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A D D E N D U M

Project No.:	2601701	**Addendum No:**	02
Project:	AF26-07 Fort Wayne International Airport, General Aviation Hangar 2070	Date:	11/17/2026

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 02, 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.

PROJECT MANUAL:

ITEM NO. 1.01 - PROJECT MANUAL, 01 22 00 Unit Prices

A. Article 1.4, paragraph A; the following has been added to unit prices
   1. Soil Stabilization

ITEM NO. 1.02 - 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.
   1. Whirlwind Steel Buildings, www.whirlwindsteel.com
   2. ACI Building Systems, www.acibuildingsystems.com

ITEM NO. 1.03 - PROJECT MANUAL, 08 36 13, Sectional Overhead Doors

A. Article 2.1, paragraph A, sub-paragraph A; The following product and manufacturer has been removed.
   1. “ThermoMark Model 530” by Wayne-Dalton Corporation, Mt. Hope, OH
B. Article 2.2, paragraph; The following language has been added.
   1. “or polyurethane”
C. Article 2.3, paragraph A; the Basis of Design has been changed from the, “Raynor Model RCT electric trolley type operator” to “Raynor Model CMH, listed UL 325 2010.”
D. Article 2.3, paragraph B; Trolley type specification provision has been stricken.
E. Article 2.3, paragraph C; Revised “115V” to “120V”
F. Article 2.3, paragraph G; Revised to read as follows:
   1. “Limit Switches: Provide adjustable cam-operated open and close type limit switch, enclosed in electrical control box, easily accessible for setting.”
G. Article 2.3, paragraph L; Revised to read as follows:
   1. “3-Button Control Station: Provides open/close/stop function under continuous pressure. Controller located within sight of the door.”

DRAWINGS:

ITEM NO. 2.01 - DRAWING NO. C-100 Existing Condition Site Plan

A. The existing underground electrical line will not need to be relocated.

ITEM NO. 3.01 – DRAWING NO. S-001 STRUCTURAL NOTES

A. PEMB DESIGN LOADS: Heaters are roughly 450 lbs each and fans are 220 lbs each (heaters 450lb/62ft long = 7.2 plf 7.2plf/5psf = 1.45ft wide of trib. area for collateral and you can’t really have any other collateral load at the heater locations)
   1. Fans are not included in the collateral load.
   2. Radiant heaters are included in the collateral load

ITEM NO. 4.01 - DRAWING NO. A-201 Building Elevations

A. Revision of allocated future signage area from 12’ x 8’ to 12’ x 4’ - 8”.
   1. Future signage area sized for 15” letters
   2. Future signage relating to elevation note 5.01 planned for roughly 300 lbs.
B. Addition of Elevation Note 5.02 to read as follows:
   1. “HENDRICK ARCHITECTURAL H-CLAD PERFORATED PANEL SYSTEM OR APPROVED EQUAL. APPROX 3" X 3" HEXAGON SHAPE PERFORATIONS, STAGGERED PATTERN, 56% OPEN, .190” THICK, MATTE FINISH”
C. Revision of “PEMB EAVE” Elevation from 133’ - 0” to 133’ - 8”

ITEM NO. 4.02 - DRAWING NO. A-211 Interior Elevations

A. Revision of “PEMB EAVE” Elevation from 133’ - 0” to 133’ - 8”

ITEM NO. 4.03 - DRAWING NO. A-301 Building Sections and Details

A. Hangar door rail system will not include a radiant heating system.

B. Revision of annotation on detail 3/A-301 to read as follows:

1. “STUCTURE BY PEMB MANUFACTURER AS REQUIRED“

C. Revision of “PEMB EAVE” Elevation from 133’ - 0” to 133’ - 8”

ITEM NO. 4.04 - DRAWING NO. A-301 Building Sections and Details

A. Revision of “PEMB EAVE” Elevation from 133’ - 0” to 133’ - 8”

ITEM NO. 4.05 - DRAWING NO. A-501 Architectural Details

A. Revision of perforated metal panel annotation on detail 6/A-501 to read as follows:

1. “PERFORATED METAL PANEL BY CONTRACTOR, REF ELEVATION NOTE 5.02”

ITEM NO. 5.01 – MEP

A. Refer to attached MEP Addendum 02

Submitted By:

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

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cc: ☐ File: G:\002026\2601701 FWACAA Gen Aviation Hangar\0800 Bidding\0810 Addenda\2026-11-06_FWA Hangar 2070_Addendum 02.pdf
☐ Owner:
☐ Contractor:
☐ Consultant:
☐ Consultant:

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SECTION 01 22 00 - UNIT PRICES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Measurement and payment criteria applicable to the Work performed under a unit price payment method.

B. Defect assessment and nonpayment for rejected Work.

1.3 AUTHORITY

A. The Owner and Architect will verify measurements and quantities.

1.4 UNIT PRICES REQUESTED

A. The following unit prices will be added to (or deducted from) the Base Bid amount:

No.	Classifications	Unit for Additions & Deletions
1.	Removal of poor soils and replacement with engineered fill. To be coordinated with Geotechnical Engineer.	C.Y.
2.	BX-1100 geogrid. To be coordinated with Geotechnical Engineer.	S.Y.
3.	Soil Stabilization	C.Y.

1.5 PAYMENT

A. Payment includes compensation for required labor, products, materials, tools, equipment, plant, transportation, application and installation of the work, and overhead and profit.

B. Final payment for Work govered by unit prices will be made on the basis of the actual measurements and quantities accepted by the Architect multiplied by the unit price for Work.

1.6 DEFECT ASSESSMENT

A. Immediately replace the Work not conforming to specified requirements and as direction by the Architect and Owner.

B. It is the authority of the Architect and Owner to assess the defect and identify payment adjustment.

1.7 NONPAYMENT FOR REJECTED PRODUCTS

A. Payment will not be made for any of the following:

1. Products wasted or disposed of in a manner that is not acceptable.

2. Products determined as unacceptable before or after payment.

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3. Products not completely unloaded from the transportation vehicle.
4. Products placed beyond the lines and levels of the required Work.
5. Products remaining at site after completion of the Work.
6. Loading, hauling, and disposing of rejected products.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.1 INSTALLATION

A. Comply with requirements of referenced specification sections for the product.

B. Install all items in strict accordance with the manufacturers written installation instructions.

END OF SECTION

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SECTION 08 36 13 - SECTIONAL OVERHEAD DOORS

PART 1 GENERAL

1.1 SUMMARY

A. Provide labor, materials, and equipment necessary for complete installation of the sectional overhead doors, tracks, and all accessories as shown on Drawings and as specified.

1.2 SUBMITTALS

A. Submit all sectional overhead doors 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 product data submittal. Architect is not responsible for review of this information. Submittals that include SDS will be returned as rejected.

C. Submit shop drawings, product data, and details for the complete installation in accordance with Division 01 requirements.

D. Submit warranty as specified.

1.3 CLOSEOUT SUBMITTALS

A. Record Documents: Product data, reviewed shop drawings, and warranty are to be included in Operation and Maintenance Data.

B. Maintenance Instructions: Include instructions for motor maintenance and manufacturer's recommended service technician for coiling counter door service to be included in the Operation and Maintenance Data.

1.4 QUALITY ASSURANCE

A. Perform Work in accordance with DASMA 102, Specifications for Sectional Overhead-Type Doors. Maintain one copy on site.

B. Manufacturers Qualifications: Company specializing in manufacturing the products as specified with a minimum of ten (10) years experience.

C. Installer Qualifications: Company specializing in performing the work of this section with a minimum of five (5) years experience.

1.5 WARRANTY

A. Submit manufacturer’s standard warranty for door and parts to be free from defects in materials and workmanship for a period of one (1) year from the Date of Substantial Completion.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Provide exterior sectional overhead doors as manufactured by:

1. "ThermaSeal TM320" by Raynor Garage Doors, Dixon, IL

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2. "Thermacore AP Door Model 850" by Overhead Door Corporation, Dallas, TX

3. "Model 832" by Haas Door Company, Wauseon, OH

2.2 EXTERIOR SECTIONAL OVERHEAD DOORS

A. Materials and Construction:

1. Provide door sections 3 inches thick, roll-formed from commercial-quality galvanized steel. Fabricate door sections with ribbed, stucco-embossed exterior face and roll-formed tongue-and-groove joints between sections to provide weathertight closure. Provide end stiles and center stiles formed from minimum 14-gauge galvanized steel. Rivet end stiles and center stiles to exterior face using stainless steel rivets, and resistance weld stiles to interior rails.

2. Exterior Steel Skin: 20 gauge

3. Interior Steel Skin: 25 or 26 gauge

B. Finish: Provide exterior door face sheets pre-coated prior to roll forming using a two-coat process consisting of baked-on polyester white enamel finish over epoxy primer. Provide interior door face sheets with baked-on gray polyester enamel finish.

C. Insulation: Provide expanded polystyrene or polyurethane insulation, 2-7/8 inches thick, manufactured without CFCs.

D. Tracks: Provide 3-inch galvanized steel tracks with “Graduated Seal” for weathertight closure. Mount tracks on continuous angles and configure for full adjustability to achieve a tight seal at door jambs. Reinforce horizontal tracks with continuous angles.

1. “High-Lift Headroom□" type track installation.

E. Hardware: Provide hinges and brackets fabricated from galvanized steel. Provide track rollers equipped with seven 1/4-inch-diameter hardened steel balls per roller.

F. Spring Counterbalance: Heavy duty oil tempered wire torsion springs on continuous ball bearing cross header shaft. Galvanized aircraft type lifting cables with minimum safety factor of 5 to 1.

G. Weatherstripping:

1. Provide bottom of door with U-type vinyl bulb seal and extruded aluminum retainer to form a continuous seal between door and floor.

2. Provide jamb seals consisting of EPDM rubber blades attached to rigid vinyl snap-on extrusions. Mount seals to track angle supports to form a continuous seal along door jambs when door is closed.

3. Provide header seals consisting of EPDM rubber seal secured in a galvanized steel retainer. Bolt retainer to top door section at header to form a continuous seal.

H. Finish: Exterior skin to have two coats of paint, one primer coat and one finish coat.

1. Enamel paint finish; to be selected by Architect.

2.3 ELECTRIC OPERATOR

A. Basis of Design: Raynor Model CMH, listed UL 325 2010.

B. ~~Trolley: Provide trolley rail consisting of two 1-1/2 inch by 1-1/2 inch, 11-gauge galvanized steel angles.~~

C. Motor: Provide 1/2 H.P., 120V, single phase permanent split capacitor motor with built-in automatic reset overload protection.

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D. Reduction: Furnish a V-belt drive from motor to full ball bearing power train with additional reduction by chain and sprockets. Provide power train shafts with a minimum diameter of 3/4 inch.

E. Roller Chain Drive: Provide door drive system capable of operating door at a speed of 6 to 12 inches per second, utilizing a roller chain mechanism.

F. Adjustable Friction Clutch: Provide obstruction protection system to prevent damage to door and operator when door movement is obstructed.

G. Limit Switches: Provide adjustable cam-operated open and close type limit switch, enclosed in electrical control box, easily accessible for setting.

H. Control Wiring: Provide control voltage of 24 volts with solid-state circuitry. Provide provisions for connection of safety edge to automatically reverse door upon contact with obstruction.

I. Electrical Enclosure: Provide all electrical components within NEMA 1 enclosures.

J. Emergency Operation: Provide disconnect device to permit manual operation of door.

K. Furnish magnetic solenoid brake for positive stop.

L. 3-Button Control Station: Provides open/close/stop function under continuous pressure. Controller located within sight of the door.

PART 3 EXECUTION

3.1 INSTALLATION

A. Install components in strict accordance with Drawings, details, and reviewed Shop Drawings. Install all items in strict accordance with manufacturer’s written installation instructions.

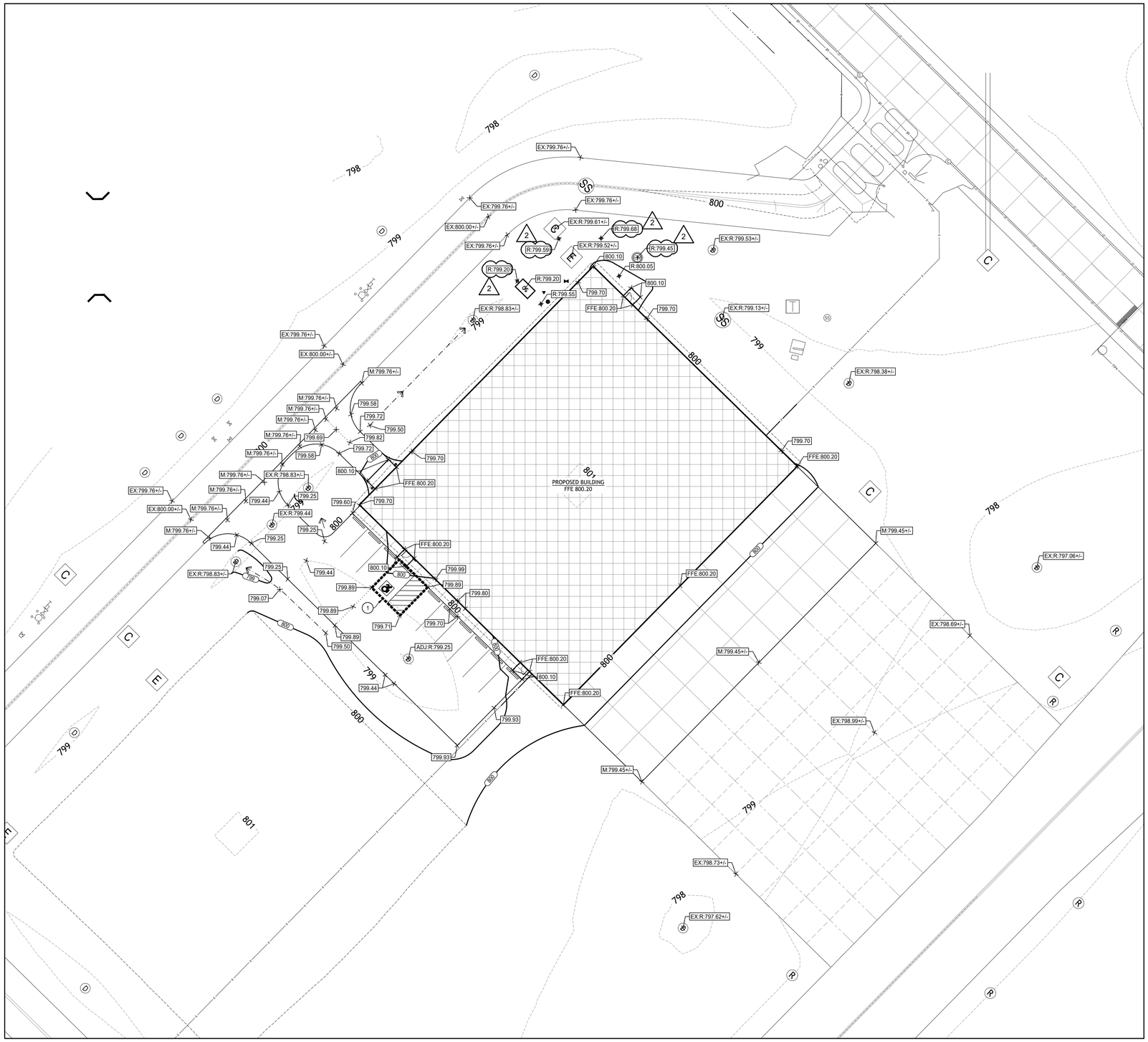
B. Provide all items and accessories as required for a complete installation in every respect.

END OF SECTION

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SITE GRADING PLAN

SCALE: 1" = 20'

NORTH

GRADING LEGEND:

800	PROPOSED CONTOUR
801	EXISTING CONTOUR
XXXX.xx	MATCH EXISTING SPOT
EXXXX.xx	EXISTING SPOT
XXXX.xx	PROPOSED SPOT
RXXXX.xx	PROPOSED RIM
	PROPOSED DRAINAGE INTENT
	PROPOSED BREAKLINE

NOTE: ALL ELEVATIONS ARE TO TOP OF PAVEMENT OR LAWN UNLESS NOTED OTHERWISE.

NOTE: ALL EXISTING CONTOURS ARE DESIGN CONTOURS FROM THE "EXTEND TAXIWAY G AND CONSTRUCT TAXILANE K1" PROJECT.

GRADING NOTE:

1. HANDICAP ACCESSIBLE PARKING STALLS TO BE CONSTRUCTED WITH LESS THAN 2.0% MAXIMUM SLOPE IN ALL DIRECTIONS.

ELEVATUS
ARCHITECTURE
111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802
260 424-9080 ElevatusArchitecture.com

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ENGINEERING RESOURCES, INC.
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

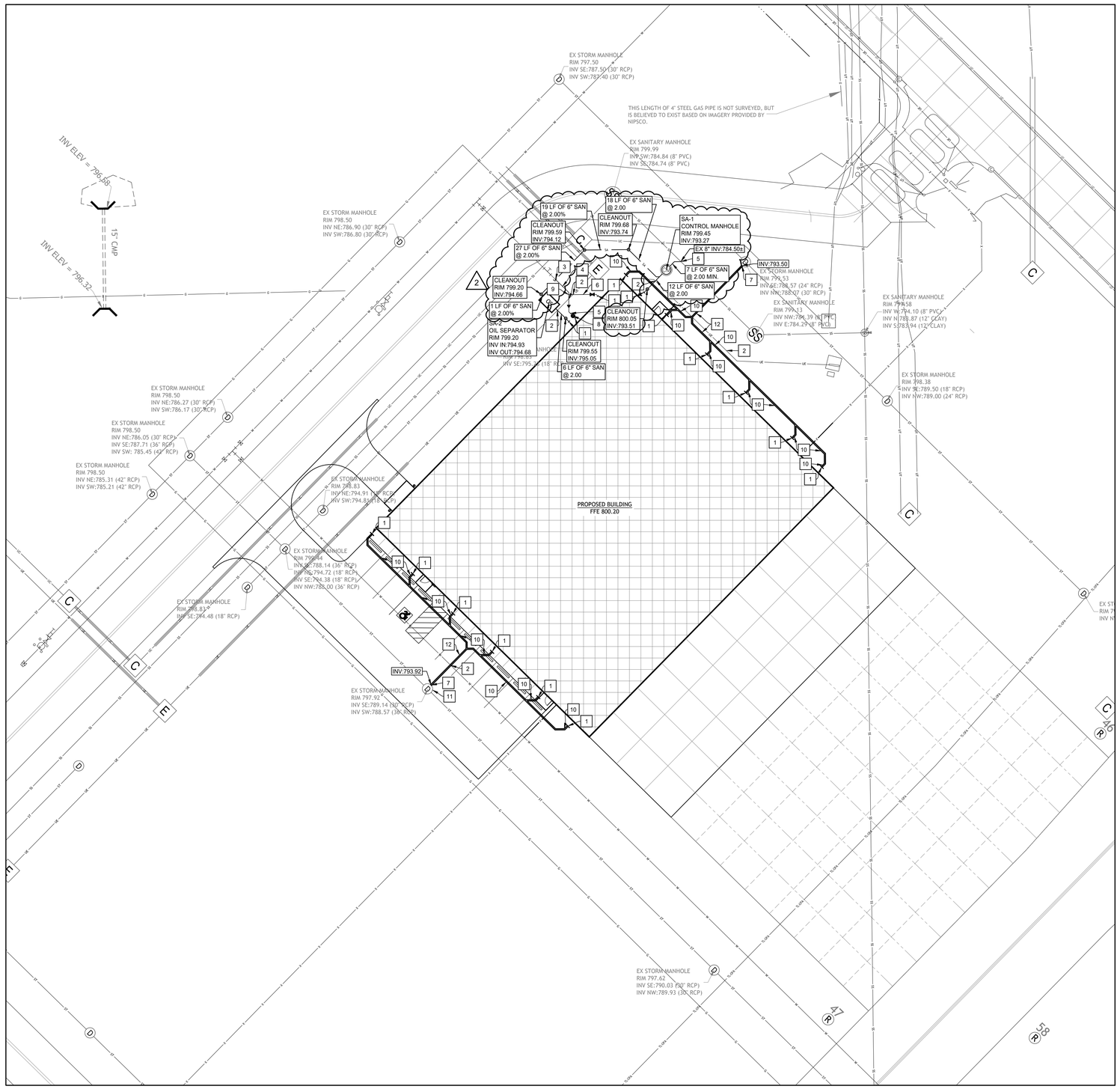
NO.	DESCRIPTION	DATE
1	ADD. 01	11/06/2026
2	ADD. 02	11/17/2026

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

Site Grading Plan

C-300

November 16, 2026 10:30 AM
S:\Projects\Projects (6000-6999)\Projects (6950-6999)\6983-FW Airport Hangar 2026 - Site\Drawing\6983-C3.0 Site Grading.dwg



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

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

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Fort Wayne International Airport
General Aviation Hangar 2070

FWACAA Project No. AF26-07
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REVISIONS

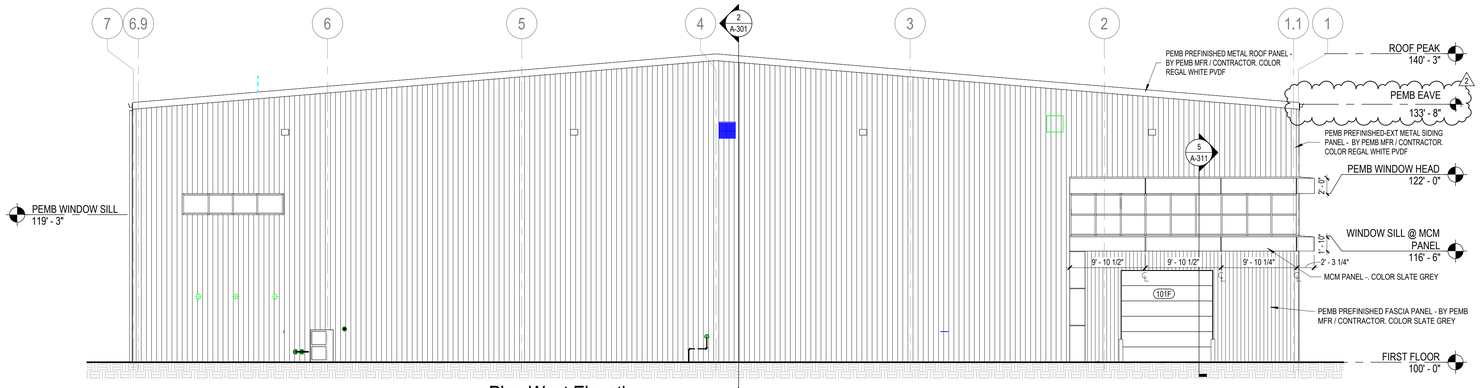
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PROJECT NO. 2601701
ISSUE DATE 10/21/2026
SUBMITTAL Bidding and Construction

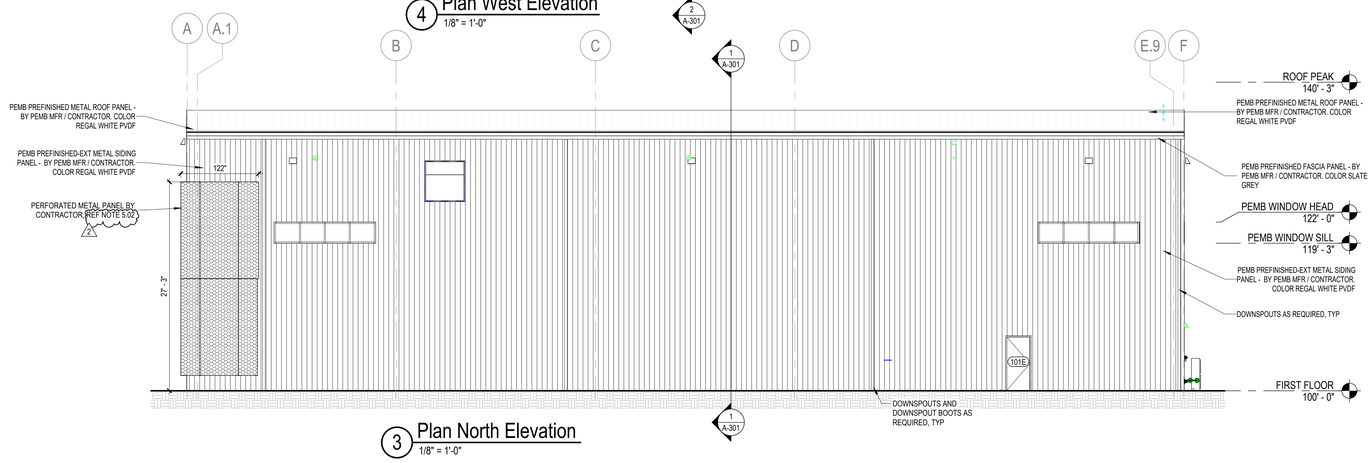
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C-400

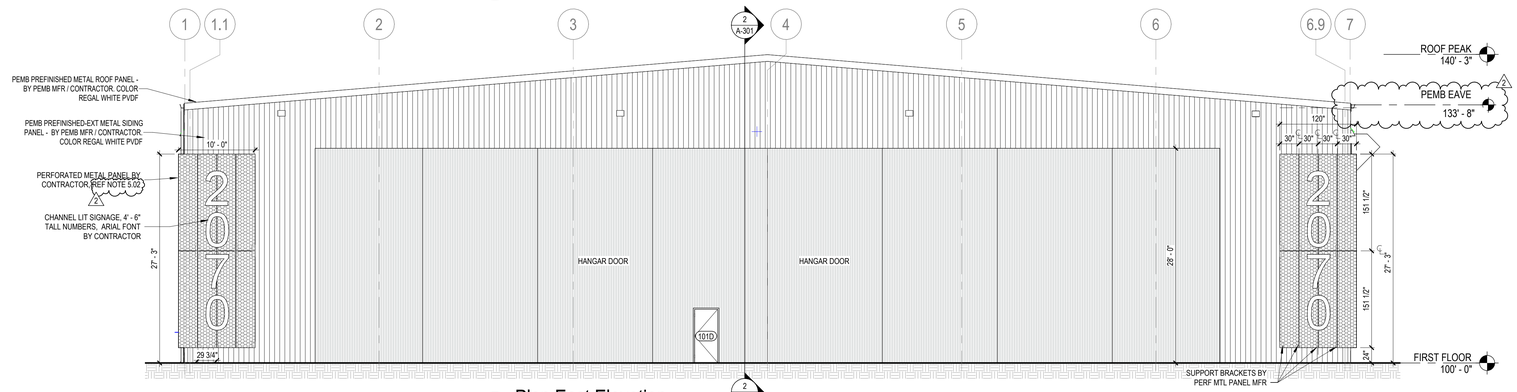
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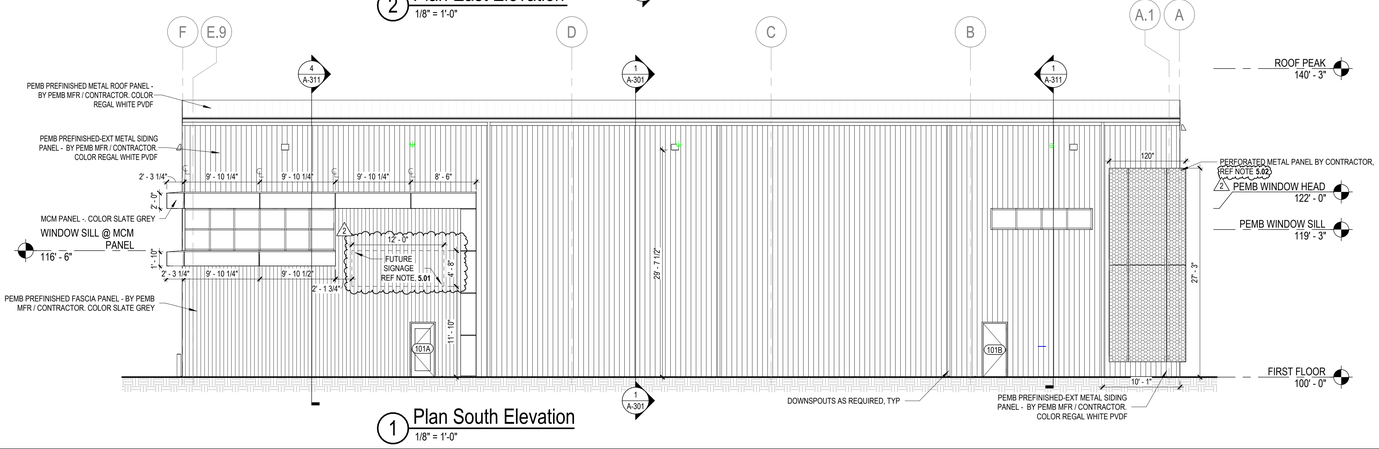
4 Plan West Elevation
1/8" = 1'-0"



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
5.02	HENDRICK ARCHITECTURAL H-CLAD PERFORATED PANEL SYSTEM OR APPROVED EQUAL. APPROX 3" X 3" HEXAGON SHAPE PERFORATIONS, STAGGERED PATTERN, 56% OPEN, .190 " THICK, MATTE FINISH.

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CORY D. MILLER
REGISTERED
No.10100148
STATE OF INDIANA
ARCHITECT

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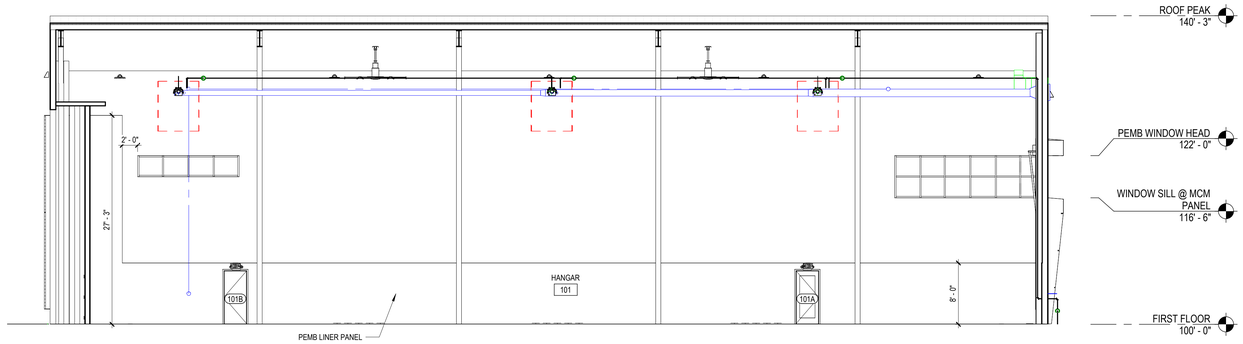
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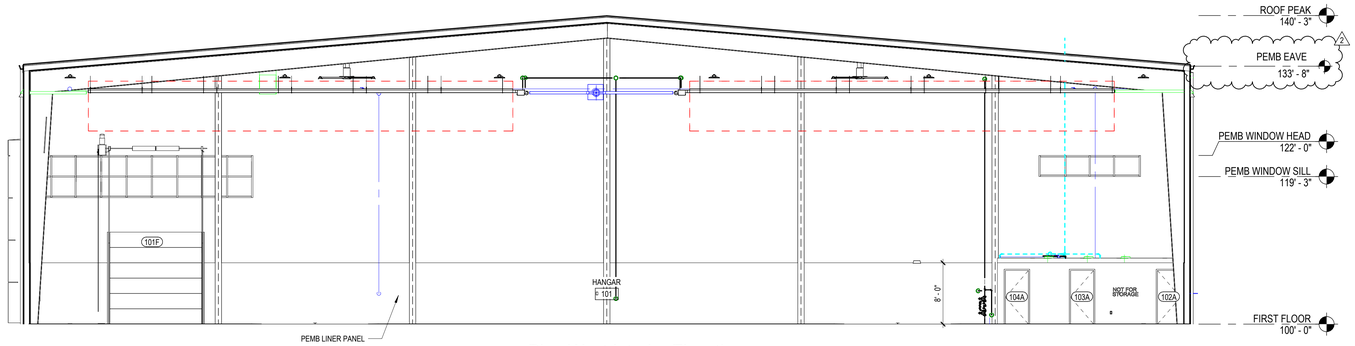
Building Elevations

A-201

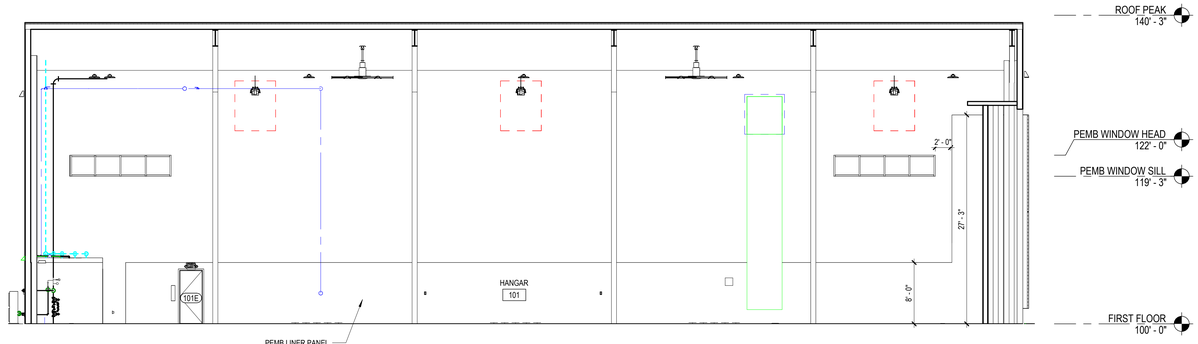
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Cloud Models // IWCAA Gen Aviation Hangar/2070 Hangar 2070_ARCH.rvt



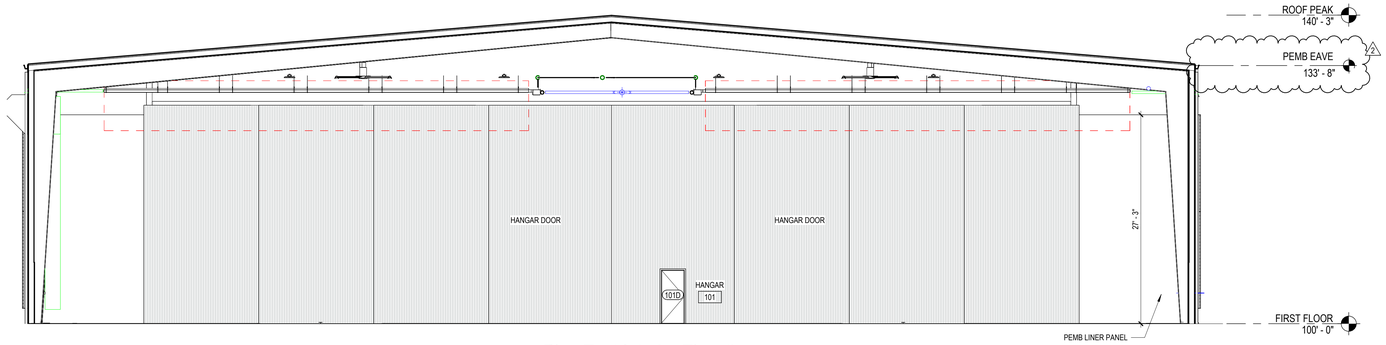
4 Plan North Interior Elevation
1/8" = 1'-0"



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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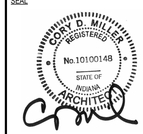
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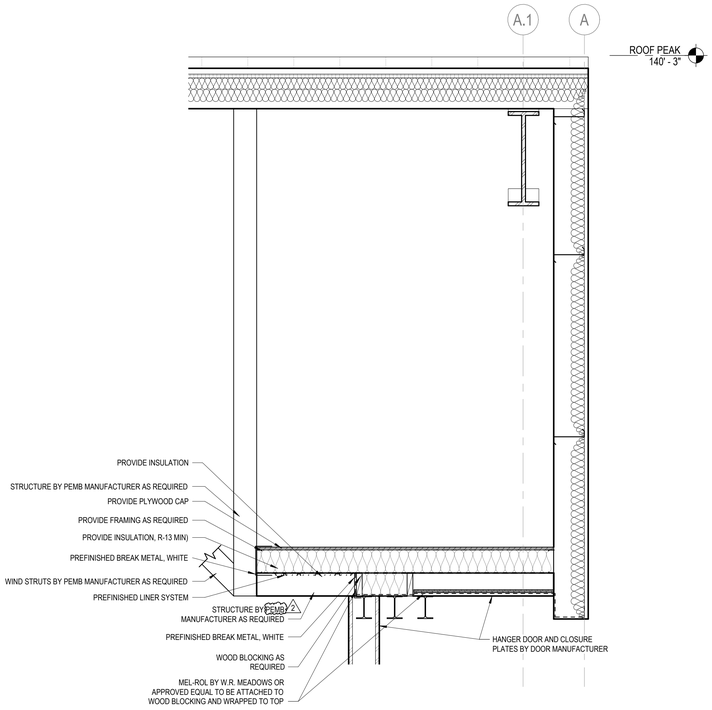
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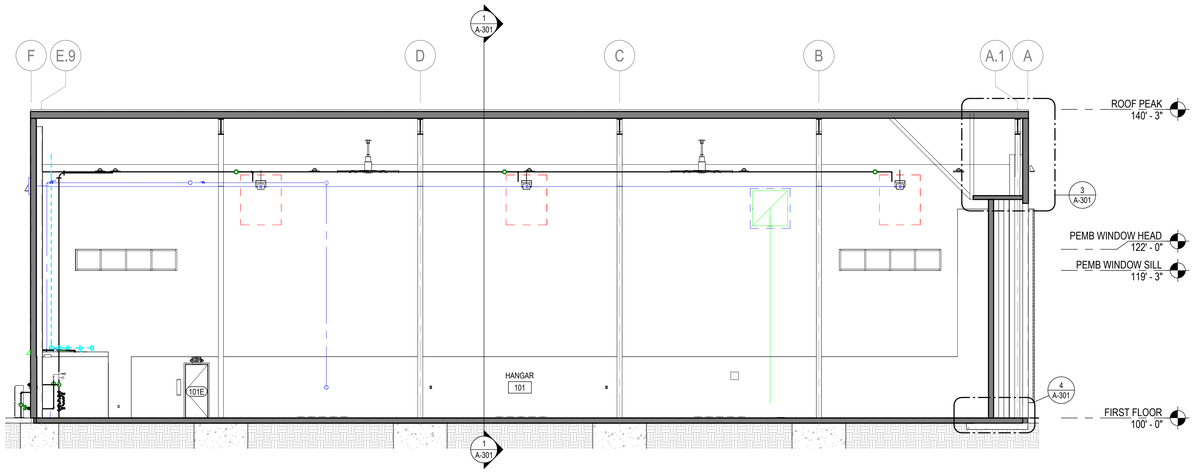
Interior Elevations

A-211

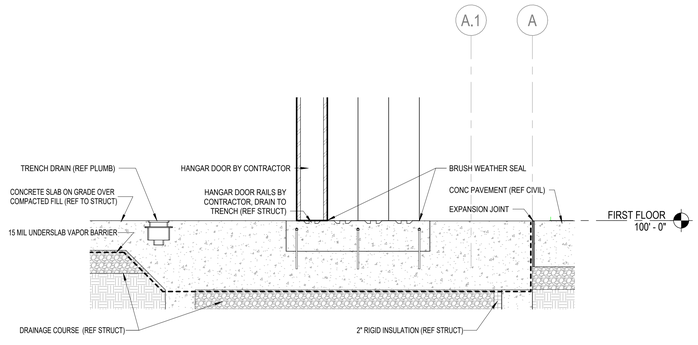
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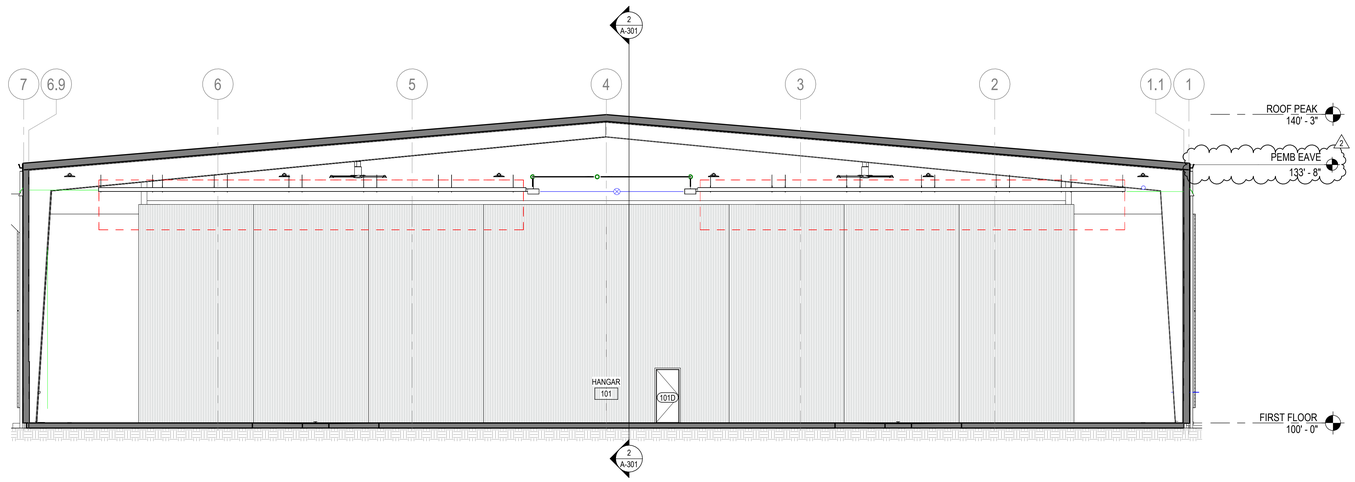
3 Door Soffit
3/4" = 1'-0"



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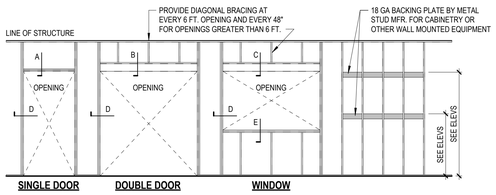
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PROJECT NO. 2601701
ISSUE DATE 10/21/2026
SUBMITTAL Bidding and Construction

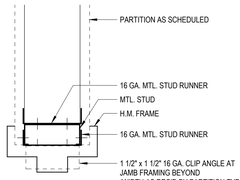
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A-301

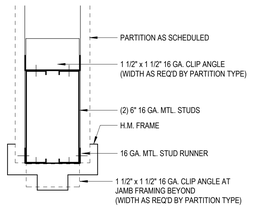
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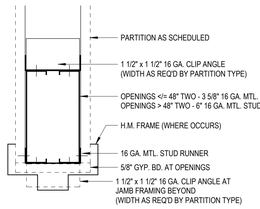
NOTES:
1. DETAIL CALLOUTS REFER TO TYPICAL OPENING FRAMING DETAILS THIS SHEET
2. BOTH JAMBS OF ALL OPENINGS CONT. TO BOTTOM OF STRUCTURE



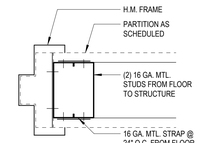
A - SINGLE DOOR HEADER



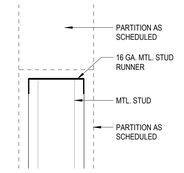
B - DOUBLE DOOR HEADER



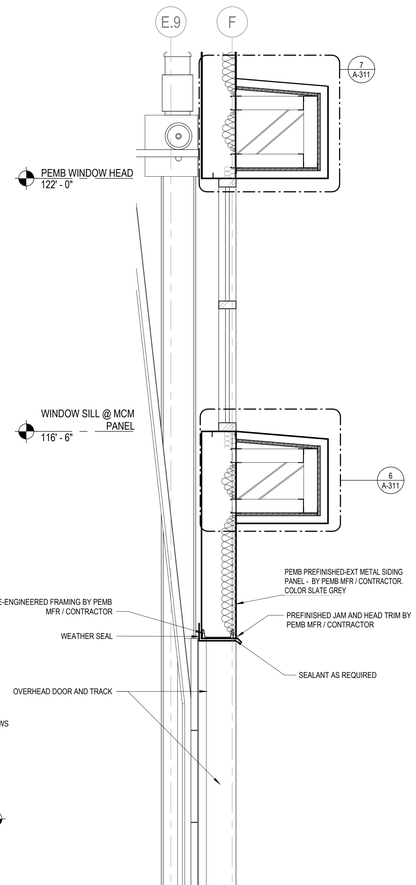
C - WINDOW / GYP. BD. OPENING HEADER



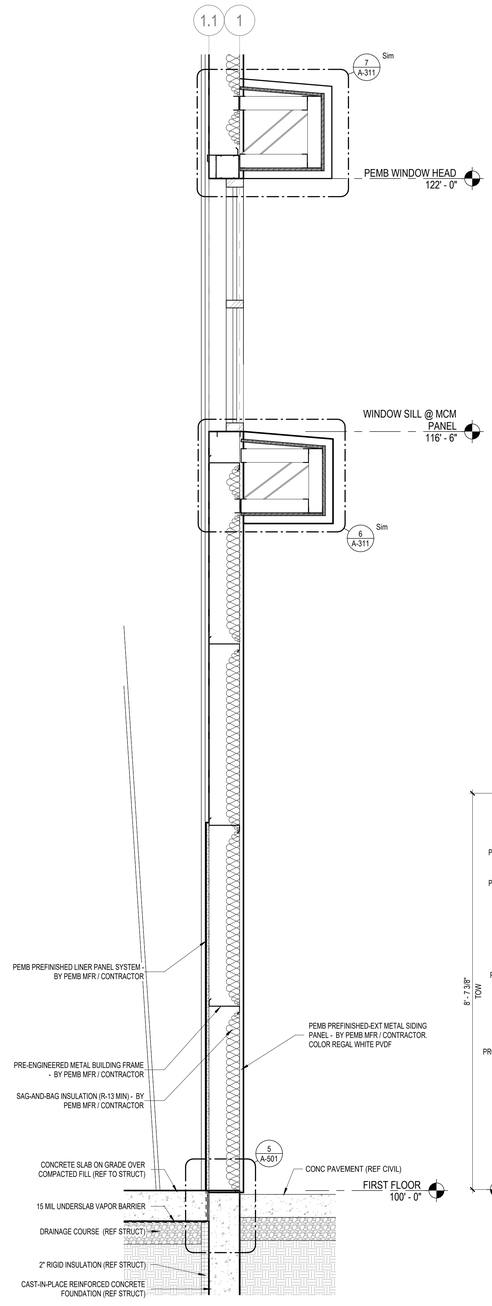
D - DOOR / WINDOW JAMB



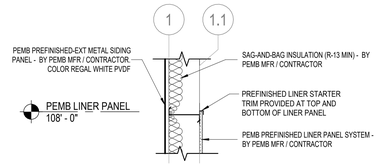
E - SILL



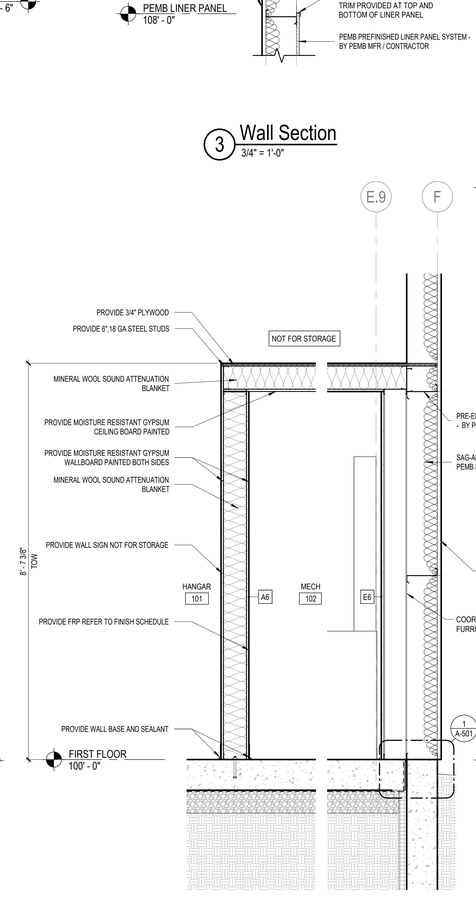
5 Wall Section
3/4" = 1'-0"



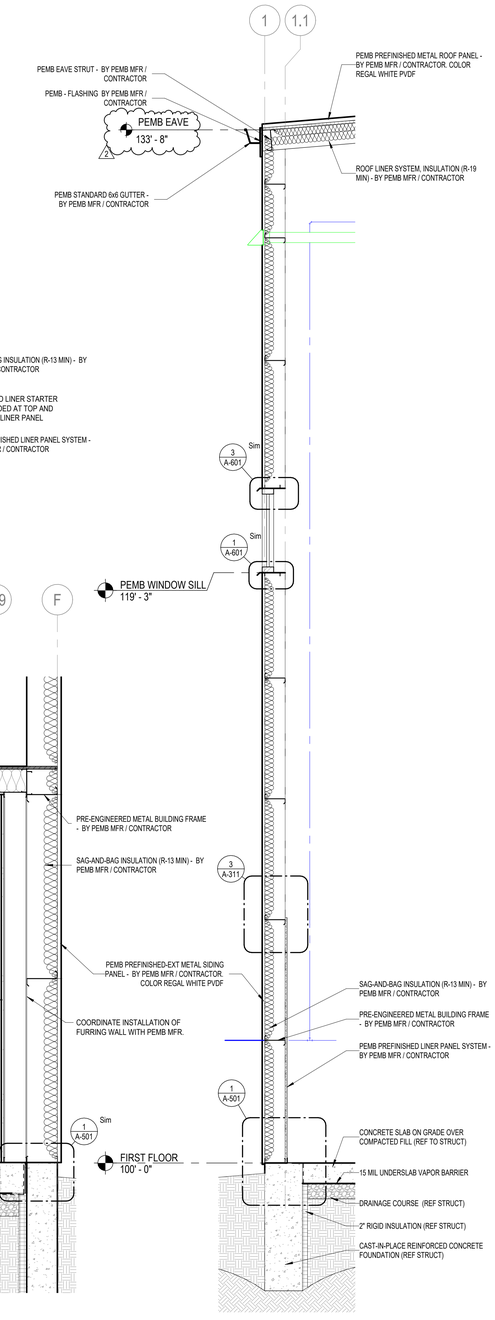
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3/4" = 1'-0"



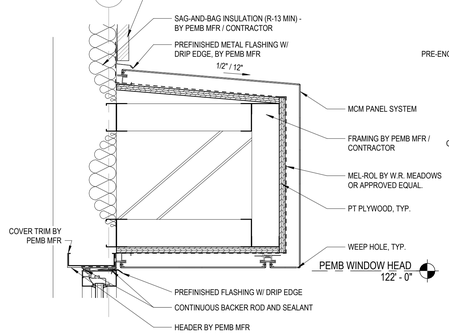
3 Wall Section
3/4" = 1'-0"



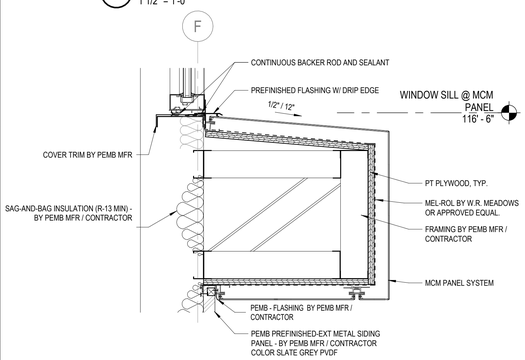
2 Wall Section
3/4" = 1'-0"



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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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

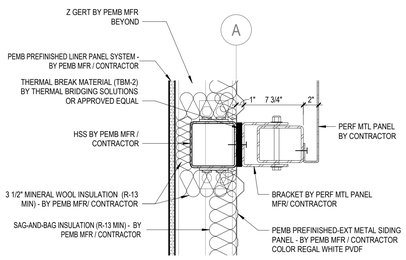
NO.	DESCRIPTION	DATE
1	Add. 01	11/05/2026
2	Add.02	11/17/2026

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

Wall Sections and Details

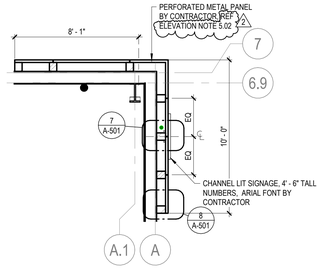
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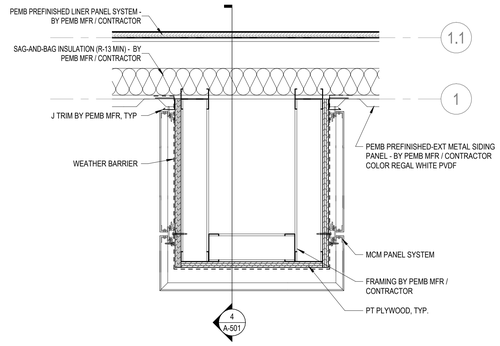


8 Perf Mtl Panel End Bracket Mounting
1 1/2" = 1'-0"

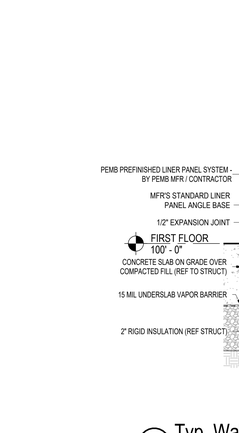
7 Perf Mtl Panel Bracket Mounting at Seam
1 1/2" = 1'-0"



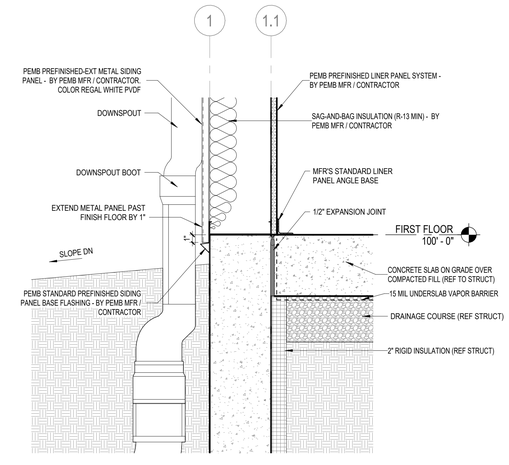
6 Perf Mtl Panel Enlarged Plan
1/4" = 1'-0"



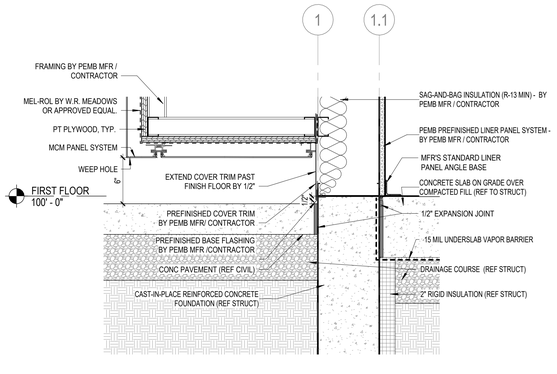
3 Mcm Wall Transition - Plan
1 1/2" = 1'-0"



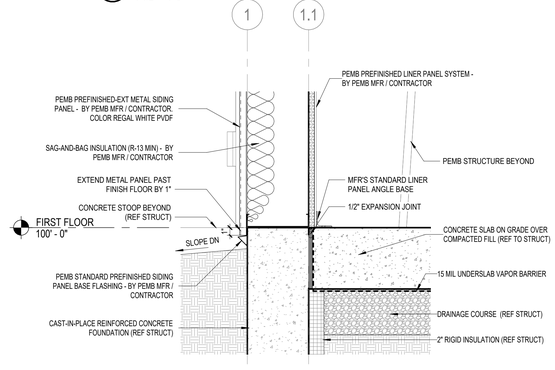
5 Typ. Wall Panel Base at Sidewalk
1 1/2" = 1'-0"



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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SEAL



FORT WAYNE - ALLEN COUNTY AIRPORT AUTHORITY

Fort Wayne International Airport
General Aviation Hangar 2070

FWACAA Project No. AF26-07
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REVISIONS

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

Architectural Details

A-501

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ENGINEERING, LLC

Addendum

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

ADDENDUM NO.	02
DATE:	November 17, 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 221319.13 – Sanitary Drains

1. Add paragraph 2.3., B., 1., e., as follows:

   "e. DuraTrench, by Eric'sons Inc.,. "

Section 224500 – Emergency Plumbing Fixtures

1. Delete this specification section in its entirety from the project manual.

Section 268100 – Fire Alarm Systems

1. Add this section in it entirety to the project.

Section 260923 – Lighting Control Devices

1. Revise paragraph 1.5., A., as follows:

   A. Provide additional labor and materials not indicated on plans for two of each type of indoor occupancy sensors for owner/engineer placement during construction for a complete and functional system.

FIRE PROTECTION

General

1. It is the intent of the drawings that the sprinkler system in the hangar is to be a Dry Pipe sprinkler system.

Sheet FP-100:

1. On the FIRE PROTECTION SYSTEM DESIGN NOTES, revise the verbiage to read “DRY SPRINKLER SYSTEM DESIGN CRITERIA: EXTRA HAZARD GROUP 1.”

PLUMBING

General

1. It is the intent of the drawings that the trench drains are to be provided with a 6.75” reveal and Class “F” grating as noted on the plumbing fixture schedule.
2. Hangar door track drainage is to be provided and installed by the plumbing contractor. Refer to detail on attached Sheet P-601.
3. It is the intent of this project for the emergency eye wash to be a portable, self-contained unit as scheduled, there is no need for domestic water, sanitary, or a mixing valve for this system.

Sheet P-601:

1. Revise Plumbing Fixture Schedule remark #26 for the load rating of the trench drain grating to be Class ‘F’ in lieu of Class ‘E’.
2. Revise the incoming pipe size on the Domestic Water Entrance Detail.
3. Add Hangar Door Track Drainage Detail to construction documents.

MECHANICAL

Sheet M-100:

1. Add thermostat locations for the radiant tube heaters.

Sheet M-601:

1. Revise General Exhaust Fan Schedule so EF-2 and EF-3 are operated by a wall switch.

ELECTRICAL

Sheet E-100:

1. Revised panel and transformer tags
2. Revised circuit number serving North Aircraft Ground Power Unit.
3. Revised circuit tags to match new panel tag

Sheet E-200:

1. Revised panel and transformer tags

Sheet E-300:

1. Revised panel and transformer tags
2. Revised EF-4 location and associated control switch
3. Revised fire alarm device locations
4. Add receptacle for tamper/flow switches
5. Add receptacle for sprinklers system air compressor.

Sheet E-501:

1. Revised Electrical Riser Diagram
2. Revised Panel Schedules

Sheet E-502:

1. Revised Wireless Access Point Detail

Sheet E-601:

1. Revised Luminaire Schedule and Electrical Site Plan.

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

_____
Signature of Bidder

_____
Company

SECTION 26 81 00 - FIRE ALARM SYSTEMS

PART 1 – GENERAL

1.1 SUMMARY

A. This Section covers fire alarm systems, including initiating devices, notification appliances, controls, and supervisory devices.

B. Work covered by this section includes the furnishing of labor, equipment, and materials for installation of the fire alarm system as indicated on the drawings and specifications.

C. The Fire Alarm System shall consist of all necessary hardware equipment and software programming to perform the following functions:

1. Fire alarm and detection operations
2. Control and monitoring, if present, of elevators, smoke control equipment, door hold-open devices, fire suppression systems, emergency power systems, and other equipment as indicated in the drawings and specifications.
3. One-way supervised automatic voice alarm operations.

1.2 ACCEPTABLE MANUFACTURERS

A. Manufacturers:

1. Subject to compliance with requirements, provide products by one of the following:

a. Edwards EST-3.
b. Siemens MXL.
c. Simplex Grinnell 4100ES.
d. Notifier.

B. Being listed as an acceptable Manufacturer in no way relieves obligation to provide all equipment and features in accordance with these specifications.

C. The Manufacturer shall be a nationally recognized company specializing in fire alarm and detection systems. This organization shall employ factory trained and NICET certified technicians, and shall maintain a service organization within 100 miles of this project location. The Manufacturer and service organization shall have a minimum of 10 years experience in the fire protective signaling systems industry.

1.3 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

B. The work covered by this section is to be coordinated with related work as specified elsewhere in the specifications. Requirements of the following sections apply:

1. Division 26 "Basic Electrical Requirements."
2. Division 26 "Conductors and Cables for Electrical Systems."

C. The system and all associated operations shall be in accordance with the following:

1. NFPA 72, National Fire Alarm Code
2. NFPA 70, National Electrical Code
3. Local Jurisdictional Adopted Codes and Standards

4. ADA Accessibility Guidelines

1.4 SYSTEM DESCRIPTION

A. General: Provide a complete, non-coded, addressable, microprocessor-based fire alarm system with initiating devices, notification appliances, and monitoring and control devices as indicated on the drawings and as specified herein.

B. Software: The fire alarm system shall allow for loading and editing instructions and operating sequences as necessary. The system shall be capable of on-site programming to accommodate system expansion and facilitate changes in operation. All software operations shall be stored in a non-volatile programmable memory within the fire alarm control unit. Loss of primary and secondary power shall not erase the instructions stored in memory.

C. History Logs: The system shall provide a means to recall alarms and trouble conditions in chronological order for the purpose of recreating an event history. A separate alarm and trouble log shall be provided.

D. Wiring/Signal Transmission:

1. Transmission shall be addressable signal transmission, dedicated to fire alarm service only.
2. System connections for initiating (signaling) circuits and notification appliance circuits shall be Class B.
3. Circuit Supervision: Circuit faults shall be indicated by a trouble signal at the FACP. Provide a distinctive indicating audible tone and alphanumeric annunciation.
4. Constant Supervision Audio: When provided, audio notification appliance circuits shall be supervised during operation.

E. Required Functions: The following are required system functions and operating features:

1. Priority of Signals: Alarm events have highest priority. Subsequent alarm events are queued in the order received and do not affect existing alarm conditions. Priority Two, Supervisory and Trouble events have second-, third-, and fourth-level priority respectively. Signals of a higher-level priority take precedence over signals of lower priority even though the lower-priority condition occurred first. Annunciate all events regardless of priority or order received.
2. Non-interfering: An event on one zone does not prevent the receipt of signals from any other zone. All zones are manually re-settable from the FACP after the initiating device or devices are restored to normal. The activation of an addressable device does not prevent the receipt of signals from subsequent activations.
3. Annunciation: Operation of alarm and supervisory initiating devices shall be annunciated at the FACP and if shown on the drawings, on the remote annunciator, indicating the location and type of device.
4. General Alarm: A system general alarm shall include:

    a. Indication of alarm condition at the FACP and annunciator(s).
    b. Identification of the device or zone that is the source of the alarm at the FACP.
    c. Operation of audible and visible notification devices throughout the building until silenced at FACP.
    d. Closing doors, if present, normally held open by magnetic door holders.
    e. If present, unlocking designated doors.
    f. Shutting down supply and return fans serving zone where alarm is initiated.
    g. If present, closing smoke dampers on system serving zone where alarm is initiated.
    h. Initiation of elevator, when present, recall in accordance with ASME/ANSI A17.1, when specified detectors or sensors are activated.

5. Supervisory Operations: Upon activation of a supervisory device such as fire pump power failure, low air pressure switch, and tamper switch, the system shall operate as follows:

    a. Activate the system supervisory service audible signal and illuminate the LED at the control unit and the annunciator if present.
    b. Pressing the Supervisory Acknowledge Key will silence the supervisory audible signal while maintaining the Supervisory LED "on" indicating off-normal condition.

c. Record the event in the FACP historical log.
d. Restoring the condition shall cause the Supervisory LED to clear and restore the system to normal.

6. Alarm Silencing: If the "Alarm Silence" button is pressed, all audible alarm signals shall cease operation.
7. System Reset

a. The "System Reset" button shall be used to return the system to its normal state. Display messages shall provide operator assurance of the sequential steps ("IN PROGRESS", "RESET COMPLETED") as they occur. The system shall verify all circuits or devices are restored prior to resetting the system to avoid the potential for re-alarming the system. The display message shall indicate "ALARM PRESENT, SYSTEM RESET ABORTED."
b. Should an alarm condition continue, the system will remain in an alarmed state.

8. A manual evacuation (drill) switch shall be provided to operate the notification appliances without causing other control circuits to be activated.
9. WALKTEST: The system shall have the capacity of 8 programmable pass code protected one person testing groups, such that only a portion of the system need be disabled during testing. The actuation of the "enable one person test" program at the control unit shall activate the "One Person Testing" mode of the system as follows:

a. The city circuit connection and suppression release circuits shall be bypassed for the testing group.
b. Control relay functions associated to one of the 8 testing groups shall be bypassed.
c. The control unit shall indicate a trouble condition.
d. The alarm activation of any initiation device in the testing group shall cause the audible notification appliances to sound a code to identify the device or zone.
e. The unit shall automatically reset itself after signaling is complete.
f. Any momentary opening of an initiating or notification appliance circuit wiring shall cause the audible signals to sound for 4 seconds indicating the trouble condition.

F. Analog Smoke Sensors:

1. Monitoring: FACP shall individually monitor sensors for calibration, sensitivity, and alarm condition, and shall individually adjust for sensitivity. The control unit shall determine the condition of each sensor by comparing the sensor value to the stored values.
2. Environmental Compensation: The FACP shall maintain a moving average of the sensor's smoke chamber value to automatically compensate for dust, dirt, and other conditions that could affect detection operations.
3. Programmable Sensitivity: Photoelectric Smoke Sensors shall have 7 sensitivity levels ranging from 0.2% to 3.7%, programmed and monitored from the FACP.
4. Sensitivity Testing Reports: The FACP shall provide sensor reports that meet NFPA 72 calibrated test method requirements.
5. The FACP shall automatically indicate when an individual sensor needs cleaning. The system shall provide a means to indicate that a sensor requires cleaning. When a sensor's average value reaches a predetermined value, (3) progressive levels of reporting are provided. The first level shall indicate that a sensor is close to a trouble reporting condition and will be indicated on the FACP as "ALMOST DIRTY." This condition provides a means to alert maintenance staff of a dirty sensor without creating a trouble in the system. If this indicator is ignored, a second level "DIRTY SENSOR" condition shall be indicated at the FACP and subsequently a system trouble is reported. The sensor base LED shall glow steady giving a visible indication at the sensor location. The "DIRTY SENSOR" condition shall not affect the sensitivity level required to alarm the sensor. If a "DIRTY SENSOR" is left unattended, and its average value increases to a third predetermined value, an "EXCESSIVELY DIRTY SENSOR" trouble condition shall be indicated at the control unit.
6. The FACP shall continuously perform an automatic self-test on each sensor which will check sensor electronics and ensure the accuracy of the values being transmitted. Any sensor that fails this test shall indicate a "SELF TEST ABNORMAL" trouble condition.
7. Multi-Sensors shall combine photoelectric smoke sensing and heat sensing technologies. An alarm shall be determined by either smoke detection, with selectable sensitivity from 0.2 to 3.7 %/ft obscuration; or heat detection, selectable as fixed temperature or fixed with selectable rate-of-rise; or based on an analysis of the combination of smoke and heat activity.

8. Programmable bases. It shall be possible to program relay and sounder bases to operate independently of their associated sensor.
9. Magnet test activation of smoke sensors shall be distinguished by its label and history log entry as being activated by a magnet.

G. Audible Alarm Notification: By voice evacuation and tone signals on loudspeakers in areas as indicated on drawings.

1. Automatic Voice Evacuation Sequence:

a. The audio alarm signal shall consist of an alarm tone for a maximum of five seconds followed by an automatic digital voice message. At the end of the voice message, the alarm tone shall resume. This sequence shall sound continuously until the "Alarm Silence" switch is activated.
b. All audio operations shall be activated by the system software so that any required future changes can be facilitated by authorized personnel without any component rewiring or hardware additions.

H. Speaker: Speaker notification appliances shall be listed to UL 1480.

1. The speaker shall operate on a standard 25VRMS NAC using twisted/shielded wire.
2. The following taps are available: 0.25W, 0.50W, 1.0W and 2.0W. At the 1.0W tap, the speaker has minimum UL rated sound pressure level of 84dBA at 10 feet.
3. The speaker shall have a frequency response of 400 to 4000 Hz for Fire Alarm and 125 to 12kHz for General Signaling.

I. Constant Supervision of Non-Alarm Audio Functions:

1. When required, the system shall be configured to allow Non-Alarm Audio (NAA) functions such as background music or general/public address paging.
2. During NAA operation, the speaker circuit shall be electrically supervised to provide continuous monitoring of the speaker circuit.
3. During an alarm condition, supervision shall be disabled and alarm signals delivered to speakers.

J. Fire Suppression Monitoring:

1. Water flow: Activation of a water flow switch shall initiate general alarm operations.
2. Sprinkler valve tamper switch: The activation of any valve tamper switch shall activate system supervisory operations.
3. WSO: Water flow switch and sprinkler valve tamper switch shall be capable of existing on the same initiating zone. Activation of either device shall distinctly report which device is in alarm on the initiating zone.
4. Power Requirements:
5. The control unit shall receive AC power via a dedicated fused disconnect circuit.
6. The system shall be provided with sufficient battery capacity to operate the entire system upon loss of normal AC power in a normal supervisory mode for a period of 24 hours with 5 minutes of alarm operation at the end of this period. The system shall automatically transfer to battery standby upon power failure. All battery charging and recharging operations shall be automatic.
7. All circuits requiring system-operating power shall be 24 VDC and shall be individually fused at the control unit.
8. The incoming power to the system shall be supervised so that any power failure will be indicated at the control unit. A green "power on" LED shall be displayed continuously while incoming power is present.
9. The system batteries shall be supervised so that a low battery or depleted battery condition or disconnection of the battery shall be indicated at the control unit and displayed for the specific fault type.
10. The system shall support NAC Lockout feature to prevent subsequent activation of Notification Appliance Circuits after a Depleted Battery condition occurs in order to make use of battery reserve for front panel annunciation and control
11. The system shall support 100% of addressable devices in alarm or operated at the same time, under both primary (AC) and secondary (battery) power conditions.
12. Loss of primary power shall sound a trouble signal at the FACP. FACP shall indicate when the

system is operating on an alternate power supply.

K. The FACP shall provide the Owner remote access via a password protected web browser and send alarm/trouble conditions via email and text message. The Owner shall be able to access the web browser and review alarm reports, trouble reports, detector sensitivity reports, and test reports. Simplex SafeLink or approved equal.

L. The FACP may include addressable notification appliance circuits (Not required, however acceptable). The Owner shall be able to initiate an automatic test of the notification appliances from the FACP, whereby distribution to employee or inmate areas is minimal. Each AV and VO shall be capable of being tested individually (physical) without activating any other AV or VO devices in the building. Any notification device removed or has loss of communication to the FACP shall be annunciated at the FACP and FAA with address and physical location.

1.5 SUBMITTALS

A. General: Submit the following according to Conditions of Contract and Division 1 Specification Sections.

1. Product data sheets for system components highlighted to indicate the specific products, features, or functions required to meet this specification. Alternate or as-equal products submitted under this contract must provide a detailed line-by-line comparison of how the submitted product meets, exceeds, or does not comply with this specification.
2. Wiring diagrams from manufacturer.
3. Shop drawings showing system details including location of FACP, all devices, circuiting and details of the annunciator.
4. System Power and battery charts with performance graphs and voltage drop calculations to assure that the system will operate per the prescribed backup time periods and under all voltage conditions per UL and NFPA standards.
5. Operating instructions for FACP.
6. Operation and maintenance data for inclusion in Operating and Maintenance Manual. Include data for each type product, including all features and operating sequences, both automatic and manual. Provide the names, addresses, and telephone numbers of service organizations.
7. Product certification signed by the manufacturer of the fire alarm system components certifying that their products comply with indicated requirements.
8. Record of field tests of system.

B. Submission to Authority Having Jurisdiction: In addition to routine submission of the above material, make an identical submission to the authority having jurisdiction. Include copies of shop drawings as required to depict component locations to facilitate review. Upon receipt of comments from the Authority, make resubmissions if required to make clarifications or revisions to obtain approval.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: A factory-authorized installer is to perform the work of this section.

B. Each and all items of the Fire Alarm System shall be listed as a product of a single fire alarm system manufacturer under the appropriate category by Underwriters Laboratories, Inc. (UL), and shall bear the "UL" label.

1.7 EXTRA MATERIALS

A. Provide additional labor and materials not indicated on plans for owner/engineer placement during construction for a complete and functional system.

1. Three pull stations.
2. Three speaker/strobe units and five strobe only units.
3. Three smoke sensors and standard bases.
4. Three smoke sensors and control module bases.
5. Two duct detectors.

PART 2 – PRODUCTS

2.1 FIRE ALARM CONTROL PANEL (FACP)

A. General: Comply with UL 864, "Control Units for Fire-Protective Signaling Systems."

B. The following FACP hardware shall be provided:

1. Power Limited base panel with beige cabinet and door, 120 VAC input power.
2. 2,000 point capacity where (1) point equals (1) monitor (input) or (1) control (output).
3. From all battery charging circuits in the system provide battery voltage and ammeter readouts on the FACP LCD Display.
4. One Auxiliary electronically re-settable fused 2A @24VDC Output, with programmable disconnect operation for 4-wire detector reset.
5. One Auxiliary Relay, SPDT 2A @32VDC, programmable as a trouble relay, either as normally energized or de-energized, or as an auxiliary control.
6. Where required provide Intelligent Remote Battery Charger for charging up to 110Ah batteries.
7. Power Supplies with integral intelligent Notification Appliance Circuit Class B for system expansion.
8. Remote Unit Interface: supervised serial communication channel for control and monitoring of remotely located annunciators and I/O panels.
9. Programmable DACT for either Common Event Reporting or per Point Reporting.

C. Cabinet: Lockable steel enclosure. Arrange unit so all operations required for testing or for normal care and maintenance of the system are performed from the front of the enclosure. If more than a single unit is required to form a complete control unit, provide exactly matching modular unit enclosures.

D. Alphanumeric Display and System Controls: Panel shall include an 80 character LCD display to indicate alarm, supervisory, and component status messages and shall include a keypad for use in entering and executing control commands.

E. Voice Alarm: Provide an emergency communication system, integral with the FACP, including voice alarm system components, microphones, amplifiers, and tone generators. Features include:

1. Amplifiers comply with UL 1711, "Amplifiers for Fire Protective Signaling Systems." Amplifiers shall provide an onboard local mode temporal coded horn tone as a default backup tone. Test switches on the amplifier shall be provided to test and observe amplifier backup switchover. Each amplifier shall communicate to the host panel amplifier and NAC circuit voltage and current levels for display on the user interface.
2. All announcements are made over dedicated, supervised communication lines. All risers shall support Class A wiring for each audio channel.
3. Eight channel digitally multiplexed audio for systems that require more than two channels of simultaneous audio. Up to 8 channels of audio shall be multiplexed on either a style 4 or style 7 twisted pair.
4. Emergency voice communication audio controller module shall provide up to 32 minutes of message memory for digitally stored messages. Provide supervised connections for master microphone and up to 5 remote microphones.

F. Distributed Module Operation: FACP shall be capable of allowing remote location of the following modules; interface of such modules shall be through a Style 7 (Class A) supervised serial communications channel (SLC):

1. Amplifiers, voice and telephone control circuits
2. Addressable Signaling Line Circuits
3. Initiating Device Circuits
4. Notification Appliance Circuits
5. Auxiliary Control Circuits

2.2 REMOTE LCD ANNUNCIATOR

A. Provide Remote LCD Annunciator(s), if indicated on the drawings, with the same "look and feel" as the FACP operator interface. The Remote LCD Annunciator shall use the same Primary Acknowledge, Silence, and Reset Keys, Status LEDs and LCD Display as the FACP.

B. Annunciator shall have super-twist LCD display with two lines of 40 characters each. Annunciator shall be provided with four (4) programmable control switches and associated LEDs.

C. Under normal conditions the LCD shall display a "SYSTEM IS NORMAL" message and the current time and date.

D. Should an abnormal condition be detected the appropriate LED (Alarm, Supervisory or Trouble) shall flash. The unit audible signal shall pulse for alarm conditions and sound steady for trouble and supervisory conditions.

E. The LCD shall display the following information relative to the abnormal condition of a point in the system:

1. 40 character custom location label.
2. Type of device (e.g., smoke, pull station, water flow).
3. Point status (e.g., alarm, trouble).

F. Operator keys shall be key switch enabled to prevent unauthorized use. The key shall only be removable in the disabled position. Acknowledge, Silence and Reset operation shall be the same as the FACP.

2.3 EMERGENCY POWER SUPPLY

A. General: Components include battery, charger, and an automatic transfer switch.

B. Battery: Sealed lead-acid. Provide sufficient capacity to operate the complete alarm system in normal or supervisory (non-alarm) mode for a period of 24 hours. Following this period of operation on battery power, the battery shall have sufficient capacity to operate all components of the system, including all alarm indicating devices in alarm or supervisory mode for a period of 5 minutes.

2.4 MANUAL PULL STATIONS

A. Description: Addressable dual-action type, red LEXAN, with molded, raised-letter operating instructions of contrasting color. Station will mechanically latch upon operation and remain so until manually reset by opening with a key common with the control units.

2.5 SMOKE SENSORS

A. General: Comply with UL 268, "Smoke Detectors for Fire Protective Signaling Systems." Include the following features:

1. Factory Nameplate: Serial number and type identification.
2. Operating Voltage: 24 VDC, nominal.
3. Self-Restoring: Detectors do not require resetting or readjustment after actuation to restore normal operation.
4. Plug-In Arrangement: Sensor and associated electronic components are mounted in a module that connects to a fixed base with a twist-locking plug connection. Base shall provide break-off plastic tab that can be removed to engage the head/base locking mechanism. No special tools shall be required to remove head once it has been locked. Removal of the detector head shall interrupt the supervisory circuit of the fire alarm detection loop and cause a trouble signal at the control unit.
5. Each sensor base shall contain an LED that will flash each time it is scanned by the Control Unit (once every 4 seconds). In alarm condition, the sensor base LED shall be on steady.
6. Each sensor base shall contain a magnetically actuated test switch to provide for easy alarm testing at the sensor location.
7. Each sensor shall be scanned by the Control Unit for its type identification to prevent inadvertent substitution of another sensor type. Upon detection of a "wrong device", the control unit shall operate with the installed device at the default alarm settings for that sensor; 2.5% obscuration for photoelectric sensor, 135-deg F and 15-deg F rate-of-rise for the heat sensor, but shall indicate a

"Wrong Device" trouble condition.
8. The sensor's electronics shall be immune from false alarms caused by EMI and RFI.
9. Removal of the sensor head for cleaning shall not require the setting of addresses.

B. Type: Smoke sensors shall be of the photoelectric or combination photoelectric / heat type.

C. Bases: Relay output, sounder and isolator bases shall be supported alternatives to the standard base.

D. Duct Smoke Sensor: Photoelectric type, with sampling tube of design and dimensions as recommended by the manufacturer for the specific duct size and installation conditions where applied. Sensor includes relay as required for fan shutdown.

1. Environmental compensation, programmable sensitivity settings, status testing, and monitoring of sensor dirt accumulation for the duct sensor shall be provided by the FACP.
2. The Duct Housing shall provide a supervised relay driver circuit for driving up to 15 relays with a single "Form C" contact rated at 7A@ 28VDC or 10A@ 120VAC. This auxiliary relay output shall be fully programmable. Relay shall be mounted within 3 feet of HVAC control circuit.
3. Duct Housing shall provide a relay control trouble indicator Yellow LED.
4. Compact Duct Housing shall have a transparent cover to monitor for the presence of smoke. Cover shall secure to housing by means of four (4) captive fastening screws.
5. Duct Housing shall provide two (2) Test Ports for measuring airflow and for testing. These ports will allow aerosol injection in order to test the activation of the duct smoke sensor.
6. Duct Housing shall provide a magnetic test area and Red sensor status LED.
7. For maintenance purposes, it shall be possible to clean the duct housing sampling tubes by accessing them through the duct housing front cover.

2.6 HEAT SENSORS

A. Thermal Sensor: Combination fixed-temperature and rate-of-rise unit with plug-in base and alarm indication lamp; 135-deg F fixed-temperature setting except as indicated.

B. Thermal sensor shall be of the epoxy encapsulated electronic design. It shall be thermistor-based, rate-compensated, self-restoring and shall not be affected by thermal lag.

C. Sensor fixed temperature sensing shall be independent of rate-of-rise sensing and programmable to operate at 135-deg F or 155-deg F. Sensor rate-of-rise temperature detection shall be selectable at the FACP for either 15-deg F or 20-deg F per minute.

D. Sensor shall have the capability to be programmed as a utility monitoring device to monitor for temperature extremes in the range from 32-deg F to 155-deg F.

2.7 ADDRESSABLE CIRCUIT INTERFACE MODULES

A. Addressable Circuit Interface Modules: Arrange to monitor one or more system components that are not otherwise equipped for addressable communication. Modules shall be used for monitoring of water flow, valve tamper, non-addressable devices, and for control of evacuation indicating appliances and AHU systems.

B. Addressable Circuit Interface Modules will be capable of mounting in a standard electric outlet box. Modules will include cover plates to allow surface or flush mounting. Modules will receive their operating power from the signaling line or a separate two wire pair running from an appropriate power supply as required.

C. All Circuit Interface Modules shall be supervised and uniquely identified by the control unit. Module identification shall be transmitted to the control unit for processing according to the program instructions. Modules shall have an on-board LED to provide an indication that the module is powered and communicating with the FACP. The LEDs shall provide a troubleshooting aid since the LED blinks on poll whenever the peripheral is powered and communicating.

2.8 STANDARD ALARM NOTIFICATION APPLIANCES

A. Visible/Only: Strobe shall be listed to UL 1971. The V/O shall consist of a xenon flash tube and associated lens/reflector system. The V/O enclosure shall mount directly to standard single gang, double gang or 4" square electrical box, without the use of special adapters or trim rings. V/O appliances shall be multi-candela (15cd, 30cd,75cd, and 110cd field selectable) If multi-candela are not available provide units with different minimum flash intensities of 15cd, 30,cd, 75cd and 110cd. Provide a label to indicate the listed candela rating of the specific Visible/Only appliance.

B. Speaker/Visible: Combination Speaker/Visible (S/V) units combine the speaker and visible functions into a common housing. The S/V shall be listed to UL 1971 and UL 1480.

1. Twisted/shielded wire is required for speaker connections on a standard 25VRMS or 70.7VRMS NAC.
2. The following taps are available: 0.25W, 0.50W, 1.0W and 2.0W. At the 1.0W tap, the speaker has minimum UL rated sound pressure level of 84dBA at 10 feet.
3. The S/V shall have a frequency response of 400 to 4000 Hz for Fire Alarm and 125 to 12kHz for General Signaling.
4. The Strobe shall meet the same specification as the Visible/Only unit.

C. Speaker: Speaker notification appliances shall be listed to UL 1480.

1. The speaker shall operate on a standard 25VRMS or 70.7VRMS NAC using twisted / shielded wire.
2. The following taps are available: 0.25W, 0.50W, 1.0W and 2.0W. At the 1.0W tap, the speaker has minimum UL rated sound pressure level of 84dBA at 10 feet.
3. The S/V shall have a frequency response of 400 to 4000 Hz for Fire Alarm and 125 to 12kHz for General Signaling.

D. Notification Appliance Circuit provides synchronization of strobes at a rate of 1Hz.

PART 3 – EXECUTION

3.1 INSTALLATION, GENERAL

A. Install system components and all associated devices in accordance with applicable NFPA Standards and manufacturer's recommendations.

B. Installation personnel shall be supervised by persons who are qualified and experienced in the installation, inspection, and testing of fire alarm systems. Examples of qualified personnel shall include, but not be limited to, the following:

1. Factory trained and certified personnel.
2. National Institute of Certification in Engineering Technologies (NICET) fire alarm level II certified personnel.
3. Personnel licensed or certified by state or local authority.

3.2 EQUIPMENT INSTALLATION

A. Furnish and install a complete Fire Alarm System as described herein and as shown on the plans. Include sufficient control unit(s), annunciator(s), manual stations, automatic fire detectors, smoke detectors, audible and visible notification appliances, wiring, terminations, electrical boxes, and all other necessary material for a complete operating system.

B. Water-Flow and Valve Supervisory Switches: Connect for each sprinkler valve required to be supervised.

3.3 WIRING INSTALLATION

A. System Wiring: Wire and cable shall be a type listed for its intended use by an approval agency acceptable to the Authority Having Jurisdiction (AH and shall be installed in accordance with the

appropriate articles from the current approved edition of NFPA 70: National Electric Code (NEC).

B. Contractor shall obtain from the Fire Alarm System Manufacturer written instruction regarding the appropriate wire/cable to be used for this installation. No deviation from the written instruction shall be made by the Contractor without the prior written approval of the Fire Alarm System Manufacturer.

C. Color Coding: Color-code fire alarm conductors differently from the normal building power wiring. Use one color code for alarm initiating device circuits wiring and a different color code for supervisory circuits. Color-code notification appliance circuits differently from alarm-initiating circuits. Paint fire alarm system junction boxes and covers red.

3.4 FIELD QUALITY CONTROL

A. Manufacturer's Field Services: Provide services of a factory-authorized service representative to supervise the field assembly and connection of components and the pretesting, testing, and adjustment of the system.

B. Service personnel shall be qualified and experienced in the inspection, testing, and maintenance of fire alarm systems. Examples of qualified personnel shall be permitted to include, but shall not be limited to, individuals with the following qualifications:

1. Factory trained and certified.
2. National Institute for Certification in Engineering Technologies (NICET) fire alarm certified.
3. International Municipal Signal Association (IMSA) fire alarm certified.
4. Certified by a state or local authority.
5. Trained and qualified personnel employed by an organization listed by a national testing laboratory for the servicing of fire alarm systems.

C. Report of Tests and Inspections: Provide a written record of inspections, tests, and detailed test results in the form of a test log.

D. Final Test, Certificate of Completion, and Certificate of Occupancy:

1. Test the system as required by the Authority Having Jurisdiction in order to obtain a certificate of occupancy.

3.5 CLEANING AND ADJUSTING

A. Cleaning: Remove paint splatters and other spots, dirt, and debris. Clean unit internally using methods and materials recommended by manufacturer.

B. Occupancy Adjustments: When requested within one year of date of Substantial Completion, provide on-site assistance in adjusting sound levels and adjusting controls and sensitivities to suit actual occupied conditions. Provide up to three visits to the site for this purpose.

3.6 TRAINING

A. Provide the services of a factory-authorized service representative to demonstrate the system and train Owner's maintenance personnel as specified below.

1. Train Owner's maintenance personnel in the procedures and schedules involved in operating, troubleshooting, servicing, and preventive maintaining of the system. Provide a minimum of 8 hours' training.
2. Schedule training with the Owner at least seven days in advance.

END OF SECTION 26 81 00

ELECTRIC WATER HEATER SCHEDULE

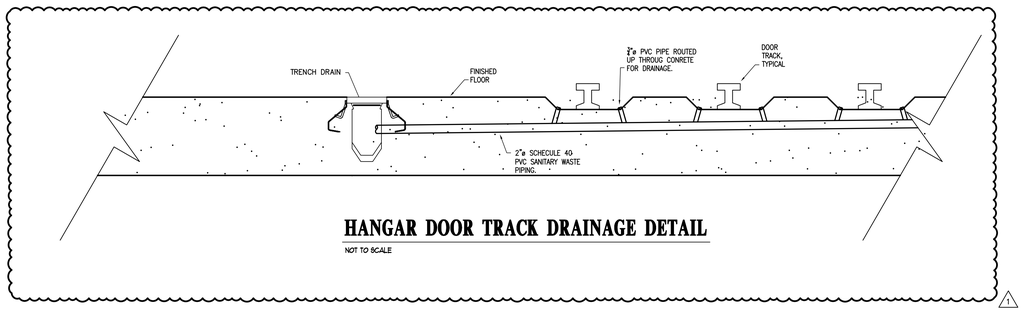
TAG	MANUFACTURE	MODEL	ELEMENT (W)	STORAGE (GAL)	ELECTRICAL (V / PH)	90 DEG. F RISE RECOVERY GPH	REMARKS
EWH-1	STATE	ESG 10 50MS K	1650	10	120 / 1	8	1 THRU 4

REMARKS:
1. PROVIDE UNIT WITH ADJUSTABLE THERMOSTAT CONTROL, BALL TYPE DRAIN VALVE, AND HEAVY-DUTY ANODE ROD.
2. PROVIDE AND INSTALL UNIT WITH ASME TEMPERATURE AND PRESSURE RELIEF VALVE SIZED FOR HEATER AND EMERGENCY DRAIN PAN.
3. PROVIDE WITH EXPANSION TANK EQUAL TO AMTROL THERM-X-TROL MODEL ST-12-C WITH 3.2 GAL ACCEPTANCE VOLUME.
4. SET OUTLET TEMPERATURE TO BE 105 DEGREES, F.

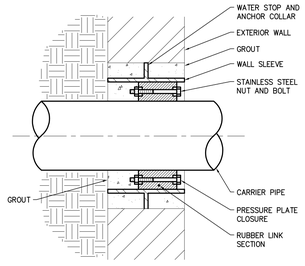
PLUMBING FIXTURE SCHEDULE

FIXTURE	MFGR	FIXTURE MODEL	TRIM MFGR	TRIM MODEL	TRIM TYPE	PIPE CONNECTIONS W	V	HW	CW	COLOR	REMARKS
WC-1	AMERICAN STANDARD	3043.001	SLOAN	ROYAL 111 ESS-1.6	HARDWIRED FLUSH VALVE	4"	2"	--	1"	WHITE	1, 2, 3, 4, 5
U-1	AMERICAN STANDARD	6590.001	SLOAN	ROYAL 186 ESS-1.0	HARDWIRED FLUSH VALVE	2"	2"	--	3/4"	WHITE	6, 7, 8, 9
L-1H	AMERICAN STANDARD	355.012	SLOAN	SF-2200-4-PLG-BDM-CP-1.5GPM-LAM-FCT	HARDWIRED IR SENSOR GOOSENECK	2"	2"	1/2"	1/2"	WHITE	10, 11, 12, 13, 14
MB-1	FIAT	TSB3010	ZURN	Z843M1-RC	FAUCET	3"	2"	1/2"	1/2"	WHITE	15, 16
CO-1	ZURN	ZN1400-BZ1	----	----	----	----	----	----	----	----	17, 18, 19
FD-1	ZURN	Z415-BZ1	----	----	----	----	----	----	----	----	20, 21
FS-1	ZURN	Z1901-2	----	----	----	----	----	----	----	----	22, 23
HB-1	PRIER	C-355NP.75-SGH	----	----	----	----	----	----	3/4"	CHROME	24
WH-1	PRIER	C-634-N-12	----	----	----	----	----	----	3/4"	CHROME	25
TD-1	ZURN	Z886-HD-E1-U4-DGE	----	----	6" CHANNEL, 80-INCHES LONG	4"	----	----	----	----	26
TD-2	ZURN	Z886-HD-E1-U4-DGE	----	----	6" CHANNEL, 80-INCHES LONG	4"	----	----	----	----	26, 27
EEW-1	GUARDIAN	G1540BA	----	----	PORTABLE	----	----	----	----	GREEN	28, 29, 30

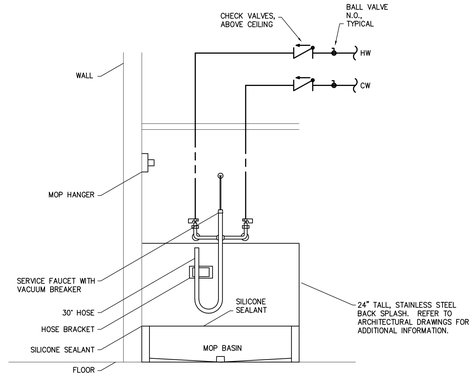
REMARKS:
1. PROVIDE HEAVY DUTY, ELONGATED, WHITE OPEN FRONT PLASTIC SEAT WITH CHECK HINGELIKE AMERICAN STANDARD MODEL 5901-100 OR EQUIVALENT.
2. INSTALL TRIP LEVER ON THE WIDE SIDE OF THE STALL.
3. UNIT IS TO BE FLOOR MOUNTED, MOUNT RIM AT 16.5" A.F.F. MOUNTING HEIGHTS TO MEET A.D.A. REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. PROVIDE UNIT WITH 1.6 GPF, HARDWIRED, EXPOSED SENSOR FLUSHOMETER WITH ELECTRICAL OVERRIDE.
5. PROVIDE AND INSTALL FLUSH VALVE WITH 120VAC TO 24VAC HARDWIRED POWER TRANSFORMER.
6. MOUNT RIM AT 17" A.F.F., MOUNTING HEIGHTS TO MEET A.D.A. REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. PROVIDE AND INSTALL JOSAM SERIES 17560-UR FLOOR MOUNTED URINAL CHAIR CARRIER WITH DEEP SEAL TRAP.
8. PROVIDE UNIT WITH 1.0 GPF, HARDWIRED, EXPOSED SENSOR FLUSHOMETER WITH ELECTRICAL OVERRIDE.
9. PROVIDE AND INSTALL FLUSH VALVE WITH 120VAC TO 24VAC HARDWIRED POWER TRANSFORMER.
10. PROVIDE AND INSTALL WITH WALL MOUNT BRACKET, 17 GAUGE P-TRAP, ANGLE STOPS WITH LOOSE KEY HANDLES, AND VANDAL PROOF GRID STRAINER.
11. PROVIDE AND INSTALL HARDWIRED, DECK MOUNTED GOOSENECK FAUCET WITH 4" TRIM PLATE, BELOW DECK THERMOSTATIC MIXING VALVE, AND PLUG ADAPTER POWER SUPPLY.
12. PROVIDE AND INSTALL FAUCET WITH 120VAC TO 6VDC HARDWIRED PLUG-IN ADAPTER.
13. PROVIDE AND INSTALL UNIT WITH PIPE WRAP KIT EQUAL TO TRUBRO OR PLUMBEREX PRO.
14. MOUNT RIM AT 34" A.F.F. PROVIDE A MINIMUM OF 27" CLEAR KNEE SPACE TO MEET A.D.A. REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE AND INSTALL FLOOR MOUNTED, ONE-PIECE TERRAZZO BASIN WITH 6" DROPPED FRONT WITH SS CAP ON DROP, SS INTEGRAL DRAIN BODY, AND SS STRAINER.
16. PROVIDE AND INSTALL VACUUM BREAKER, PAIL HOOK, HOSE MODEL 832-AA AND MOP HANGER, AND STRAINER.
17. PROVIDE UNIT WITH GAS / WATER TIGHT THREADED ABS TAPERED PLUG WITH POLISHED NICKEL BRONZE TOP.
18. CLEANOUTS SHALL BE SIZED PER PLANS.
19. PROVIDE AND INSTALL UNIT FOR FINISHED FLOOR, ROUND TOP.
20. PROVIDE AND INSTALL UNIT WITH 6" DIAM. POLISHED NICKEL BRONZE TOP, MEMBRANE CLAMP, ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, DEEP SEAL TRAP, AND SURE SEAL INLINE FLOOR DRAIN TRAP SEAL.
21. FLOOR DRAINS SHALL BE SIZED PER PLANS.
22. PROVIDE AND INSTALL WITH ANCHOR FLANGE, CLAMPING COLLAR, HALF GRATE, ANTI-SPLASH BOTTOM DOME STRAINER, AND DEEP SEAL TRAP.
23. FLOOR SINKS SHALL BE SIZED PER PLANS.
24. PROVIDE AND INSTALL ANTI-SIPHON BACKFLOW CHECK VALVE UNIT WITH INTEGRAL VACUUM BREAKER, 3/4" MALE HOSE THREAD, AND METAL WHEEL HANDLE WITH LOOSE KEY.
25. UNIT TO BE NON-FREEZE, ANTI-SIPHON, WITH DOUBLE BACKFLOW CHECK VALVE, INTEGRAL VACUUM BREAKER, AUTOMATIC DRAIN TYPE WITH LOOSE KEY STOPS.
26. PROVIDE AND INSTALL 6.75" WIDE REVEAL TRENCH DRAIN SYSTEM WITH 80" LONG HIGH DENSITY POLYETHYLENE (HDPE) CHANNELS WITH CLOSED END CAPS, NO-HUB BOTTOM OUTLET AND CLASS 'F' DUCTILE IRON SLOTTED GRATE.
27. PROVIDE AND INSTALL TWO (2) RUNS OF ELEVEN (11) CHANNELS. PROVIDE AND INSTALL UNIT WITH INTERLOCKING JOINTS.
28. PROVIDE A SELF-CONTAINED 16-GALLON CAPACITY, GRAVITY FLOW UNIT TO DELIVER 0.5 GPM FOR 15 MINUTES.
29. PROVIDE UNIT WITH VINYL COVER WITH VELCRO FRONT FLAP.
30. PROVIDE UNIT WITH AN 8OZ.BOTTLE OF A BACTERIOSTATIC ADDITIVE TO PRESERVE THE WATER.



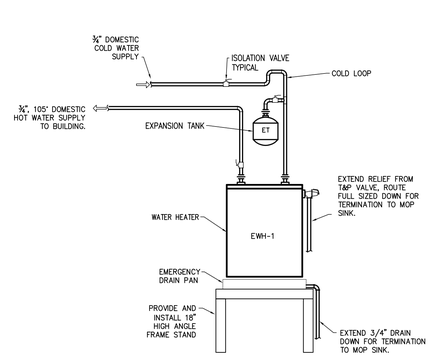
HANGAR DOOR TRACK DRAINAGE DETAIL
NOT TO SCALE



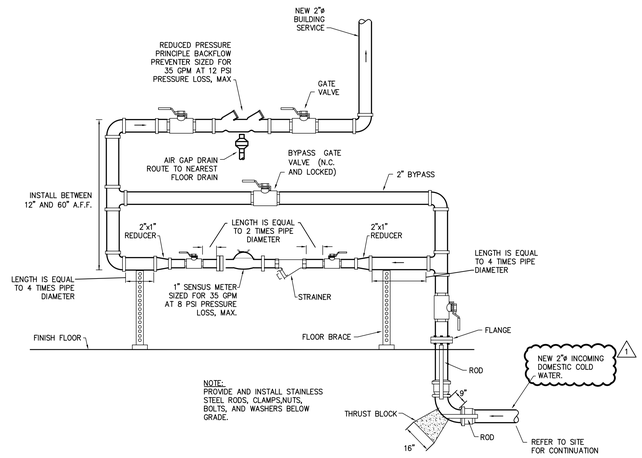
EXTERIOR WALL SLEEVE DETAIL
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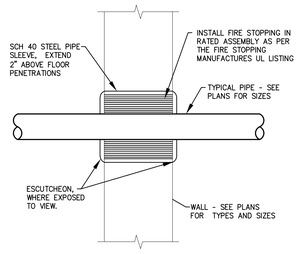
MOP BASIN DETAIL
NOT TO SCALE



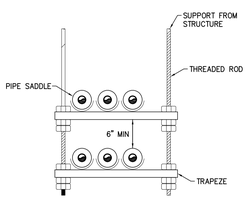
ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



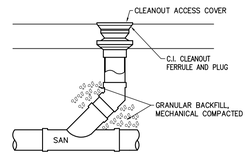
DOMESTIC WATER ENTRANCE DETAIL
NOT TO SCALE



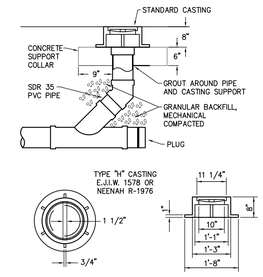
TYPICAL PIPING FIRE WALL FLOOR PENETRATION DETAIL
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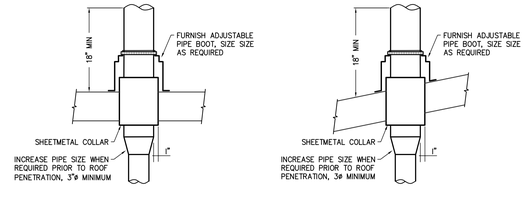
PIPE SUPPORT DETAIL
NOT TO SCALE



INTERIOR CLEANOUT DETAIL
NOT TO SCALE



EXTERIOR CLEANOUT DETAIL
NOT TO SCALE



VENT THRU ROOF
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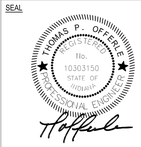
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WRITTEN DIMENSIONS ON THESE DOCUMENTS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DRAWINGS AND OR 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

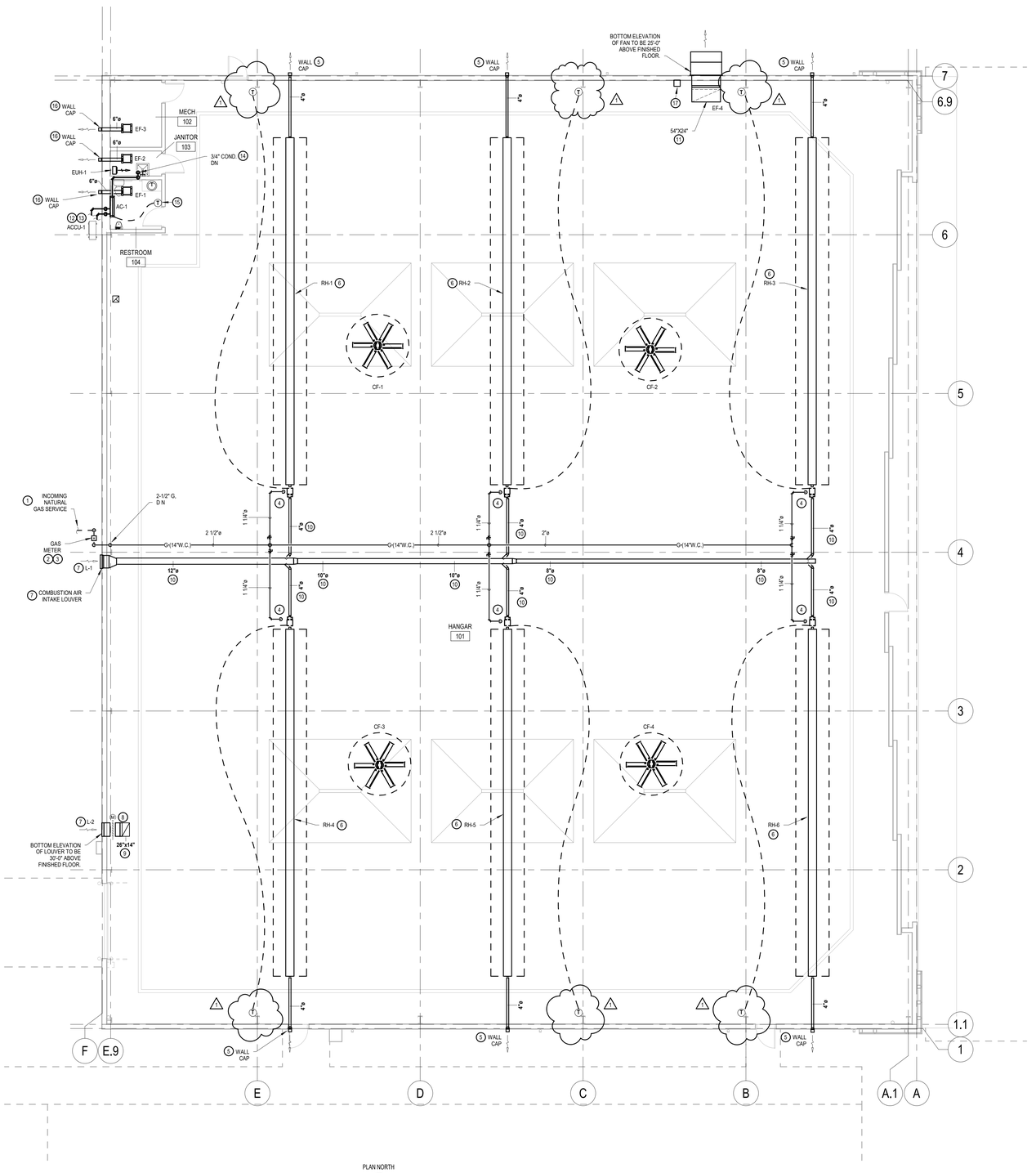
REVISIONS		
NO.	DESCRIPTION	DATE
1	Addendum 02	11-17-26

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

Plumbing Details and Schedules

P-601

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Cloud Models://FWACAA Gen Aviation Hangar/FWA Hangar 2070 Rev Central.rvt



1 First floor Mechanical Plan
1/8" = 1'-0"

MECHANICAL PLAN NOTES

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

1. REFER TO SITE PLAN FOR CONTINUATION.
2. APPROXIMATE NEW METER LOCATION. COORDINATE EXACT LOCATION OF GAS SERVICE TO NEW METER LOCATION WITH LOCAL GAS UTILITY. MAINTAIN REQUIRED CLEARANCES FROM ANY OPERABLE OPENING OR OUTSIDE AIR INTAKE AS REQUIRED BY INTERNATIONAL MECHANICAL CODE, INDIANA MECHANICAL CODE, ALL STATE AND LOCAL CODES, AND UTILITY REGULATIONS. TOTAL CALCULATED LOAD OF NEW EQUIPMENT, 1,200 CFH. INCLUDE ALL ASSOCIATED FEES FROM UTILITY COMPANY. GAS UTILITY TO PROVIDE PRESSURE REDUCING VALVE, METER, AND A MINIMUM OF 2 PSI SERVICE. MECHANICAL CONTRACTOR SHALL VERIFY INCOMING DELIVERY GAS PRESSURE AND SHALL PROVIDE AND INSTALL AND SERVICE TYPE REGULATOR AS REQUIRED TO REDUCE THE INCOMING GAS PRESSURE TO 14" W.C. GAS PRESSURE.
3. 2-1/2"Ø, 14" W.C. NATURAL GAS PIPING IS TO BE ROUTED THROUGH EXTERIOR WALL AT 2'-0" ABOVE GRADE AND INTO HANGAR AND ROUTE AS SHOWN FOR CONNECTION TO MECHANICAL EQUIPMENT AS SHOWN. GAS PIPING AT WALL PENETRATION SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE AND SHALL BE SEALED WEATHER TIGHT. CONTRACTOR SHALL CORE DRILL OPENINGS IN WALL AS REQUIRED FOR THE INSTALLATION OF NEW PIPING. CONTRACTOR SHALL CLEAN, PRIME, AND PAINT ALL EXPOSED NATURAL GAS PIPING AND HANGERS WITH RUST INHIBITING PAINT. ARCHITECT TO SELECT COLOR. REFER TO GAS FIRED INFARED HEATER HOOK UP DETAIL FOR CONNECTION REQUIREMENTS AND ADDITIONAL INSTALLATION INFORMATION.
4. CONNECT NEW 1-1/4" NATURAL GAS PIPING TO RADIANT TUBE HEATER. PROVIDE GAS COCK SHUT OFF VALVE. CONTRACTOR SHALL CLEAN, PRIME, AND PAINT ALL NATURAL GAS PIPING AND WITH RUST INHIBITING PAINT. ARCHITECT TO SELECT COLOR. REFER TO GAS FIRED INFARED HEATER HOOK UP DETAIL FOR CONNECTION REQUIREMENTS AND ADDITIONAL INFORMATION.
5. ROUTE 4"Ø FLUE PIPING FROM RADIANT TUBE HEATER OUT THROUGH EXTERIOR WALL AS SHOWN AND TERMINATE WITH MANUFACTURER RECOMMENDED WALL CAP (WC) WITH BIRD SCREEN. COORDINATE EXTERIOR WALL PENETRATION HEIGHT AND LOCATION WITH MANUFACTURERS RECOMMENDATIONS AND ARCHITECT. WALL CAP AND PIPING THAT IS ROUTED OUT THROUGH WALL AND EXPOSED TO THE EXTERIOR IS TO BE CLEANED AND PAINTED. ARCHITECT TO SELECT COLOR.
6. RADIANT HEATER SHALL BE MOUNTED AT 29'-0" A.F.F. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED STEEL UNISTRUT AND 2"ANGLE IRON FRAMING AS REQUIRED FOR INSTALLATION PER THE MANUFACTURERS RECOMMENDATIONS AND INSTALLATION GUIDE. IT IS THE INTENT OF THE DRAWINGS THAT THE RADIANT TUBE HEATERS ARE TO NOT BE INSTALLED DIRECTLY OVER THE TAIL SECTIONS OF THE PLANES. THE MECHANICAL CONTRACTOR SHALL COORDINATE FINAL INSTALLATION LOCATION WITH THE OWNER AND ARCHITECT PRIOR TO THE INITIATION OF ANY WORK.
7. PROVIDE AND INSTALL NEW SIDEWALL LOUVER. PROVIDE AND INSTALL BACKER ROD AND NON-SHRINKING CAULK AROUND THE PERIMETER OF THE LOUVER FOR A WEATHER TIGHT INSTALLATION. CAULKING SHALL BE INSTALLED TO PREVENT THE INFILTRATION OF OUTDOOR AIR INTO THE BUILDING ENVELOPE. COORDINATE LOUVER ELEVATION WITH ARCHITECT PRIOR TO THE INITIATION OF WORK.
8. PROVIDE AND INSTALL A LOW LEAK MOTOR OPERATED DAMPER AND ACTUATOR WITHIN THE DUCTWORK AS SHOWN. INTERLOCK OPERATION OF THE DAMPER WITH EF-4 SO THAT WHEN EF-4 IS ENERGIZED "ON", THE DAMPER IS IN THE OPEN POSITION. PROVIDE AND INSTALL ALL CONTROL WIRING, RELAYS, AND ACCESSORIES AS REQUIRED TO INTERLOCK EXHAUST FAN AND OUTDOOR AIR INTAKE MOTORIZED DAMPER FOR A COMPLETE AND FUNCTIONING SYSTEM. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY OFFSETS AND TRANSITIONS IN DUCTWORK AS REQUIRED FOR ROUTING. FIELD VERIFY EXACT ROUTE AND LOCATION OF DUCTWORK WITH ARCHITECT AND GC PRIOR TO INITIATION OF WORK. COORDINATE WITH ALL TRADES.
9. 26"x14", 20 GA., GALVANIZED STEEL OUTSIDE AIR DUCTWORK TO CONNECT TO THE LOUVER AND SHALL ROUTE OUT AND TURN UP AS SHOWN. CONTRACTOR SHALL PROVIDE AND INSTALL INSULATION ON THE ENTIRE ASSEMBLY. PROVIDE AND INSTALL 1/2" x 1/2", 16 GA. ZINC COATED WELDED WIRE MESH LIKE DURO-DYNE DYN-O-MATE MESH TO BE INSTALLED AND SECURELY FASTENED TO THE OPENING ON THE DUCTWORK. REFER TO MECHANICAL VENTILATION LOUVER DETAIL FOR CONNECTION REQUIREMENTS AND ADDITIONAL INFORMATION.
10. 26 GA., GALVANIZED STEEL OUTSIDE AIR DUCTWORK TO CONNECT TO THE LOUVER AND SHALL ROUTE OUT FOR CONNECTION TO THE RADIANT TUBE HEATERS AS SHOWN. CONTRACTOR SHALL PROVIDE AND INSTALL 1-1/2" MINERAL FIBER INSULATION ON ALL THE COMBUSTION AIR DUCTWORK.
11. 54"x24", 20 GA., GALVANIZED STEEL EXHAUST AIR DUCTWORK TO CONNECT TO THE FAN HOUSING AND TURN DOWN AND ROUTE DOWN ALONG THE WALL AND SHALL TERMINATE 12-INCHES ABOVE THE FINISHED FLOOR PER THE 2012 INDIANA MECHANICAL CODE AND THE 2012 INTERNATIONAL FIRE CODE. CONTRACTOR SHALL SURFACE MOUNT THE EXHAUST AIR DUCTWORK WITH STAINLESS STEEL STANCHIONS AND HARDWARE. PROVIDE AND INSTALL 1/2" x 1/2", 16 GA. ZINC COATED WELDED WIRE MESH LIKE DURO-DYNE DYN-O-MATE MESH TO BE INSTALLED AND SECURELY FASTENED TO THE OPENING ON THE DUCTWORK.
12. PROVIDE AND INSTALL AIR COOLED CONDENSING UNIT ACCORDING TO MANUFACTURERS REQUIREMENTS. CONDENSING UNIT IS TO BE INSTALLED ON A SINGLE 4" THICK REINFORCED CONCRETE PAD, 6" LARGER THAN THE FOOTPRINT OF THE CONDENSING UNIT AND IS TO BE A MINIMUM OF 4" ABOVE FINISH GRADE. PROVIDE REFRIGERANT PIPING FROM CONDENSING UNIT TO INDOOR COIL. PROVIDE ALL REQUIRED ACCESSORIES AND PIPING SIZED TO MEET MANUFACTURERS RECOMMENDATIONS. ALLOW CLEARANCES FROM BUILDING STRUCTURE AS REQUIRED BY MANUFACTURER. COORDINATE LOCATION OF CONDENSING UNIT WITH ARCHITECT AND WORK OF OTHER TRADES.
13. ROUTE REFRIGERANT PIPING FROM CASED COOLING COIL AT HIGHEST POSSIBLE ELEVATION AND ROUTE DOWN WITHIN INTERIOR WALL AND THROUGH EXTERIOR WALL AT 2'-0" ABOVE GRADE FOR CONNECTION TO GROUND MOUNTED CONDENSING UNIT. CORE DRILL OPENINGS AS REQUIRED FOR PIPING PENETRATION AND SEAL WEATHER TIGHT. APPLY "UV" COATING TO ARMAFLEX INSULATION INTALLED OUTDOORS. PIPING AT WALL PENETRATION SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE AND SHALL BE SEALED WEATHER TIGHT. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL REQUIRED REFRIGERANT LINESETS AND REFRIGERANT FOR CONNECTION FROM AIR HANDLER TO OUTDOOR UNIT AS REQUIRED FOR EXTENDED LENGTHS. INSTALL PIPING PER MANUFACTURERS RECOMMENDATION.
14. ROUTE 3/4" PUMPED COPPER CONDENSATE DRAIN PIPING FROM SPLIT SYSTEM A/C UNIT AT HIGHEST POSSIBLE ELEVATION AND ROUTE TO MOP BASIN LOCATED IN JANITOR 103. SURFACE MOUNT AND ROUTE PIPING DOWN IN THE CORNER OF THE WALL AND ROUTE DISCHARGE INTO MOP BASIN. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND ALL LOCAL CODES.
15. PROVIDE AND INSTALL NEW TEMPERATURE SENSOR IN LOCATION SHOWN. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRING, RELAYS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM. WIRING SHALL BE INSTALLED PER ELECTRICAL SPECIFICATIONS.
16. PROVIDE AND INSTALL SIDEWALL EXHAUST VENT CAP WITH BIRD SCREEN. CONTRACTOR SHALL PROVIDE AND INSTALL NON-SHRINK, COLOR MATCHED CAULK TO SEAL PENETRATION WEATHER TIGHT. ARCHITECT TO SELECT COLOR OF CAULKING.
17. EXHAUST FAN MOTOR CONTROL CENTER TO BE MOUNTED ON WALL IN LOCATION AS SHOWN. MOUNT THE MOTOR CONTROL CENTER AT A MINIMUM OF 5'-0" A.F.F. TO BOTTOM OF UNIT.

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ARCHITECTURE
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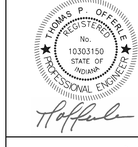
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SEAL



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 02	11-17-26

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

First Floor Mechanical Plan

M-100

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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	SWITCH	JANITOR	1, 3
EF-3	GREENHECK	SP-A250	200	0.25	(83)	860	2.0	120 /1	SWITCH	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

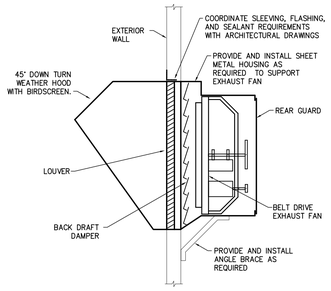
TAG	MFG	MODEL	TUBE LENGTH (FT)	INPUT (HIGH / LOW MBH)	CONFIGURATION	FUEL	ELECT.	AREA SERVED	REMARKS
RH-1	SOLARONICS	MTSA 200	66'-9.25"	200 / 145	4" SINGLE TUBE	N. G.	120 / 1	HANGAR 101	1 THRU 3
RH-2	SOLARONICS	MTSA 200	66'-9.25"	200 / 145	4" SINGLE TUBE	N. G.	120 / 1	HANGAR 101	1 THRU 3
RH-3	SOLARONICS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

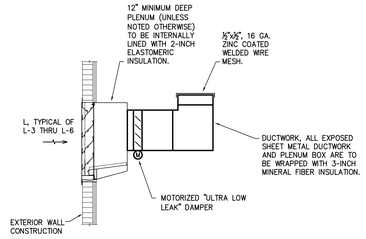
TAG	MFG	SERIES	MODEL	TYPE	KW	MBH	CFM	ELECT	AMPS	LOCATION	REMARKS
EUH-1	MARKEL	5100	F2F5103N	VERTICAL DOWN FLOW	3.3	11.2	400	208 / 3	9.2	JANITOR 103	1

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



SIDEWALL EXHAUST FAN DETAIL

NOT TO SCALE

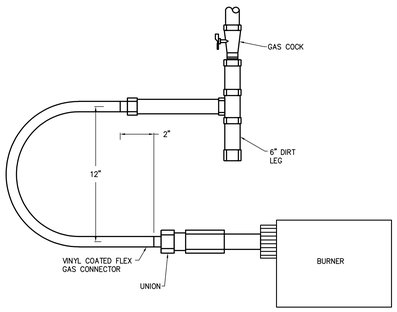


MECHANICAL VENTILATION LOUVER DETAIL

NOT TO SCALE

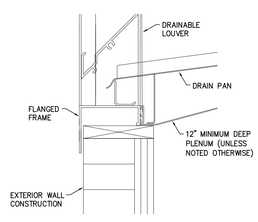
LOUVER PLENUM SECTION

NOT TO SCALE



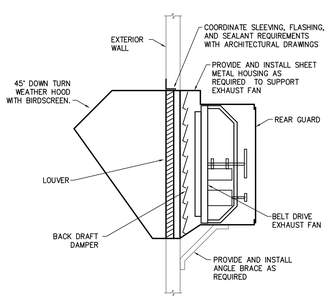
GAS FIRED INFARED HEATER HOOK UP

NOT TO SCALE



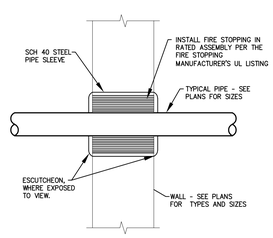
A LOUVER PLENUM SECTION ENLARGED PLAN

NOT TO SCALE



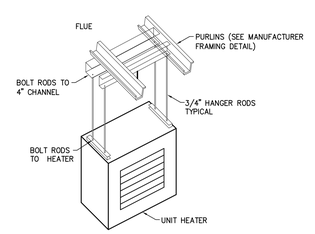
SIDEWALL EXHAUST FAN DETAIL

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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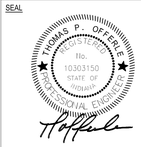
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SEAL



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

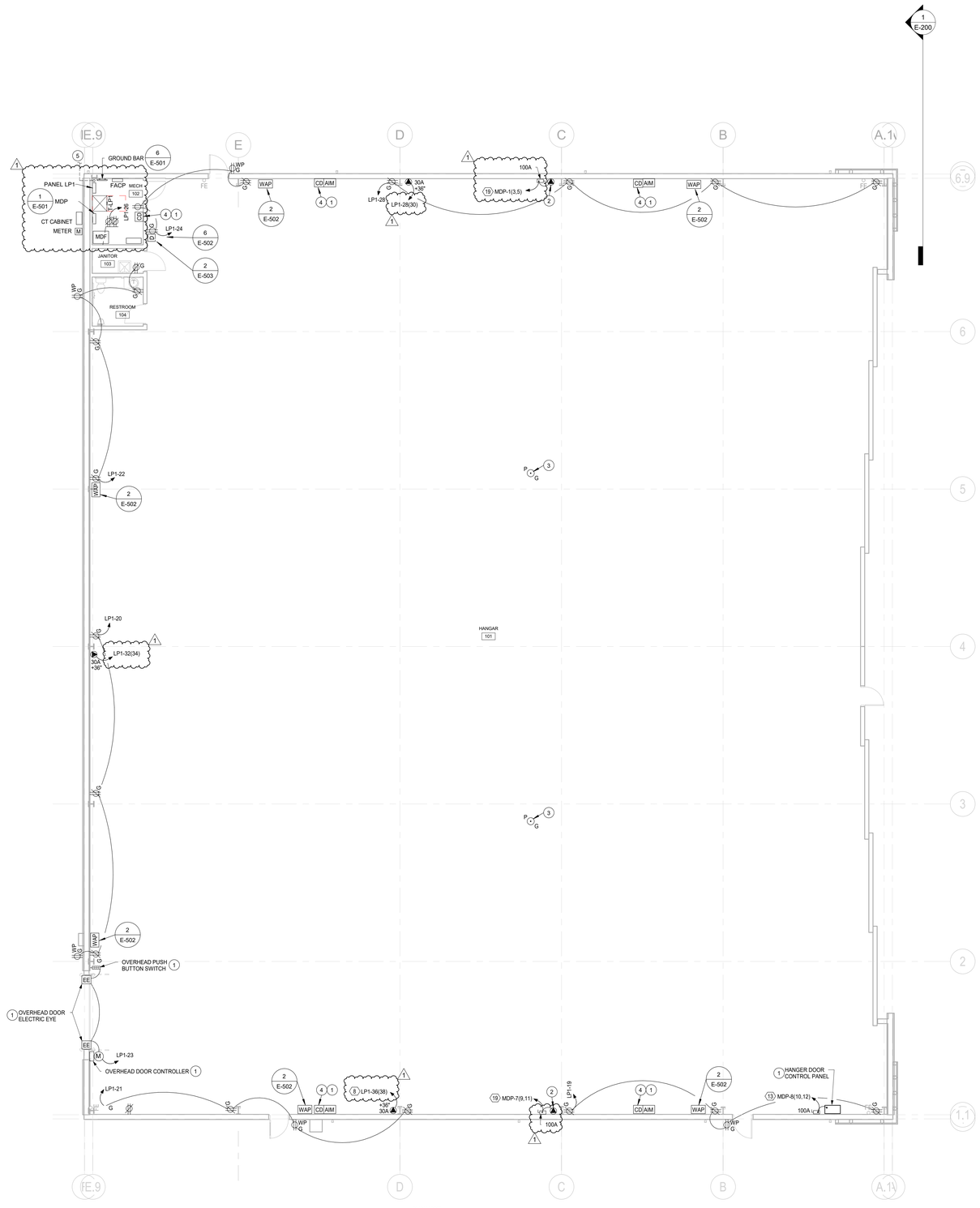
REVISIONS		
NO.	DESCRIPTION	DATE
1	Addendum 01	11-04-26
2	Addendum 02	11-x17-26

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

Mechanical Details and Schedules

M-601

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Cloud Models:P:\FWACAA Gen Aviation Hangar\FWA Hangar 2070 Elec Central.rvt



PLAN NORTH

First Floor Electrical Power Plan

1/8" = 1'-0"

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. EQUIPMENT IS PROVIDED AND INSTALLED BY ANOTHER CONTRACTOR. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND PLUMBING DRAWING SHEETS TO COORDINATE THE EXACT LOCATION OF EQUIPMENT WITH EQUIPMENT PROVIDER. ELECTRICAL CONTRACTOR SHALL TERMINATE EQUIPMENT AS REQUIRED. WHERE NO STARTERS, DISCONNECTS, OR SWITCHES ARE INDICATED, THEY WILL BE FACTORY MOUNTED AND LOAD-SIDE WIRED.
2. CONTRACTOR SHALL PROVIDE AND INSTALL 100A, 480V, 3-PHASE PIN AND SLEEVE RECEPTACLE FOR AIRCRAFT GROUND POWER UNIT.
3. CONTRACTOR SHALL PROVIDE AND INSTALL FLUSH MOUNTED, IN-FLOOR AIRCRAFT STATIC GROUNDING RECEPTACLE EQUAL TO ERICO #B165, WITH 3/4"x10' GROUND ROD. BARE STRANDED #2CU CONDUCTOR EXOTHERMIC WELDED TO GROUND ROD. COORDINATE EXACT LOCATION WITH CONSTRUCTION MANAGER PRIOR TO ROUGH-IN / INSTALLATION.
4. CONTRACTOR SHALL PROVIDE MACURCO #CM-6 LOW VOLTAGE CARBON MONOXIDE DETECTOR OR APPROVED EQUAL. PROVIDE SUPERVISED AIM TO MONITOR SYSTEM AND TIE INTO THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS FOR TERMINATION WITH MANUFACTURER RECOMMENDATIONS/REQUIREMENTS.
5. CONTRACTOR SHALL PENETRATE EXTERIOR WALL WITH (1) 3/4"C FOR POWER AND (1) 3/4"C FOR CONTROLS, ROUTED UNDERGROUND FROM MECHANICAL #102 AND STUBBED AND CAPPED AT GATE LOCATION NEAR ENTRANCE. REFER TO SHEET E-601 FOR PARTIAL SITE PLAN FOR POTENTIAL ROUTING AND LOCATION OF GATE. COORDINATE FINAL LOCATIONS WITH CONSTRUCTION MANAGER.

ALTERNATE #01: ELECTRICAL CONTRACTOR SHALL PROVIDE PRICING FOR INSTALLATION OF A LIGHTNING PROTECTION SYSTEM FOR A LOW-RISE BUILDING, UTILIZING COPPER CONDUCTORS.

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WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER SECTION 102 OF THE COPYRIGHT ACT, 17 U.S.C., 18 U.S.C. SEC. 506. UNAUTHORIZED USE CAN BE PAY UP TO $250,000 AND 5 YEARS IMPRISONMENT. THE CONCEPTS, IDEAS, DESIGNS, ARRANGEMENTS, DRAWINGS, AND PLANS DISCLOSED ARE COPYRIGHTED AND HEREIN MAY BE POTENTIOUS OR BE THE BASIS OF AN INFRINGEMENT OF COPYRIGHT AND ANY AND ALL RIGHTS UNDER THE COPYRIGHT PROTECTION WILL BE PROSECUTED TO THE FULL EXTENT OF THE FEDERAL STATE AND LOCAL LAWS.

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SEAL

THOMAS P. OFERLE
REGISTERED
No. 10303150
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	Addendum #02	11-17-26

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

First Floor Electrical Power Plan

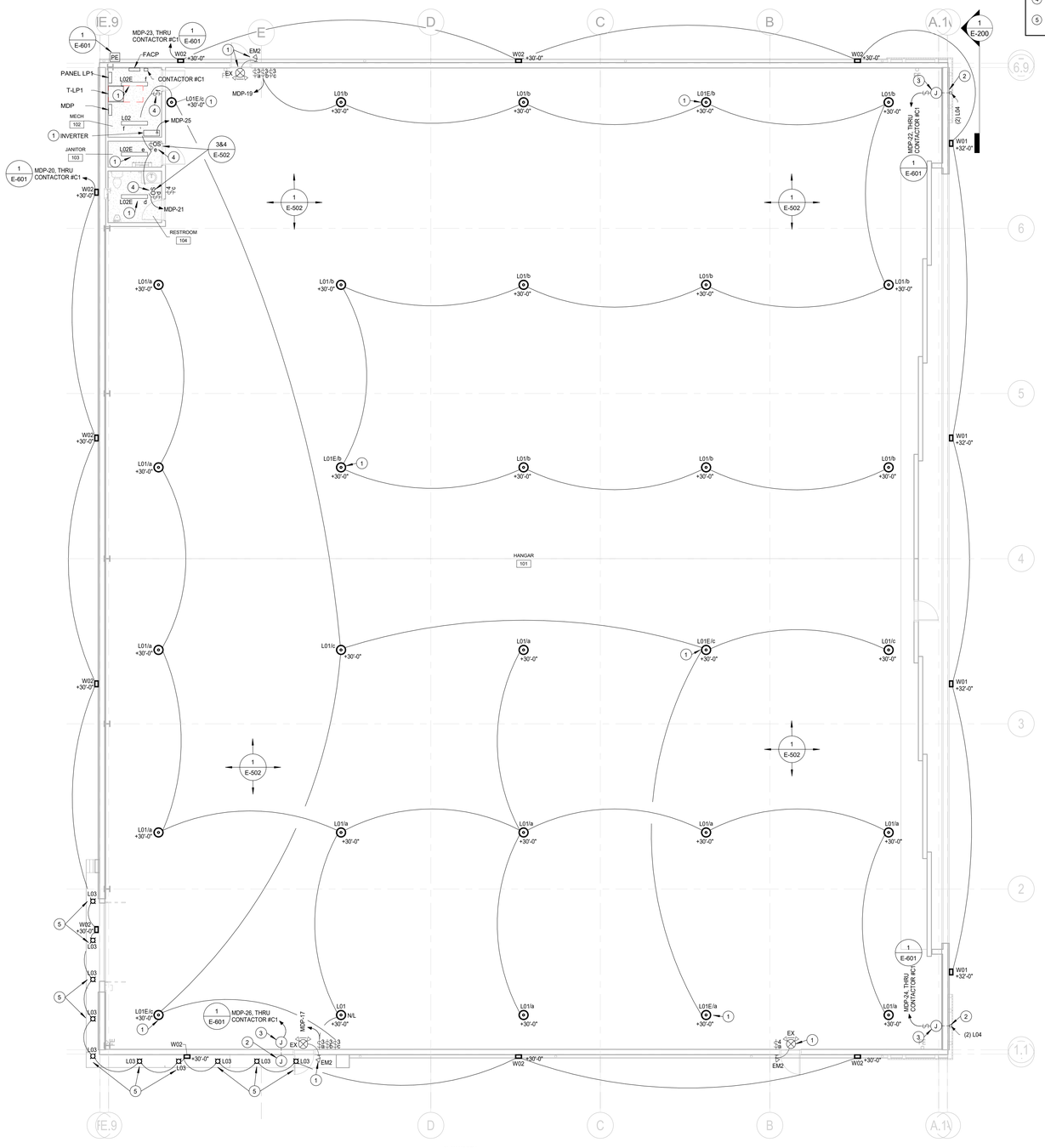
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11/3/2026 9:30:29 AM
C:\Revit Models FWACAA Gen Aviation Hangar\FWA Hangar 2070 Dec Central.rvt

ELECTRICAL PLAN NOTES

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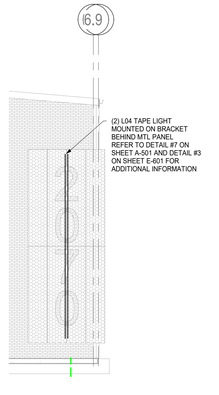
1. TERMINATE EXIT, EM, AND EM1 FIXTURES THRU INVERTER SYSTEM EQUAL TO IOTA #ISC-2200-277IN-277OUT-WALL-LCR-SYR WITH (6) 1P277 / 10AMP / NORMALLY OFF CONTROL BREAKERS. EACH LUMINAIRE WITH IOTA #ETS-20 LOAD CONTROLLERS. INVERTER AND ACCESSORIES PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. PROVIDE 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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SEAL



FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

Fort Wayne International Airport
General Aviation Hangar 2070

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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

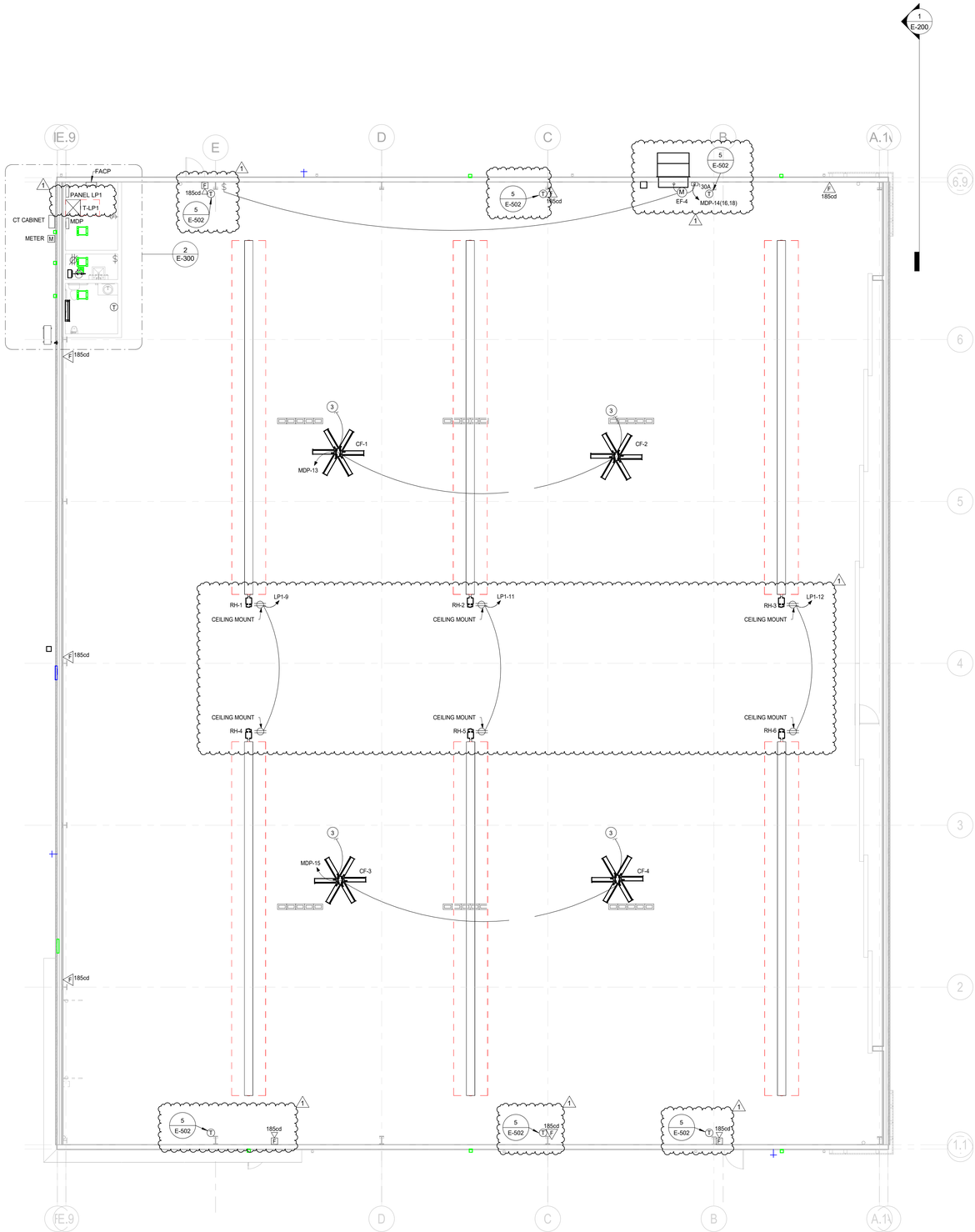
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ELECTRICAL PLAN NOTES

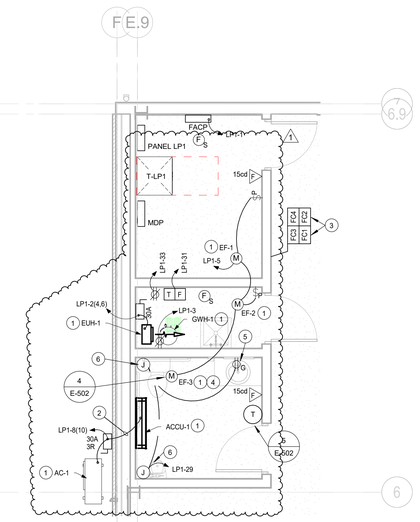
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2. 3/4"C, 2-#12, 1-#12G, FROM ACCU-1 LOCATED OUTSIDE OF RESTROOM #104 TO AC-1 LOCATED IN RESTROOM #104. TERMINATE FOR A COMPLETE AND FUNCTIONAL SYSTEM.
3. FAN CONTROLLER 1-4 PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDED AND INSTALL (1)-CAT6 CABLE FROM EACH FAN TO CONTROLLER AND TERMINATE FOR A COMPLETE AND FUNCTION SYSTEM.
4. ELECTRICAL CONTRACTOR SHALL TERMINATE EXHAUST FAN CONTROLS THRU 120/277V RELAY CONNECTED TO LIGHTING CONTROLS SERVING AREA.
5. DUPLEX RECEPTACLE FOR AUTO-SINK AND SOAP DISPENSERS. COORDINATE EXACT LOCATION WITH APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN / INSTALLATION.
6. JUNCTION BOX FOR FLUSH VALVE CONTROLS, PROVIDED BY OTHERS TERMINATED BY ELECTRICAL CONTRACTOR.



PLAN NORTH

First Floor Electrical Systems Plan
1/8" = 1'-0"



2 Enlarged Electrical Systems Plan
1/4" = 1'-0"

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SEAL



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REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum #02	11-17-26

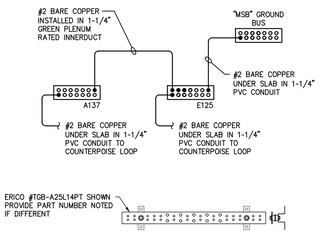
PROJECT NO: 2601701 (262919)
ISSUE DATE: 10.21.2026

SUBMITTAL: Bidding and Construction

First Floor Electrical Systems Plan

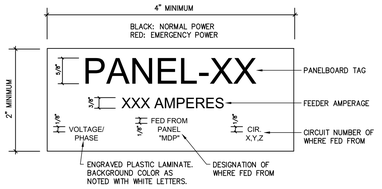
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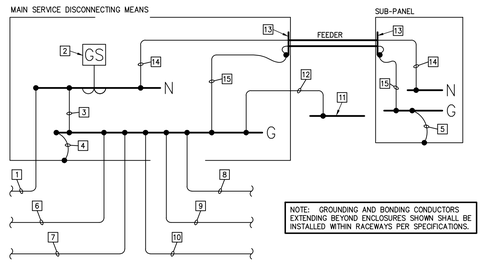
6 GROUND BUS DETAIL

NOT TO SCALE



3 EQUIPMENT TAG DETAIL, TYPICAL

NOT TO SCALE

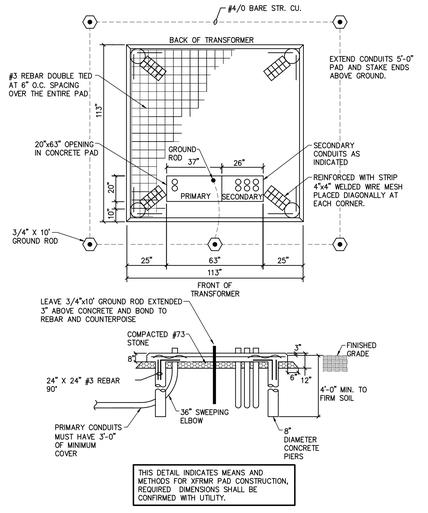


NOTE: GROUNDING AND BONDING CONDUCTORS EXTENDING BEYOND ENCLOSURES SHOWN SHALL BE INSTALLED WITHIN RACEWAYS PER SPECIFICATIONS.

1. GROUNDED CONDUCTOR (NEUTRAL) EXTENDS TO UTILITY XFRMR BANK OR PAD MOUNT WITHIN SERVICE ENTRANCE FEEDERS.
2. GFCI SENSOR WHEN SHOWN OR SPECIFIED.
3. MAIN BONDING JUMPER AS PROVIDED BY MANUFACTURER OR SIZED PER TABLE 250.66.
4. MAIN BONDING SYSTEM JUMPER AS PROVIDED BY MANUFACTURER OR SIZED PER TABLE 250.66.
5. EQUIPMENT BONDING JUMPER AS PROVIDED BY MANUFACTURER ON SIZED PER TABLE 250.122.
6. #6 CU TO GROUNDING ELECTRODE TRIANGLE WITH ELECTRODES SPACED 11'-0" APART, EXOTHERMIC WELD REQUIRED.
7. #2/0 CU TO COUNTERPOISE LOOP WHEN SHOWN OR SPECIFIED.
8. BOND TO UNDERGROUND METALLIC PIPING SYSTEMS (DOMESTIC WATER, FIRE PROTECTION, NATURAL GAS) WITHIN 5'-0" OF ENTERING THE BUILDING. #6 CU MINIMUM UNLESS OTHERWISE NOTED. A JUMPER SHALL BE INSTALLED ACROSS ANY REMOVABLE ITEMS THAT WILL REQUIRE PERIODIC MAINTENANCE (METERS, FILTERS, BACK-FLOW PREVENTERS, ETC.).
9. BOND TO STRUCTURAL STEEL WHEN AVAILABLE, SIZED PER 250.66.
10. #4 CU, UNLESS NOTED OTHERWISE, TO FOUNDATION FOOTING RE-BAR, EXOTHERMIC WELD REQUIRED.
11. MASTER TEL/COM GROUND BAR AT SERVICE ENTRANCE WHEN SHOWN OR SPECIFIED.
12. #2/0 CU, UNLESS NOTED OTHERWISE.
13. THREADED BONDING BUSHING WITH INSULATED THROAT INSTALLED ON ALL FEEDERS.
14. GROUNDED CONDUCTOR (NEUTRAL) SIZED THE SAME AS PHASE CONDUCTORS OF EACH FEEDER. AS NOTED ON RISER DIAGRAM.
15. GROUNDING CONDUCTOR (EQUIPMENT GROUND) SIZED AS NOTED ON RISER DIAGRAM LOOPED THRU BOND LUG.

5 SERVICE ENTRANCE GROUNDING/BONDING DIAGRAM

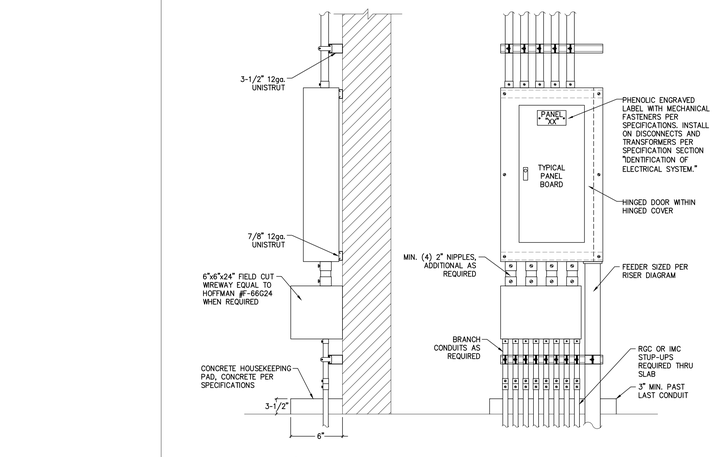
NOT TO SCALE



THIS DETAIL INDICATES MEANS AND METHODS FOR XFMR PAD CONSTRUCTION, REQUIRED DIMENSIONS SHALL BE CONFIRMED WITH UTILITY.

2 PAD MOUNT XFRMR

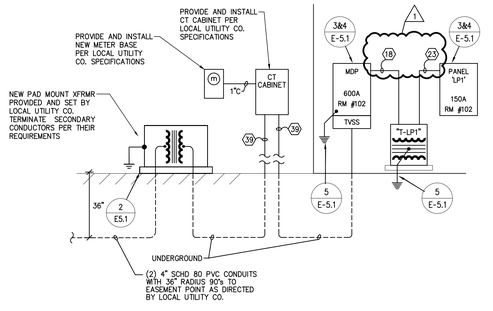
NOT TO SCALE



4 SURFACE MOUNTED PANEL DETAIL

NOT TO SCALE

THE ELECTRICAL CONTRACTOR SHALL PROVIDE A LABEL ON ALL PANELBOARDS, DISTRIBUTION PANELS, SWITCHBOADS AND TRANSFORMERS INDICATING THE ARC-FLASH HAZARD. LABEL SHALL MEET THE REQUIREMENTS OF NEC 110.16. LABELS ARE PROVIDED BY THE GEAR MANUFACTURE AND ARE BASED ON THE OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY PROVIDED BY THE GEAR MANUFACTURER. LABELS ARE INSTALLED IN THE FIELD BY THE CONTRACTOR, BY NEC 110.24. THE CALCULATION SHALL BE DOCUMENTED AND MADE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN OR OPERATE THE SYSTEM.



1 ELECTRICAL RISER DIAGRAM

NOT TO SCALE

PANELBOARD SCHEDULE

PANEL NAME: MDP

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR TYPE: DOOR IN DOOR
VOLTAGE: 480Y/277, 3PH, 4W
PHASE: 3
WIRES: 4
MIN. A.I.C. RATING: 22K
LOCATION: MECH. #102
MAIN TYPE: MCB
BUS RATING: 600A
MCB RATING: 600A
BUS MATERIAL: COPPER
FEED FROM: SERVICE
SPD:
NEUTRAL RATING: 1
ISOLATED GROUND: NO

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD TYPE	CKT #	A	B	C	CKT #	LOAD TYPE	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
					1	22.20			2					
	PIN + SLEEVE APU	100A	3	C		10.20								
					3		22.20		4	C	3	150A	PANEL LP1 THRU T-LP1	
							10.20							
					5			22.20	6					
								10.20						
	PIN + SLEEVE APU	100A	3	C	7	22.20			8					
					9		22.20		10	M	3	100A	HANGAR DOOR	
							22.20							
					11			22.20	12					
								22.20						
	CF-1,2	20A	1	M	13	1.00			14					
							1.90			M	3	15A	EF-4	
	CF-3,4	20A	1	M	15		1.00		16					
								1.80						
	L: HANGAR #101	20A	1	L	17			1.00	18					
						1.20								
	L: HANGER #101	20A	1	L	19	0.30			20	L	1	20A	S. EXTERIOR LIGHT	
							1.50							
	L: HANGER #101	20A	1	L	21		0.50		22	L	1	20A	BUILDING SIGN	
								0.40						
	NORTH EXTERIOR LIGHT	20A	1	L	23			0.50	24	L	1	20A	BUILDING SIGN	
						2.20								
	EM INVERTER	15A	1	E	25	0.50			26	L	1	20A	FUTURE SIGN	
	SPARE	20A	1	-	27		-		28	-	1	20A	SPARE	
							-							
	SPARE	20A	1	-	29			-	30	-	1	20A	SPARE	
	SPACE	-	1	-	31	-			32	-	1	-	SPACE	
						-	-							
	SPACE	-	1	-	33		-		34	-	1	-	SPACE	
								-						
	SPARE	-	1	-	35			-	36	-	1	-	SPACE	
	SPACE	-	1	-	37	-			38	-	1	-	SPACE	
						-	-							
	SPACE	-	1	-	39		-		40	-	1	-	SPACE	
	SPACE	-	1	-	41			-	42	-	1	-	SPACE	
	TOTAL CONNECTED LOAD PER PHASE (KVA)					84.40 KVA	81.70 KVA	80.50 KVA						
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					305A	295A	291A						

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
R	Receptacle	0.00 KVA	0.00%	0.00 KVA	Total Conn. Load	246.60 KVA
L	Lighting	7.20 KVA	125.00%	9.00 KVA	25% OF LARGEST MOTOR	16.65 KVA
C	Continuous	163.80 KVA	125.00%	204.75 KVA	Est. Demand	306.00 KVA
E	Equipment	2.20 KVA	100.00%	2.20 KVA	Total Conn. Current	297A
M	Motor	73.40 KVA	122.68%	90.05 KVA	Est. Demand Current	368A
K	Kitchen	0.00 KVA	0.00%	0.00 KVA		
F	Future	0.00 KVA	0.00%	0.00 KVA		

PANELBOARD SCHEDULE

PANEL NAME: LP1

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR TYPE: STANDARD
VOLTAGE: 208Y/120, 3PH, 4W
PHASE: 3
WIRES: 4
MIN. A.I.C. RATING: 22K
LOCATION: MECH. #102
MAIN TYPE: MCB
BUS RATING: 225A
MCB RATING: 150A
BUS MATERIAL: COPPER
FEED FROM: SERVICE
SPD: -
NEUTRAL RATING: 1
ISOLATED GROUND: NO

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD TYPE	CKT #	A	B	C	CKT #	LOAD TYPE	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
						1.00								
	FACP	20A	1	E	1	1.20			2					
							1.20			C	3	15A	EUH-1	
	GWH-1	20A	1	C	3		1.20		4					
								0.10						
	EF-1,2,3	15A	1	M	5			1.20	6					
						-								
	SPARE	20A	1	-	7	1.60			8	M	2	20A	AC/ACCU-1	
							0.50							
	RH-1,4	20A	1	C	9		1.60		10					
								0.50						
	RH-2,5	20A	1	C	11			0.50	12	C	1	20A	RH-3,6	
	SPARE	20A	1	-	13	-			14	-	1	20A	SPARE	
						-								
	SPARE	20A	1	-	15		-		16	-	1	20A	SPARE	
								-						
	SPARE	20A	1	-	17			-	18	-	1	20A	SPARE	
						0.80								
	R: SOUTH #101	20A	1	R	19	0.80			20	R	1	15A	R: NORTH WEST #101	
							0.80							
	R: SOUTH WEST #101	20A	1	R	21		0.80		22	R	1	20A	R: NORTH #101	
								1.50						
	OVERHEAD DOOR	20A	1	R	23			0.80	24	R	1	15A	R: MDF	
						0.50								
	TAMPER/FLOW SWITCH	20A	1	R	25	0.50			26	R	1	20A	R: EAST #101	
							0.80							
	R: NORTH #101	20A	1	R	27		2.30		28	R	2	30A	R: NORTH #101	
								1.00						
	R: FLUSH VALVES	20A	1	C	29			2.30	30					
						1.00								
	TAMPER/FLOW	20A	1	C	31	2.30			32	R	2	30A	R: SOUTH #101	
							1.00							
	AIR COMPRESSOR	20A	1	E	33		2.30		34					
								-						
	SPACE	20A	1	-	35	-		2.30	36	R	2	30A	R: WEST #101	
						-	-							
	SPACE	20A	1	-	37	2.30			38					
							-							
	SPACE	20A	1	-	39		-		40	-	1	20A	SPACE	
								-						
	SPACE	20A	1	-	41			-	42	-	1	20A	SPACE	
	TOTAL CONNECTED LOAD PER PHASE (KVA)					13.00 KVA	12.50 KVA	10.20 KVA						
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					108A	104A	85A						

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
R	Receptacle	21.60 KVA	73.15%	15.80 KVA	Total Conn. Load	35.70 KVA
L	Lighting	8.30 KVA	125.00%	10.38 KVA	25% OF LARGEST MOTOR	32.78 KVA
C	Continuous	2.50 KVA	100.00%	2.50 KVA	Est. Demand	99A
E	Equipment	3.30 KVA	124.24%	4.10 KVA	Total Conn. Current	91A
M	Motor	0.00 KVA	0.00%	0.00 KVA	Est. Demand Current	
K	Kitchen	0.00 KVA	0.00%	0.00 KVA		
F	Future	0.00 KVA	0.00%	0.00 KVA		

TRANSFORMER SCHEDULE

TAG	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	TEMP RISE*	HOUSING	FED FROM	MOUNT
T-LP1	45	480 3PH 3W	120/208 3PH 4W	150° C	NEMA 1	MDP	PAD

ELEVATUS
ARCHITECTURE
111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802
260 424-9080
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S2 ARCHITECTS, LLC dba ELEVATUS ARCHITECTURE

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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

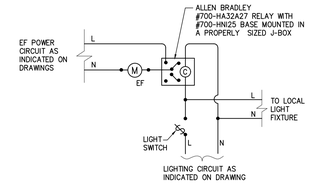
REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM #02	11.17.26

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

Electrical Details and Diagrams

E-501

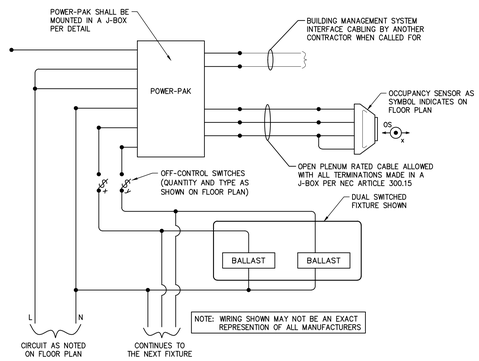
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Cloud Models://TPAC/AA Gen Aviation Hangar/FWA Hangar 2070 Elec Central.rvt



4 EF CONTROL DETAIL

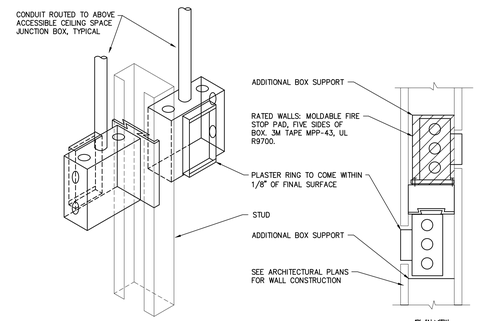
NOT TO SCALE

NOTE: CABLING SHALL BE SUPPORTED FROM STRUCTURE ON J-HOOKS OR BRIDLE RINGS ON A MAXIMUM OF 5' CENTERS, ADD STRUCTURE AS REQUIRED.



3 OCCUPANCY SENSOR/OFF-CONTROL SWITCH DIAGRAM

NOT TO SCALE

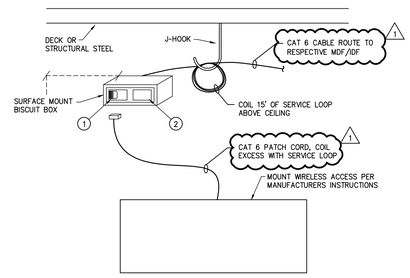


CONDUIT ROUTED HORIZONTALLY THRU WALL TO ADJACENT ELECTRICAL DEVICE IS PROHIBITED. EACH ELECTRICAL DEVICE SHALL BE SERVICED VERTICALLY ONLY.

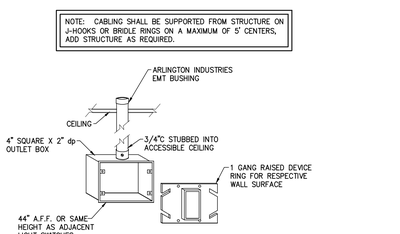
6 SIDE BY SIDE DEVICE OPENINGS

NOT TO SCALE

DETAIL NOTES
1 CAT. 6A OUTLET, ROUTE CAT 6A CABLE TO RESPECTIVE MDF/IDF.
2 BLANK.

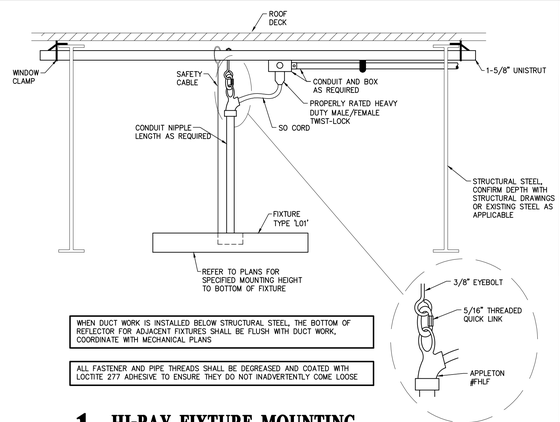


2 WAP WIRELESS ACCESS POINT DETAIL



5 T TYPICAL THERMOSTAT DETAIL

NOT TO SCALE



WHEN DUCT WORK IS INSTALLED BELOW STRUCTURAL STEEL, THE BOTTOM OF REFLECTOR FOR ADJACENT FIXTURES SHALL BE FLUSH WITH DUCT WORK, COORDINATE WITH MECHANICAL PLANS

ALL FASTENER AND PIPE THREADS SHALL BE DEGREASED AND COATED WITH LOCTITE 277 ADHESIVE TO ENSURE THEY DO NOT INADVERTENTLY COME LOOSE

1 HI-BAY FIXTURE MOUNTING

NOT TO SCALE

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111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802
260 424-9080 Elevatus.com

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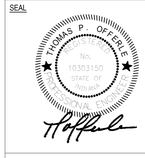
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SEAL



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 #02	11.17.26

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

SUBMITTAL
Bidding and Construction

Electrical Details and Diagrams

E-502

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Cloud Models/FWACAA Gen Aviation Hangar/FWA Hangar 2070 Elec 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

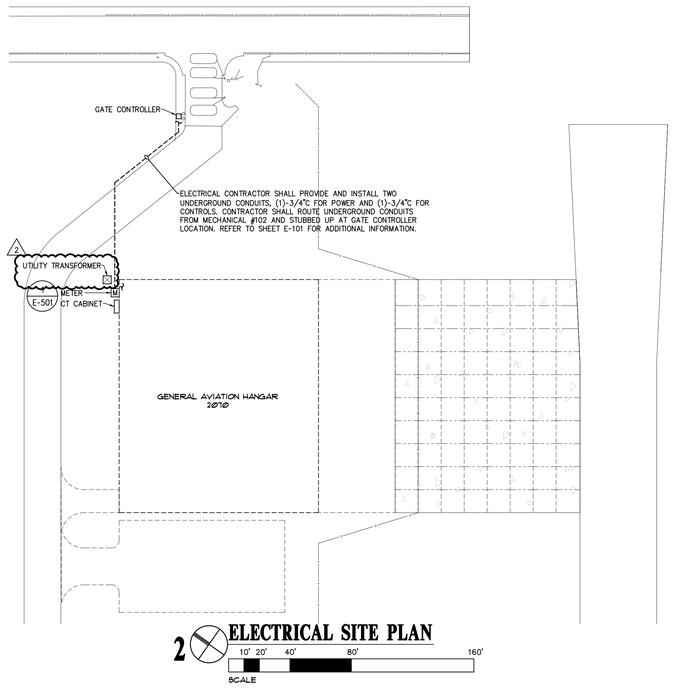
TYPE	MANUFACTURER'S CATALOG NUMBER	MOUNT	LED		VOLTAGE	INPUT WATTS	REMARKS
			LUMENS	COLOR			
L01	LITHONIA #REBL AL028 MD UVOLT SWW9 80CRI DWH METALUX, COLUMBIA, HE WILLIAMS	HOOK & PLUG	45000	4000K	120/277	249	2
L01E	SAME AS L01 THRU IOTA #ETS-20 CONNECTED TO IOTA INVERTER; TERMINATE TO LINE SIDE OF CIRCUIT 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	2
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 SW3PINFT4 HALO, COLUMBIA, HE WILLIAMS	CANOPY	750	4000K	120/277	8	2
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 #LQM S BBS RG MVOLT EL SD DUAL LITE, SURE LITE	UNIVERSAL		RED	120/277	1.5	

THESE REMARKS APPLY TO ALL LUMINAIRE TYPES:

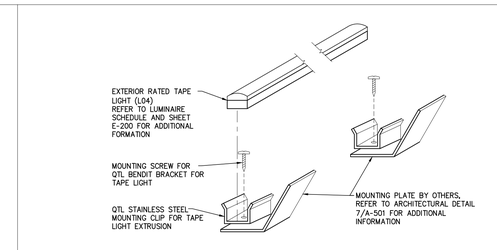
- LUMINAIRES HAVE BEEN SPECIFIED ON A PERFORMANCE BASIS.
- LUMINAIRES LISTED ARE APPROVED, EQUALS MUST BE SUBMITTED FOR APPROVAL PRIOR TO BID.

** LUMINAIRE SHALL BE COMPARABLE IN APPERTURE SIZE
** LED'S SHALL HAVE THE SAME KELVIN TEMPERATURE
** LUMINAIRE SHALL MEET OR EXCEED 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.

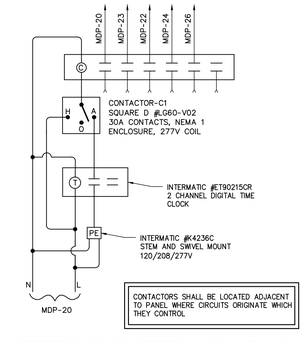


2 ELECTRICAL SITE PLAN



3 EXTERIOR TAPE LIGHT MOUNTING DETAIL

NOT TO SCALE



1 EXTERIOR LIGHTING DIAGRAM

NOT TO SCALE

ELEVATUS
ARCHITECTURE
111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802
260 424-9080 Elevatus.com

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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

NO.	REVISIONS DESCRIPTION	DATE
1	ADDENDUM #01	11.05.26
2	ADDENDUM #02	11.17.26

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

SUBMITTAL
Bidding and Construction

Electrical Schedules

E-601

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