing equipment.

2.4 LIQUID FLOOR TREATMENTS

A. Penetrating Liquid Floor Treatments for Polished Concrete, Densifier: Clear, waterborne solution of inorganic silicate or siliconate materials and proprietary components; odorless, that penetrates, hardens, and is suitable for polished concrete surfaces.

1. Products: Subject to compliance with

a. DANCER, StrongTread Densifier

B. Semi-Penetrating Stain Guard: A micro film forming material which will penetrate into the polished and densifier concrete leaving a protective surface film.

1. DANCER; StrongTread Stain Guard SPF

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C. Impregnating Stain Protection: Non film forming stain and food resistant penetrating sealer designed to be applied to densified and polished concrete.

1. DANCER; StrongTread Stain Guard PSG

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify that floor surfaces are acceptable to receive the work of this section.

B. Verify that flaws in concrete have been patched and joints filled with methods and materials suitable for further finishes.

3.2 GENERAL

A. Apply materials in accordance with manufacturer's instructions.

3.3 PREPARATION

A. Verify that surface is free of previous coatings, sealers, curing compounds, water repellents, laitance, efflorescence, fats, oils, grease, wax, soluble salts, residues from cleaning agents, and other impediments to adhesion.

B. Protect adjacent non-finished areas from damage, overflow, overspray, etc., immediately remove excess material.

3.4 POLISHING

A. All flooring to be polished as indicated. All polishing to be completed within ¼” of wall surface unless noted otherwise, with the expectation that the floor base will cover this unpolished area. All hard to reach areas to be completed with an oscillating multi-tool fitted with abrasives to achieve similar results to surrounding open floor areas.

B. Machine grind floor surfaces to receive polished finishes level and smooth, hand tool around all walls, openings and obstructions as necessary to approved depth of exposure and match approved mockup.

C. Apply penetrating liquid densifier for polished concrete in polishing sequence and according to manufacturer's written instructions, allowing recommended drying time between successive coats.

D. Continue with polishing with progressively finer-grit diamond polishing pads to gloss level, to match approved mock-up and specified gloss level.

E. Apply specific stain guard treatment to floor and complete final burnishing with appropriate diamond impregnated burnishing pad or buffing pad.

F. Control and dispose of waste products produced by grinding and polishing operations.

G. Neutralize and clean polished floor surfaces.

3.5 PROTECTION

A. Covering: After completion of polishing, protect polished floors from subsequent construction activities with protective covering.

B. Maintenance: To be handled by the Owner. A concrete conditioning treatment detailed in the Maintenance Guide to be followed for best durability.

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END OF SECTION

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SECTION 07 21 13 - METAL BUILDING INSULATION SYSTEM

PART 1 GENERAL

1.1 REFERENCE STANDARDS

A. ASTM C991 - Standard Specification for Flexible Fibrous Glass Insulation for Metal Buildings; 2025a.

B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026a.

C. ASTM E136 - Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750 Degrees C; 2026.

1.2 SUMMARY

A. This Section includes an interior liner insulation system designed for a high R-value insulation system for metal buildings. The interior liner insulation system consists of the following:

1. Interior liner system fabric.
2. Gridwork of steel retainer straps.
3. Unfaced fiberglass insulation.
4. Rafter brace clips.
5. Purlin thermal blocks.
6. Wall insulation hangers.
7. Foam thermal block at girts.
8. Manufacturer to provide all accessories required for a complete installed system.

B. Other insulations are specified in the following Sections:

1. Section 07 21 00 for other types of building insulation.

C. Related Section 13 34 19 - Metal Building Systems.

1.3 SUBMITTALS

A. Submit all metal building insulation items and accessories specified in this Section as a single package as practicable. Separate submittals for each system or product may not be acceptable.

B. Do not submit SDS with the product data submittal. Architect is not responsible for review of this information. Submittals that include SDS will be returned as rejected.

C. Submit complete product data for each material proposed to be provided, including, but not limited, to the following:

1. Component specifications.
2. Samples of painted support strapping.
3. Samples of manufacturers reinforced polyethylene vapor retarder fabric.

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4. Insulation widths and thicknesses, sizes and locations and detailed installation instructions for quality assurance.

D. Submit manufacturer's certificate certifying that insulation meets or exceeds specified requirements.

1.4 QUALITY ASSURANCE

A. Provide all exposed portions of the liner system as Class A materials with a flame-spread index of 25 or less when tested in accordance with ASTM E84.

B. Mark insulation legibly with the following data:

1. Its "R" value per inch and the mean test temperature

2. The manufacturer's name

3. The insulation type and its trade name

4. Water vapor transmission (perm inch average)

5. UL rating - flame spread, fuel contribution, smoke developed

C. Base indicated R-values on insulation tested at a mean temperature of 75 degrees Fahrenheit. Determine R-values for the total insulation thickness and exclude surface resistance. Require manufacturers to certify that insulation complies with these requirements.

D. Fire-Test-Response Characteristics: Provide insulation and related materials with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency. Comply with the provisions of the latest editions for the following codes, specifications, and standards:

1. Surface-Burning Characteristics: ASTM E84.

2. Combustion Characteristics: ASTM E136.

E. Toxicity/Hazardous Materials

1. Formaldehyde: Products containing urea-formaldehyde will not be permitted

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. The following manufacturers are acceptable. Other manufacturers may be acceptable, submit product substitution request as sepecified in Division 00.

1. "Simple Saver Insulation System " by Thermal Design, Inc, Stoughton, WI

2.2 MATERIALS

A. Roof System: Comprised of a double layer insulation system installed within the roof purlin space. The second layer installed between the roof purlins and metal roof panels. Apply a thermal break where there is no existing thermal break between metal panel and metal structure. Provide a thermal block thermal break.

B. Wall System: NOT USED.

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C. Insulation: Provide fiberglass blanket or batt insulation meeting ASTM C991 Type 1, ASTM E136 and ASTM E84 or provide another insulation form recommended by the system manufacturer and approved by the Architect through the submittal process.

D. Insulation Hangers: Preformed, rigid insulation hangers for supporting insulation between wall girts. Coiled hangers are not allowed.

E. Fabric Liner: Fabric, a woven reinforced high-density polyethylene yarn coated on both sides with a continuous white polyethylene film.

1. Provide fabric in compliance with UL/ULC 723 or ASTM E84, and be Class A compliant with a low flame spread index of 25 or less based on ASTM E84 test standards.

2. Size: Material will be manufactured in large custom pieces by extrusion welding from roll goods. Pieces will be fabricated to substantially fit the large defined building areas with minimum practical sealing to be done on job site. Fold fabric shato allow for rapid pull-out on the strap support system.

3. Color: White.

F. Steel Strap System: Steel Strap providing a minimum yield high tensile strength of 100 KSI minimum. Straps are continuous without field splicing.

1. Size: Provide materials with a minimum size of 0.02 inch by 1 inch in continuous lengths.

2. Color: Primed interior with Standard White facing.

G. Fasteners: #12 x 3/4", plated self-drilling screws with sealing washers painted to match the specified color for fastening to light gauge steel (up to 12 GA purlins) or #12 x 1¼″ plated self-drilling screws with sealing washers, painted to match the specified color for heavier gauge steel (up to 3/8″ purlins/bar joist).

1. Always install two (2) fasteners in the end of each strap for safety and to withstand installation stress, and one (1) fastener at all other designated fastening points.

H. Thermal Break: Provide thermal breaks consisting of 3/16-inch-thick by 3-inch-wide white closed-cell polyethylene foam with preapplied adhesive film and peel-off backing, or approved thermal block. Provide thermal breaks where none exist and where additional depth is required.

I. Sealants and Tapes: Sealant for sealing vapor retarder laps and/or 3/4" wide by 1/32" thick extruded vapor retarder sealant.

PART 3 EXECUTION

3.1 PREPARATION

A. Prepare surfaces and areas to receive the metal building insulation system material as required by the manufacturer. Do not install materials in unsatisfactory areas or to improperly prepared surfaces.

3.2 INSTALLATION

A. When installation personnel lack experience with required installation procedures, require the installing contractor to request videotaped or on-site installation training from Thermal Design to ensure proper installation.

B. Coordinate application of insulation with the appropriate building trades involved.

C. Provide and install required adhesives or attachment means, as necessary, to hold metal building insulation materials in proper alignment and permanently attach insulation to substrates without damaging surfaces.

D. Comply with insulation manufacturer's written instructions applicable to products and application indicated.

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E. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed at any time to ice and snow.

F. Extend insulation in thickness indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

G. Piping Coordination: If piping is located on inside of insulated exterior walls or roof, coordinate location of piping to ensure that it is placed on warm side of insulation and insulation encapsulates piping.

H. Apply single layer of insulation to produce thickness indicated, unless multiple layers are otherwise shown or required to make up total thickness.

3.3 ROOF SYSTEM

A. Steel Straps: Cut to length and install painted steel straps in the pattern and spacings as shown on the project shop drawings. The straps are installed in tension and span immediately below the bottom plane of the purlins.

B. Fabric Liner: Position the pre-folded vapor retarder liner system fabric on the strap platform along one eave purlin. Clamp the two bottom corners squarely at the eave and centered on the bay. Pull the other end of the pleat-folded fabric across the building width on the strap platform but below the purlins, pausing only at the ridge to fasten the straps and fabric into position where the plane of the roof changes. Once positioned, the remaining fasteners are installed from the bottom side at each purlin/strap intersection and the edges are sealed and trimmed along the rafters. A similar method can be used starting at the ridge purlin space and pulling the fabric to each eave.

1. Buildings more than 100' wide may have field seams on the bottom of a purlin but no less than 50' apart.

2. Any field seams must be sealed with vapor retarder lap sealant.

3. Trim and seal perimeter edges of the vapor retarder fabric to the adjoining steel or fabric with vapor retarder lap sealant.

4. Mechanically fasten all edges of liner system fabric, including field seams, with steel retaining straps the full perimeter.

3.4 WALL SYSTEM (NOT USED)

3.5 CLEAN UP

A. Clean up all wrappings, scrap, and cut material waste at the end of each day’s work. Refer to Section 01 74 13 for additional requirements.

3.6 PROTECTION

A. Protect installed insulation and vapor retarders from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

END OF SECTION

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SECTION 13 34 19 - METAL BUILDING SYSTEMS

PART 1 GENERAL

1.1 REFERENCE STANDARDS

A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

B. ASTM E1592 - Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference; 2025.

C. SSPC-SP 2 - Hand Tool Cleaning; 2024.

1.2 SUMMARY

A. Structural frame system.

B. Roof panel system.

C. Wall panel system.

D. Roof and wall, faced insulation systems.

E. Gutters and downspouts.

F. Steel frames and supports for overhead doors. (This includes miscellaneous angles and supports for motor operators and equipment.)

G. Steel frames for all roof and wall openings..

H. Insulated metal curb assemblies for all rooftop equipment.

1.3 BUILDING DESCRIPTION

A. Primary Structurals: Frames shall consist of welded up plate section columns and roof beams complete with necessary splice plates for bolted field assembly. All bolts for field assembly of primary structural system shall be high-strength bolts.

1. Beam and post endwall frames shall consist of endwall corner posts, rigid frames, endwall roof beams, and endwall posts as required by design criteria.

2. Columns shall be welded tapered "H" sections.

3. Connection of all major structural members shall be made with A 325 high-tensile bolts through prepunched or predrilled holes for exact alignment.

4. All structurals shall be painted with manufacturer's standard primer with manufacturer's standard surface preparation per painting Article herein.

B. Secondary Structurals: Secondary structurals shall be purlins or girts with a red primer finish applied by a coil coater. Secondaries shall be per the paint specification in the structural section.

1.4 SUBMITTALS

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A. Product Data: Submit manufacturer's product information, specifications, and installation instructions for building components, accessories.

B. Erection Drawings: Submit complete erection drawings showing roof framing, transverse cross sections, covering and trim details, and accessory installation details to clearly indicate proper assembly of building components.

C. Dealer Certification: Submit certification that the building system supplier or metal roof system supplier is a manufacturer's authorized and franchised dealer of the system to be furnished. Certification shall state date on which authorization was granted.

D. Installer Certification: Submit certificate that the building or roof system installer has been regularly engaged in the installation of buildings systems of the same or equal construction to the system specified.

E. Samples: Submit samples, two (2) each of the following for Architect's review. Samples will be used as basis for evaluating quality of finished roof and wall systems.

1. Fasteners (including standing seam roof clips) for application of roofing, siding, and soffit panels.

F. Submit Warranties as specified herein.

G. Submit Welder's Certificates.

1.5 QUALITY ASSURANCE

A. AISC Certification

1. Building System Manufacturer shall be American Institute of Steel Construction - Category MB certified.

B. Letter of Certification

1. Certification: Submit written certification prepared and signed by a Professional Engineer, registered to practice in the State of Indiana verifying that the building system design and metal roof system design (including panels, clips, and support system components) meet indicated loading requirements and codes of authorities having jurisdiction. The certification must reference specific dead loads, live loads, snow loads, wind loads/speeds, tributary area load reductions (if applicable), concentrated loads, collateral loads, seismic loads, end use categories, governing code bodies including year, and load applications.

C. Material Testing

1. In addition to mill certifications of structural steel, the manufacturer shall provide, upon request, evidence of compliance with specification through testing independent of the manufacturer's suppliers. This quality assurance testing to include structural bolts, nuts, screw fasteners, mastics, and metal coating (primers, metallic coated products, and painted coil products).

D. Design Loads

1. Governing Design Code

a. Structural design for the building structural system shall be provided by the building manufacturer in compliance with the applicable codes of the State of Indiana.

2. Roof Snow Load

a. The Snow Load (Pf) shall be used for design if it exceeds minimum live load.

3. Minimum snow load: As indicated on Drawings.

4. Wind Load

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a. Wind Pressure Coefficients and the design pressures shall be applied per the Indiana Building Code. Wind alternate per MBMA will not be allowed.

5. Basic Wind Speed: As indicated on Drawings.

6. Exposure Factor: As indicated on Drawings.

7. Importance Factor, I: As indicated on Drawings.

8. Dead Load

a. The weight of building system construction, such as roof, framing, and covering members.

9. Collateral Load

a. Additional imposed loads required by the contract documents other than the weight of the metal building system. These added loads could include such items as sprinklers, mechanical, electrical and ceiling systems.

10. Collateral Load: As indicated on Drawings..

11. Auxiliary Loads

a. All dynamic loads required by the contract documents such as cranes and material handling systems.

12. Load Combinations

a. Load combinations used to design primary and secondary structural members shall be according to the governing code.

E. Structural Design Practice - Deflections

1. Calculations for deflections shall be done using only the bare frame method. Reductions based on engineering judgement using the assumed composite stiffness of the building envelope shall not be allowed. Drift shall follow AISC's "Serviceability Design Considerations for Low-Rise Buildings". The use of composite stiffness for deflection calculations is permitted only when actual calculations for the stiffness are included with the design for the specific project. When maximum deflections are specified, calculations shall be included in the design data.

a. Maximum drift due to wind: As indicated on Drawings.

F. Roof System Design - Roof panels shall be designed in accordance with AISI "Specifications for the Design of Light-Gage, Cold-Formed Steel Structural Members," or CAN/CSA-S136 "Cold-Formed Steel Structural Members latest edition."

G. Roof system shall comply with ASTM E1592, latest edition.

H. The wind load design shall be based upon the requirements of ASCE 7, latest edition, with values as indicated on Drawings.

1.6 WARRANTIES

A. Provide manufacturer's written weathertightness warranty for twenty (20) years from the Date of Substantial Completion against leaks in roof panels arising out of or caused by ordinary wear and tear under normal weather and atmospheric conditions. Warranty shall be signed by both the metal roofing system manufacturer and the metal roofing system contractor. Maximum liability of warranty shall be not less than $.50 per square foot of roof area.

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B. Provide manufacturer's standard written warranty for twenty (20) years from the Date of Substantial Completion against perforation of metal roof panels due to corrosion under normal weather and atmospheric conditions. Warranty shall be signed by metal roofing system manufacturer.

C. Provide manufacturer's standard paint film written warranty for twenty (20) years from Date of Substantial Completion against cracking, peeling, chalking, and fading of the coating on painted wall panels, painted roof panels and soffit panels. Warranty shall be signed by building system or roof system manufacturer and state that the coating contains Kynar 500 resin as specified.

1. Manufacturer warrants that coating shall not blister, peel crack, chip, or experience material rust through for 20 years.

D. Manufacturer's Certification: Submit written Certification by the signed manufacturer stating that the metal roof system manufacturer will provide warranties specified herein.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Products of the following manufacturers are acceptable provided compliance with technical requirements as specified herein.

1. Nucor Building Systems: www.nucorbuildingsystems.com
2. Butler Manufacturing Company: www.butlermfg.com
3. Chief Buildings: chiefbuildings.com
4. American Buildings; www.americanbuildings.com
5. Metallic Building Systems: www.metallic.com

2.2 GENERAL

A. The design of the structural system shall be a clear span rigid frame with tapered columns and roof beams; with a gable roof.

B. Actual building length shall be structural line to structural line and shall be the same as nominal - i.e., the number of bays multiplied by the length of bays.

C. Actual building width shall be structural line to structural line and shall be the nominal building width.

D. The roof shall have a slope as indicated on the Drawings.

E. All components and parts of the structural system shall be as indicated on the drawings and/or specifications. All components and parts shall be clearly marked and erection drawings shall be supplied for identification and assembly of the parts.

F. Field modification of parts shall be in accordance with the best standard procedures, require the approval of the manufacturer, and shall be the responsibility of the building erector.

G. Foundations

1. Foundations including anchor bolt embedment length shall be adequately designed by the Engineer of Record.

a. All reactions for the proper design of foundations shall be supplied by the pre-engineered building manufacturer.

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2. Anchor bolt diameter shall be as specified by the pre-engineered building manufacturer's standard anchor bolt layout drawings.

    a. Anchor bolts shall be supplied by the Contractor, not the Building Manufacturer.

2.3 STRUCTURAL STEEL DESIGN

A. Pre-engineered building manufacturer shall be responsible for all electrical and mechanical hanging loads and all other items that are supported from the pre-engineered building system. Coordinate with all other Drawings and specifications. Extra costs for this work will not be allowed.

2.4 PRIMARY FRAMING

A. Rigid Frames

1. Frames shall consist of welded-up plate section columns and roof beams complete with necessary splice plates for bolted field assembly.

    a. All base plates, cap plates, compression splice plates and stiffener plates shall be factory welded into place and have the connection holes shop fabricated.

    b. Columns and roof beams shall be fabricated complete with holes in webs and flanges for the attachment of secondary structural members and bracing except for field work as noted on manufacturer's erection drawings.

2. All bolts for field assembly of frame members shall be high strength bolts as indicated on erection drawings.

B. Endwall Structurals

1. The endwall structural columns shall be cold-formed channel members designed in accordance with the AISI Specification or welded-up plate sections designed in accordance with the AISC Specification.

2. Endwall frames shall consist of endwall corner posts, endwall roof beams and endwall posts as required by design criteria, unless indicated otherwise.

    a. All splice plates and base clips shall be shop fabricated complete with bolt connection holes. All base plates, cap plates, compression splice plates and stiffener plates shall be factory welded into place and have the connection holes shop fabricated.

    b. Beams and posts shall be shop fabricated complete with holes for the attachment of secondary structural members except for field work as noted on manufacturer's erection drawings.

3. Intermediate frames shall be substituted for endwall roof beams when specified.

    a. Necessary endwall posts and holes for connection to the intermediate frame used in the endwall shall be shop fabricated.

2.5 SECONDARY STRUCTURAL MEMBERS

A. Purlins and Girts

1. Purlins and girts shall be "Z" shaped, precision roll formed.

2. Girts shall be 8" "Z" shaped or channel sections.

3. Purlins shall be 8" deep "Z" shaped sections.

4. Outer flange of all girts shall contain factory-punched holes for panel connections.

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5. Outer flange of purlins shall contain factory-punched holes for panel connections.

B. Eave Struts

1. Eave Struts shall be factory pre-punched 8" deep "C" sections.

C. Bracing

1. Bracing shall be located as indicated on drawings, or as required by structural loading.

2. Diagonal bracing shall be rods attached to columns and roof beams in bays indicated on the drawings.

3. Flange braces, purlin braces, etc., when required, shall be cold formed and installed as indicated on drawings.

2.6 WELDING

A. Welding procedure and operator qualifications and welding quality standards shall be in accordance with the American Welding Society structural welding code. Inspection other than visual inspection as defined by AWS paragraph 8.15.1, shall be identified and negotiated prior to bidding. Certification of welder qualification shall be supplied when requested.

2.7 STRUCTURAL PAINTING

A. General

1. All steel shall be prime painted as temporary protection against ordinary atmospheric conditions. Subsequent finish, painting, if required, shall be performed in the field by others.

2. Prior to painting all steel shall be cleaned of loose rust, loose mill scale, dirt and other foreign material. Unless otherwise specified, the fabricator shall not sand blast, flame clean or pickle prior to painting.

3. Factory cover all steel with one coat of red oxide primer paint formulated to equal or exceed the performance requirements of Federal Specification TT-P-636D, TT-P-664C, and SSPC Paint-25.

B. Primary Frames

1. Clean all steel per SSPC-SP 2.

2. Apply one coat of water reducible alkyd primer by spray or dip method to a minimum coating thickness of 1.0 mil.

C. Secondary Structurals

1. Clean all steel per SSPC-SP8.

2. Apply one coat of coil applied polyester primer to a minimum coating thickness of 0.5 mil. (Purlins and girts).

2.8 ROOF SYSTEM

A. Basis of Design: Roof panels shall be roll-formed "MR-24" panels as manufactured by Butler Manufacturing Company; 24" wide, with 2 major corrugations, 2" high (2-3/4" including seam) 24" on center. The flat of the panel shall contain cross flutes 6" on center perpendicular to the major corrugations the entire length of the panel to reduce wind noise and improve walkability.

B. Panel material shall be 24 gauge galvanized (G-90 coating), per ASTM specification A-653 (G-90), or 24 gauge Galvalume panels. Manufacturer warrants that coating shall not blister, peel, crack, chip, or experience material rust through for 20 years. Panels shall be painted with Kynar 500 coating system.

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1. Roof panel color shall be as selected by the Architect.

C. Panels shall be factory prepunched at panel end to match prepunched holes in the eave structural member. Panel end splices shall be factory prepunched and prenotched. Panel end splices shall be floating and allow the roof panels to expand and contract with roof panel temperature changes.

D. Ridge assembly shall be designed to allow roof panels to move lengthwise with expansion/contraction as the roof panel temperature changes. Parts shall be factory prepunched for correct field assembly. Panel closures and interior reinforcing straps shall be installed to seal the panel ends at the ridge. The attachment fasteners shall not be exposed on the weather side. A lockseam plug shall be used to seal the lockseam portion of the panel. A hi-tensile steel ridge cover shall span from panel closure to panel closure and flex as the roof system expands and contracts.

E. All endwall trim and roof transition flashings shall allow the roof panel to move relative to the wall panels and/or the parapets as the roof expands and contracts with temperature changes.

F. The roof panel shall not be considered to be a safe work platform until completely secured to the structural system. Therefore, walkboards or other safety equipment as required by safety standards shall be provided by the erecting contractor to provide worker safety during panel installation.

G. Provision for thermal expansion movement of the roof panels shall be accomplished by the use of clips with a moveable tab. Stainless steel tabs shall be factory centered on the roof clip when installed to assure full movement in either direction. A force of no more than 8 pounds shall be required to initiate tab movement. Each clip shall accommodate a minimum of 1.25" in either direction.

H. The roof shall provide for thermal expansion/contraction without detrimental effect of the roof panel when there is a +100 degree F. temperature difference between the inside structural framework of the building and the temperature of the roof panels.

I. Roof panels shall be continuous from eave to ridge; end-lapping roof panels will not be allowed.

2.9 WALL SYSTEM

A. Basis of Design: "Shadowall" by Butler Manufacturing Company.

B. Panels shall be 36 inches wide with semi-concealed fasteners.

C. Panels shall be one piece from base to building eave.

D. The upper end of panels shall be fabricated with a square cut and the bottom edge shall be square cut.

E. Wall panels shall be factory prepunched at panels ends and shall match prepunched holes in structural for proper alignment.

F. Panel design shall be in accordance with AISI "Specifications for the Design of Light-Gage, Cold-Formed Steel Structural Members", and in accordance with sound engineering methods and practices.

G. Panel material shall be 24 gauge, G-90 galvanized steel, per ASTM specification A653, and painted with exterior colors of Kynar 500, Butler-Cote 500 FP finish system; or 24 gauge galvalume with Kynar 500 coating.

1. Wall panels color shall be as selected by the Architect.

H. Panel sidelaps shall be minimum one full corrugation.

I. Panels shall be sealed at the base with foam or rubber closures.

J. Liner Panels Basis-of-Design: Mod 36 Liner Panel by Butler Manufacturing Company.

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1. Painted Panel Finish:

   a. Exposed Side: 0.15-mil min primer and 0.70-mil minimum interior white polyester paint.

   b. Unexposed Side: 0.1-mil minimum primer and 0.40 minimum polyester backer

2. Panel Dimensions: Nominal 36 inches wide with corrugations 1/2 inches high, 3 inches on center.

3. Factory cut panels to lengths required.

2.10 GUTTERS, DOWNSPOUTS, TRIM, FLASHINGS

A. All exterior gutters, downspouts, trim, and flashings shall be the same finish as the wall panels specified above (Kynar 500).

B. Flashings, trim, closures, and similar items shall be as detailed on Drawings and supplied by the manufacturer of the wall panel.

C. Gutters, downspouts, trim and flashings shall be minimum 24 gauge (G-90) galvanized steel.

D. Pre-engineered building manufacturers shall size downspouts in accordance with State and local codes.

E. Provide precast concrete splashblocks for downspouts where shown on Drawings. (For use with downspouts not tied into an underground storm sewer system, whether or not shown on the Drawings.) Precast concrete splashblocks shall be 3000 psi concrete, minimum 18² wide by 24² long.

2.11 INSULATION

A. Wall insulation as follows:

1. Wall insulation shall be 4 inches thick.

B. Wall insulation shall be WMP-30 with a white polypropylene film, a blend of fiberglass and polyester yarn reinforcement and 11# Kraft paper. The facing shall be adhered to Owens-Corning Fiberglas Certified R (NAIMA 202) fiberglass insulation blanket. The assembly of blanket and facing shall have a flame spread rating of less than 25 and a U.L. label furnished upon request.

2.12 MECHANICAL EQUIPMENT CURBS

A. Provide and install all mechanical equipment curbs for use on the pre-engineered buildings for all rooftop equipment and roof penetrating equipment for exhaust fans and relief vents, sized in accordance with mechanical requirements.

B. Curbs shall be prefabricated 18 gauge or heavier galvanized steel with 70% Kynar resin finish to match roof panels. Provide factory installed pressure treated wood nailers, and insulated with 1 ½" thick, 3 pound density rigid insulation.

C. Curbs shall be minimum 12" height at low end of curbs. Curbs shall be flat on top and pitched on the bottom to match the roof pitch. Curbs shall be profiled and seamed to match the roof panels.

D. Coordinate with Mechanical Contractor during shop drawing submittal process.

PART 3 EXECUTION

3.1 INSTALLATION

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A. Install pre-engineered building, components, accessories, gutters and downspouts, roof panels, wall panels, insulation, and all related items in strict accordance with reviewed shop drawings and manufacturers written installation instructions.

3.2 EXAMINATION

A. Verify that foundation, floor slab, mechanical and electrical utilities, and placed anchors are in correct position.

3.3 ERECTION - FRAMING

A. Erect framing in accordance with AISC Specification.

B. Provide for erection and wind loads. Provide temporary bracing to maintain structure plumb and in alignment until completion of erection and installation of permanent bracing.

C. Do not field cut or alter structural members without written approval of Architect.

D. After erection, prime welds, abrasions, and surfaces not shop primed.

E. All steel shall be clean and free of mud, dirt, and debris at completion of erection.

F. Install in accordance with manufacturer's instructions.

G. Exercise care when cutting prefinished material to ensure cuttings do not remain on finish surface.

H. Fasten cladding system to structural supports, aligned level and plumb.

I. Locate end laps over supports. End laps minimum 2 inches. Place side laps over bearing.

J. Provide expansion joints where required by the manufacturer and as may be indicated.

K. Use concealed fasteners to greatest extend practicable.

L. Install insulation and vapor retarder utilizing manufacturers recommendations for attachment.

M. Install sealant and gaskets to prevent weather penetration.

N. Rigidly support and secure components. Joint lengths with formed seams sealed watertight. Flash and seal gutters to downspouts.

O. Apply bituminous paint on surfaces in contact with cementitious materials.

P. Slope gutters minimum 1/4 inch /10 ft.

Q. Connect downspouts to storm sewer system where indicated.

R. Install splash blocks under each downspout that empties on grade.

S. Downspouts shall extend away from building at grade and splashblocks a minimum of 24".

3.4 INSTALLATION - ACCESSORIES

A. Seal wall and roof accessories watertight and weather tight with sealant in accordance with Section 07 92 00 and as recommended by the pre-engineered building manufacturer.

END OF SECTION

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SECTION 32 13 13 – PORTLAND CEMENT CONCRETE PAVEMENT

PART 1 - GENERAL

1.1 WORK INCLUDES:

A. Concrete paving for drives.

B. Sealants for construction joints.

C. Sealants for expansion joints.

1.2 REFERENCE STANDARDS AND SPECIFICATIONS:

A. Site Earthwork specification for subgrade and aggregate base requirements.

B. Terms and conditions of construction as required by the Contractor’s permit with the controlling agency. When conditions of the permit conflict with proposed work, the contractor shall notify the Engineer for correction prior to installation. Any non-compliant work performed by the Contractor shall be at the Contractor’s expense.

C. ACI Publications: Comply with ACI 301, "Specification for Structural Concrete," unless modified by the requirements of the Contract Documents.

D. CRSI's "Manual of Standard Practice"

E. CRSI's "Placing Reinforcing Bars"

F. Control of Site Work specification.

1.3 DELIVERABLES:

A. Record Drawings: Include size, material, depth of cover, location, and elevation of all improvements within the contract documents. Include details of underground structures and connections.

B. Material certificates for the pavement design mix according to ACI 211.1 and ACI 301.

C. Passing test reports.

D. Manufacturer Qualifications: Manufacturer of ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.

E. Submittal for hot applied joint sealant.

F. Submittal for cold applied joint sealant.

1.4 CONTROL OF WORK:

A. Schedule tests and inspections with the Owner's Geotechnical Engineer and as required under the conditions of the permit. The finished paving will not be accepted or considered complete until all improvements pass the testing requirements of these specifications and the permitting authority.

PART 2 - PRODUCTS

2.1 AGGREGATE BASE:

A. See the site drawings for material requirements. See the Earthwork Specification for subgrade compaction and installation requirements.

2.2 CONCRETE MATERIALS:

A. Provide ready mixed concrete according to ASTM C 94 with the following properties: 4000 psi at 28 day compressive strength, 0.45 maximum water to cement ratio, and a 4" maximum slump limit. Provide admixtures to establish an air content of 4.5 to 7.5% according to ASTM C 260

B. Portland Cement: ASTM C 150, Type I or II. Aggregate: ASTM C 33, uniformly graded, from a single source.

C. Water: ASTM C 94

D. Provide a medium textured broom finish on all surfaces unless noted otherwise on the plans.

E. Allowable Water-Reducing Admixture according to ASTM C 494, Type A

F. General: Admixtures certified by manufacturer to contain not more than 0.1 percent water-soluble chloride ions by mass of cement and to be compatible with other admixtures

G. Bonding Agent: ASTM C 1059, Type II, non-redispersible, acrylic emulsion or styrene butadiene.

2.3 CONSTRUCTION JOINTS:

A. Place joints at the end of concrete pouring operations if more than 30 minutes has elapsed.

B. Provide joint filler strips according to ASTM D 1751 or ASTM D 1752 and type SL Silicone Sealant complying with ASTM D 5893 for Type SL. Install per the manufacturer's recommendations and according to ASTM C 1193.

C. Continue reinforcing steel through the construction joint and lap bars of a sufficient development length to assure a good bond with future concrete placement.

2.4 EXPANSION JOINTS:

A. Place joints at the interface between new concrete pavement and: concrete curbs, site structures, building stoops, and at maximum intervals of 50 feet.

B. Joint sealant shall be Type “II” and conform to ASTM D7116 in accordance with FAA Item P-605. Backer rod shall conform to ASTM D5249, sized 25 percent (plus or minus 5 percent) larger than the nominal joint width.

C. Do not continue reinforcing steel through the expansion joint.

Add. 01

2.5 CONTRACTION JOINTS:

A. Sawcut or hand tool contraction joints in the locations identified on the site drawings. The minimum depth of all joints shall be 25% of the total pavement thickness. Tooled joints shall be a minimum of 1/8” wide, with ¼” radii. Sawcut joints shall be a minimum of 1/8”. Joint sealants are not required at contraction joint locations.

2.6 CURING MATERIALS:

A. Provide curing materials after initial placement of concrete. Acceptable methods include: Polyethylene sheeting according to ASTM C 171, burlap cloth according to AASHTO M 182, Class 2, and clear solvent according to ASTM C 309, Type 1, Class B.

2.7 CONCRETE PLACEMENT:

A. Proof-roll prepared subbase surface to check for unstable areas and verify need for additional compaction.

B. Remove snow, ice, or frost from subbase surface and reinforcement before placing concrete. Do not place concrete on frozen surfaces. Do not place concrete when the surface temperature is below 40 deg F.

C. Install clean forms and apply a release agent prior to concrete placement. Use flexible forms for radii that are less than 100’. Allow forms to set for a minimum of 24 hrs after concrete placement before removal.

D. Moisten subbase to provide a uniform dampened condition at the time concrete is placed. Do not place concrete around manholes or other structures until they are at the required finish elevation and alignment.

E. Comply with requirements and with recommendations in ACI 304R for measuring, mixing, transporting, and placing concrete.

F. Do not add water to concrete during delivery, at Project site, or during placement.

G. Consolidate concrete by mechanical vibrating equipment supplemented by hand-spading, rodding, or tamping. Use equipment and procedures to consolidate concrete according to recommendations in ACI 309R.

H. Cold-Weather Placement: Comply with ACI 306 R. When air temperature has fallen to or is expected to fall below 40 deg F, uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 deg F and not more than 80 deg F at point of placement. Do not use frozen materials or materials containing ice or snow. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators, unless otherwise specified and approved in mix designs.

I. Hot-Weather Placement: Place concrete according to recommendations in ACI 305R. Cool ingredients before mixing to maintain concrete temperature at time of placement below 90 deg F.

J. Tolerance: Gap below 10-foot long, unleveled straightedge not to exceed 1/8 inch. Comply with tolerances of ACI 117 and as follows: Thickness: Plus 3/8 inch, minus 1/4 inch. Elevation: 1/4 inch.

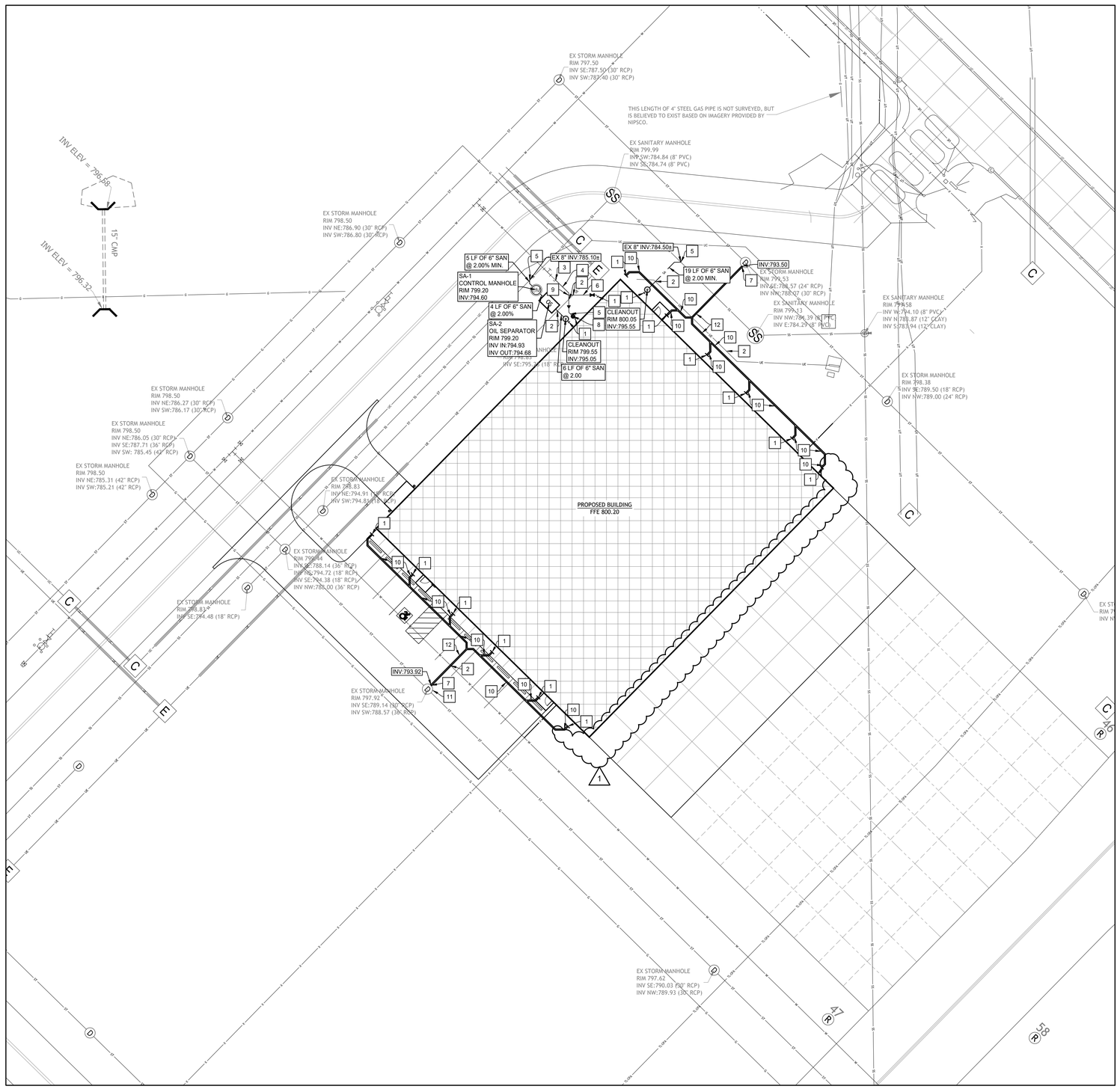
2.8 TESTING:

A. Reports of compressive-strength tests shall include: concrete type and class, location of concrete batch in pavement, design compressive strength at 28 days, concrete mix proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.

B. Additional Tests: Testing agency shall make additional tests of the concrete when test results indicate slump, air entrainment, concrete strengths, or other requirements have not been met, as directed by Architect. Testing agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42, or by other methods as directed.

C. Frequency of testing: Coordinate with the Geotechnical Engineer to perform a minimum of one test per load delivered to the site.

END OF SECTION 32 13 13



SITE UTILITY PLAN

SCALE: 1" = 20'

NORTH

NOTE: PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

NOTE: ADJUST ALL EXISTING MANHOLES, VALVES, HYDRANTS AND HANDHOLES TO PROPOSED GRADES.

NOTE: CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED BY STATE AND LOCAL AUTHORITIES.

NOTE: CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY OF FINAL UTILITIES. PROVIDE COPY TO LOCAL AUTHORITIES AS REQUIRED.

STORM SEWER NOTES:

1. MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CITY OF FORT WAYNE STANDARDS AND SPECIFICATIONS.
2. ALL PIPE 12" AND SMALLER SHALL BE SDR 35 PVC, OR ADS N-12 HDPE UNLESS OTHERWISE NOTED. ALL PIPE LARGER THAN 12" SHALL BE ADS N-12 HDPE OR C76 CL-111 RCP UNLESS OTHERWISE NOTED. ALL PIPE SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS AND PIPE TRENCH DETAIL.
3. MAINTAIN 10'-0" MINIMUM HORIZONTAL AND 18" MINIMUM VERTICAL SEPARATION BETWEEN ALL SEWER PIPING AND POTABLE WATER PIPING. WHEN MINIMUM TOLERANCES CANT BE MAINTAINED, USE WATERWORKS GRADE PIPE AND FITTINGS OF MATERIAL SELECTED.
4. COORDINATE LOCATIONS FOR DOWNSPOUTS WITH BUILDING DRAWINGS. ASSURE ALL REQUIRED FITTINGS ARE INSTALLED ON THE MAIN LINE PRIOR TO BACKFILLING. INCLUDE ADAPTER FITTING FOR DOWNSPOUTS.
5. ALL UNDERGROUND PIPING FOR DOWNSPOUT COLLECTION SYSTEM SHALL BE 6" SDR 35 PVC STORM @ 1.00% MIN. SLOPE UNLESS NOTED OTHERWISE.

UTILITY NOTES:

1. COORDINATE CONNECTION WITH THE BUILDING DRAWINGS.
2. PROTECT EXISTING UTILITY DURING CONSTRUCTION. PRIOR TO CONSTRUCTION POTHOLE AND FIELD VERIFY EXISTING UTILITY AND ASSURE CONFLICT DOES NOT EXIST. CONTACT ENGINEER IF PROPOSED CONSTRUCTION CONFLICTS WITH EXISTING UTILITY.
3. CONNECT TO 8" WATER SERVICE STUB PROVIDED BY THE "EXTEND TAXIWAY G AND CONSTRUCT TAXILANE K1" PROJECT.
4. 8" WATER LINE.
5. SANITARY SEWER TAP PER DETAIL #10/C-600.
6. 2" WATER LINE.
7. CORE HOLE IN EXISTING STRUCTURE FOR PROPOSED SEWER CONNECTION. PROVIDE WATERTIGHT CONNECTION.
8. 6" GATE VALVE, VALVE BOX, AND POST INDICATOR WITH STATUS SWITCH. SEE FIRE PROTECTION FOR CONNECTION TO CONTROL SYSTEM.
9. 2" CORPORATION STOP, 2" CURB STOP AND BOX.
10. 6" STORM DRAIN @ MINIMUM 1.00%. CONNECT TO DOWNSPOUTS. MAINTAIN 3' MINIMUM COVER. SEE BUILDING PLANS.
11. ADJUST CASTING TO GRADE. SEE GRADING PLAN.
12. 8" STORM DRAIN @ MINIMUM 1.00%. MAINTAIN 3' MINIMUM COVER.

PROPOSED LEGEND:

⊙	SANITARY CLEANOUT	═══	STORM SEWER
(CM)	CONTROL MANHOLE	— SA — SA — SA — SA —	SANITARY SEWER
OS	OIL SEPARATOR	— W — W — W — W —	WATER LINE
⋈	GATE VALVE		
⊗	PIV		

CITY OF FORT WAYNE WATER MAIN NOTES:

1. WATER TO BE SUPPLIED BY THE CITY OF FORT WAYNE WATER UTILITY.
2. WATER MAINS SHALL BE INSTALLED ACCORDING TO FORT WAYNE WATER UTILITY "DETAILED SPECIFICATIONS AND CONDITIONS FOR THE INSTALLATION OF TRANSMISSION AND DISTRIBUTION MAINS: CONSTRUCTION STANDARDS AND WATER MAIN & WATER SERVICE MATERIALS STANDARDS" LATEST REVISION.
3. ALL PERMANENT AND TEMPORARY EASEMENTS AND PERMITS, INCLUDING STREET AND ROAD CUT PERMITS, NECESSARY FOR THE CONSTRUCTION OF THESE WATER MAINS SHALL BE SECURED AND PAID FOR BY THE DEVELOPER AND TWO COPIES FURNISHED TO THE WATER ENGINEERING DEPARTMENT BEFORE CONSTRUCTION STARTS.
4. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO OBTAIN ALL PERMITS NECESSARY TO EITHER CUT OR BORE UNDER THE PUBLIC WAY FROM THE JURISDICTION HAVING CONTROL OVER THE PUBLIC WAY. APPROVAL OF PLANS BY THE WATER ENGINEERING DEPARTMENT DOES NOT WARRANT THE ISSUANCE OF THE PERMIT BY THE CONTROLLING AGENCY.
5. THE CONTRACTOR SHALL NOTIFY ENGINEERING SUPPORT SERVICES AT LEAST 48 HOURS BEFORE STARTING CONSTRUCTION TO ARRANGE FOR INSPECTION AND SHUT DOWN OF EXISTING WATER MAINS WHERE REQUIRED.
6. WHERE SANITARY SEWER AND WATER MAIN CROSS, ONE FULL LENGTH OF WATER MAIN SHOULD BE CENTERED OVER THE SANITARY SEWER, AND THE VERTICAL DISTANCE TO BE A MINIMUM OF 18 INCHES. WHERE WATER LINES AND SEWER CROSS AND THE CLEARANCE CANNOT BE MAINTAINED, THE SEWER MUST BE CONSTRUCTED OF WATERWORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OF SDR 21 PVC PRESSURE SEWER PIPE WITH COMPRESSION FITTINGS WITHIN TEN FEET OF THE WATER LINE.
7. WHERE A WATER MAIN CROSSES UNDER A SEWER, THE MAIN SHALL USE 22° ELBOWS TO MINIMIZE THE LENGTH OF WATER MAIN INSTALLED IN EXCESS OF 5.0 FEET COVER.
8. THE MINIMUM HORIZONTAL DISTANCE BETWEEN THE WATER MAIN AND THE STORM OR SANITARY SEWER MAIN IS 10.0 FEET.
9. ALL WATER LINES SHALL BE INSTALLED USING CLASS B BEDDING, IN ACCORDANCE TO ASTM D-698 FOR RIGID PIPE CLASS "F" BEDDING TO BE USED FOR ALL FLEXIBLE PIPE.
10. ALL WATER TRENCHES WITHIN THE ROAD RIGHT-OF-WAY OR UNDER PARKING LOTS, DRIVES, SIDEWALKS AND EXISTING PIPE SHALL BE BACKFILLED WITH #53 OR #73 AGGREGATE COMPACTED TO 95% MODIFIED PROCTOR TEST DENSITY.
11. ALL WATER LINES 3" OR LARGER MUST BE DISINFECTED ACCORDING TO ANSI/AWWA C651-92.
12. FOR WATER MAIN SMALLER THAN 16", RESTRAINT WILL BE REQUIRED FOR ALL TEES, CROSSES, BENDS, AND ELBOWS EXCEEDING 11¼°.
13. 4" OR LARGER WATER SERVICES TO BE DUCTILE IRON PRESSURE CLASS 350 OR DR 18 C900 PVC. WATER SERVICES BETWEEN 1" AND 2" DIAMETER SHALL BE TYPE 'K' COPPER OR HDPE SDR 9 PRESSURE CLASS 200 COPPER TUBE SIZE (CTS).
14. HDPE PIPING SHALL UTILIZE SEAMLESS STAINLESS STEEL TYPE 304 STIFFENING INSERTS DESIGNED FOR USE WITH BRASS MECHANICAL COMPRESSION FITTINGS.
15. HDPE PIPING TO BE BEDDED IN INDOT #5 OR #8 GRANULAR MATERIAL AND FREE FROM ROCKS, SHARP OBJECTS OR DEBRIS PER ASTM D2774.
16. ALL PIPE JOINTS SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATIONS OF A21.11 (AWWA C-111).
17. GATE VALVES SHALL BE INSTALLED ON ALL WATER MAIN 12" AND SMALLER. ALL GATE VALVES SHALL BE CAST IRON BODY MADE IN ACCORDANCE WITH AWWA C-500 FOR DOUBLE SEATED VALVES, AND C-509 FOR RESILIENT SEATED VALVES AND ARE TO BE RIGHT HAND (CLOCKWISE) OPENING.
18. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION FOR ONE YEAR FROM THE DATE THAT THE WATER LINES ARE TRANSMITTED TO THE UTILITY.
19. PLANS WERE PREPARED IN COMPLIANCE WITH STATE TECHNICAL STANDARDS, PER 327 IAC 8-3.2.
20. ALL MATERIALS ARE CERTIFIED IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) NATIONAL SANITATION FOUNDATION (NSF) INTERNATIONAL STANDARD 61.
21. ALL WATER MAINS AND THEIR ACCESSORIES SHALL BE INSTALLED AND PRESSURE AND LEAK TESTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF AWWA STANDARD C600-93, C602-89, C603-90, C605-94, OF C606-87.
22. ALL WORK TO CONFORM TO STATE AND LOCAL PLUMBING BACKFLOW PREVENTION CODES AND THE SPECIFICATIONS OF THE FORT WAYNE WATER UTILITY. PER STATE CODE, BACKFLOW DEVICES ARE TO BE TESTED UPON INSTALLATION AND THEN PERIODICALLY THEREAFTER. SUBMIT COPIES OF TESTS TO THE WATER ENGINEERING DEPARTMENT.
23. VACUUM BREAKERS MUST BE INSTALLED ON ALL EXISTING OR PROPOSED HOSE BIBBS, MOP/SERVICE SINKS, WALL/YARD HYDRANTS.
24. ALL PIPE SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS AND PIPE TRENCH DETAIL.

CITY OF FORT WAYNE SANITARY SEWER NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL MEET THE CITY OF FORT WAYNE DESIGN STANDARDS MANUAL AND TITLE 327 OF THE INDIANA ADMINISTRATION CODE, ARTICLE 3 (STATE CODE), LATEST VERSION.
2. ALL PERMITS REQUIRED FOR THE EXECUTION OF THE WORK SHALL BE OBTAINED AND ALL APPLICABLE FEES PAID FOR BY THE CONTRACTOR OR DEVELOPER TO CITY UTILITIES PRIOR TO COMMENCEMENT OF WORK UNLESS OTHERWISE APPROVED BY CITY UTILITIES.
3. AS-BUILT DRAWINGS (1 SET) TO BE PROVIDED TO CITY OF FORT WAYNE UPON COMPLETION OF SANITARY SEWER.
4. INSPECTION BY CITY REPRESENTATIVE MUST BE PROVIDED FOR ALL SEWER CONSTRUCTION AND PAID FOR BY THE CONTRACTOR OR DEVELOPER. CONTRACTOR MUST NOTIFY CITY UTILITIES 48 HOURS PRIOR TO START OF CONSTRUCTION.
5. PIPE BEDDING - CLASS "F" FOR FLEXIBLE PIPE SHALL BE BEDDED IN GRANULAR FILL, WHICH SHALL BE CARRIED 12 INCHES ABOVE THE TOP OF THE PIPE. ALL BEDDING, HAUNCHING AND INITIAL BACKFILL SHALL BE CRUSHED AGGREGATE INDOT #5, #8 OR #9.
6. ALL SEWER TRENCHES WITHIN THE ROAD RIGHT-OF-WAY, UNDER PARKING LOTS, DRIVES, SIDEWALKS AND EXISTING PIPES SHALL BE BACKFILLED WITH INDOT #53, #73 CRUSHED STONE, COMPACTED TO 95% MODIFIED PROCTOR DENSITY; UNLESS OTHERWISE NOTED.
7. ALL GRAVITY SANITARY SEWER MAINS TO BE PVC CONFORMING TO ASTM D3034; UNLESS NOTED OTHERWISE.
8. ALL SANITARY SEWER JOINTS SHALL BE GASKETED "PUSH ON TYPE" WITH A CONFINED ELASTOMETRIC SEAL (RUBBER GASKET). JOINT TO CONFORM WITH ASTM D3212 AND SEAL TO CONFORM WITH JOINTS ASTM F477.
9. ALL MANHOLES TO BE 48-INCH DIAMETER PRECAST REINFORCED CONCRETE, UNLESS NOTED OTHERWISE.
10. ALL PRE-CAST CONCRETE MANHOLE COMPONENTS (CONES, ADJUSTING RINGS, SECTIONS, ETC.) SHALL CONFORM TO ASTM SPECIFICATION C478.
11. ALL MANHOLE FRAMES TO BE NEENAH R-1772 WITH "SANITARY" LETTERED, SOLID LID OR EAST JORDAN 1022Z1 WITH 1020AHDGS "SANITARY SEWER" LETTERED, SOLID LID, UNLESS OTHERWISE NOTED.
12. SEWER TO WATER MAIN SEPARATION DISTANCES SHALL CONFORM TO THE RECOMMENDED STANDARDS FOR 327 IAC 3-6-9, LATEST VERSION. CROSSINGS: SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. WHEN IT IS IMPOSSIBLE TO OBTAIN THE PROPER HORIZONTAL AND VERTICAL SEPARATION ONE OF THE FOLLOWING METHODS MUST BE SPECIFIED:
A) THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE, AND SHALL BE PRESSURE TESTED AT 150 PSI TO ASSURE WATERTIGHTNESS.
B) EITHER THE WATER MAIN OR THE SEWER LINE MAY BE ENCASED IN A WATERTIGHT CARRIER PIPE WHICH EXTENDS 10 FEET ON BOTH SIDES OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE OF THE MATERIALS APPROVED BY CITY UTILITIES FOR USE OF WATER MAIN CONSTRUCTION.
HORIZONTAL AND VERTICAL SEPARATION: A 10 FOOT HORIZONTAL DISTANCE EDGE TO EDGE SHALL BE MAINTAINED BETWEEN SANITARY SEWER AND EXISTING OR PROPOSED WATER MAIN. FOR GRAVITY SEWERS WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10 FOOT SEPARATION A DEVIATION MAY BE ALLOWED ON A CASE-BY-CASE BASIS. SUCH DEVIATION MAY ALLOW THE INSTALLATION OF THE GRAVITY SEWER CLOSER TO A WATER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE GRAVITY SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION FOR GRAVITY SEWERS, BOTH THE WATER MAIN AND GRAVITY SEWER MUST BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT PIPE COMPLYING WITH CITY UTILITIES DESIGN STANDARDS AND BE PRESSURE TESTED TO 150 PSI TO ASSURE WATERTIGHTNESS.
13. ANY EXISTING PIPE OR TILE(S), WHICH ARE CUT OR DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED WITH EQUAL OR BETTER MATERIALS AND CONSTRUCTION METHODS.
14. ANY PAVEMENT OR IMPROVED ROAD SURFACE OR SIDEWALK CUT DURING CONSTRUCTION SHALL BE REPLACED WITH EQUAL OR BETTER MATERIALS AND CONSTRUCTION METHODS.
15. ALL GRASSED AREAS WHICH ARE DISTURBED DURING THE COURSE OF CONSTRUCTION, SHALL BE SEEDED WITH COMPARABLE GRASS SEED AND COVERED WITH STRAW. WATER SHALL BE APPLIED AS REQUIRED TO ASSURE GROWTH.
16. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REGRADED TO THE ORIGINAL CONTOURS PRIOR TO COMPLETION OF THE PROJECT.
17. VERTICAL DEFLECTION TEST (MANDREL TEST) SHALL BE PERFORMED ON ALL FLEXIBLE PIPE AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A VERTICAL DEFLECTION OF 5% ACTUAL INSIDE DIAMETER (AS LISTED IN ASTM STANDARDS). DEFLECTION TEST RESULTS SHALL BE SUBMITTED WITH THE INFILTRATION/EXFILTRATION TEST RESULTS. THE FOLLOWING ARE CONSIDERED FLEXIBLE PIPES: DIP, PVC, HDPE, PP AND FRP.
18. ALL MANHOLES SHALL BE AIR TESTED IN ACCORDANCE WITH ASTM C1244, STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY NEGATIVE AIR PRESSURE (VACUUM TEST).
19. LOW PRESSURE AIR TEST FOR GRAVITY SEWER SHALL CONFORM TO ASTM F1417, STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR, FOR PLASTIC PIPE.

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4175 New Vision Drive, Fort Wayne, IN 46845
Ph: (260) 490-1025 www.eri.consulting

SEAL
10-21-2026
MARK D. REINHARD
REGISTERED
No. 10911278
STATE OF INDIANA
PROFESSIONAL ENGINEER

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

Fort Wayne International Airport
General Aviation Hangar 2070

FWACAA Project No. AF26-07
10896 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE
1	ADD. 01	11/06/2026

PROJECT NO. 2601701
ISSUE DATE 10/21/2026
SUBMITTAL Bidding and Construction

Site Utility Plan

C-400

November 3, 2026 10:20 AM
S:\Projects\Projects (6000-6999)\Projects (6950-6999)\6983-FW Airport Hangar 2026 - Site\Drawing\6983-C4.0 Site Utility.dwg

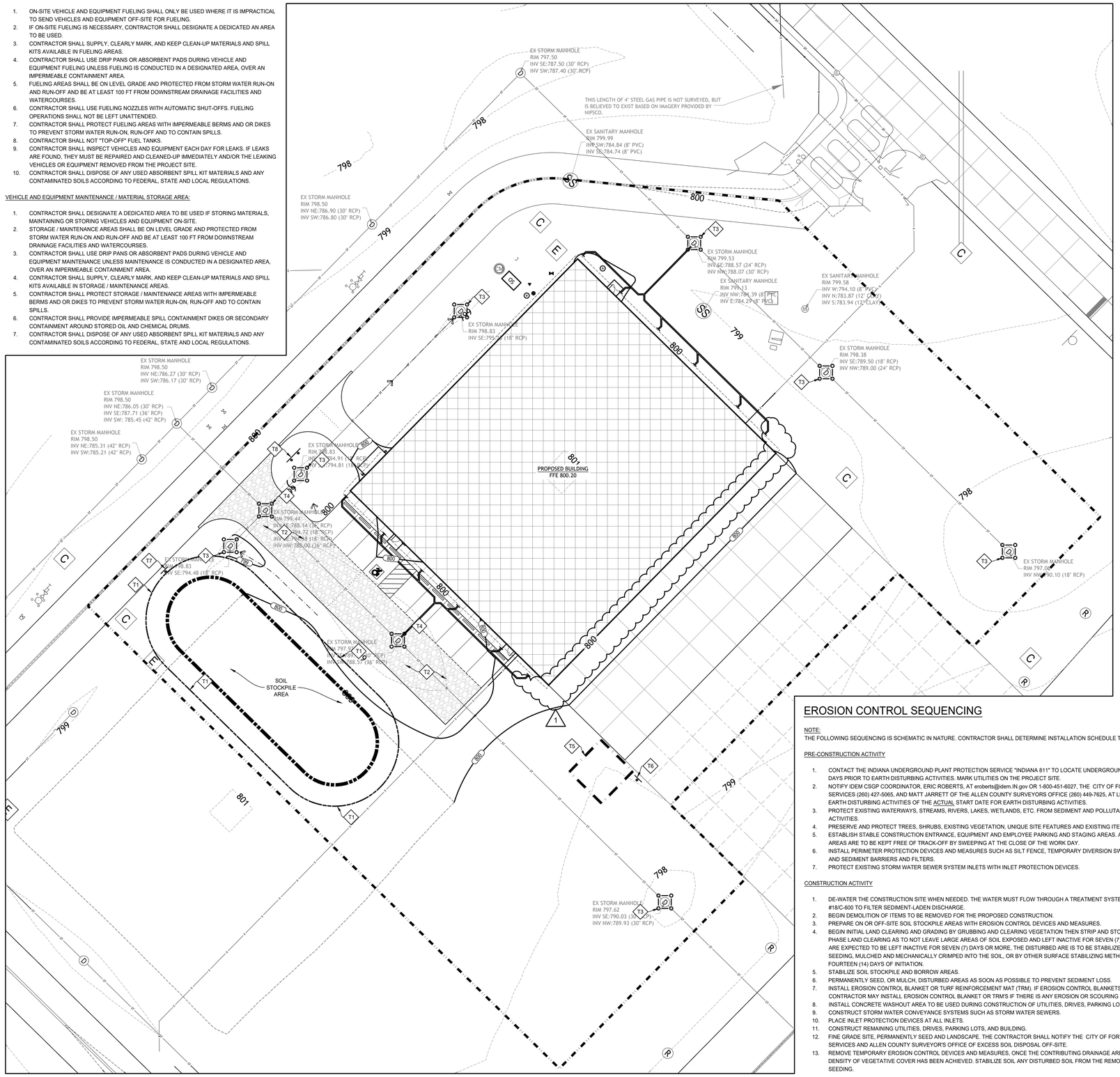
FUELING AREA AND VEHICLE AND EQUIPMENT MAINTENANCE / MATERIAL STORAGE NOTE:

FUELING AREA:

1. ON-SITE VEHICLE AND EQUIPMENT FUELING SHALL ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFF-SITE FOR FUELING.
2. IF ON-SITE FUELING IS NECESSARY, CONTRACTOR SHALL DESIGNATE A DEDICATED AN AREA TO BE USED.
3. CONTRACTOR SHALL SUPPLY, CLEARLY MARK, AND KEEP CLEAN-UP MATERIALS AND SPILL KITS AVAILABLE IN FUELING AREAS.
4. CONTRACTOR SHALL USE DRIP PANS OR ABSORBENT PADS DURING VEHICLE AND EQUIPMENT FUELING UNLESS FUELING IS CONDUCTED IN A DESIGNATED AREA, OVER AN IMPERMEABLE CONTAINMENT AREA.
5. FUELING AREAS SHALL BE ON LEVEL GRADE AND PROTECTED FROM STORM WATER RUN-ON AND RUN-OFF AND BE AT LEAST 100 FT FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES.
6. CONTRACTOR SHALL USE FUELING NOZZLES WITH AUTOMATIC SHUT-OFFS. FUELING OPERATIONS SHALL NOT BE LEFT UNATTENDED.
7. CONTRACTOR SHALL PROTECT FUELING AREAS WITH IMPERMEABLE BERMS AND OR DIKES TO PREVENT STORM WATER RUN-ON, RUN-OFF AND TO CONTAIN SPILLS.
8. CONTRACTOR SHALL NOT "TOP-OFF" FUEL TANKS.
9. CONTRACTOR SHALL INSPECT VEHICLES AND EQUIPMENT EACH DAY FOR LEAKS. IF LEAKS ARE FOUND, THEY MUST BE REPAIRED AND CLEANED-UP IMMEDIATELY AND/OR THE LEAKING VEHICLES OR EQUIPMENT REMOVED FROM THE PROJECT SITE.
10. CONTRACTOR SHALL DISPOSE OF ANY USED ABSORBENT SPILL KIT MATERIALS AND ANY CONTAMINATED SOILS ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

VEHICLE AND EQUIPMENT MAINTENANCE / MATERIAL STORAGE AREA:

1. CONTRACTOR SHALL DESIGNATE A DEDICATED AREA TO BE USED IF STORING MATERIALS, MAINTAINING OR STORING VEHICLES AND EQUIPMENT ON-SITE.
2. STORAGE / MAINTENANCE AREAS SHALL BE ON LEVEL GRADE AND PROTECTED FROM STORM WATER RUN-ON AND RUN-OFF AND BE AT LEAST 100 FT FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES.
3. CONTRACTOR SHALL USE DRIP PANS OR ABSORBENT PADS DURING VEHICLE AND EQUIPMENT MAINTENANCE UNLESS MAINTENANCE IS CONDUCTED IN A DESIGNATED AREA, OVER AN IMPERMEABLE CONTAINMENT AREA.
4. CONTRACTOR SHALL SUPPLY, CLEARLY MARK, AND KEEP CLEAN-UP MATERIALS AND SPILL KITS AVAILABLE IN STORAGE / MAINTENANCE AREAS.
5. CONTRACTOR SHALL PROTECT STORAGE / MAINTENANCE AREAS WITH IMPERMEABLE BERMS AND OR DIKES TO PREVENT STORM WATER RUN-ON, RUN-OFF AND TO CONTAIN SPILLS.
6. CONTRACTOR SHALL PROVIDE IMPERMEABLE SPILL CONTAINMENT DIKES OR SECONDARY CONTAINMENT AROUND STORED OIL AND CHEMICAL DRUMS.
7. CONTRACTOR SHALL DISPOSE OF ANY USED ABSORBENT SPILL KIT MATERIALS AND ANY CONTAMINATED SOILS ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.



SITE CONSTRUCTION EROSION CONTROL PLAN

SCALE: 1" = 20'

NORTH

EROSION CONTROL SEQUENCING

NOTE:
THE FOLLOWING SEQUENCING IS SCHEMATIC IN NATURE. CONTRACTOR SHALL DETERMINE INSTALLATION SCHEDULE TO MINIMIZE EROSION.

PRE-CONSTRUCTION ACTIVITY

1. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICE "INDIANA 811" TO LOCATE UNDERGROUND UTILITIES AT LEAST TWO (2) WORKING DAYS PRIOR TO EARTH DISTURBING ACTIVITIES. MARK UTILITIES ON THE PROJECT SITE.
2. NOTIFY IDEM CSGP COORDINATOR, ERIC ROBERTS, AT eroberts@idem.IN.gov OR 1-800-451-6027, THE CITY OF FORT WAYNE ENGINEERING SUPPORT SERVICES (260) 427-5065, AND MATT JARRETT OF THE ALLEN COUNTY SURVEYORS OFFICE (260) 449-7625, AT LEAST TWO (2) WORKING DAYS PRIOR TO EARTH DISTURBING ACTIVITIES OF THE ACTUAL START DATE FOR EARTH DISTURBING ACTIVITIES.
3. PROTECT EXISTING WATERWAYS, STREAMS, RIVERS, LAKES, WETLANDS, ETC. FROM SEDIMENT AND POLLUTANTS CAUSED BY CONSTRUCTION ACTIVITIES.
4. PRESERVE AND PROTECT TREES, SHRUBS, EXISTING VEGETATION, UNIQUE SITE FEATURES AND EXISTING ITEMS TO REMAIN ON THE SITE.
5. ESTABLISH STABLE CONSTRUCTION ENTRANCE, EQUIPMENT AND EMPLOYEE PARKING AND STAGING AREAS. ADJACENT PRIVATE AND PUBLIC PAVED AREAS ARE TO BE KEPT FREE OF TRACK-OFF BY SWEEPING AT THE CLOSE OF THE WORK DAY.
6. INSTALL PERIMETER PROTECTION DEVICES AND MEASURES SUCH AS SILT FENCE, TEMPORARY DIVERSION SWALES AND SEDIMENT TRAPS OR BASINS AND SEDIMENT BARRIERS AND FILTERS.
7. PROTECT EXISTING STORM WATER SEWER SYSTEM INLETS WITH INLET PROTECTION DEVICES.

CONSTRUCTION ACTIVITY

1. DE-WATER THE CONSTRUCTION SITE WHEN NEEDED. THE WATER MUST FLOW THROUGH A TREATMENT SYSTEM OR DE-WATERING BAG PER DETAIL #18/C-600 TO FILTER SEDIMENT-LADEN DISCHARGE.
2. BEGIN DEMOLITION OF ITEMS TO BE REMOVED FOR THE PROPOSED CONSTRUCTION.
3. PREPARE ON OR OFF-SITE SOIL STOCKPILE AREAS WITH EROSION CONTROL DEVICES AND MEASURES.
4. BEGIN INITIAL LAND CLEARING AND GRADING BY GRUBBING AND CLEARING VEGETATION THEN STRIP AND STOCKPILE TOPSOIL. WHEN POSSIBLE, PHASE LAND CLEARING AS TO NOT LEAVE LARGE AREAS OF SOIL EXPOSED AND LEFT INACTIVE FOR SEVEN (7) DAYS OR MORE. IF DISTURBED AREAS ARE EXPECTED TO BE LEFT INACTIVE FOR SEVEN (7) DAYS OR MORE, THE DISTURBED ARE IS TO BE STABILIZED BY PERMANENT OR TEMPORARY SEEDING, MULCHED AND MECHANICALLY CRIMPED INTO THE SOIL, OR BY OTHER SURFACE STABILIZING METHODS TO BE COMPLETED WITHIN FOURTEEN (14) DAYS OF INITIATION.
5. STABILIZE SOIL STOCKPILE AND BORROW AREAS.
6. PERMANENTLY SEED, OR MULCH, DISTURBED AREAS AS SOON AS POSSIBLE TO PREVENT SEDIMENT LOSS.
7. INSTALL EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT (TRM). IF EROSION CONTROL BLANKETS OR TRM'S ARE NOT SPECIFIED THE CONTRACTOR MAY INSTALL EROSION CONTROL BLANKET OR TRM'S IF THERE IS ANY EROSION OR SCOURING ON THE PROJECT SITE.
8. INSTALL CONCRETE WASHOUT AREA TO BE USED DURING CONSTRUCTION OF UTILITIES, DRIVES, PARKING LOTS, AND BUILDING.
9. CONSTRUCT STORM WATER CONVEYANCE SYSTEMS SUCH AS STORM WATER SEWERS.
10. PLACE INLET PROTECTION DEVICES AT ALL INLETS.
11. CONSTRUCT REMAINING UTILITIES, DRIVES, PARKING LOTS, AND BUILDING.
12. FINE GRADE SITE, PERMANENTLY SEED AND LANDSCAPE. THE CONTRACTOR SHALL NOTIFY THE CITY OF FORT WAYNE ENGINEERING SUPPORT SERVICES AND ALLEN COUNTY SURVEYOR'S OFFICE OF EXCESS SOIL DISPOSAL OFF-SITE.
13. REMOVE TEMPORARY EROSION CONTROL DEVICES AND MEASURES, ONCE THE CONTRIBUTING DRAINAGE AREA IS STABILIZED AND 70% UNIFORM DENSITY OF VEGETATIVE COVER HAS BEEN ACHIEVED. STABILIZE SOIL ANY DISTURBED SOIL FROM THE REMOVAL PROCESS WITH PERMANENT SEEDING.

POST CONSTRUCTION ACTIVITY

1. CONTACT THE GOVERNMENT INSPECTION AGENCY FOR FINAL SITE INSPECTION AND VERIFICATION OF SITE STABILIZATION.
2. UPON VERIFICATION OF COMPLETION, THE CONTRACTOR SHALL NOTIFY ENGINEERING RESOURCES TO SUBMIT A NOTICE OF TERMINATION (NOT) TO IDEM ONLINE. A COPY OF THE NOT SUFFICIENCY LETTER WILL THEN BE SENT TO THE ALLEN COUNTY SURVEYOR'S OFFICE, CITY OF FORT WAYNE ENGINEERING SUPPORT SERVICES AND CITY OF FORT WAYNE STORMWATER ENGINEERING AND THE OWNER AS REQUIRED BY THE EROSION CONTROL PERMIT.

EROSION CONTROL LEGEND:

- SILT FENCE
- AGGREGATE BASE FOR STABLE CONSTRUCTION ENTRANCE
- INLET PROTECTION
- SOIL STOCKPILE AREA
- CONCRETE WASHOUT AREA
- CONSTRUCTION LIMITS
- EROSION CONTROL SIGNAGE

EROSION CONTROL KEY:

TEMPORARY EROSION CONTROL DEVICES AND MEASURES

T1	INSTALL SILT FENCE PER DETAIL #11/C-600.
T2	INSTALL STABLE CONSTRUCTION ENTRANCE PER DETAIL #12/C-600.
T3	INSTALL YARD INLET PROTECTION DEVICE PER DETAIL #13/C-600.
T4	INSTALL PAVEMENT INLET PROTECTION DEVICE PER DETAIL #14/C-600.
T5	INSTALL CONCRETE WASHOUT STRUCTURE PER DETAIL #15/C-600.
T6	INSTALL CONCRETE WASHOUT AREA SIGN PER DETAIL #16/C-600.
T7	INSTALL TEMPORARY TOPSOIL STOCKPILE AREA SIGN PER DETAIL #17/C-600.
T8	INSTALL PUBLIC NOTICE BOARD FOR NOI AND NOTICE OF SUFFICIENCY.

NOTE:

STORM WATER SEWER LINES SHOWN ARE FOR REFERENCE ONLY. SEE SHEET C-400 SITE UTILITY PLAN FOR STORM WATER SEWER LINE SIZE, INVERT, ETC.

PUBLIC INFORMATION NOTE:

THE PROJECT OWNER/CONTRACTOR MUST POST NEAR THE ENTRANCE OR NEAR THE PROJECT FIELD OFFICE AND BE ACCESSIBLE TO THE PUBLIC SUCH THAT IT DOES NOT CREATE TRESPASS CONCERNS:

1. A COPY OF THE COMPLETED NOTICE OF INTENT (NOI) LETTER WITH PERMIT NUMBER.
2. CONTACT INFORMATION (ADDRESS, PHONE, AND EMAIL) OF THE PROJECT SITE OWNER OR DESIGNATED CONTACT PERSON. THE NOI CONTAINS THIS INFORMATION.
3. LOCATION OF THE CONSTRUCTION PLAN, IF ONE IS NOT STORED ON-SITE.

DISTURBED AREA: 3.26 ACRES

!! IMPORTANT !!

CONTRACTOR MUST MAINTAIN AND REPLACE ALL EXISTING DRAINAGE PATHS THROUGH THIS SITE, REGARDLESS OF GRAPHIC REPRESENTATION ON THE PLANS UNTIL PROPOSED IMPROVEMENTS ARE INSTALLED. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES AND DEVICES UNTIL ADEQUATE RE-VEGETATION AND STABILIZATION IS ACHIEVED.

PERMANENT OFF-SITE EXCESS SOIL AREA AND WETLAND NOTE:

EXCESS SOIL IS TO BE REMOVED FROM PROJECT SITE TO A PERMANENT SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIND A SITE TO PERMANENTLY PLACE THE EXCESS SOIL. EXECUTE ANY CONTRACTS NEEDED WITH THE PROPERTY OWNER, AND RESEARCH FOR THE POSSIBILITY OF WETLANDS ON THE EXCESS SOIL SITE. IF WETLANDS ARE FOUND, ANOTHER SITE SHOULD BE CHOSEN. IF THE CONTRACTOR WISHES TO USE A SITE THAT CONTAINS WETLANDS IT IS THE CONTRACTORS FINANCIAL RESPONSIBILITY TO HAVE THE WETLANDS ASSESSED AND DELINEATED BY A CERTIFIED ENVIRONMENTAL CONSULTING FIRM. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE EROSION CONTROL DRAWINGS OF THE EXCESS SOIL SITE TO THE ALLEN COUNTY MS4 COORDINATOR FOR INSPECTION AND APPROVAL, TO ASSURE APPROPRIATE MEASURES WILL BE TAKEN TO PROTECT THE WETLANDS AND THAT THE WETLANDS WILL NOT BE DISTURBED. THE EXCESS SOIL PROPERTY SHALL HAVE EROSION CONTROL MEASURES AND DEVICES IN PLACE IN ACCORDANCE WITH THE LATEST INDIANA STORM WATER QUALITY MANUAL AND ANY LOCAL ORDINANCE. CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL MEASURES AND DEVICES USED, IN ACCORDANCE WITH THE LATEST INDIANA STORM WATER QUALITY MANUAL AND LOCAL ORDINANCES. THE SITE SHALL BE FINE GRADED, SOIL STABILIZED, AND TEMPORARY EROSION CONTROL DEVICES AND MEASURES REMOVED AT THE COMPLETION OF SOIL PLACEMENT.

SPILLS; REPORTING, CONTAINMENT, AND RESPONSE NOTE:

CONTRACTOR SHALL REPORT TO THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF LAND QUALITY, EMERGENCY RESPONSE SECTION AT:

(317) 233-7745 FOR IN-STATE CALLS
1-888-233-7745 (TOLL FREE) FOR OUT-OF-STATE CALLS

AND THE LOCAL SPILL HAZARDOUS MATERIALS TEAM

- SPILLS THAT DAMAGE THE WATERS OF THE STATE SO AS TO CAUSE DEATH OR ACUTE INJURY OR ILLNESS TO HUMANS OR ANIMALS.

- SPILLS FROM A FACILITY THAT HAD BEEN NOTIFIED IN WRITING BY A WATER UTILITY THAT IT IS LOCATED IN A DELINEATED PUBLIC WATER SUPPLY WELLHEAD PROTECTION AREA.

- SPILLS THAT DAMAGE WATERS OF THE STATE AND THAT ARE LOCATED: WITHIN FIFTY (50) FEET OF A KNOWN PRIVATE DRINKING WATER WELL LOCATED BEYOND THE FACILITY PROPERTY BOUNDARY OR WITHIN ONE HUNDRED (100) YARDS OF ANY HIGH QUALITY WATER CLASSIFIED AS AN OUTSTANDING STATE RESOURCE WATER, ANY WATER DESIGNATED AS CAPABLE OF SUPPORTING A SALMONID FISHERY, OR ANY WATER THAT IS A FISH HATCHERY, FISH AND WILDLIFE AREA, NATURE PRESERVE, OR RECREATIONAL WATER OWNED BY THE DNR OR THE FEDERAL GOVERNMENT.

- SPILLS TO SURFACE WATER.

- SPILLS TO SOIL BEYOND THE FACILITY BOUNDARY.

- SPILLS TO SOIL WITHIN THE FACILITY BOUNDARY THAT ARE HAZARDOUS SUBSTANCES OR EXTREMELY HAZARDOUS SUBSTANCES OF ONE HUNDRED (100) POUNDS OR PETROLEUM THAT THE AMOUNT EXCEEDS FIFTY-FIVE (55) GALLONS.

- ANY SPILL FOR WHICH A SPILL RESPONSE HAS NOT BEEN DONE.

A SPILL OF ANY SIZE SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY USING ACCEPTABLE METHODS ACCORDING TO THE TYPE OF MATERIAL SPILLED AND THE SURFACE THE SPILL OCCURRED ON.

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SEAL

10-21-2026
MARK D. REINHARD
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PROFESSIONAL ENGINEER

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

Fort Wayne International Airport
General Aviation Hangar 2070

FWACAA Project No. AF26-07
10896 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE
1	ADD. 01	11/06/2026

PROJECT NO. 2601701
ISSUE DATE 10/21/2026
SUBMITTAL Bidding and Construction

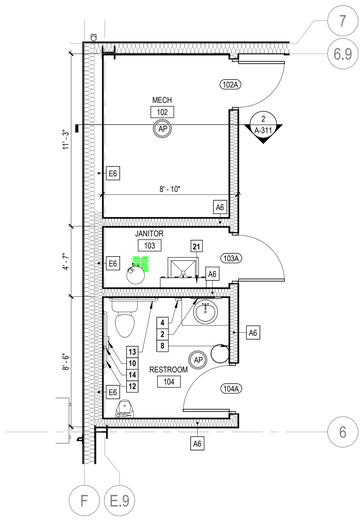
Site Construction Erosion Control Plan

C-500

November 3, 2026 10:20 AM
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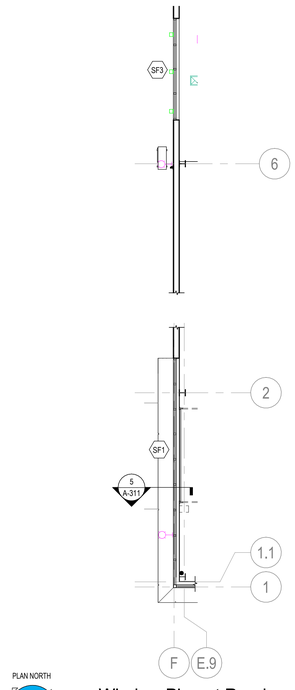
1 TOILET ACCESSORIES SCHEDULE

TAG	MODEL NO. (B=BOBRICK)	DESCRIPTION	SUPPLIED BY	INSTALLED BY
2	B-165-2436	STAINLESS STEEL CHANNEL FRAMED MIRROR. CENTER OVER SINK, REFER TO ACCESSIBILITY DIAGRAMS FOR MOUNTING HEIGHTS.	CONTRACTOR	CONTRACTOR
4	B-2111	SURFACE-MOUNTED SOAP DISPENSER: MOUNT TOP OF UNIT @ 50 7/8" AFF.	CONTRACTOR	CONTRACTOR
8	B-3944	RECESSED CONVERTIBLE PAPER TOWEL DISPENSER AND WASTE RECEPTACLE: MOUNT TOP OF CABINET @ 59 1/2" AFF.	CONTRACTOR	CONTRACTOR
10	B-2888	SURFACE-MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER: REFER TO ACCESSIBILITY DIAGRAMS FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
12	B-6806.99	42" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE AND PEENED NON-SLIP GRIPPING SURFACE, REFER TO ACCESSIBILITY DIAGRAMS FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
13	B-6806.99	36" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE AND PEENED NON-SLIP GRIPPING SURFACE, REFER TO ACCESSIBILITY DIAGRAMS FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
14	B-6806.99	18" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE AND PEENED NON-SLIP GRIPPING SURFACE, REFER TO ACCESSIBILITY DIAGRAMS FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
21	B-224 x 36	UTILITY SHELF WITH MOP AND BROOM HOLDER: SURFACE MOUNTED TYPE 304 STAINLESS STEEL, REFER TO FLOORPLAN NOTES FOR LOCATIONS.	CONTRACTOR	CONTRACTOR



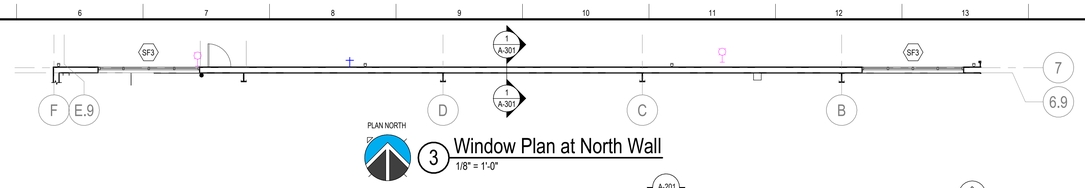
PLAN NORTH

5 Enlarged Restroom and Mechanical
1/4" = 1'-0"



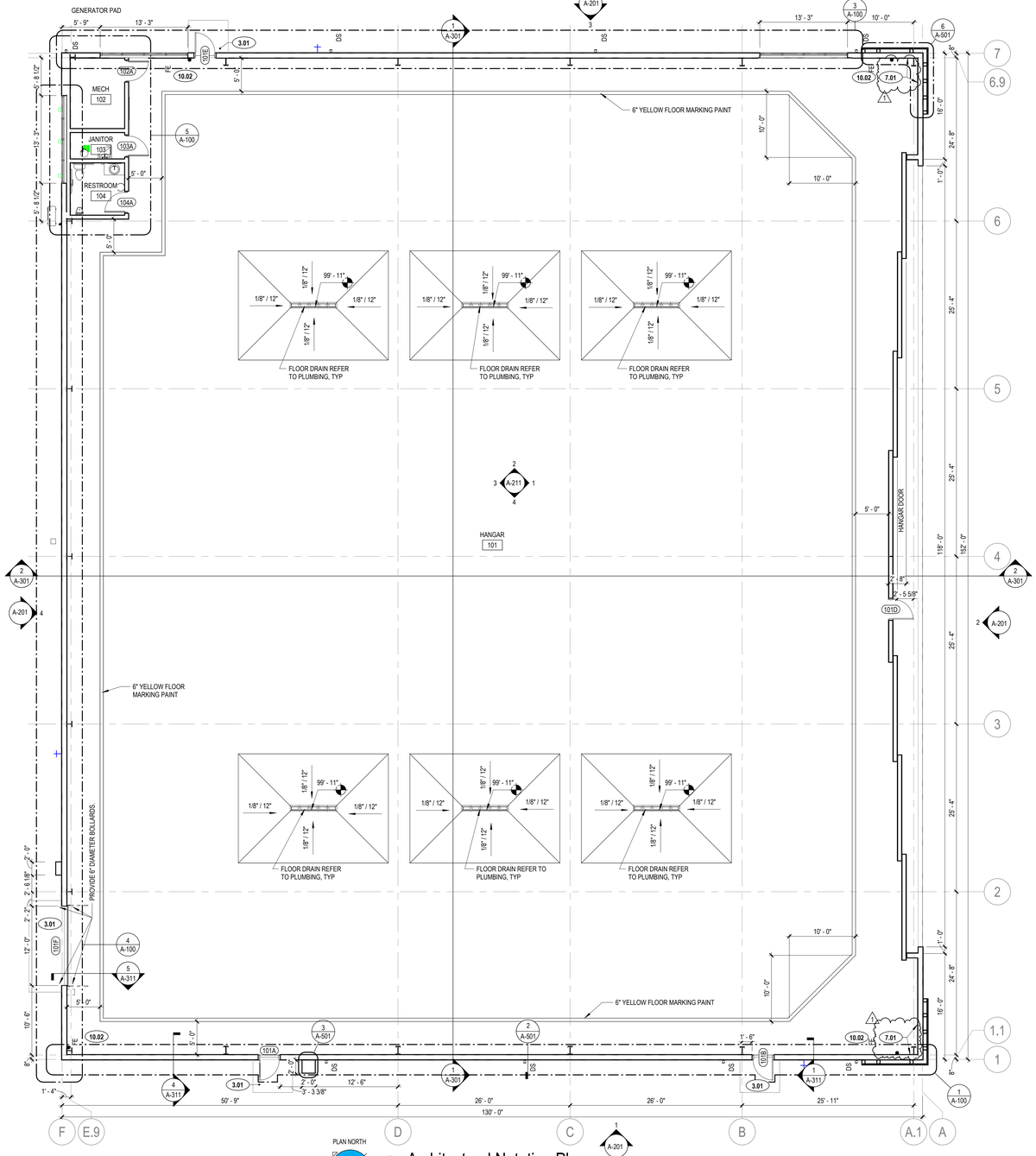
PLAN NORTH

4 Window Plan at Road
1/8" = 1'-0"



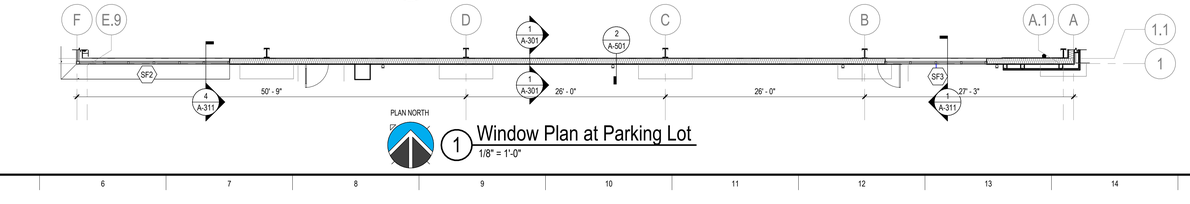
PLAN NORTH

3 Window Plan at North Wall
1/8" = 1'-0"



PLAN NORTH

2 Architectural Notation Plan
1/8" = 1'-0"



PLAN NORTH

1 Window Plan at Parking Lot
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. GENERAL CONTRACTOR SHALL TAKE RESPONSIBILITY FOR COORDINATING REQUIRED WORK WITH ALL TRADES BASED UPON A COMPLETE SET OF CONSTRUCTION DOCUMENTS.
2. EACH CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AND OBTAIN ALL MEASUREMENTS REQUIRED FOR PROPER EXECUTION OF WORK. WHEN VERIFICATION OF EXISTING DIMENSIONS IS REQUIRED, THE CONTRACTOR REQUIRING SAID VERIFICATION FOR THE CONSTRUCTION OR FABRICATION OF HIS MATERIAL SHALL BE THE CONTRACTOR RESPONSIBLE FOR THE PROCUREMENT OF THE FIELD INFORMATION.
3. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.
4. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
5. UNLESS NOTED OTHERWISE, PLAN DIMENSIONS ARE TAKEN FROM FACE OF STUD, CMU, CONCRETE OR EXISTING FINISH TO FACE OF STUD, CMU OR CONCRETE.
6. REPAIR ALL SURFACES DAMAGED BY RENOVATION AND NEW CONSTRUCTION TO MATCH EXISTING ADJACENT OR CONTIGUOUS FINISH.
7. GENERAL CONTRACTOR TO PATCH ALL CONCRETE SLAB MECH/ELEC PENETRATIONS. PATCH SLAB FLUSH WITH EXISTING SLAB AND PROVIDE #4 DOWELS INTO EXISTING SLAB AS REQUIRED.
8. ALL CUTTING AND PATCHING AS A RESULT OF NEW CONSTRUCTION OR DEMOLITION SHALL BE PERFORMED IN A WORKMANLIKE MANNER, AND SHALL MATCH IN COLOR, SHAPE, SIZE AND TEXTURE ADJACENT AND/OR CONTIGUOUS FINISHED SURFACES.
9. WHERE PATCHING, REPAIRING OR INFILLING EXISTING MASONRY EXPOSED TO VIEW, "TOOTH-IN" NEW MASONRY TO ADJACENT EXISTING MASONRY TO REMAIN.
10. PATCH ALL CRACKS AND RESEAL JOINTS IN EXISTING SUBSTRATES SCHEDULED TO RECEIVE NEW FINISHES.
11. PROVIDE ALL BLOCKING NECESSARY FOR THE ATTACHMENT OF MISCELLANEOUS EQUIPMENT INCLUDING BUT NOT LIMITED TO CASEWORK, MILLWORK, TOILET ACCESSORIES, GRAB BARS, HANDRAILS, DOOR HARDWARE, ELECTRICAL DEVICES AND LABORATORY EQUIPMENT.
12. ALL INTERIOR WOOD BLOCKING SHALL BE FIRE-RETARDANT TREATED. ALL EXTERIOR WOOD BLOCKING SHALL BE PRESSURE TREATED.
13. PROVIDE FIRE-BLOCKING AND DRAFT-STOPPING IN COMBUSTIBLE CONCEALED WALLS AT 10'-0" O.C. MAX. HORIZONTALLY & VERTICALLY.
14. DOORS NOT OTHERWISE DIMENSIONED SHALL BE 8" FROM FACE OF ADJACENT CMU OR CONCRETE WALL TO ROUGH DOOR OPENING, AND 4" FROM FACE OF ADJACENT STUD WALL TO ROUGH DOOR OPENING.
15. THE TRANSITION OF DIFFERENT FLOORING MATERIALS AT A DOORWAY SHALL OCCUR AT THE CENTERLINE OF DOOR UNLESS NOTED OTHERWISE.
16. ALL WALL SURFACES, DOOR FRAMES, BULKHEADS AND CEILINGS SHALL RECEIVE PAINT WHEN PAINT IS INDICATED ON THE FINISH SCHEDULE OR FINISH PLANS. PAINT SURFACES BEHIND MOVABLE EQUIPMENT AND FURNITURE SAME AS SIMILAR EXPOSED SURFACES. PAINT SURFACES BEHIND PERMANENTLY FIXED EQUIPMENT OR FURNITURE WITH PRIME COAT ONLY BEFORE FINAL INSTALLATION OF EQUIPMENT. PAINT ALL MECHANICAL AND ELECTRICAL EQUIPMENT EXPOSED IN FINISHED SPACES UNLESS NOTED OTHERWISE.
17. FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE PRODUCT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND STANDARD DETAILS, IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATION REQUIREMENTS AND DESIGN INTENT.
18. PROVIDE FIRE EXTINGUISHERS (FE) AND FIRE EXTINGUISHER CABINETS (FEC) AS INDICATED ON THE PLANS. PROVIDE TYPE AND SIZE AS SPECIFIED. MOUNT AT 42" AFF TO TOP OF FE AND 48" AFF TO TOP OF FEC.
19. REFER TO LIFE SAFETY PLANS FOR RATED PARTITIONS AND ASSEMBLIES.
20. UNLESS NOTED OTHERWISE, NEW WALLS TO BE 3 5/8" METAL STUDS @ 16" O.C. WITH (1) LAYER OF 5/8" TYPE "X" GYPSUM BOARD EACH SIDE. EXTEND STUD AND GYPSUM BOARD TO MINIMUM 6" ABOVE FINISHED CEILING. SEAL AS REQUIRED FOR WALL RATINGS INDICATED.

3.01 FLOOR PLAN NOTES

TAG	DESCRIPTION
DIV 3 - CONCRETE	
3.01	CONCRETE STOOP. COORDINATE WITH CIVIL AND STRUCTURAL DOCUMENTS.
DIV 7 - THERMAL AND MOISTURE PROTECTION	
7.01	LINER PANEL UP TO 27' - 3"
DIV 10 - SPECIALTIES	
10.02	BRACKET MOUNTED 10-LB CLASS ABC FIRE EXTINGISHER. SEE SPECIFICATION.

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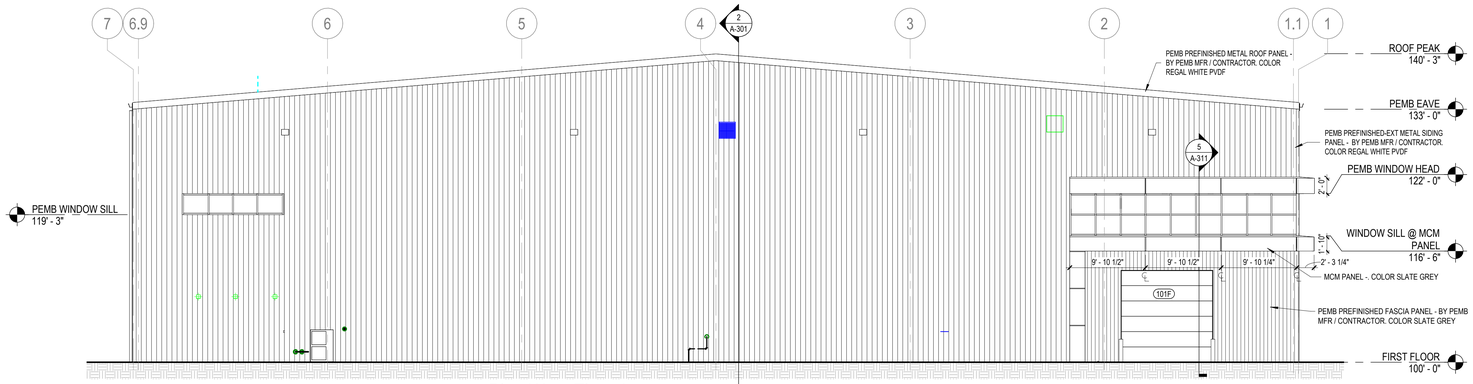
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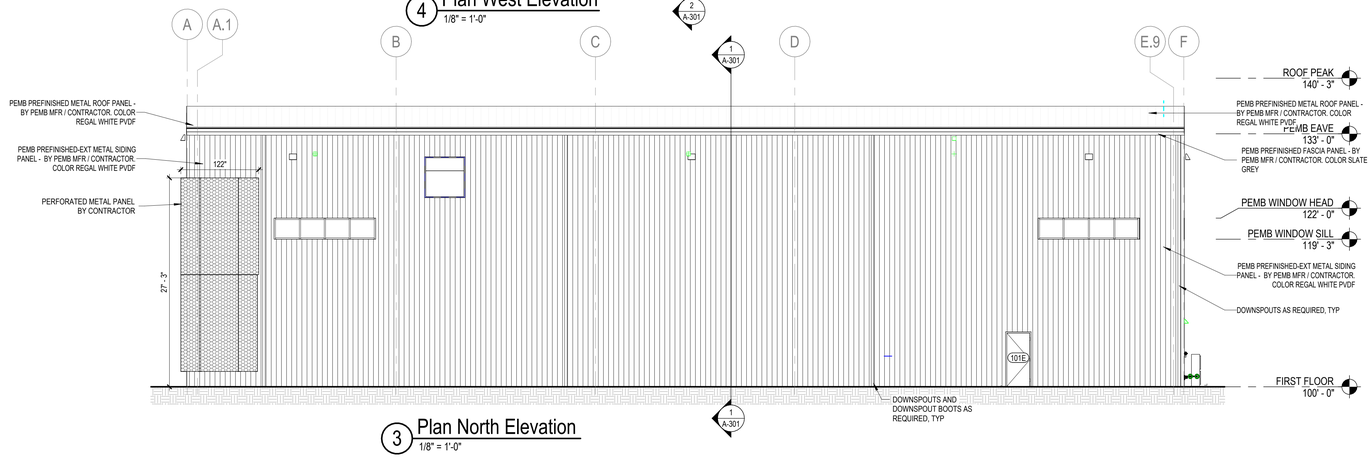
Architectural Floor Plans

A-100

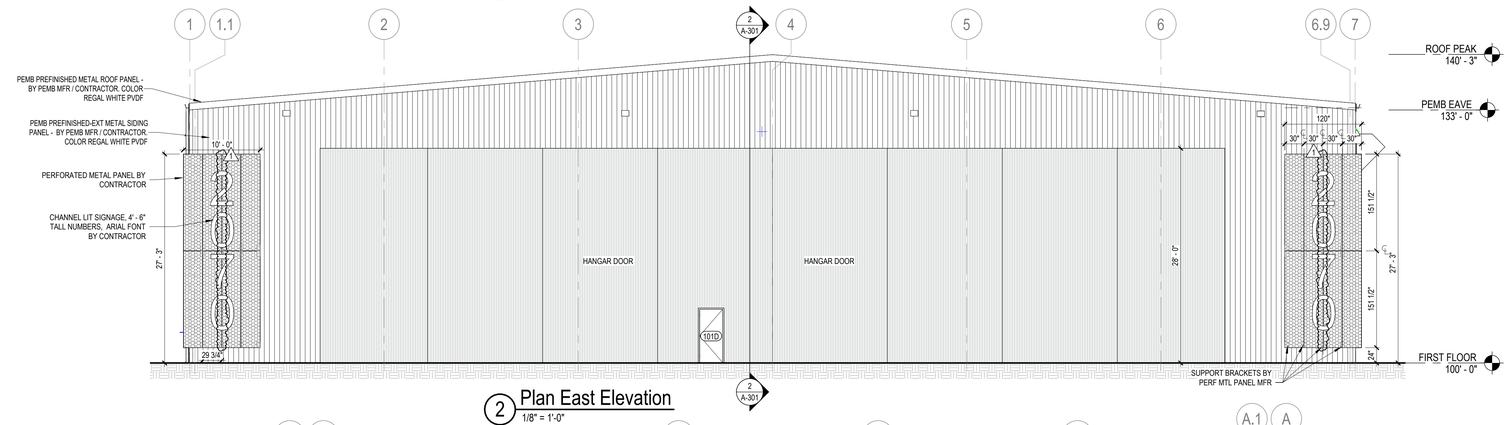
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Cloud Models in HWCAA Gen Aviation Hangar Pilot Hangar 2070_ARCH.rvt



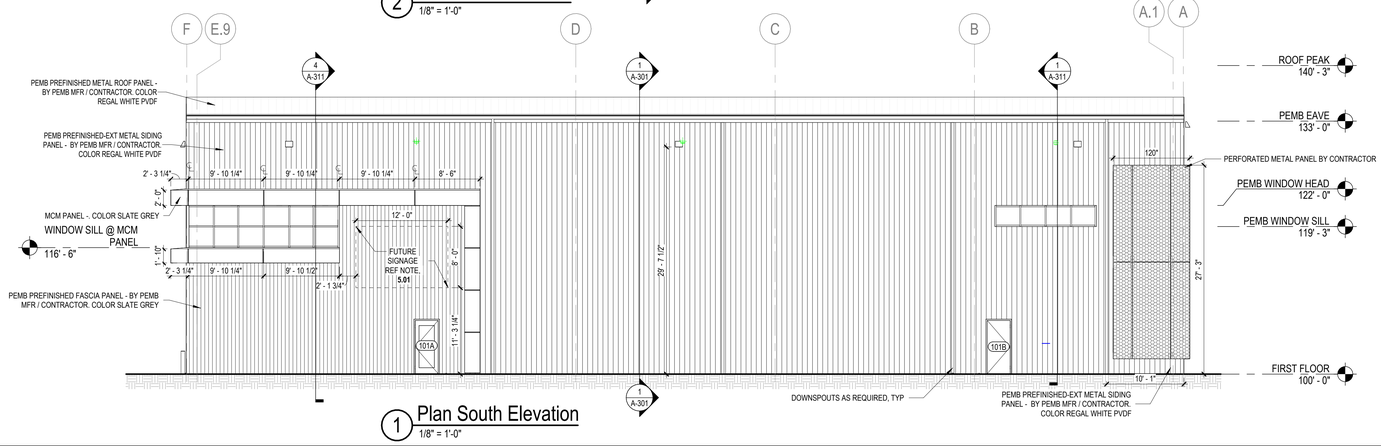
4 Plan West Elevation
1/8" = 1'-0"



3 Plan North Elevation
1/8" = 1'-0"



2 Plan East Elevation
1/8" = 1'-0"



1 Plan South Elevation
1/8" = 1'-0"

ELEVATION NOTES

TAG	DESCRIPTION
DIV 5 - METALS	
5.01	METAL FRAMING FOR FUTURE SIGNAGE BY PEMB MFR

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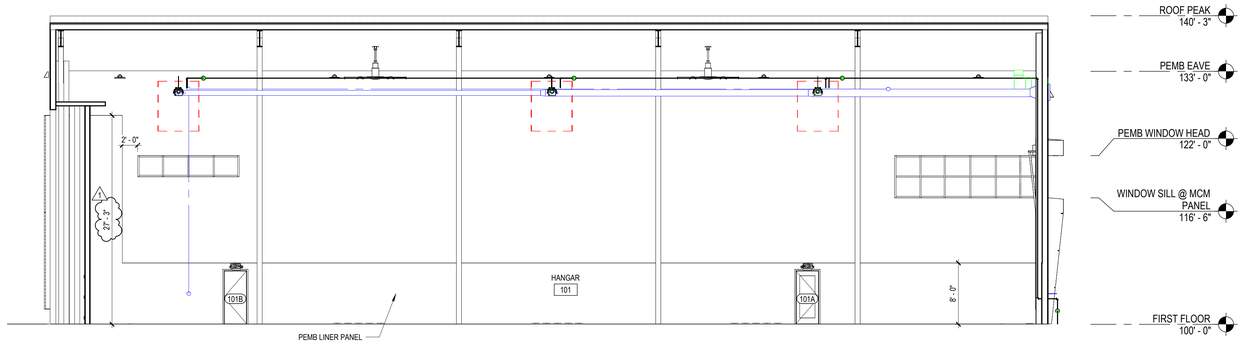
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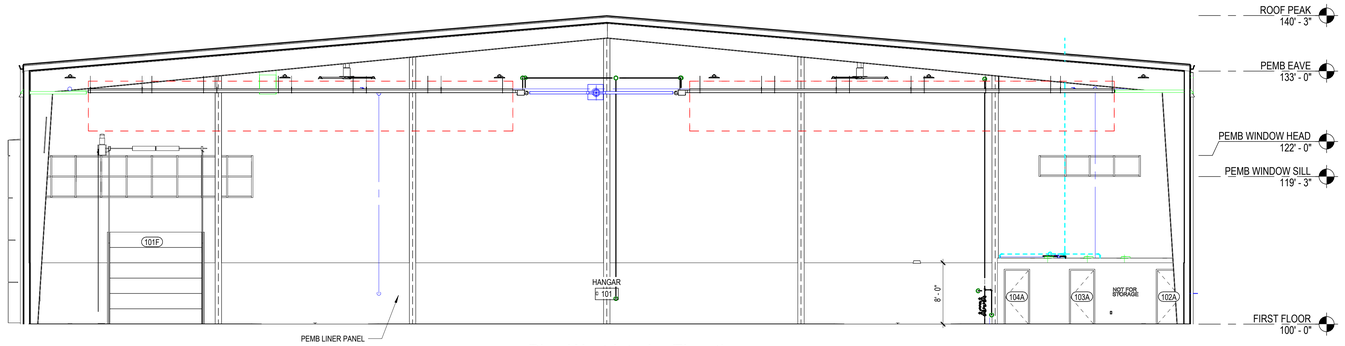
Building Elevations

A-201

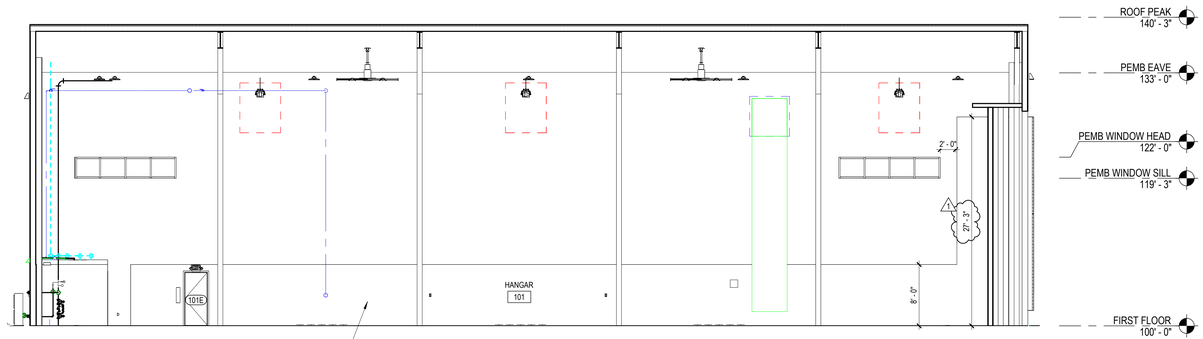
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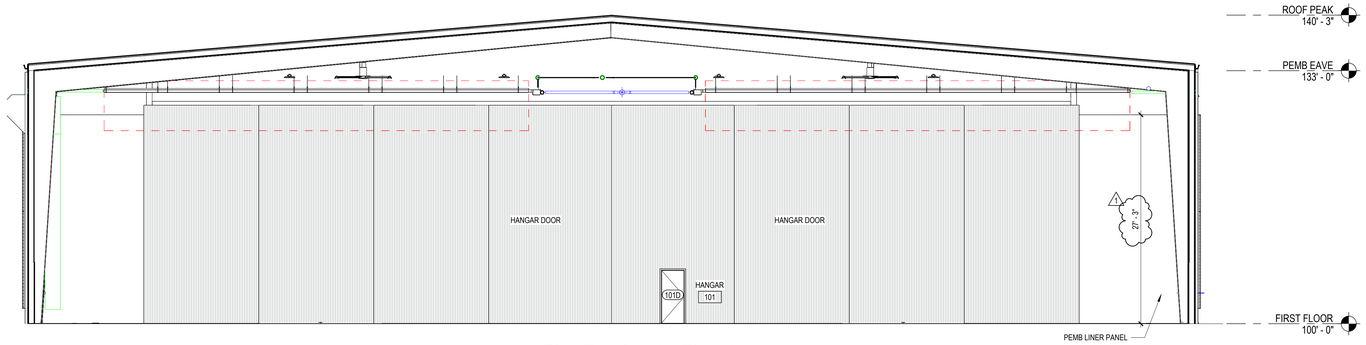
4 Plan North Interior Elevation
1/8" = 1'-0"



3 Plan West Interior Elevation
1/8" = 1'-0"



2 Plan South Interior Elevation
1/8" = 1'-0"



1 Plan East Interior Elevation
1/8" = 1'-0"

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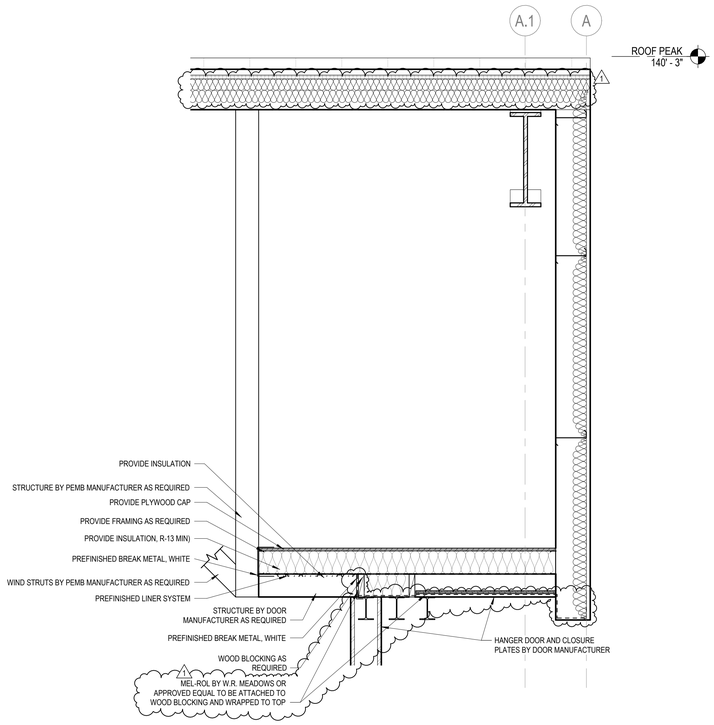
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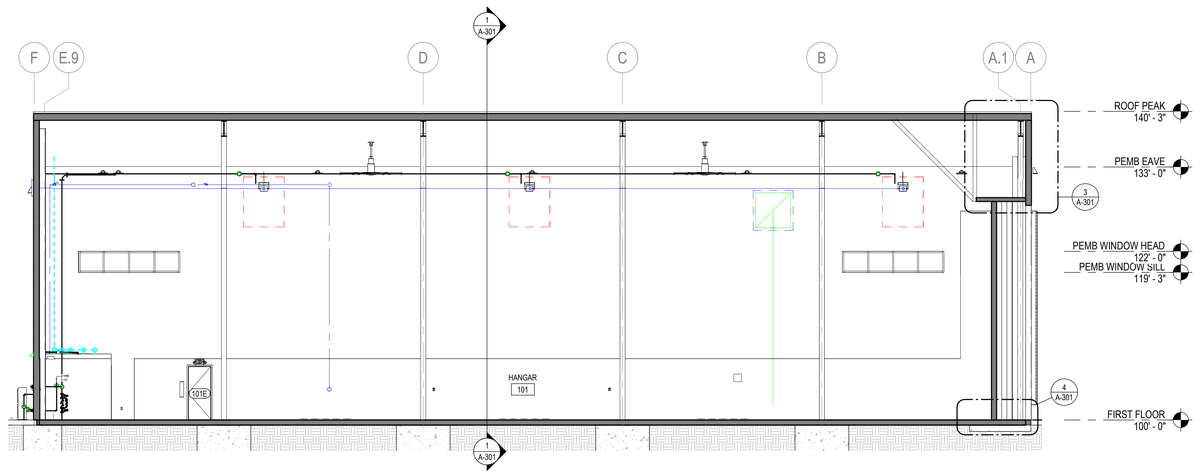
Interior Elevations

A-211

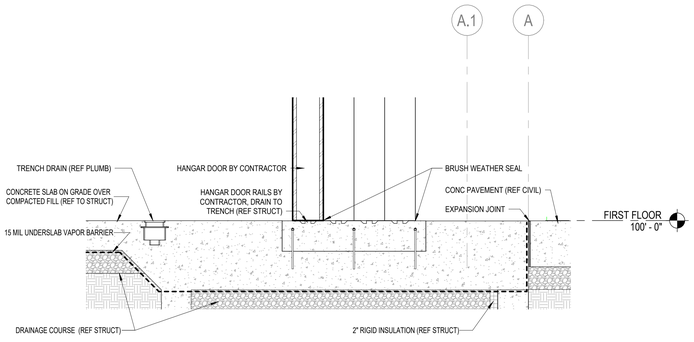
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Cloud Models:\\FWACAA Gen Aviation Hangar\FWA Hangar 2070_ARCH.rvt



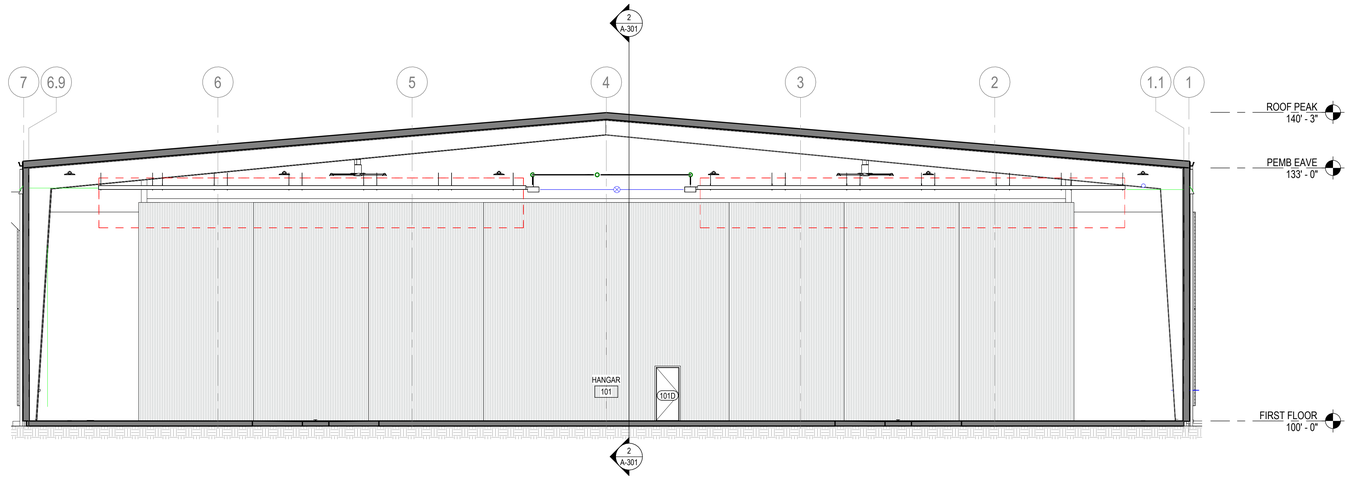
3 Door Soffit
3/4" = 1'-0"



2 Building Section
1/8" = 1'-0"



4 Hangar Door Threshold
3/4" = 1'-0"



1 Building Section
1/8" = 1'-0"

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SEAL



FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

Fort Wayne International Airport
General Aviation Hangar 2070

FWACAA Project No. AF26-07
10896 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS

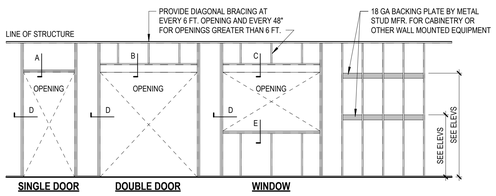
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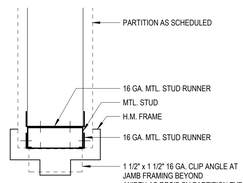
PROJECT NO. 2601701
ISSUE DATE 10/21/2026
SUBMITTAL Bidding and Construction

Building Sections and Details

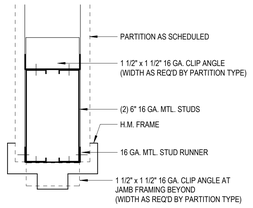
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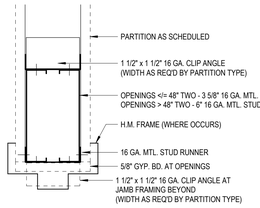




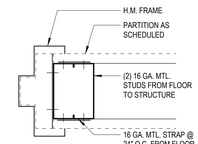
A - SINGLE DOOR HEADER



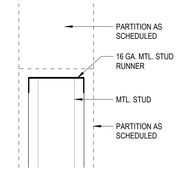
B - DOUBLE DOOR HEADER



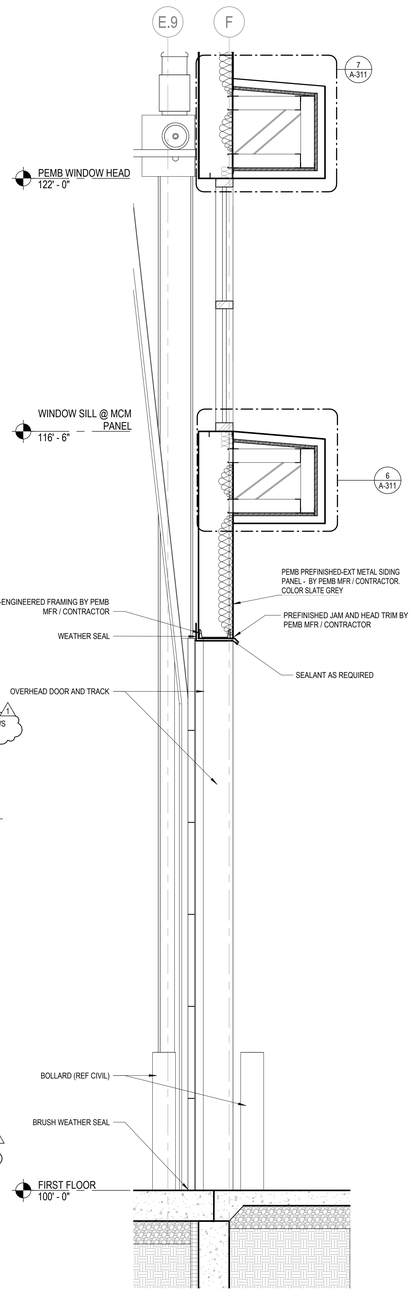
C - WINDOW / GYP. BD. OPENING HEADER



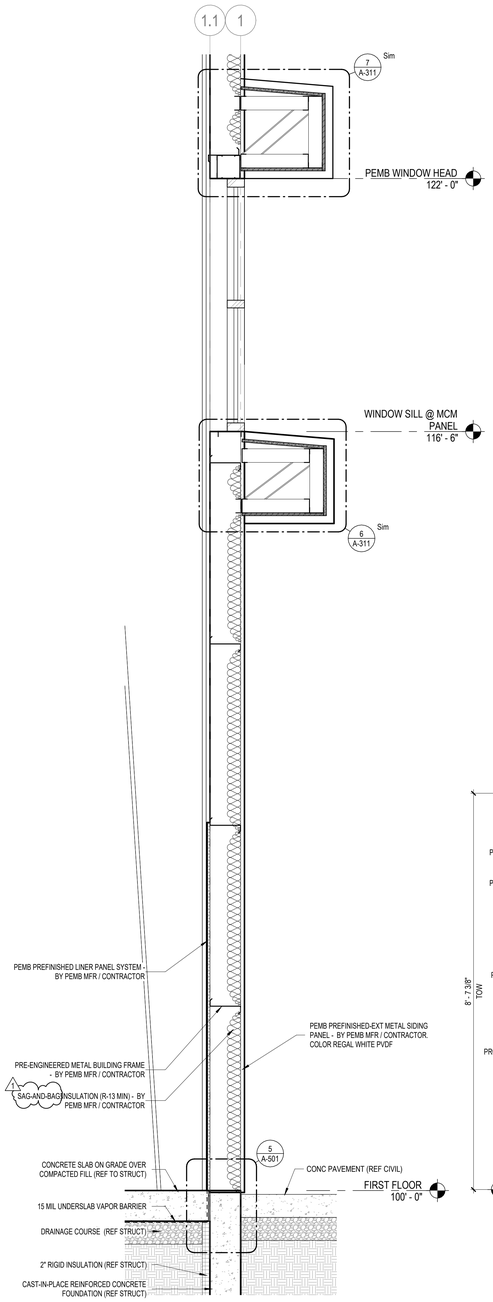
D - DOOR / WINDOW JAMB



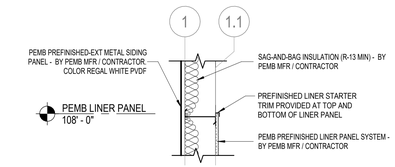
E - SILL



5 Wall Section
3/4" = 1'-0"

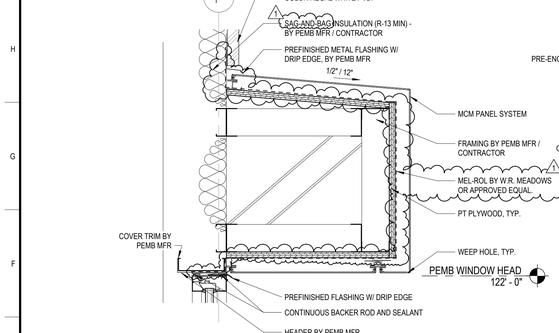


4 Wall Section
3/4" = 1'-0"

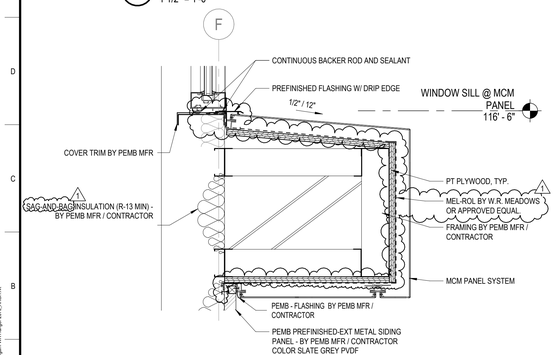


3 Wall Section
3/4" = 1'-0"

1 Wall Section
1/2" = 1'-0"



7 Metal Composite Panel at Window Head
1 1/2" = 1'-0"



6 Metal Composite Panel at Window Sill
1 1/2" = 1'-0"

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FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

Fort Wayne International Airport
General Aviation Hangar 2070

FWACAA Project No. AF26-07
10896 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS

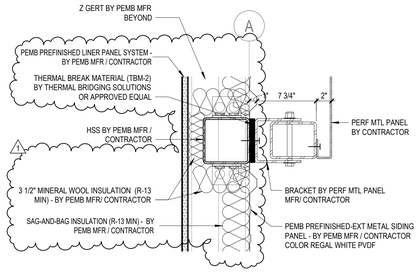
NO.	DESCRIPTION	DATE
1	Add. 01	11/05/2026

PROJECT NO. 2601701
ISSUE DATE 10/21/2026
SUBMITTAL Bidding and Construction

Wall Sections and Details

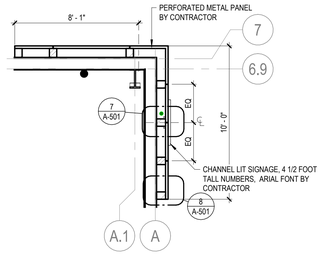
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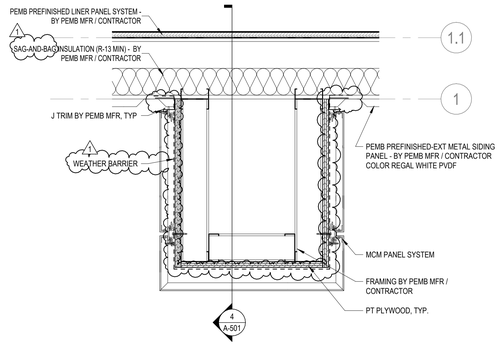


8 Perf Mtl Panel End Bracket Mounting
1 1/2" = 1'-0"

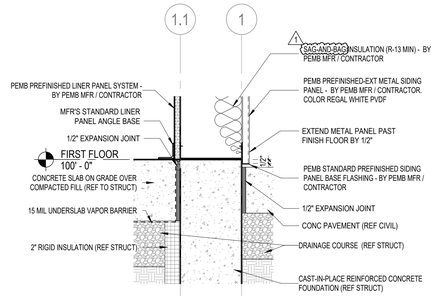
7 Perf Mtl Panel Bracket Mounting at Seam
1 1/2" = 1'-0"



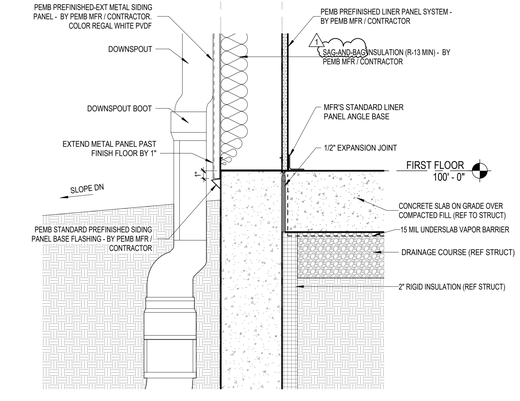
6 Perf Mtl Panel Enlarged Plan
1/4" = 1'-0"



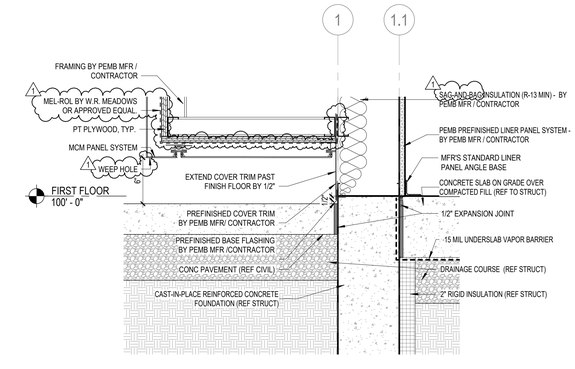
3 Mcm Wall Transition - Plan
1 1/2" = 1'-0"



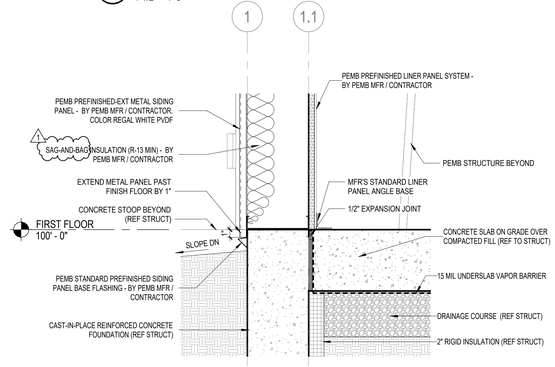
5 Typ. Wall Panel Base at Sidewalk
1 1/2" = 1'-0"



2 Down Spout Boot at Foundation Wall
1 1/2" = 1'-0"



4 MCM Panel Base at Sidewalk
1 1/2" = 1'-0"



1 Typ. Foundation Transition at Wall Panel Base
1 1/2" = 1'-0"

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Fort Wayne International Airport
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Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE
1	Add. 01	11/05/2026

PROJECT NO. 2601701
ISSUE DATE 10/21/2026
SUBMITTAL Bidding and Construction

Architectural Details

A-501

11/5/2026 5:57:42 PM
Cloud Models: // RACAA_User Auditor Hangar FBO Hangar 2070_ACA.rvt

ENGINEERING, LLC

Addendum

6534 Constitution Drive
Fort Wayne, IN 46804
(260) 436-9213
fax (260) 432-5481

ADDENDUM NO.	01
DATE:	November 04, 2026
PROJECT:	Fort Wayne International Airport General Aviation Hangar 2070
COMMISSION NO.	***SCO*** Engineering, LLC – 262919

The Contractor shall incorporate, into the Contract Documents and into his bid, the following changes and/or clarifications to the Drawings, Specifications and Scope of Work.

SPECIFICATIONS

Section 233423 – HVAC Power Ventilators

1. Add paragraph 2.1., A., 4., as follows:

   "4. Twin City Fan Companies, Ltd. "

MECHANICAL

Sheet M-601:

1. Revise General Exhaust Fan Schedule.

ELECTRICAL

Sheet E-200:

1. Add lighting fixture L04 to the exterior facade.

Sheet E-601:

1. Revise Luminaire Schedule.

Contractor shall sign and return one (1) copy of Addendum with their bid.

_____
Signature of Bidder

_____
Company

MINI-SPLIT AIR CONDITIONING UNIT SCHEDULE

TAG	MFG	INDOOR UNIT MODEL	OUTDOOR UNIT MODEL	COOLING CAPACITY ❶ 95 DEG. F BTUH	SEER	HEATING CAPACITY ❷ 47 DEG. F, BTUH	HEATING CAPACITY ❷ 17 DEG. F, BTUH	AIR FLOW CFM	MCA	MOCP	ELECTRIC	LOCATION	REMARKS
AC-1	MITSUBISHI	MSZ-GX12NL	-	12,000	25.6	14,400	9,000	250	-	-	-	RESTROOM 104	1, 2, 3, 4, 5
ACCU-1	MITSUBISHI	-	MUZ-GX12NL	-	-	-	-	-	12	15	208 / 1 / 60	GROUND	

REMARKS:
1. PROVIDE AND INSTALL UNIT WITH POWER FAILURE AUTOMATIC RESTART, AUTOMATIC CHANGE OVER, CONDENSATE DRAIN PAN LEVEL SENSOR/CONTROL, AND DISCONNECT SWITCH FOR INDOOR UNIT.
2. PROVIDE AND INSTALL UNIT WITH OPTIONAL DIGITAL, PROGRAMABLE THERMOSTAT LIKE MITSUBISHI MODEL #PAR-CT01MAU-SB TOUCH CONTROLLER AND ALL REQUIRED ACCESSORIES AND INTERCONNECTING WIRING.
3. PROVIDE AND INSTALL UNIT WITH ALL REQUIRED MOUNTING ACCESSORIES AND HARDWARE.
4. PROVIDE AND INSTALL OUTDOOR CONDENSING UNIT WITH VARIABLE SPEED INVERTER DRIVEN COMPRESSOR, ALL DEVICES AND INTERLOCK WIRING, AND ADVANCED WIND BAFFLE FOR LOW AMBIENT OPERATION.
5. PROVIDE AND INSTALL INSULATED REFRIGERATION LINESET SIZED PER MANUFACTURERS RECOMMENDATIONS.
6. PROVIDE AND INSTALL UNIT WITH FACTORY INSTALLED BUILT-IN DRAIN MECHANISM AND CONDENSATE REMOVAL PUMP LIKE MAXIBLUE MODEL #X87-721 FOR CONDENSATE REMOVAL. PROVIDE AND INSTALL ADDITIONAL CONTROL CABLE AS REQUIRED TO BE INSTALLED BETWEEN THE CONDENSATE PUMP AND RESEVOIR FOR CONDENSATE PUMP CONTROL.

EXHAUST/VENTILATION FAN SCHEDULE

TAG	MFG	MODEL	CFM	ESP	HP (WATTS)	FAN RPM	SONES	ELECT	OPERATION	AREA SERVED	REMARKS
EF-1	GREENHECK	SP-A200	150	0.25	(48)	715	1.2	120 /1	LIGHT	RR	1, 2
EF-2	GREENHECK	SP-A125	100	0.25	(53)	1060	0.6	120 /1	CONSTANT	JANITOR	1, 3
EF-3	GREENHECK	SP-A250	200	0.25	(83)	860	2.0	120 /1	CONSTANT	MECHANICAL ROOM	1, 3
EF-4	GREENHECK	AER-36	1200	0.25	1 HP	665	9.6	460 / 3	SWITCH	HANGER	4

REMARKS:
1. PROVIDE AND INSTALL CEILING MOUNTED EXHAUST FAN WITH SPEED CONTROL, DISCONNECT, BACKDRAFT DAMPER, AND VIBRATION ISOLATION HANGERS. PROVIDE AND INSTALL WITH MANUFACTURER WALL CAP.
2. FAN IS BE CONNECTED TO LIGHTING OCCUPANCY SENSOR.
3. FAN IS TO RUN CONTINUOUSLY.
4. PROVIDE AND INSTALL SPEED CONTROLLED EXHAUST FAN UNIT WITH BACKDRAFT DAMPER, DISCONNECTION SWITCH, WALL HOUSING, 45° WEATHERHOOD, AND WALL SWITCH.

LOUVER SCHEDULE

TAG	MANUFACTURER	MODEL	SIZE (IN)	FREE AREA (SQ. FT.)	AIR FLOW (CFM)	MAX PD (IN)	MAX VEL. (FPM)	FUNCTION	FRAME	FINISH	MATERIAL	EQUIPMENT SERVED	REMARKS
L-1	GREENHECK	EDJ-401	24 X 24	1.7	1,200	0.1	800	INTAKE	CHANNEL	K-YNAR	ALUMINUM	RAD-HEATERS	1, 3
L-2	GREENHECK	ECD-401	26 X 26	1.8	1,200	0.1	800	INTAKE	CHANNEL	K-YNAR	ALUMINUM	EF-4	1, 2, 3

REMARKS:
1. PROVIDE AND INSTALL CHANNEL LOUVER WITH BACK DRAFT DAMPER, EXTENDED SILL, AND ALUMINUM INSECT SCREEN INSTALLED ON THE FACE OF THE LOUVER. INSECT SCREEN IS TO BE PAINTED TO MATCH THE LOUVER.
2. PROVIDE LOUVER/DAMPER WITH MOTORIZED DAMPER AND ACTUATOR. DAMPER/ACTUATOR ARE TO BE INTERLOCKED WITH THE OPERATION OF THE EXHAUST FAN (EF-4) SO THAT THE DAMPERS OPEN WHEN THE FAN IS ENERGIZED AND OPERATING.
3. CUSTOM COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURERS FULL LINE OF COLOR CHOICES.

HIGH VOLUME LOW SPEED FAN SCHEDULE

TAG	MFG	MODEL	DIA. FT	CFM	HP	ELECT	CONTROL	AREA SERVED	REMARKS
CF-1	BIG ASS FAN	POWER FOIL D	10	49907	1.5	277 / 1	VFD	HANGAR	1, 2, 3, 4
CF-2	BIG ASS FAN	POWER FOIL D	10	49907	1.5	277 / 1	VFD	HANGAR	1, 2, 3, 4
CF-3	BIG ASS FAN	POWER FOIL D	10	49907	1.5	277 / 1	VFD	HANGAR	1, 2, 3, 4
CF-4	BIG ASS FAN	POWER FOIL D	10	49907	1.5	277 / 1	VFD	HANGAR	

REMARKS:
1. PROVIDE AND INSTALL UNIT WITH DIRECT DRIVE MOTOR, VARIABLE FREQUENCY DRIVE, FIRE SUPPRESSION INTEGRATION, 5FT DOWNTUBE AND GUY WIRE, FACTORY INSTALLED FUSED DISCONNECT SWITCH, LCD DISPLAY KEYPAD CONTROLLER, AND ALUMINUM AIRFOIL BLADES.
2. PROVIDE EACH FAN WITH STANDARD ON/OFF, VARIABLE SPEED, PASSWORD PROTECTION DIGITAL CONTROLLER. PROVIDE WITH STATIC TUBE FOR OPTIONAL LED OR OCC SENSOR.
3. PROVIDE WITH ALL MOUNTING HARDWARD/EXTENSION RODS TO AVOID ROOF JOISTS, DUCTWORK, LIGHTS.
4. ARCHITECT IS TO SELECT THE FINISH / COLOR(S) OPTIONS FOR THE FAN FROM THE MANUFACTURERS FULL LINE OF COLORS.

RADIANT HEATER SCHEDULE

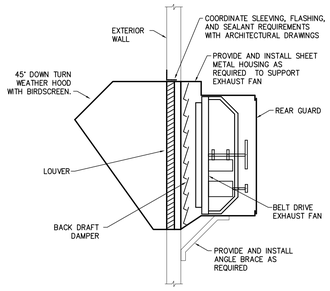
TAG	MFG	MODEL	TUBE LENGTH (FT)	INPUT (HIGH / LOW MBH)	CONFIGURATION	FUEL	ELECT.	AREA SERVED	REMARKS
RH-1	SOLARONICS	MTSA 200	66'-9.25"	200 / 145	4" SINGLE TUBE	N. G.	120 / 1	HANGAR 101	1 THRU 3
RH-2	SOLARONICS	MTSA 200	66'-9.25"	200 / 145	4" SINGLE TUBE	N. G.	120 / 1	HANGAR 101	1 THRU 3
RH-3	SOLARONICS	MTSA 200	66'-9.25"	200 / 145	4" SINGLE TUBE	N. G.	120 / 1	HANGAR 101	1 THRU 3
RH-4	SOLARONICS	MTSA 200	66'-9.25"	200 / 145	4" SINGLE TUBE	N. G.	120 / 1	HANGAR 101	1 THRU 3
RH-5	SOLARONICS	MTSA 200	66'-9.25"	200 / 145	4" SINGLE TUBE	N. G.	120 / 1	HANGAR 101	1 THRU 3
RH-6	SOLARONICS	MTSA 200	66'-9.25"	200 / 145	4" SINGLE TUBE	N. G.	120 / 1	HANGAR 101	1 THRU 3

REMARKS:
1. PROVIDE HEATERS COMPLETE WITH 2 STAGE BURNERS, TUBULAR INFRARED EMITTERS, FITTINGS, REFLECTOR SHEILDS, HANGERS, SOLID STATE ELECTRONIC CONTROLS WITH SPARK IGNITION, SAFETY CONTROLS, AND LOW VOLTAGE 2-STAGE THERMOSTATS. COMBUSTION AR TO BE DUCTED FROM BUILDING EXTERIOR AND EXHAUST FLUE DUCTED THROUGH SIDEWALL WITH MANUFACTURER PROVIDED WALL CAP.
2. PROVIDE UNIT WITH TOTALLY ENCLOSED BURNER BOX THAT INCLUDES SIGHT GLASS AND INDICATOR LIGHTS AND THREE PRONG POWER CORD 36" LONG @ 2.3 AMP DRAW.
3. PROVIDE AND INSTALL UNIT WITH POLISHED ALUMINUM REFLECTOR, END CAPS, AND ALL REQUIRED ADDITIONAL ACCESSORIES REQUIRED FOR INSTALLING HEATER AT 0° MOUNTING ANGLE.

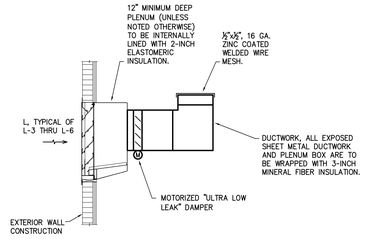
UNIT HEATER SCHEDULE

TAG	MFG	SERIES	MODEL	TYPE	KW	MBH	CFM	ELECT	AMPS	LOCATION	REMARKS
EUH-1	MARKEL	5100	F2F5103N	VERTICAL DOWN FLOW	3.3	11.2	400	208 / 3	9.2	JANITOR 103	1

REMARKS:
1. PROVIDE AND INSTALL UNIT WITH INTERGRAL THERMOSTAT, FACTORY PROVIDED DISCONNECT SWITCH, AND WALL/CEILING BRACKET.

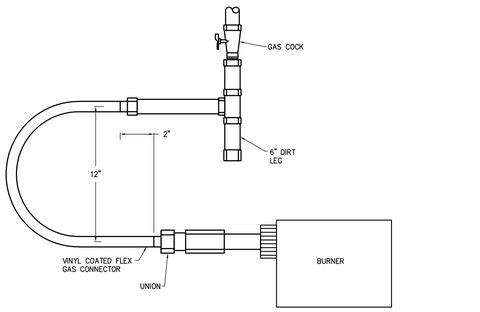


SIDEWALL EXHAUST FAN DETAIL
NOT TO SCALE

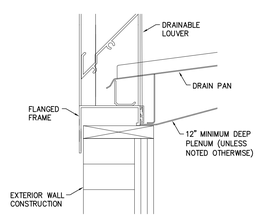


MECHANICAL VENTILATION LOUVER DETAIL
NOT TO SCALE

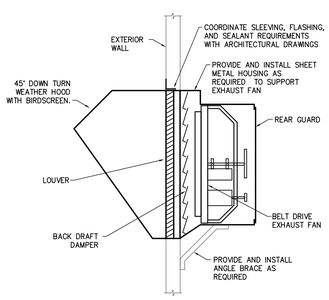
LOUVER PLENUM SECTION
NOT TO SCALE



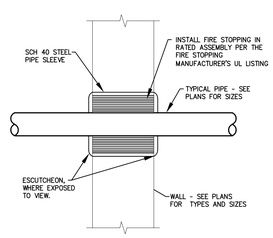
GAS FIRED INFARED HEATER HOOK UP
NOT TO SCALE



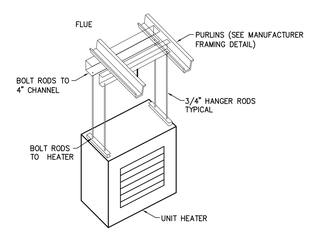
A LOUVER PLENUM SECTION ENLARGED PLAN
NOT TO SCALE



SIDEWALL EXHAUST FAN DETAIL
NOT TO SCALE



TYPICAL PIPING FIRE WALL OR CEILING PENETRATION DETAIL
NOT TO SCALE



UNIT HEATER & HANGER DETAIL
NOT TO SCALE (VERIFY HANGER DETAIL W/ MANUFACTURERS DETAILS)

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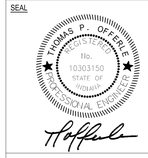
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SEAL



FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

Fort Wayne International Airport
General Aviation Hangar 2070

FWACAA Project No. AF26-07
10896 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS		
NO.	DESCRIPTION	DATE
1	Addendum 01	xx-xx-26

PROJECT NO. 2601701 (262919)
ISSUE DATE 10/21/2026
SUBMITTAL Bidding and Construction

Mechanical Details and Schedules

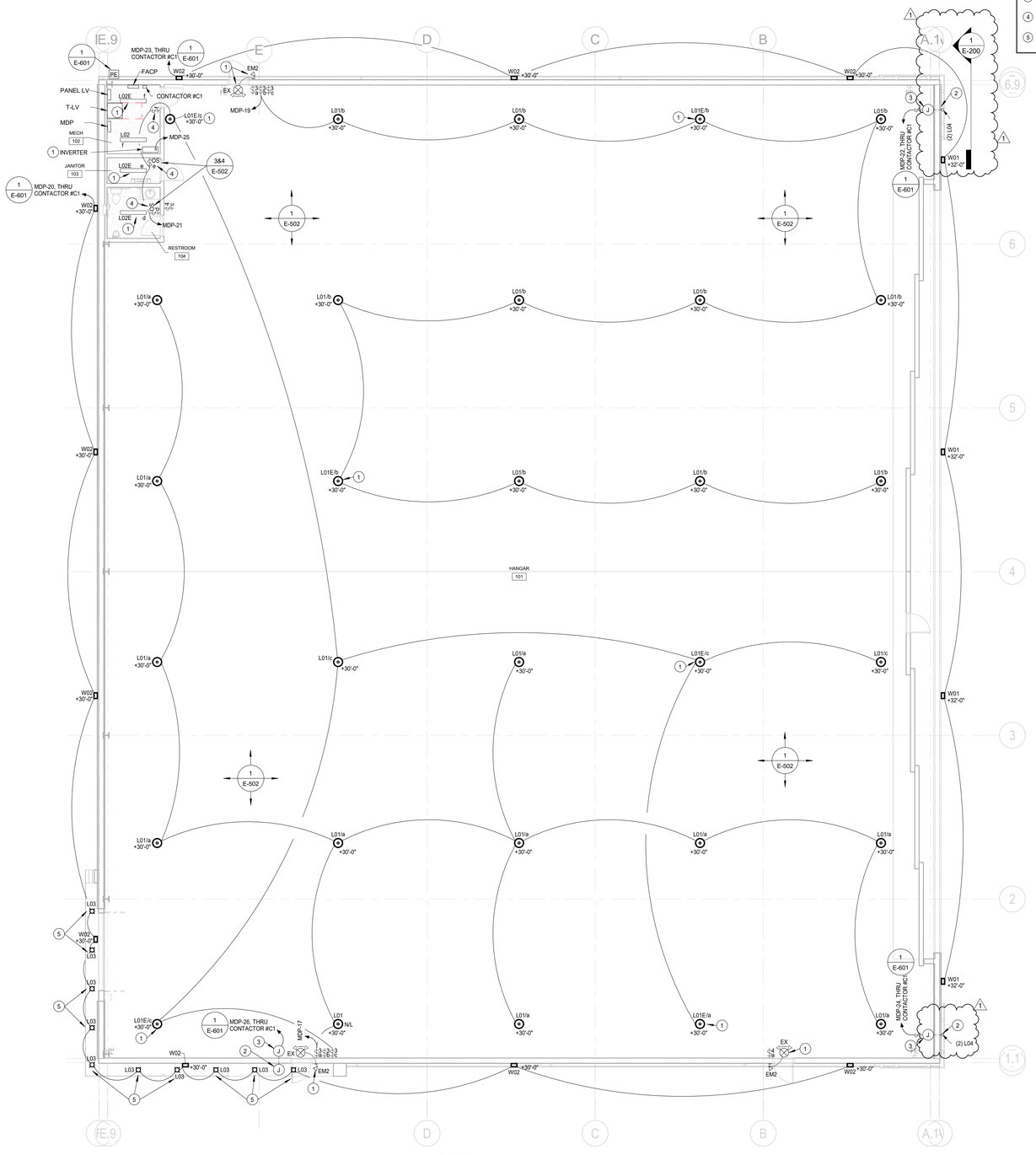
M-601

9/9/2026 3:29:48 PM
Cloud Models:P:\FWCAA Gen Aviation Hangar\FWA Hangar 2070 Elec Central.rvt

ELECTRICAL PLAN NOTES

- ALL SCOPES OF WORK, WITHIN THE 'E' SERIES OF DRAWINGS, ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THIS SCOPE OF WORK WITH ALL OTHER TRADES AND GENERAL CONTRACTOR/CONSTRUCTION MANAGER.

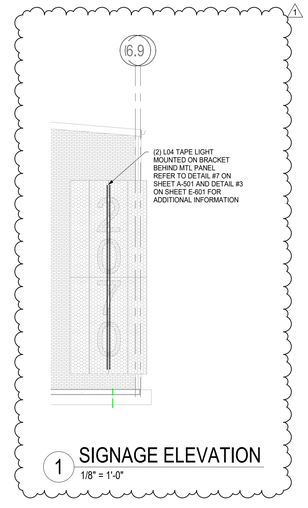
1. TERMINATE EXIT, EM, AND EM1 FIXTURES THRU INVERTER SYSTEM EQUAL TO IOTA #ISC-2200-277IN-277OUT-WALL-LCR-SYR WITH (6) 1P277 / 10AMP / NORMALLY OFF CONTROL BREAKERS. EACH LUMINAIRE WITH IOTA #ETS-20 LOAD CONTROLLERS. INVERTER AND ACCESSORIES PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. PROVIDE AND INSTALL RECESSED JUNCTION BOX(S) IN EXTERIOR WALL, BEHIND THE CORNER PERFORATED PANEL, FOR BUILDING SIGNAGE PROVIDED BY OTHERS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND SIGN MANUFACTURER FOR FINAL QUANTITY, ELEVATION, LOCATION, AND REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL PROVIDE JUNCTION BOX ON INTERIOR WALL WITH 1/2"C ROUTED THRU EXTERIOR TERMINATED TO RECESSED JUNCTION BOX SERVING EXTERIOR SIGNAGE.
4. CONTRACTOR SHALL TERMINATE EXHAUST FAN CONTROLS THRU 120/277V RELAY CONNECTED TO LIGHTING CONTROLS SERVING AREA.
5. CONTRACTOR SHALL MOUNT FIXTURE TYPE 'L03' AT 22'-0" ON BOTTOM OF METAL COMPOSITE PANEL ABOVE WINDOWS. COORDINATE FINAL LOCATION WITH ARCHITECT.



PLAN NORTH

First Floor Electrical Lighting Plan

1/8" = 1'-0"



1 SIGNAGE ELEVATION

1/8" = 1'-0"

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PURSUANT TO SECTION 102 OF THE COPYRIGHT ACT, 17 U.S.C., PROTECTION FOR AN ARCHITECTURAL WORK CREATED AS A WORK MADE FOR HIRE ON OR AFTER DECEMBER 1990 EXTENDS TO THE DESIGN OF THE BUILDING EMBODIED IN THE WORK, WHICH LASTS FOR THE LIFE OF THE AUTHOR PLUS 70 YEARS FROM THE DATE OF CREATION OF THE UNPUBLISHED PLANS, WHICHEVER TERM IS LESS.

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WRITTEN DIMENSIONS ON THESE DOCUMENTS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DRAWINGS AND DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

SEAL



FORT WAYNE- ALLEN COUNTY AIRPORT AUTHORITY

Fort Wayne International Airport
General Aviation Hangar 2070

FWACAA Project No. AF26-07
10896 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum #1	11-05-26

PROJECT NO. 2601701 (262919)
ISSUE DATE 10.21.2026
SUBMITTAL Bidding and Construction

First Floor Electrical Lighting Plan

E-200

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Revit Models in the\CAA Jan Aviation Hangar\Rvt Hangar 2070 Cac_Central.rvt

POWER CONDUIT AND CONDUCTORS SCHEDULE

NOTE NO.	CONDUIT, CONDUCTORS, GROUND	NOTE NO.	CONDUIT, CONDUCTORS, GROUND
(1)	3/4"C, 2-#10, 1-#10	(28)	3"C, 3-#350KcMil, 1-#4
(2)	3/4"C, 3-#10, 1-#10	(29)	3"C, 4-#350KcMil, 1-#4
(3)	3/4"C, 4-#10, 1-#10	(30)	4"C, 3-#500KcMil, 1-#3
(4)	3/4"C, 2-#8, 1-#10	(31)	4"C, 4-#500KcMil, 1-#3
(5)	3/4"C, 3-#8, 1-#10	(32)	4"C, 3-#600KcMil, 1-#3
(6)	1"C, 4-#8, 1-#10	(33)	4"C, 4-#600KcMil, 1-#3
(7)	1"C, 2-#6, 1-#8	(34)	2 SETS OF (2 1/2"C, 3-#4/0, 1-#2)
(8)	1"C, 3-#6, 1-#8	(35)	2 SETS OF (2 1/2"C, 4-#4/0, 1-#2)
(9)	1 1/4"C, 4-#6, 1-#8	(36)	2 SETS OF (3"C, 3-#250KcMil, 1-#2)
(10)	1 1/4"C, 3-#4, 1-#8	(37)	2 SETS OF (3"C, 4-#250KcMil, 1-#2)
(11)	1 1/4"C, 4-#4, 1-#8	(38)	2 SETS OF (3"C, 3-#350KcMil, 1-#1)
(12)	1 1/4"C, 3-#3, 1-#8	(39)	2 SETS OF (3"C, 4-#350KcMil, 1-#1)
(13)	1 1/4"C, 4-#3, 1-#8	(40)	2 SETS OF (4"C, 3-#500KcMil, 1-#1/0)
(14)	1 1/4"C, 3-#2, 1-#6	(41)	2 SETS OF (4"C, 4-#500KcMil, 1-#1/0)
(15)	1 1/2"C, 4-#2, 1-#6	(42)	2 SETS OF (4"C, 3-#600KcMil, 1-#1/0)
(16)	1 1/2"C, 3-#1, 1-#6	(43)	2 SETS OF (4"C, 4-#600KcMil, 1-#1/0)
(17)	2"C, 4-#1, 1-#6	(44)	3 SETS OF (4"C, 3-#350KcMil, 1-#2/0)
(18)	2"C, 3-#1/0, 1-#6	(45)	3 SETS OF (4"C, 4-#350KcMil, 1-#2/0)
(19)	2"C, 4-#1/0, 1-#6	(46)	3 SETS OF (4"C, 3-#600KcMil, 1-#3/0)
(20)	2"C, 3-#2/0, 1-#6	(47)	3 SETS OF (4"C, 4-#600KcMil, 1-#3/0)
(21)	2"C, 4-#2/0, 1-#6		[SERVICE ENTRANCE SETS]
(22)	2"C, 4-#3/0, 1-#6	(48)	2 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE]
(23)	2 1/2"C, 4-#3/0, 1-#6	(49)	8 SETS OF [4"C, 4-#500KcMil, W/(1) 4" SPARE]
(24)	2 1/2"C, 3-#4/0, 1-#4	(50)	4 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE]
(25)	2 1/2"C, 4-#4/0, 1-#4	(51)	5 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE]
(26)	2 1/2"C, 3-#250KcMil, 1-#4	(52)	6 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE]
(27)	3"C, 4-#250KcMil, 1-#4	(53)	7 SETS OF [4"C, 4-#750KcMil, W/(1) 4" SPARE]

REFER TO SPECIFICATIONS FOR CONDUIT TYPE REQUIREMENTS PER RESPECTIVE APPLICATION

LUMINAIRE SCHEDULE

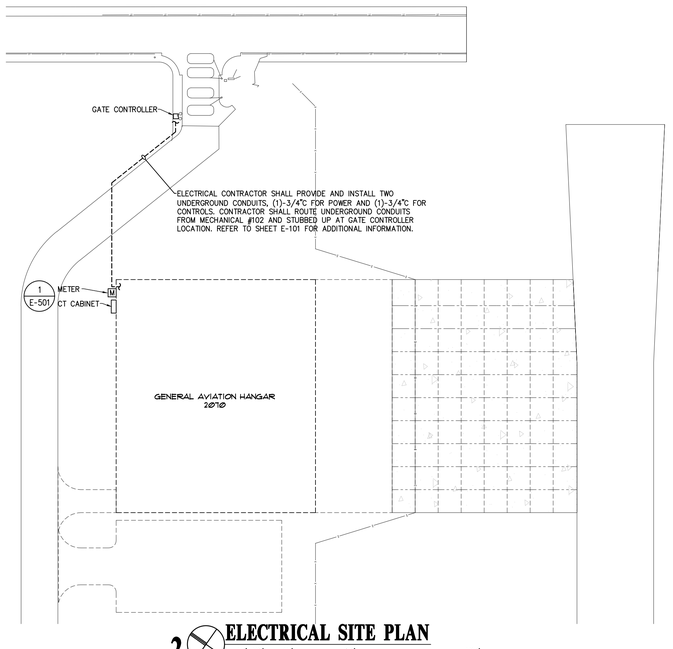
TYPE	MANUFACTURER'S CATALOG NUMBER	MOUNT	LED LUMENS	LED COLOR	VOLTAGE	INPUT WATTS	REMARKS
L01	LITHONIA #REBL ALO28 MD UVOLT SWW9 80CRI DWH METALUX, COLUMBIA, HE WILLIAMS	HOOK & PLUG	45000	4000K	120/277	249	CONTRACTOR SHALL PROVIDE AND INSTALL COMPATIBLE SWITCHING AND CABLING REQUIRED FOR NORMAL AND TUNABLE DIMMING, DIMMING DOWN TO 1%
L01E	SAME AS L01 THRU IOTA #ETS-20 CONNECTED TO IOTA INVERTER; TERMINATE TO LINE SIDE OF CIRCUIT SUCH THAT UPON LOSS OF POWER, LAMPS ENERGIZE. BATTERY PACK SHALL BE FACTORY INSTALLED.						
L02	LITHONIA #FEM L48 4000LM IMAFL MD 40K 80CRI METALUX, COLUMBIA, HE WILLIAMS	SURFACE	3525	4000K	120/277	35	CONTRACTOR SHALL PROVIDE AND INSTALL COMPATIBLE SWITCHING AND CABLING REQUIRED FOR NORMAL AND TUNABLE DIMMING, DIMMING DOWN TO 1%
L02E	SAME AS L02 THRU IOTA #ETS-20 CONNECTED TO IOTA INVERTER; TERMINATE TO LINE SIDE OF CIRCUIT SUCH THAT UPON LOSS OF POWER, LAMPS ENERGIZE. BATTERY PACK SHALL BE FACTORY INSTALLED.						
L03	JUNO #WF4 3000K 90CRI MW WF8643PAN WFEXC20 SWSPINFT4 HALO, COLUMBIA, HE WILLIAMS	CANOPY	750	4000K	120/277	8	CONTRACTOR SHALL PROVIDE AND INSTALL COMPATIBLE SWITCHING AND CABLING REQUIRED FOR NORMAL AND TUNABLE DIMMING, DIMMING DOWN TO 1%
L03E	SAME AS L03 THRU IOTA #ETS-20 CONNECTED TO IOTA INVERTER; TERMINATE TO LINE SIDE OF CIRCUIT SUCH THAT UPON LOSS OF POWER, LAMPS ENERGIZE. BATTERY PACK SHALL BE FACTORY INSTALLED.						
L04	QTL LIGHTING #SHLD-SW-HE24/1.5 WET 40 BW120 BW120 BK CL2P TL - 288 MOUNTED IN EXTRUSION #LALO BK SST DF NI 288 CORE, VLT	TAPE LIGHT	180/FT (4320)	4000K	120/277	1.5/FT (36)	CONTRACTOR SHALL PROVIDE AND INSTALL TOTAL SECTIONS WITH POWER AND CORD AS REQUIRED LENGTH OF RUN SPECIFIED, FOR PROVIDED 24V POWER BLOCK
W01	LITHONIA #WDGE2 LED P5 40K 80CRI VF MVOLT SRM DDBXD McGRAW EDISON, KIM	WALL	5567	4000K	277	48	
W02	LITHONIA #WDGE2 LED P5 40K 80CRI VW MVOLT SRM DDBXD McGRAW EDISON, KIM	WALL	3093	4000K	277	23	
EX	LITHONIA #LOM S BBS RG MVOLT EL SD DUAL LITE, SURE LITE	UNIVERSAL		RED	120/277	1.5	

THESE REMARKS APPLY TO ALL LUMINAIRE TYPES:

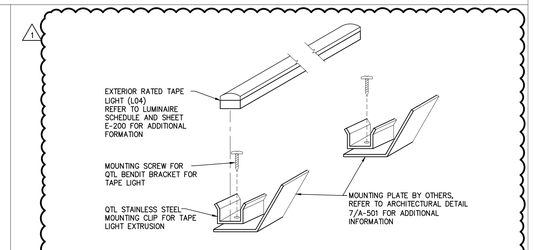
- LUMINAIRES HAVE BEEN SPECIFIED ON A PERFORMANCE BASIS.
- LUMINAIRES LISTED ARE APPROVED, EQUALS MUST BE SUBMITTED FOR APPROVAL PRIOR TO BID.

- ** LUMINAIRE SHALL BE COMPARABLE IN APERTURE SIZE
- ** LED'S SHALL HAVE THE SAME KELVIN TEMPERATURE
- ** LUMINAIRE SHALL MEET OR EXCED THE LUMEN OUTPUT OF SPECIFIED LUMINAIRE
- ** LUMINAIRE SHALL NOT EXCEED THE WATTAGE BY MORE THAN 10%
- ** PROVIDED SUBMITTAL SHALL INCLUDE INFORMATION ON LM-79/LM-80 TESTING, NUMBER OF LED'S AND ENGINES, DRIVER INFORMATION (INCLUDING DRIVE CURRENT), SYSTEM WATTAGE, AND WARRANTY INFORMATION
- ** ANY APPROVED LUMINAIRES SHALL BE LISTED DURING THE ADDENDA PROCESS. NO VERBAL APPROVALS SHALL BE GIVEN OR ACKNOWLEDGED.

- REFER TO FLOOR PLAN FOR SINGLE OR DUAL SWITCHING REQUIREMENTS
- LISTED EMERGENCY BATTERY PACKS/TRANSFER DEVICES SHALL BE FACTORY MOUNTED WITHIN LUMINAIRE AND TERMINATED AS REQUIRED
- TEST SWITCHES FOR EMERGENCY FIXTURES, INTEGRAL AND NOT INTEGRAL TO THE FIXTURES, SHALL BE MOUNTED VISIBLY ADJACENT TO THE FIXTURE.
- UNLESS SPECIFICALLY NOTED, LED DRIVERS SHALL BE INTERNAL TO THE FIXTURE, NOT REMOTE
- FIXTURES SHALL BE SUPPLIED WITH FACTORY INSTALLED WHIPS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIAL AND LABOR AS REQUIRED FOR THE COMPLETE INSTALLATION OF 2 ADDITIONAL EXIST SIGNS TO BE LOCATED BY THE ARCHITECT/ENGINEER DURING CONSTRUCTION.
- ADDITIONAL EXITS AND EMERGENCY LIGHTING MAY BE REQUIRED PENDING AHJ REVIEW, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL FIXTURES AS REQUIRED.
- MATERIAL ALLOWANCES LISTED ARE ONLY FOR THE COST OF THE LUMINAIRE OR LUMINAIRE COMBINATION AS NOTED.
- BASE BID SHALL INCLUDE ALL HARDWARE, CONDUIT, WIRE AND LABOR NEEDED FOR A COMPLETE AND FUNCTIONAL INSTALLATION OF ALL LUMINAIRES.
- ELECTRICAL CONTRACTOR SHALL MOUNT ALL SURFACE MOUNTED EXIT LIGHTS 6 INCHES ABOVE DOOR HEADER.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING EXIT SIGN COLOR IN EXISTING BUILDING, AND ENSURE THAT ANY EXIT SIGNS THAT ARE ADDED/REPLACED IN THE BUILDING SHALL MATCH EXISTING EXIT SIGN COLOR.

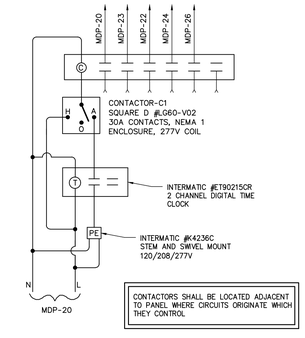


2 ELECTRICAL SITE PLAN



3 EXTERIOR TAPE LIGHT MOUNTING DETAIL

NOT TO SCALE



1 EXTERIOR LIGHTING DIAGRAM

NOT TO SCALE

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SEAL



FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

Fort Wayne International Airport
General Aviation Hangar 2070

FWACAA Project No. AF26-07
10896 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM	11.05.26

PROJECT NO. 2601701 (262919)
ISSUE DATE 10/21/2026

SUBMITTAL
Bidding and Construction

Electrical Schedules

E-601

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