FORT WAYNE-ALLEN COUNTY
AIRPORT AUTHORITY

FORT WAYNE INTERNATIONAL AIRPORT
SMITH FIELD AIRPORT

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY
NOTICE OF REQUEST FOR
SUBMITTAL OF PROPOSALS FOR PROFESSIONAL ARCHITECTURAL SERVICES

Notice is hereby given that the Fort Wayne-Allen County Airport Authority is soliciting proposals from qualified firms to provide architectural services to the Fort Wayne-Allen County Airport Authority to design a new aircraft hangar at Fort Wayne International Airport.

Proposal details may be obtained on the Authority's website at www.fwairport.com, Business, Solicitations & Bidding. Any issued addendums to this bid will be also posted at this site. It will be the responsibility of interested firms to obtain any and all posted addendums.

Sealed proposals must be submitted to the Fort Wayne-Allen County Airport Authority, 3801 W. Ferguson Road, Suite 209, Fort Wayne, IN 46809, no later than 3:00 p.m. May 14, 2026. The outside of the proposal shall be marked "Architectural Services – New Aircraft Hangar." No RFP will be accepted by electronic means, all must be received by mail or hand delivered.

All questions must be submitted in writing by email to jmarana@fwairport.com by May 4, 2026 @ 3:00 P.M.

The Fort Wayne-Allen County Airport Authority in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders or offerors that it will affirmatively ensure that for any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and no businesses will be discriminated against on the grounds of race, color, national origin, creed, sex, age, or disability in consideration for an award.

The Fort Wayne-Allen County Airport Authority reserves the rights to reject any and all proposals, to negotiate the terms and conditions of the proposals, to waive irregularities and/or formalities, and to make an award in the manner as determined to be in the Authority's best interest.

Scott Hinderman, A.A.E.
Chief Executive Officer

A Whole New Altitude

FORT WAYNE-ALLEN COUNTY
AIRPORT AUTHORITY
FORT WAYNE INTERNATIONAL AIRPORT
SMITH FIELD AIRPORT

Request for Proposals

Aircraft Hangar Architectural Services

Fort Wayne International Airport

RFP Due: May 14, 2026 @ 3:00 P.M. EDT

One Original and four (4) copies of RFP shall be submitted in response to this Request for Proposal. An electronic copy (USB Drive) should also be provided.

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Aviation Fuel Supplier
Due Date: May 14, 2026 @ 3:00 P.M. EDT

1. INSTRUCTIONS FOR PROPOSAL SUBMISSION

1. **How to Submit Proposals:** All proposals shall be:

   (a) Submitted in sealed opaque envelope, plainly marked with "Architectural Services – New Aircraft Hangar".

   (b) Mailed or delivered as follows in sufficient time to ensure receipt by the Purchasing Manager on or before the date and time specified above.

   (1) Mailing Address:

   Jeff Hermansen
   Purchasing Manager
   Fort Wayne-Allen County Airport Authority
   3801 W. Ferguson Road, Suite 209
   Fort Wayne, Indiana 46809-3142

   (2) Hand Delivery Address:

   Same address as above

   (3) RFPs not received by the time and date specified above will not be opened.

2. **Schedule**

Submission time: A bound original and four (4) copies of the proposal are due on or before May 14, 2026 @ 3:00 P.M. Eastern Daylight Time. An electronic (USB) copy should also be provided. Submittals shall not be accepted after the date and time indicated. **The schedule of milestones for this proposal process after the proposal due date is tentative and subject to change.**

ITEM	DATE
Release RFP	April 21,2026
Final Questions Due	May 4, 2026 at 3:00 P.M. EDT
Last day to post Addenda	May 6, 2026, by COB
RFP Responses Due	May 14, 2026 at 3:00 p.m. EDT
Evaluation by Selection Committee	May 18 – May 20, 2026
Interviews (If Needed)	Week of June 1, 2026
Presentation of Recommendations to Authority Board	June 15, 2026
Contract Negotiations	June 15 – June 26, 2026

2. INTRODUCTION

2 General Information

a. The Fort Wayne-Allen County Airport Authority (Authority) is soliciting proposals from qualified firms to provide architectural services to design a new hangar at Fort Wayne International Airport.

b. The selected firm will have the ability to assist the Authority in all phases of airport development projects as follows:

   i. Preliminary phase—includes activities required for defining the scope of a project and establishing preliminary requirements.

   ii. Design Phase—This phase includes all activities required to undertake and accomplish a full and complete project design. To include, construction documents and documents issued for construction.

   iii. Bidding Phase—Assisting in advertising and securing bids, analyzing bid results, and furnishing recommendations on the award of the contract.

   iv. Construction Phase—All basic services rendered after the award of a construction contract.

   v. Project Closeout Phase—All basic services rendered after the completion of a construction contract.

c. To be considered, an original and four (4) copies of a proposal must be received at the offices of the Fort Wayne-Allen County Airport Authority, 3801 W. Ferguson Road, Suite 209, Fort Wayne, IN 46809 by 3:00 p.m. local time on May 14, 2026. Proposals must be sealed and clearly marked "Architectural Services—New Aircraft Hangar." The Authority reserves the right to reject any and all proposals submitted.

d. Oral presentations may be conducted with selected firms after the initial evaluation process has been completed.

e. Questions during the solicitation period may be directed to Joe Marana, Chief Operating Officer (260) 446-3426. Any modifications to this Request for Proposals will be issued by a written, formal addendum posted to the Authority's website at www.fwairport.com, Airport Business, Solicitations & Bidding.

3. SCOPE OF WORK

1. The Authority is planning to construct a new aircraft hangar on the northwest quadrant of the airfield. This hangar should be very similar in design to Hangar 2018, the last hangar developed by the Authority. Similarities include size, materials, door specifications, technology and aesthetics. This hangar design is attached (Exhibit B) to this solicitation. Hangar 2018 was developed and built through a design/build process. For this solicitation, our plan is to execute the project through traditional design, bid, and build. The referenced building is provided as a basis of design only, to convey general intent and character, and shall not be copied or replicated; all work shall be an original design adapted to this project.
2. The firm shall anticipate that they will begin soon after the contract is awarded by the Authority. The project construction work shall be bid, and awarded, in 2026.
3. Anticipated key milestone dates for this RFP are:

a. RFP Release April 21, 2026
b. Final Questions Due May 4, 2026
c. Last day to post Addenda May 6, 2026, by COB
d. Proposals Due May 14, 2026
e. Evaluation of RFP by Airport Staff May 18-20, 2026
f. Interviews of Selected Firms (if required) Week of June 1, 2026
g. Anticipated Award by Board June 15, 2026
h. Contract Negotiations June 15 – June 26, 2026

4. Hourly rates for each anticipated job classification, as well as an acceptable overhead and profit rate, will be negotiated with the selected firm to develop a scope and fee. In the event that we are unable to successfully negotiate these fees, the Authority reserves the right to negotiate with another firm.

4. DELIVERABLES

1. The selected consultant must be capable of performing, at a minimum, the following:
    a. Preliminary Phase Services:
        i. Conferring with the sponsor on project requirements, finances, schedules, operational safety and phasing considerations, site access and other pertinent matters.
        ii. Coordinating with the Authority's Chief Operating Officer and FAA on environmental, airport layout plan determination and Obstruction Evaluation / Airport Airspace Analysis submittal.
        iii. Coordinating with FAA and other stakeholders to identify potential impacts to their operations.
        iv. Planning, procuring and or/preparing necessary surveys, geotechnical engineering investigations, field investigations, and architectural and engineering studies required for preliminary design considerations.
        v. Developing design schematics, sketches, environmental and aesthetic considerations, project recommendations, preliminary layouts, and cost estimates
    b. Design Phase
        i. Conducting and attending meetings and design conferences to obtain information and to coordinate or resolve matters.
        ii. Collecting data and undertaking field investigations, performing geotechnical engineering studies, and architectural, engineering, and special environmental studies.
        iii. Preparing necessary reports and recommendations.
        iv. Preparing detailed plans, specifications, and cost estimates.
        v. Printing and providing necessary copies of architectural and engineering drawings and contract specifications.
    c. Bidding Phase
        i. Assisting in securing construction bids, analyzing bid results, and furnishing recommendations on bid awards.
    d. Construction Phase

i. Providing consultation and advice to the sponsor during all phases of construction
ii. Representing the sponsor at preconstruction conferences.
iii. Inspecting work in progress and providing appropriate reports to the sponsor.
iv. Reviewing and approving shop and erection drawings submitted by contractors for compliance with design concept.
v. Reviewing, analyzing, and approving laboratory and mill test reports of materials and equipment
vi. Preparing and negotiating change orders and supplemental agreements.
vii. Observing or reviewing performance tests required by specifications.
viii. Determining amounts owed to contractors and assisting sponsors in the preparation of payment requests for amounts reimbursable from grant projects.
ix. Conducting final punch list inspection and submitting reports of the completed project to the sponsor to include, but not be limited to, any reports required by the Owner and any governing agency.

5. PROPOSAL EVALUATION PROCESS

1. Proposal Format
    a. The proposal that the vendor will submit shall not exceed 30 pages (exclusive of financial reports) and shall contain, at a minimum, the following critical information:
2. Transmittal Letter
    a. Corporate Background and Financial Stability:
        i. Name of firm and brief profile and history of firm
        ii. Location of the office(s) to perform the work
        iii. Copies of the two (2) most recent year's Income Statement, Balance Sheet, Statement of Cash Flow, and Auditor's Report
        iv. Indicate whether your firm has ever been sued for issues pertaining to fee payment and/or contract performance. If yes, provide details.
        v. Indicate whether your firm has ever been declared bankrupt. If yes, state date, court jurisdiction, amount of liabilities and amount of assets.
        vi. Has your company ever had an agreement defaulted or cancelled during the past 5 years?
        vii. Has your firm ever had a surety bond or contract security cancelled or forfeited?
    b. Corporate Ability to Perform the Work
        i. Outline the firm's current workload. Outline the resources that your company has available to devote to this airport and projects covered under this solicitation.
        ii. Develop and submit a timeline for this specific project.
    c. Project Manager and Team Experience
        i. Include an organization chart with all identified firms and key personnel.

ii. Include resumes of all key personnel who will specifically work on the project.
iii. Indicate the location where Project Management for Authority contracts will be conducted. Detail specialty services that will be performed from other locations and include these locations.
iv. Identify sub-consulting firms, if any.

d. Project Performance
   i. Examples of projects that best illustrate the proposed team's qualifications for this project.
   ii. Describe the firm's approach to project delivery.
   iii. Describe the firm's on-time and in-budget performance on projects.

e. References
   i. Provide three (3) references to include the contact name, company name, and phone number for projects of like size and scope. Reference experience shall have been completed in the last 5 years.
   ii. Detail any previous experience working with other airports or the Federal Aviation Administration.

6. EVALUATION PROCESS

1. The proposals will be evaluated and ranked on the basis of the written material submitted. Evaluation criteria will be related to the following and weighted as shown:

Experience of the Firm - 25%	
• Experience with Similar Type Work	15%
• Experience with Airports and Federal Aviation Administration	5%
• Experience in Securing/Administering Grants	5%
Staff Qualifications and Capabilities (Include Subconsultant Review) - 40%	
• Staff Depth and Capability to Perform the Work	10%
• Qualifications and Experience of Project Manager	15%
• Qualifications and Experience of Key Technical Personnel	15%
Geographic Location of Project Office	20%
Workload/Demonstrated Ability to Meet Deadlines	5%
References	5%
Financial Stability and Viability of the Firm	5%

A short list of firms may be developed and oral presentations requested from the selected companies. Oral presentations will be used in the evaluation process if they are requested.

7. GENERAL CONDITIONS

2.1 The professional services agreement to be executed with the successful architecture firm is enclosed as Exhibit A, to include attachments A, B, and C.

2.2 Request for Proposals are governed and awarded in accordance with the applicable State of Indiana laws and Fort Wayne-Allen County Airport Authority policies.

(a) Content of the proposals submitted by competing persons shall not be disclosed during the process of evaluation and the negotiations.

(b) Proposals shall be open for public inspection only after the award is made.

(c) Allowable proprietary or confidential information in accordance with IC 5-22-9-5, marked as such in each proposal, shall not be disclosed without the written consent of the proposer.

(d) Discussions may be conducted with responsible persons submitting a proposal determined to have a reasonable chance of being selected for the award. These discussions may be held for the purpose of clarification to assure a full understanding of the solicitation requirement and responsiveness thereto.

(e) Revisions may be permitted after submissions and prior to award for the purpose of obtaining the best and final offers.

(f) In conducting discussions with the persons submitting the proposals, there shall be no disclosure of any information derived from the other persons submitting proposals.

2.3 A selection committee shall convene for the purpose of evaluating the proposals. The Selection team will evaluate the responses to the RFP, verify the information presented, and conduct oral interviews, as deemed appropriate. This process will result in the selection of the successful Proposer who, through contractual agreements, will undertake the scope of work.

2.4 Discussions with the Proposers and technical revisions to the proposals may occur. Discussions may be conducted with the responsible Proposers who submit proposals for the purpose of clarification and to assure full understanding of, and conformance to, the solicitation requirements. Proposers shall be accorded fair and equal treatment with respect to any opportunity for discussions and revision of proposals and such revisions may be permitted after submission and prior to award for the purpose of obtaining best and final offers. In conducting discussions, there shall be no disclosure of information derived from proposals submitted by competing Proposers.

2.5 The Committee shall rank the proposals. Award shall be recommended to the most responsible Proposer whose proposal is determined to be the most advantageous to Authority, taking into consideration price and the evaluation factors set forth in the request for proposals.

2.6 All proposals received by the specified deadline will be reviewed by the Selection Committee. After initial screening, the Evaluation Committee may select those Proposers deemed most qualified for this contract opportunity for further evaluation and interviews as part of the final selection process. Proposers are advised that Authority, at its option, may award a contract strictly on the basis of the information contained in the proposals. The Proposer(s) selected by the Selection Committee will be recommended to the Authority Board to enter into a contract, but the Authority Board is not bound to accept the recommendation or award the contract to the recommended Proposer(s). It is Authority's intent to award the contract to the most qualified and responsible Proposer(s) who provides the best overall proposal(s) in Authority's sole discretion.

2.7 The contract shall be awarded with reasonable promptness by appropriate written notice to the highest scored, responsible offer whose proposal is determined in writing to be the most advantageous to the Authority, taking into consideration price and the other evaluation factors set forth in this request for proposals.

2.8 The successful Proposer shall not commence work under this RFP until duly notified by receipt of contract signed as executed by the Chief Executive Officer. If the successful vendor does commence any work prior to receiving an official signed contract, the successful firm does so at their own risk.

2.9 No interpretation of the meaning of the Contract Documents as defined in the General Conditions, nor correction of any apparent ambiguity, inconsistency, or error therein, will be made to Proposers orally. All questions must be submitted in writing by email to jmarana@fwairport.com by May 04, 2025 @ 3:00 P.M. EDT. Proposers are not to contact any employee of Authority, agent, consultant or any Board Member during the Bid/RFP process except as directed above. Failure to comply with this requirement shall be grounds for disqualification of the Proposer. All such interpretations and supplemental instructions will posted via Addendum to the Authority's website at www.fwairport.com, Business, Solicitations & Bidding, no later than five (5) working days prior to the last day for submitting RFPs (Close of Business on May 6, 2026). Arrangements to visit the airport facilities may also be made by e-mail to jmarana@fwairport.com or phone to 260-446-3426.

2.10 Questions discussed with any other officer, agent or employee of Authority will not be considered binding in consideration of this proposal and shall not affect the risks or obligations assumed by the vendor or relieve him from fulfilling any of the conditions of the Contract.

2.11 If an award of contract is made as a result of this solicitation, contract will be made on the basis of the response which best satisfies the intent of this Request for Proposal and other factors considered in the best interest of the Authority. The Authority reserves the right to consider proposals or modification thereof received at any time before the award is made, if such action is in the interest of the Authority.

2.12 The Authority reserves the right to reject any or all statements received as the result of this request. The Authority also maintains the right to negotiate with any firm, as necessary, to serve the best interests of Authority. The Authority will not be liable for any costs incurred by the proposer prior to the signing of a contract.

2.13 The laws of the State of Indiana require that the contents of the contract file, except for information that is classified as proprietary, be made available for public inspection after contract award.

Proprietary information shall be submitted separately and clearly marked in a sealed envelope. The outside of the envelope shall be marked to indicate that it contains materials which are proprietary and are not to be disclosed. Data which may be designated as proprietary are trade secrets, manufacturing processes, and financial information not otherwise publicly available.

Unreasonable requests for confidentiality will not be honored. In addition, each request for confidentiality must be supported by a written explanation of each item declared proprietary and the reason for the request (i.e. why the item is considered a trade secret, a manufacturing process, or financial information not otherwise available).

2.14 All materials and information submitted in response to this RFP become the property of the Authority. Any and all Proposals received by the Authority shall be subject to public disclosure and inspection after contract award. Trade secrets and proprietary information which the supplier desires to remain confidential shall be clearly marked and readily separable from the Proposal in order to facilitate public inspection of the non-confidential portion of the Proposal. An all-inclusive statement that the entire proposal is proprietary is unacceptable. Pricing offered to the Authority may not be considered proprietary.

2.15 The Authority will endeavor to restrict distribution of material designated as confidential or proprietary to only those individuals involved in the review and analysis of the Proposals. Proposers are cautioned, however, that materials designated as confidential may nevertheless be subject to disclosure. Proposers are advised that the Authority does not wish to receive confidential or proprietary information and that Proposers are not to supply such information except when it is absolutely necessary. If any information or materials in any Proposal submitted is labeled confidential or proprietary, the Proposal shall include the following clause:____(legal name of Proposer) shall indemnify, defend and hold harmless the Authority Board, its officers, agents and employees from and against any request, action or proceeding of any nature and any damages or liability of any nature, specifically including attorneys' fees awarded under the Indiana Open Records Act arising out of, concerning or in any wayinvolving any materials or information in this proposal that_(legalname of Proposer) has labeled as confidential, proprietary or otherwise not subject to disclosure as a public record.

2.16 Contractors who will be working, unescorted within the Airport Operation Area (AOA), Security Identification Display Area (SIDA), or Sterile (Passenger Boarding Areas) of the

airport will be required to obtain an airport issued access control media.

All individuals working in these areas will be subject to completing a favorable security background check, including but not limited to a Fingerprint based Criminal History Records Check (CHRC) conducted through the FBI and/or Security Threat Assessment (STA) conducted by the Department of Homeland Security. Also a 45 minute training session may be required. The cost for this access control media is $75.00 and will take between 7-10 working days to complete. Applications are available at the Airport Authority Office or online at www.fwairport.com. This process is completed by the Airport Authority's Public Safety Department 260-747-2624. Identification documents for anyone requesting access control media will be taken from the Department of Homeland Security's "approved documents list." This list can be found on the Airport's website. Any other type of documents will not be accepted.

Escorting privileges may be granted within these secured areas. Escorting will be done with a 5:1 ratio. One (1) badged individual may escort up to five (5) unbadged individuals. These escorted individuals must be under the positive control of their escort at all times. The escort must have communication to the Public Safety Department and report any loss of control immediately, even if that control becomes re-established. Escorting privileges are granted on a case by case basis. Escorting privileges are clearly identifiable on the media once granted. Anyone who will be working under escort in secured areas shall have their names submitted to the Airport Authority on the prime or sub-contractor company's letterhead stating, "the employing company has completed a favorable five (5) year pre-employment history or the listed individuals have favorably worked for the contractor for five (5) years."

Driving privileges on the AOA will require additional training and testing. This information can be found on the Airport's website. In addition to the testing, a practical ride along with a trained airfield driver is also required to be completed. Airfield driving privileges will be considered on a case by case basis. Airfield driving privileges are also clearly identifiable on the media itself once granted.

Lost badge fees will be applied as necessary in accordance with the Airport's Rates and Charges.

Airport issued media must be displayed on the outside of any garment above the waist at all times when working in these areas.

All safety and security measures are subject to change without notice and may require immediate action by the contractor at any time.

The Contractor assures that no action by his operations will cause or create a security/safety violation of the following:

- Airport Certification Manual
- Transportation Security Administration Regulations Part 1542 -Airport Security

- FAR Part 139 - Certification and Operations - Land airports serving Certificated Air Carriers
- Indiana State and Local Laws or Fort Wayne-Allen County Airport Authority Ordinances

Copies of these regulations and manuals are available at the owner's office upon request.

10. TERMS AND CONDITIONS OF CONTRACT

10.1 Upon conclusion of the RFP process, the Authority will make a recommendation to the Airport Board regarding the selection based upon the evaluation of the Proposals. The Authority shall enter into a contract negotiation with the awarded Proposer(s). The Proposer(s) shall enter into a contract in substantial conformity with the selected Proposal and contain Authority's required contract terms and conditions (Exhibit A). If contract negotiations result in an impasse, the Authority will begin negotiations with the second ranking firm.

10.2 All agreements will require the Proposer to adhere to the terms of its proposal and to act in accordance with all applicable laws and regulations.

10.3 The contract shall not be binding or valid with Authority unless and until it is executed by authorized representatives of Authority.

10.4 The finalized Contract shall include all applicable contract clauses as required by and provided for by the Authority and State of Indiana.

STANDARD PROFESSIONAL SERVICES AGREEMENT
ARCHITECTURAL SERVICES
(Name of Firm)

THIS AGREEMENT made by and between the FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY (the "Owner") or ("the FWACAA") and _____ (the "Architect");

WHEREAS, the Owner desires to secure Architectural services required for the project(s) described by Addendums, attached hereto and made a part hereof; and,

WHEREAS, the Owner, based on a review of proposals submitted by interested Architectural firms, has selected the Architect to perform those services required for the project(s) described by Addendum; and,

WHEREAS, the Architect desires to perform all the necessary professional services in connection with these Projects,

NOW, THEREFORE, in consideration of the mutual covenants and agreements contained herein, the Owner and the Architect agree as follows:

ARTICLE I. PROJECT.

(a) The Owner agrees to employ, and does hereby employ and engage the Architect, pursuant to the terms and conditions in this Agreement, to perform for the Owner all necessary professional services incident to the Project(s), the scope of which detailed services and fees are specifically and separately set out by Addendums which are attached hereto and made a part hereof (the "Project(s)").

ARTICLE II. OWNER'S RESPONSIBILITIES.

The Owner further agrees as follows:

(a) To give the Architect such information as is pertinent to the Project;

(b) To provide access to the real estate and/or facilities of the Owner as required by the Architect, subject to reasonable notice and airport rules and regulations;

(c) To review all studies, reports, sketches, estimates, drawings, specifications, proposals, and other documents presented by the Architect to the Owner, and to timely respond, in writing, to the documentation submitted for review so as not to delay the work of the Architect;

(d) To advertise for proposals relative to construction contracts, if applicable, and to open the proposals solicited at the appointed time and place, and to pay all costs incident thereto;

(e) Designate, in writing, that person who will act as Owner's representative with respect to the work to be performed by the Architect pursuant to this Agreement;

(f) To give prompt, written notice to the Architect whenever the Owner observes or otherwise becomes aware of any deviations from the scope of the Project;

(g) To obtain any necessary approvals or consents from those individuals, entities, authorities, or agencies having jurisdiction over or being necessary for completion of the Project; PROVIDED, HOWEVER, that the Architect shall identify and advise the Owner, in writing, as to those individuals, entities, authorities, and agencies whose approval or consent may be required in order to complete the Project.

ARTICLE III. ARCHITECT'S RESPONSIBILITIES.

(a) Pursuant to the scope of work identified by Addendum(s) the Architect shall:

1. Prepare such drawings, plans, studies, reports, sketches, estimates, specifications, proposals, and other documentation as is necessary to satisfactorily complete the Project.

2. Attend such Board meetings, conferences, or other meetings with or on behalf of the Owner and other individuals, entities, authorities, or agencies as may be required, in the

judgment of the Owner, by the Project;

3. Prepare and furnish such documentation, as is required by the terms of the Project(s) scope of services, including, but not limited to, all necessary plans and specifications, in accordance with public construction bid requirements, to be provided to bidders and contractors, reports, estimates, and technical papers. All specifications shall be on Windows Microsoft Word (current version). Architect shall be capable of providing On Line services for the electronic transfer of Architecting documents between the Architects project office and place of business. The Architect shall provide sets of that documentation required for the Project for the Owner, and shall deliver to the Owner, upon completion of the Project, in addition to any documentation specified in the Project(s), all "As Builts," and/or record drawings for the Project. In addition, the Architect shall provide "As Builts" in electronic form on PDF format.

Original documents, such as tracings, plans, specifications, maps, basic survey notes and sketches, charts, computations, and other data prepared or obtained under the terms of the contract, are instruments of service and generally will remain the property of the Architect unless otherwise agreed to by both parties or covered under an Addendum. Reproducible copies of drawings and copies of other pertinent data will be made available to the Owner upon request.

4. Comply with all laws, orders, and regulations of any governmental authority relating to its work on the Project for the Owner, including, but not limited to, the rules and regulations adopted by the Owner and all rules and regulations of the Federal Aviation Administration (and specifically, without limitation, TSA Regulations Parts 1542 and FAA 139). Any violation by the Architect, its employees, suppliers, guests, business invitees, or agents of any rule or regulation which results in the assessment of a fine against the Owner by any authority or agency shall be paid by the Architect to the Owner in an amount equal to the penalty assessed;

5. Provide all vehicles and equipment as may be required by the Architect for work in or around the Fort Wayne International Airport, including, but not limited to, ground control radios.

(b) Attachment A and B contains a certification which must be completed and submitted by the Architect along with this contract.

ARTICLE IV. TERMINATION FOR CONVENIENCE

The Owner may, by written notice to the Architect, terminate this Agreement for its convenience and without cause or default on the part of Architect. Upon receipt of the notice of termination, except as explicitly directed by the Owner, the Architect must immediately discontinue all services affected.

Upon termination of the Agreement, the Architect must deliver to the Owner all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by the Architect under this contract, whether complete or partially complete.

Owner agrees to make just and equitable compensation to the Architect for satisfactory work completed up through the date the Architect receives the termination notice. Compensation will not include anticipated profit on non-performed services.

Owner further agrees to hold Architect harmless, to the extent permitted by Indiana law, for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

ARTICLE V. TERMINATION FOR DEFAULT

Either party may terminate this Agreement for cause if the other party fails to fulfill its obligations that are essential to the completion of the work per the terms and conditions of the

Agreement. The party initiating the termination action must allow the breaching party an opportunity to dispute or cure the breach.

The terminating party must provide the breaching party [7] days advance written notice of its intent to terminate the Agreement. The notice must specify the nature and extent of the breach, the conditions necessary to cure the breach, and the effective date of the termination action. The rights and remedies in this clause are in addition to any other rights and remedies provided by law or under this agreement.

a) **Termination by Owner**: The Owner may terminate this Agreement in whole or in part, for the failure of the Architect to:

1. Perform the services within the time specified in this contract or by Owner approved extension;
2. Make adequate progress so as to endanger satisfactory performance of the Project; or
3. Fulfill the obligations of the Agreement that are essential to the completion of the Project.

Upon receipt of the notice of termination, the Architect must immediately discontinue all services affected unless the notice directs otherwise. Upon termination of the Agreement, the Architect must deliver to the Owner all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by the Architect under this contract, whether complete or partially complete.

Owner agrees to make just and equitable compensation to the Architect for satisfactory work completed up through the date the Architect receives the termination notice. Compensation will not include anticipated profit on non-performed services.

Owner further agrees to hold Architect harmless, to the extent permitted by Indiana law, for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

If, after finalization of the termination action, the Owner determines the Architect was not in default of the Agreement, the rights and obligations of the parties shall be the same as if the Owner issued the termination for the convenience of the Owner.

b) **Termination by Architect**: The Architect may terminate this Agreement in whole or in part, if the Owner:

1. Defaults on its obligations under this Agreement;
2. Fails to make payment to the Architect in accordance with the terms of this Agreement;
3. Suspends the Project for more than [180] days due to reasons beyond the control of the Architect.

Upon receipt of a notice of termination from the Architect, Owner agrees to cooperate with Architect for the purpose of terminating the agreement or portion thereof, by mutual consent. If Owner and Architect cannot reach mutual agreement on the termination settlement, the Architect may, without prejudice to any rights and remedies it may have, proceed with terminating all or parts of this Agreement based upon the Owner's breach of the contract.

In the event of termination due to Owner breach, the Architect is entitled to invoice Owner and to receive full payment for all services performed or furnished in accordance with this Agreement and all justified reimbursable expenses incurred by the Architect through the effective date of termination action. Owner agrees to hold Architect harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

ARTICLE VI. ARCHITECT'S COMPENSATION.

(a) The Owner, for and in consideration of the rendering of Architect's services on the Project agrees to compensate the Architect, in accordance with the provisions set out by Addendum, attached hereto and made a part hereof. All hourly rates, overhead factor, and project profit factor must

be separately itemized in addition to a detailed breakdown for the labor hours to be utilized for each classification listed. The Architect may submit, no more frequently than monthly, an itemized claim detailing services performed in the format outlined in the Addendum. Such claim, shall not exceed the compensation detailed in the Addendum unless a written change order has been approved and signed. To the extent that the itemized claim submitted to Owner represents charges incurred by the Architect from subcontracting firms, testing companies, or otherwise the Architect shall certify in a manner satisfactory to the Owner that such claims shall be paid by the Architect in a timely manner.

(b) Architect shall be reimbursed for out-of-pocket expenditures, including, but not limited to, the cost of all fees paid to governmental authorities or agencies, reproduction of contract documents and such travel and subsistence expenses per project Addendum.

ARTICLE VII. INDEMNIFICATION AND INSURANCE

(a) Indemnification

Architect shall indemnify, and hold harmless FWACAA, and its members, Directors, Officers, Board, and employees from and against claims, direct damages, penalties, actions and all expenses, including reasonable attorneys' fees to the extent caused by the negligent acts, errors or omissions by the Architect or its officers or employees , including, but not limited to, claims for damages as a result of the injury to or death of any person or persons, or damages to any property which arises as a result of any negligent act or omission on the part of Architect or its officers, employees or agents; provided, however, that Architect shall not be required to indemnify FWACAA for any injury or damage or loss occasioned by the sole fault or negligence of FWACAA or its Directors, Officers, Board, agents, members, servants and employees. Notwithstanding the above, the Architect shall have no upfront duty to defend FWACAA but it is understood that FWACAA reasonable legal cost will be included in determination of damages as a result of Architect negligence. Architect shall not be liable for any loss due to terrorism.

(b) Each provision of this agreement which contains an indemnification obligation is hereby amended to limit such indemnification obligation so as not to exceed the amount and/or extent of such obligations permitted by applicable law including the limitations provided by Indiana Code § 26-2-5-1, as applicable.

(c) Insurance Required

Throughout the term of this Agreement, Architect, for itself and its officers, representatives, agents, employees, guests, patrons, subArchitects, licensees, invitees, and suppliers shall maintain in full force and effect the forms of insurance specified in Attachment C.

In the event the Architect does not have the required certificate(s) of insurance or binder(s) evidencing the proper insurance coverage, or the required insurance coverage lapses, this Agreement shall immediately be terminated at FWACAA's option upon FWACAA providing the Architect ten (10) days prior written notice.

Article VII. ENVIRONMENTAL LAWS

(a) Compliance

Architect, at its own expense, shall ensure that Architect and Architect's officers, representatives, agents, employees, guests, patrons, subArchitects, licensees, invitees, and suppliers that come in contact with the Project comply with all present known Environmental Laws, and any amendments thereto, affecting operations on the project. Architect shall not knowingly cause any substance designated by the United States Environmental Protection Agency as an "Extremely Hazardous Substance" or "Toxic Chemical" to be used, generated, manufactured, produced, stored, brought upon, or released, on, under or about the project, or transported to and from the Project. Architect shall promptly notify Owner of any known action or condition that is contrary to any prohibition in the previous sentence. "Environmental Laws" means laws, rules, regulations, ordinances, and airport

guidance documents, directives, policies (whether enacted by any local, state or federal governmental authority, or by Owner) now in effect that deal with the regulation or protection of the environment (including the ambient air, ground water, surface water and land, including subsurface land and soil), or with the generation, handling, storage, disposal or use of chemicals or substances that could be detrimental to human health, the workplace, the public welfare, or the environment that are applicable to the Project. "Release" means any releasing, disposing, discharging, injecting, spilling, leaking, leaching, pumping, dumping, emitting, escaping, emptying, seeping, dispersal, migration, transporting, placing, and actions of similar nature, including without limitation, the moving of any material through, into or upon any land, soil, surface water, ground water, or air, or otherwise entering into the environment.

(b) Indemnity

Architect shall indemnify, and hold harmless Owner, its employees, Directors, Officers, Board, from and against liability, loss, direct damages, reasonable expenses, penalties and costs to the extent caused from or related to a claim or action for injury, liability, breach of representation, or damage to persons or property and claims or actions brought by any party or governmental authority of any kind, directly caused by the Architect's contamination of, or adverse effects on the environment caused by Architect's work on this Project. This obligation includes but is not limited to reasonable costs and expenses related to investigation and/or cleaning up the all land, soil and underground or surface water as required under law. Architect's obligations and liabilities under this paragraph shall continue during the performance of the Project. This indemnification of Owner by Architect includes reasonable costs incurred in connection with any investigation of site conditions or any cleanup, remedial, removal or restoration work required by any federal, state or local governmental agency or political subdivision because of Hazardous Material located on the Project or present in the soil or ground water on, under, or about the Project directly caused by the Architect. The parties agree that Owner's right to enforce Architect's

promise to indemnify is not an adequate remedy at law for Architect's violation of any provision of this paragraph; Owner shall have all the rights and remedies set forth in this Agreement as well as all other rights and remedies provided by law.

ARTICLE VII. GENERAL CIVIL RIGHTS PROVISIONS

The Architect agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision binds the Architect and sub-tier contractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

ARTICLE IX. Compliance with Nondiscrimination Requirements

During the performance of this contract, the Architect, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The Contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Acts and Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Nondiscrimination:** The Contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, national origin, creed, sex, age, or disability in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21

including amendments thereto.

3. **Solicitations for Subcontracts, including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the Contractor of the contractor's obligations under this contract and the Nondiscrimination Acts and Authorities on the grounds of race, color, or national origin.
4. **Information and Reports:** The Contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts and Authorities and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the Sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a Contractor's noncompliance with the non-discrimination provisions of this contract, the Sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:
    a. Withholding payments to the Contractor under the contract until the Contractor complies; and/or
    b. Cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The Contractor will include the provisions of paragraphs one through

six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations, and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the Sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the Sponsor to enter into any litigation to protect the interests of the Sponsor. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.

Title VI List of Pertinent Nondiscrimination Acts and Authorities

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252) (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR Part 21 (Non-discrimination in Federally-Assisted programs of the Department of Transportation—Effectuation of Title VI of the Civil Rights Act of 1964) including amendments thereto;
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601) (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);

- Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. § 794 et seq.), as amended (prohibits discrimination on the basis of disability); and 49 CFR part 27 (Nondiscrimination on the Basis of Disability in Programs or Activities Receiving Federal Financial Assistance);
- The Age Discrimination Act of 1975, as amended (42 .U.S.C. § 6101 et seq.) (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982 (49 U.S.C. § 47123), as amended (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987 (P.L. 100-259) (broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990 (42 U.S.C. § 12101, et seq) (prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities) as implemented by U.S. Department of Transportation regulations at 49 CFR Parts 37 and 38;
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. § 1681, et seq).

ARTICLE X. SUCCESSORS AND ASSIGNS.

The Owner and the Architect each binds himself, his partners, successors, assigns, and legal representatives to the other party to this Agreement, and to the partners, successors, assigns, and legal representatives of such other party in respect of all covenants of this Agreement. Neither the Owner

nor the Architect shall assign or transfer his interest in this Agreement without the written consent of the other; notwithstanding the foregoing, Architect shall have complete authority and responsibility for all subcontractors that Architect, in its sole discretion, deems necessary to complete the Project without consent of Owner.

ARTICLE XI.

This contract shall be effective upon execution and shall run through completion of the services as defined in the scope of work.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement this _____day of _____, 2026.

FORT WAYNE-ALLEN COUNTY
AIRPORT AUTHORITY

BY:_____ BY: _____
Scott D. Hinderman, A.A.E.

ITS:_____ ITS: Chief Executive Officer

ATTACHMENT A

CERTIFICATION OF ARCHITECT

I hereby certify that I am the Architect and duly authorized representative of the firm ___ _____, whose address is _____ _____, and that neither I nor the above firm I here represent has:

(a) Employed or retained for a commission, percentage, brokerage, contingent fee, or other consideration, any firm or person (other than a bona fide employee working solely for me or the above Architect) to solicit or secure this Contract,

(b) Agreed, as an express or implied condition for obtaining this Contract, to employ or retain the services of any firm or person in connection with carrying out the Contract, or

(c) Paid or agreed to pay to any firm, organization, or person (other than a bona fide employee working solely for me or the above Architect) any fee, contribution, donation, or consideration of any kind for, or in connection with, procuring or carrying out the Contract; except as here expressly stated (if any):

_____ _____

(Date) (Signature)

Attachment B

INDIANA LEGAL EMPLOYMENT DECLARATION

The State of Indiana has enacted a law (I.C. 22-5-1.7) requiring the Fort Wayne-Allen County Airport Authority to require the following before renewing or entering into contracts for services:

This Declaration serves as notice that all Contractors performing services must, as a term of their contract:

1. Enroll in and verify the work eligibility status of newly hired employees of the contractor through the E-Verify programs (but is not required to do this if the E-Verify program no longer exists); and
2. Verify, by signature below, that the Contractor does not knowingly employ unauthorized aliens.

By signing below, this affidavit becomes a part of and is incorporated into any contract for services that your firm currently has with the Fort Wayne-Allen County Airport Authority.

I, _____, a duly authorized agent of _____(name of Company), declare under penalties of perjury that _____(name of Company) does not employ unauthorized aliens to the best of its knowledge and belief.

_____
(Name of Company)
By: _____
(Authorized Representative of Company)

Subscribed and sworn to before me on this _____day of _____, 20___.

My Commission Expires: _____

County of Residence: _____

_____
Notary Public – Signature

_____
Notary Public – Printed Name

PLEASE SEE https://e-verify.uscis.gov/enroll/StartPage.aspx?JS=YES **FOR INSTRUCTIONS AND ELECTRONIC REGISTRATION FOR E-VERIFY.**

Attachment C

INSURANCE REQUIREMENTS

Without limiting Architect's indemnification, Architect shall procure and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the Agreement by the Architect, its agents, representatives or employees.

I. INSURANCE REQUIRED

At all times during the Term of this Agreement (except as otherwise provided), Architect shall obtain and maintain in full force and effect, with a company or Companies authorized to transact the business of insurance in the State of Indiana, of sound and adequate financial responsibility, with a rating of at least A-, VII, from A.M. Best Co., in Best's Rating Guide, selected by Company and reasonably acceptable to FWACAA, the following insurance (either as part of any other policy or policies carried by Company, or separately):

A. Commercial General Liability Insurance-

A commercial insurance policy or policies covering liability arising from premises, operations, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under and insured contract (including the tort liability of another assumed in a business contract) with the following limits:

Per Occurrence	$1,000,000
General Aggregate (subject to a per project general aggregate provision)	$2,000,000
Products/Completed Operations Aggregate	$2,000,000
Personal and General Advertising Injury	$1,000,000

B. Commercial Auto Liability Insurance-$1,000,000 per Accident combined single limit coverage for bodily injury or property damage

C. Workers Compensation Insurance-

(1) Workers compensation coverage and limits as statutorily required by the state of Indiana and all other applicable states of operation.

(2) Employers Liability limits of at least $1,000,000 per accident and $1,000,000 for each disease.

D. Excess Liability-$5,000,000 in excess liability or Umbrella liability covering underlying policies for Commercial General Liability, Business Auto, and Employers Liability. Policy shall be following form of underlying policies.

E. Professional Liability Insurance-$1,000,000 to cover all professional services provided by the Architect for this project.

II. CERTIFICATES

Upon or prior to the commencement of the Term of this Agreement and at least annually thereafter Architect shall furnish to FWACAA certificates of insurance showing to FWACAA's satisfaction the amount and type of the insurance then in effect that is required to be procured and maintained by it hereunder and stating the date and term of the policies. Certificates evidencing any renewal, replacement or extension of any or all of the insurance required hereunder, shall be delivered by Architect to FWACAA not less than thirty (30) days prior to the expiration of any policy of insurance renewed, replaced or extended by the insurance represented by any such certificate.

III. ADDITIONAL INSUREDS

All commercial general and automobile liability required by this Article shall be procured and maintained in the name of Architect and shall add FWACAA, its Directors, Officers, Board, members, and employees as additional insureds as their interests appear for liabilities arising out of conduct of the

Architect. All policies required under this Article for property shall provide for payments of the losses to Architect and FWACAA as their respective interests may appear.

IV. PRIMARY AND NON-CONTRIBUTORY INSURANCE

All insurance policies required to be procured and maintained by Architect, with the exception of Workers Compensation and Employers Liability shall provide or be endorsed to provide:

A. Architect's insurance coverage shall be primary insurance with respect to FWACAA, its Directors, Officers, Board, members, and employees. Any insurance or self-insurance maintained by FWACAA is excess of and noncontributing with Architect's insurance.

B. Architect's insurance coverage shall state that Architect's insurance shall apply separately to each insured except with respect to the limits of the liability and shall contain no cross-liability exclusions.

V. WAIVER OF SUBROGATION

Each party hereto waives all claims for recovery from the other party for any loss or damage to any of its property on or about the Premises insured under valid and collectible insurance policies to the extent of any recovery collected from such policies. All policies required under this Article shall provide or be endorsed to provide that the insurer agrees to waive all rights of subrogation against FWACAA, its Directors, Officers, Board, members, and employees .

New Corporate Hangar
Fort Wayne Allen County Airport Authority

11408 West Perimeter Road Fort Wayne, IN 46809

Design Team

ARCHITECTURAL

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

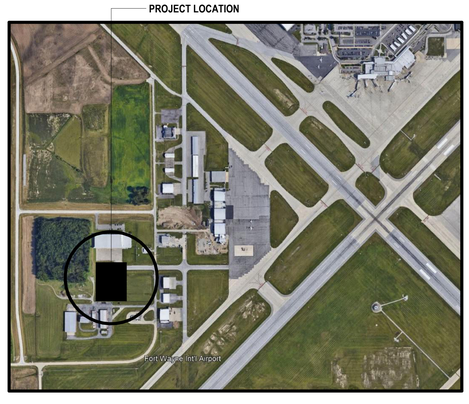
DESIGN BUILDER

The Hagerman Group
510 W Washington Blvd,
Fort Wayne, IN 46802
260 424-1470

CIVIL AND STRUCTURAL

Engineering Resources, Inc.
4175 New Vision Drive,
Fort Wayne, IN 46845
260 490-1025

PROJECT LOCATION



Location Map
Not To Scale

SHEET INDEX

Sheet Number	Sheet Name
GENERAL	
G-001	Cover Sheet
G-101	Life Safety Plan - First Floor
CIVIL	
C1.0	Site Demolition Plan
C2.0	Site Layout Plan
C3.0	Site Grading Plan
C4.0	Site Utility Plan
C6.0	Site Details
STRUCTURAL	
S-001	Structural Notes
S-101	Foundation Plan
S-102	Foundation Details
ARCHITECTURAL	
A-001	Architectural Information Sheet
A-002	Partition Diagrams
A-100	Overall Floor Plan - First Floor
A-121	Reflected Ceiling Plan - First Floor

SHEET INDEX

Sheet Number	Sheet Name
A-131	Architectural Roof Plan
A-201	Building Elevations
A-202	Building Elevations
A-211	Interior Elevations
A-301	Building Sections
A-311	Wall Sections
A-601	Architectural Schedules & Diagrams
FIRE PROTECTION	
FP-100	Fire Suppression Layout
PLUMBING	
P-100	First Floor Plumbing Plans
P-200	Plumbing Fixture Schedule, Isometric and Details
MECHANICAL	
M-100	Overall Floor Plan - First Floor
ELECTRICAL	
E-100	Electrical Schedules & Details
E-101	First Floor Power & Systems Plans
E-102	First Floor Lighting Plans

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

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E2 ARCHITECTS, LLC dba ELEVATUS ARCHITECTURE

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SEAL

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority
11408 West Perimeter Road Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO.
2301700

ISSUE DATE
04-26-2023

SUBMITTAL
100% CD

Cover Sheet

G-001

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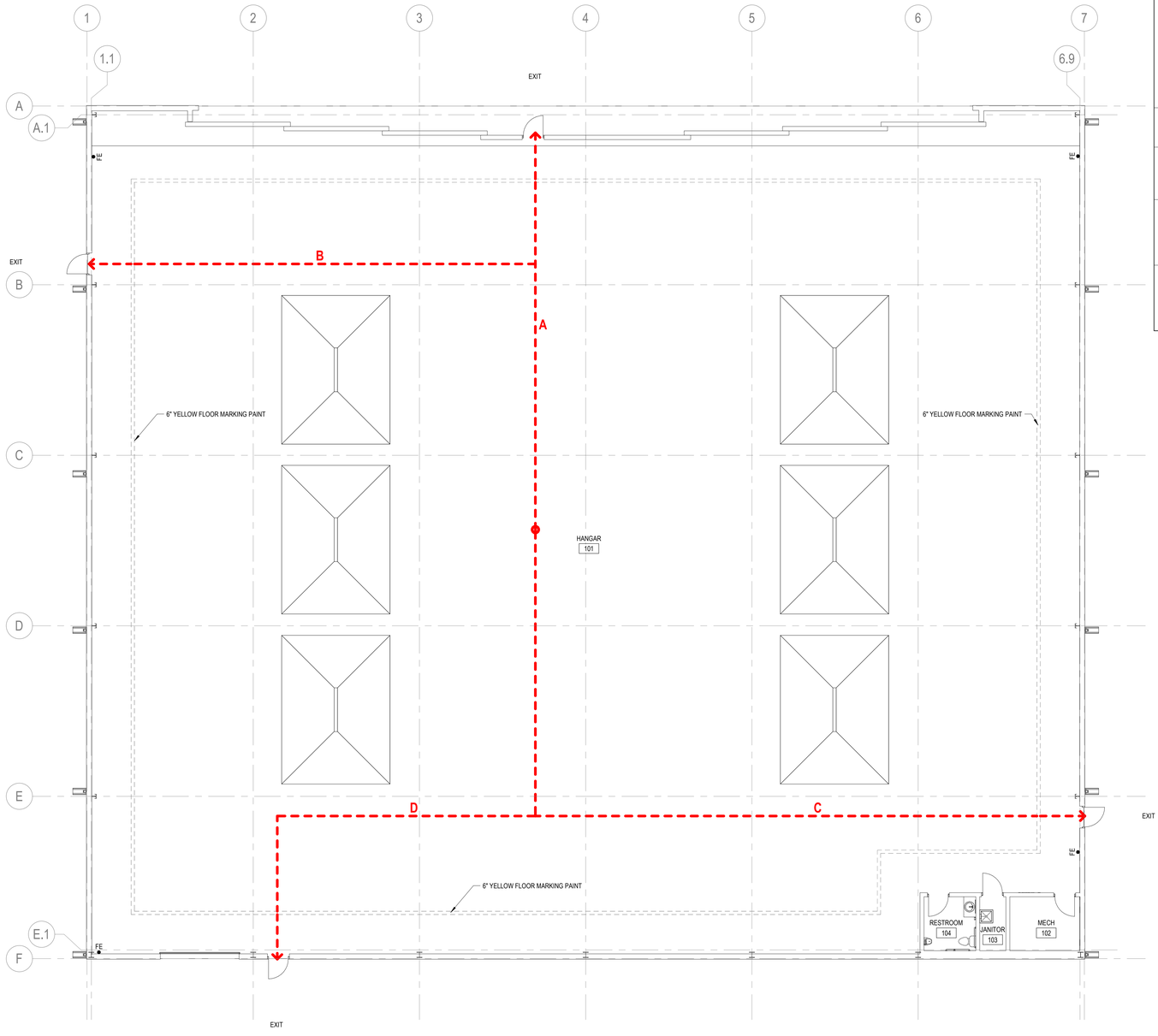

PLAN NORTH

1 First Floor Life Safety Plan
1/8" = 1'-0"

LIFE SAFETY LEGEND

SYMBOL	DESCRIPTION
ROOM CAPACITY TAGS	
ROOM NAME 1500 SF 300 SF 1000	NET OR GROSS SQUARE FOOTAGE PER OCCUPANCY REQUIREMENT ROOM OCCUPANT CAPACITY OCCUPANT LOAD FACTOR (SF PER PERSON)
DOOR CAPACITY TAGS	
340 102 340	EGRESS LOAD EGRESS CAPACITY
340 102 340	ARROW INDICATES DIRECTION OF TRAVEL
STAIR CAPACITY TAG	
1910 102 1911	EGRESS LOAD EGRESS CAPACITY
	SMOKE SEPARATION
	1-HOUR FIRE SEPARATION
	1-HOUR FIRE/SMOKE SEPARATION
	2-HOUR FIRE SEPARATION
	2-HOUR FIRE/SMOKE SEPARATION
	3-HOUR FIRE SEPARATION
	4-HOUR FIRE SEPARATION
	2 HR FLOOR RATING: IBC 722.2.2.1
	CEILING CAP TO RESIST THE PASSAGE OF SMOKE
	1 HR RATED CEILING: UL No. U469 1 HR RATED FLOOR: IBC 722.2.2.1
A	TRAVEL PATH ID MAX. TRAVEL DISTANCE PATH
FE	BRACKET MOUNTED FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER IN CABINET
	EXIT SIGN
	LOCK BOX - EXACT LOCATION TO BE COORDINATED WITH LOCAL FIRE DEPARTMENT. TIE TO FIRE ALARM & SET TO SEND TROUBLE CODE IF TAMPERED WITH.

NOTES:

1. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF FIRE AND SMOKE DAMPERS.
2. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF EMERGENCY LIGHTING.
3. REFER TO SYSTEM DRAWINGS FOR LOCATION OF HEAT AND SMOKE DETECTORS.
4. PROVIDE OCCUPANCY LOAD SIGNS PER IBC 1004.3.

TRAVEL DISTANCE SCHEDULE

Path ID	Path Length
A	60' - 6"
B	108' - 6"
C	127' - 5"
D	104' - 10"

CONSTRUCTION CODE INFORMATION

THE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FOLLOWING CODES, NOTIFY THE ARCHITECT OF ANY CONFLICTS

PROJECT SUMMARY

PROJECT SUMMARY: MULTI AIRCRAFT HANGAR

APPLICABLE CODES

GENERAL	INDIANA ADMINISTRATIVE CODE, 675-IAC (ARTICLE 12 ADMINISTRATION)
BUILDING	INDIANA BUILDING CODE, 2014 EDITION (AMENDED IBC 2012, 1ST PRINTING)
SPRINKLER SYSTEM	NFPA 13 (DRY)
ACCESSIBILITY	ANSI 117.1, 2009 EDITION
ENERGY CODE	INDIANA ENERGY CONSERVATION CODE, 2010 EDITION (AMENDED ASHRAE 90.1, 2007)
ELEVATOR	NOT APPLICABLE
FIRE PROTECTION	INDIANA FIRE CODE, 2014 EDITION (AMENDED IFC 2012, 1ST PRINTING)
PLUMBING	INDIANA PLUMBING CODE, 2012 EDITION (AMENDED IPC 2006)
MECHANICAL	INDIANA MECHANICAL CODE, 2014 EDITION (AMENDED IMC 2012, 1ST PRINTING)
ELECTRICAL	INDIANA ELECTRICAL CODE, 2009 EDITION (NFPA 70-2008)
HEALTH DEPARTMENT	NOT APPLICABLE

OCCUPANCY CLASSIFICATION

PRIMARY	AIRCRAFT - RELATED OCCUPANCIES (SECT 412) GROUP II HANGAR
SECONDARY	NOT APPLICABLE
OCCUPANCY SEPARATION - PER TABLE 508.4	NOT APPLICABLE
DESIGN CONTROL	NOT APPLICABLE

OCCUPANT LOAD

FLOOR AREA PER OCCUPANT TABLE 1004.1.2	ACCESSORY STORAGE / MECHANICAL:	300 GROSS/OCC
DESIGN OCCUPANT LOAD	FIRST FLOOR: SECOND FLOOR: **TOTAL BUILDING:**	67 OCCUPANTS N/A OCCUPANTS **67 OCCUPANTS**
ACTUAL OCCUPANT LOAD	LESS THAN 30; VARIES UPON USAGE	

BUILDING HEIGHT / NUMBER OF STORIES / FLOOR AREA (S-1) (GROUP III HANGAR)

BUILDING HEIGHT & STORIES

	ALLOWABLE	ACTUAL
BUILDING HEIGHT (MEASURED) - PER TABLE 503	55' - 0"	40' - 3"
BUILDING HEIGHT (STORIES) - PER TABLE 503	3 STORIES	1 STORY

BUILDING AREA

ALLOWABLE	
TABULAR AREA - PER TABLE 503	17,500 SF
AREA INCREASE - PER SECTION 506.2	52,500 SF
AREA INCREASE - PER SECTION 506.3	##,### SF
ADJUSTED ALLOWABLE AREA / FLOOR	70,000 SF / FLOOR
ACTUAL	
FIRST FLOOR	19,807 SF
SECOND FLOOR	0 SF
TOTAL ACTUAL AREA	19,807 SF

CONSTRUCTION CLASSIFICATION

CONSTRUCTION TYPE - PER SECTION 602	TYPE IIB CONSTRUCTION

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

PRIMARY STRUCTURAL FRAME - PER TABLE 601	0 HR
BEARING WALL (EXTERIOR) - PER TABLE 601	0 HR
BEARING WALLS (INTERIOR) - PER TABLE 601	0 HR
NON-BEARING WALLS (EXTERIOR) - PER TABLE 602	0 HR
NON-BEARING WALLS (INTERIOR) - PER TABLE 601	0 HR
FLOOR CONSTRUCTION - PER TABLE 601	0 HR
ROOF CONSTRUCTION - PER TABLE 601	0 HR

FIRE-PROTECTION SYSTEMS

AUTOMATIC SPRINKLER SYSTEM	FULLY-SPRINKLED

EGRESS

BUILDING EXITING

REQUIRED	REQUIREMENT	ACTUAL
STAIR EGRESS WIDTH - PER SECTION 1005	NOT APPLICABLE	NOT APPLICABLE
OTHER EGRESS WIDTH - PER SECTION 1005	NOT APPLICABLE	NOT APPLICABLE
COMMON PATH OF TRAVEL - PER TABLE 1014.3	NOT APPLICABLE	REFER TO SCHEDULE
TRAVEL DISTANCE - PER SECTION 1016	250' - 0" (MAX. WITH SPRINKLER)	REFER TO SCHEDULE
CORRIDOR FIRE-RESISTANCE - PER TABLE 1018.1	NOT APPLICABLE	NOT APPLICABLE
MINIMUM CORRIDOR WIDTH - PER TABLE 1018.2	NOT APPLICABLE	NOT APPLICABLE
DEAD END CORRIDOR - PER SECTION 1018.4	NOT APPLICABLE	NOT APPLICABLE
NUMBER OF EXITS - PER SECTION 1021	2 EXITS (x > 1,000 OCCUPANTS)	4 EXITS

SPECIAL CONSIDERATIONS

POSTING OF OCCUPANT LOAD	REFER TO SECTION 1004 - OCCUPANT LOAD FOR REQUIRED POSTINGS

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REGISTERED
No. AR10100148
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ARCHITECT

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority
11408 West Perimeter Road Fort Wayne, IN 46809

REVISIONS

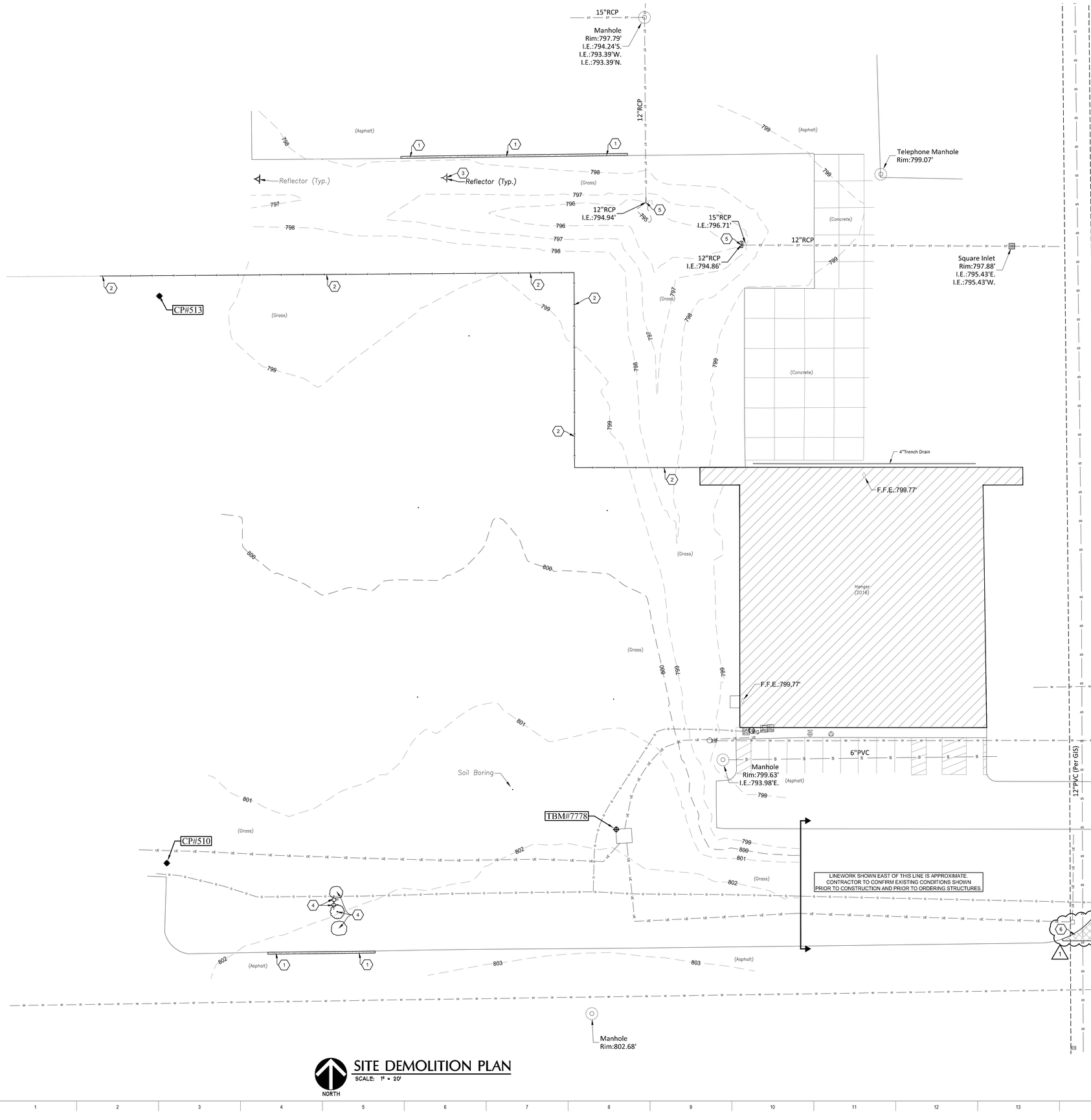
NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 04-26-2023
SUBMITTAL 100% CD

Life Safety Plan - First Floor

G-101

12/12/2023 6:39:17 AM
Autodesk Docs://Ref1-Corporate Hangar/G101700 FWA Corporate Hangar.rvt



SITE DEMOLITION PLAN

SCALE: 1" = 20'

NORTH

DEMOLITION LEGEND:

SAWCUT AND REMOVE ASPHALT PAVEMENT.

DEMOLITION NOTES:

1. SAWCUT AND REMOVE 12" MIN. OF ASPHALT PAVEMENT TO PROVIDE CLEAN EDGE.
2. REMOVE CHAIN-LINK FENCE.
3. REMOVE AND RELOCATE REFLECTOR COORDINATE NEW LOCATION WITH OWNER.
4. REMOVE LANDSCAPE BED AND ALL CONTENTS INCLUDING TREE AND ROOT BALL. NOTIFY FWA MAINTENANCE TWO (2) BUSINESS DAYS PRIOR TO WORK.
5. REMOVE END SECTION AND STORM LINE AS NECESSARY TO INSTALL NEW STORM STRUCTURE.
6. SAWCUT AND REMOVE ASPHALT PAVEMENT AS NECESSARY FOR PROPOSED SANITARY SEWER CONSTRUCTION.

NOTE: CONTRACTOR TO NOTIFY FWA MAINTENANCE DEPARTMENT TWO (2) BUSINESS DAYS PRIOR TO ANY DEMOLITION WORK TO GIVE FWA TIME TO SALVAGE ANY DESIRABLE ITEMS.

GENERAL NOTES:

1. OBTAIN ALL REQUIRED PERMITS AND COORDINATE INSPECTIONS FROM AUTHORITIES HAVING JURISDICTION.
2. CONTRACTOR SHALL NOT INTERRUPT ANY SERVICE TO ADJACENT PROPERTIES WITHOUT WRITTEN AUTHORIZATION FROM PROPERTY OWNER. AN EMERGENCY PLAN SHALL BE PROVIDED TO THE ENGINEER PRIOR TO CONSTRUCTION TO OUTLINE CORRECTIVE MEASURES IN THE EVENT OF ANY UNAUTHORIZED UTILITY SHUTDOWN.
3. CONTRACTOR SHALL STUDY ALL DRAWINGS PRIOR TO CONSTRUCTION. RESEARCH PUBLIC UTILITY RECORDS, CONTACT THE LOCAL UTILITY LOCATOR SERVICE, AND FIELD VERIFY ALL EXISTING STRUCTURES PRIOR TO CONSTRUCTION. CONTACT ENGINEER FOR DIRECTION IF EXISTING UTILITY CONDITIONS CONFLICT WITH PROPOSED WORK, OR ANY ALTERATIONS SHALL BE THE CONTRACTORS RESPONSIBILITY.
4. EXISTING UTILITIES ARE APPROXIMATIONS BASED ON BEST AVAILABLE DATA. CAUTION SHALL BE EXERCISED TO NOT INTERRUPT SERVICE TO ANY BUILDING. EXPLORATORY TRENCH TO VERIFY DEPTH AND LOCATION OF SEWERS PRIOR TO CONSTRUCTION OF NEW SEWER UTILITIES. ASSURE ALL SANITARY FLOW IS DIRECTED INTO THE SANITARY SEWER ON-SITE AND ALL STORM WATER IS DIRECTED INTO THE STORM SEWER SYSTEM.
5. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION REQUIRED BY UTILITY OWNERS TO CONSTRUCT PROJECT.
6. PROVIDE RECORD DRAWINGS TO THE OWNER FOR BELOW GRADE IMPROVEMENTS. INCLUDE: MATERIALS OF CONSTRUCTION, SIZE, ELEVATIONS, AND LOCATION DESCRIPTIONS IN THE RECORD. RECORD DRAWINGS SHALL BE CERTIFIED BY A LAND SURVEYOR REGISTERED IN THE STATE OF INDIANA.
7. CONTRACTOR SHALL COORDINATE WITH EACH UTILITY PROVIDER TO DETERMINE TOTAL COST OF SERVICE TO BUILDING AND TO INCLUDE IN THE COST OF THE PROJECT.
8. CONTRACTOR SHALL LOCATE ALL PRIVATE UTILITIES NOT COVERED BY THE PUBLIC LOCATING SERVICE.
9. CONSTRUCTION DE-WATERING AS NECESSARY BY CONTRACTOR.
10. ADJUST ANY EXISTING MANHOLES, VALVES, HYDRANTS, AND HANDHOLES, LOCATED WITHIN PROJECT LIMITS, TO PROPOSED GRADES.
11. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION OF ADJACENT WORK.
12. SEE SITE SURVEY FOR EXISTING CONDITIONS. IF ABANDONED WELLS ARE DISCOVERED ON THE PROPERTY, THEY MUST BE CAPPED BY A LICENSED WELL DRILL DRILLER ACCORDING TO INDIANA WELL DRILLING CODES AND REGULATIONS.
13. COORDINATE ALL DEMOLITION WORK WITH OWNER.
14. CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT FEES, TAPPING FEES, INSPECTION FEES, ETC.

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SEAL

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04-26-2023

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hanger
New Corporate Hanger for FWAA

11408 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS		
NO.	DESCRIPTION	DATE
1	PR-1	7/21/23

PROJECT NO.	ISSUE DATE
2301700	04-26-23
SUBMITTAL	
100% CD	

Site Demolition Plan

C1.0

July 21, 2023 11:03 AM
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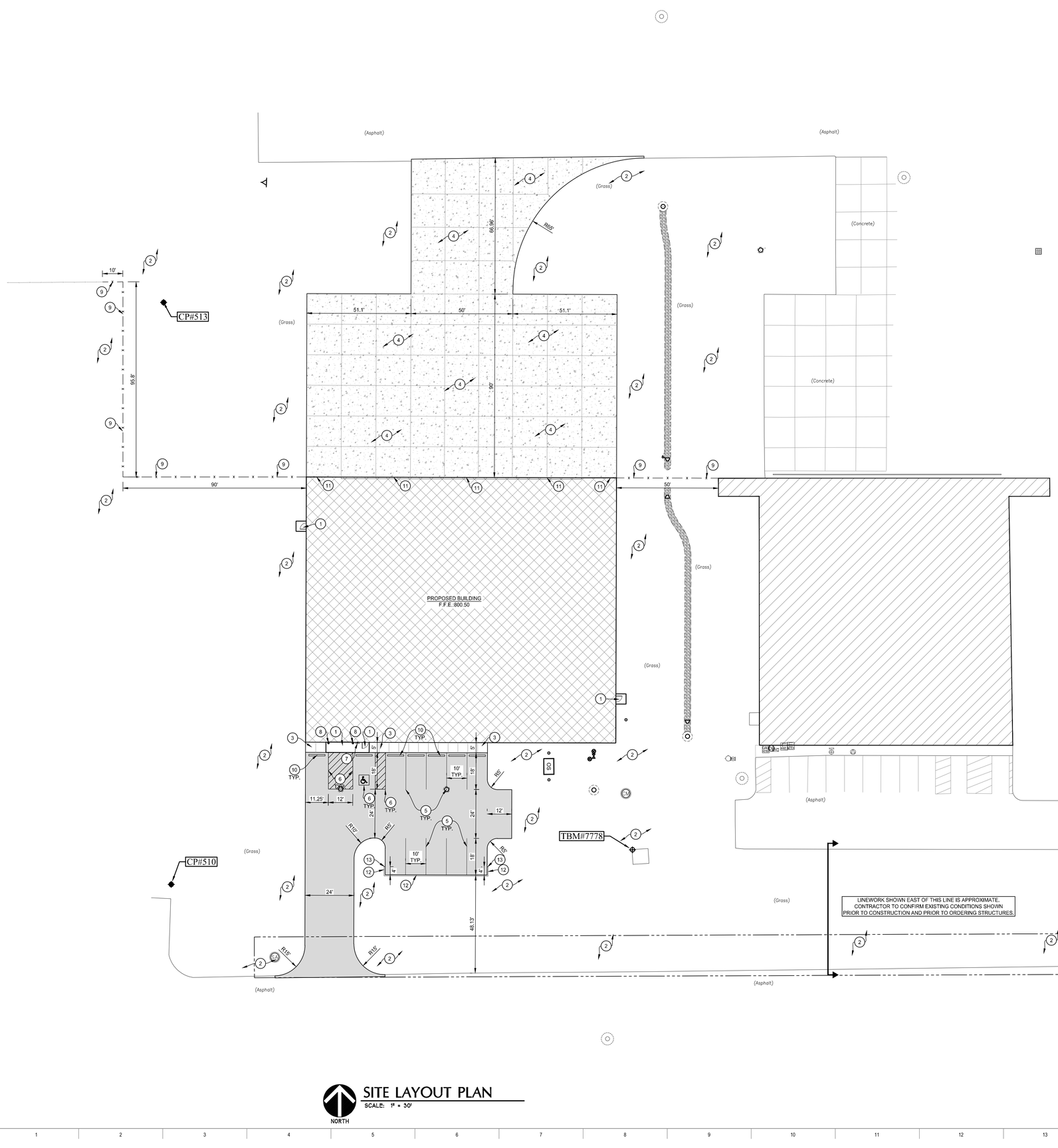

SITE LAYOUT PLAN

SCALE: 1" = 30'

NORTH

LAYOUT LEGEND:

TYPE "B" PAVEMENT PER DETAIL #2 ON C6.0.

12" CONCRETE PER DETAIL #3 ON C6.0.

TYPE "A" PAVEMENT PER DETAIL #2 ON C6.0.

NOTE: ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

LAYOUT NOTES:

1. CONCRETE STOOP, SEE STRUCTURAL DRAWINGS.
2. GRASS/LANDSCAPE AREA. ALL DISTURBED AREAS TO RECEIVE PERMANENT SEEDING. SEE SPECIFICATIONS SECTION 329200 "LAWNS & GRASSES".
3. 4" CONCRETE SIDEWALK PER DETAILS #4 ON C6.0 AND #5 ON C6.0.
4. 12" CONCRETE PAVEMENT PER DETAIL #3 ON C6.0.
5. PAVEMENT MARKING SHALL BE 4" WHITE WATERBORNE PAINT.
6. HANDICAP PAVEMENT MARKINGS SHALL BE 4" BLUE WATERBORNE PAINT.
7. "VAN ACCESSIBLE" HANDICAP SIGN PER DETAIL #6 ON C6.0.
8. 6" PIPE BOLLARD PER DETAIL #7 ON C6.0.
9. CHAIN-LINK FENCE PER DETAIL #8 ON C6.0, HEIGHT TO MATCH EXISTING.
10. CONCRETE PARKING BUMPER PER DETAIL #8 ON C6.0.
11. CONTRACTOR TO COORDINATE CONCRETE CONNECTION TO BUILDING WITH BUILDING STRUCTURAL DRAWINGS. CONTRACTOR TO DOWELL INTO CMU FOUNDATION WALL WITH #4 BARS @ 16" O.C. (ONE SIDE GREASED).
12. 6" VERTICAL CURB PER DETAIL #1 ON C6.0.
13. CONTRACTOR TO TRANSITION CURB TO FLUSH OVER 3'.

PROPOSED LEGEND:

- STORM END SECTION
- SANITARY CLEANOUT
- CONTROL MANHOLE
- OIL SEPARATOR
- GATE VALVE
- PIV / BLOW-OFF
- SIGN
- HANDICAP SYMBOL PER DETAIL #1 ON C6.0

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SEAL

04-26-2023

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HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hanger
New Corporate Hanger for FWAA

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Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE
1	PR-1	7/21/23

PROJECT NO. 2301700
ISSUE DATE 04-26-23
SUBMITTAL 100% CD

Site Layout Plan

C2.0

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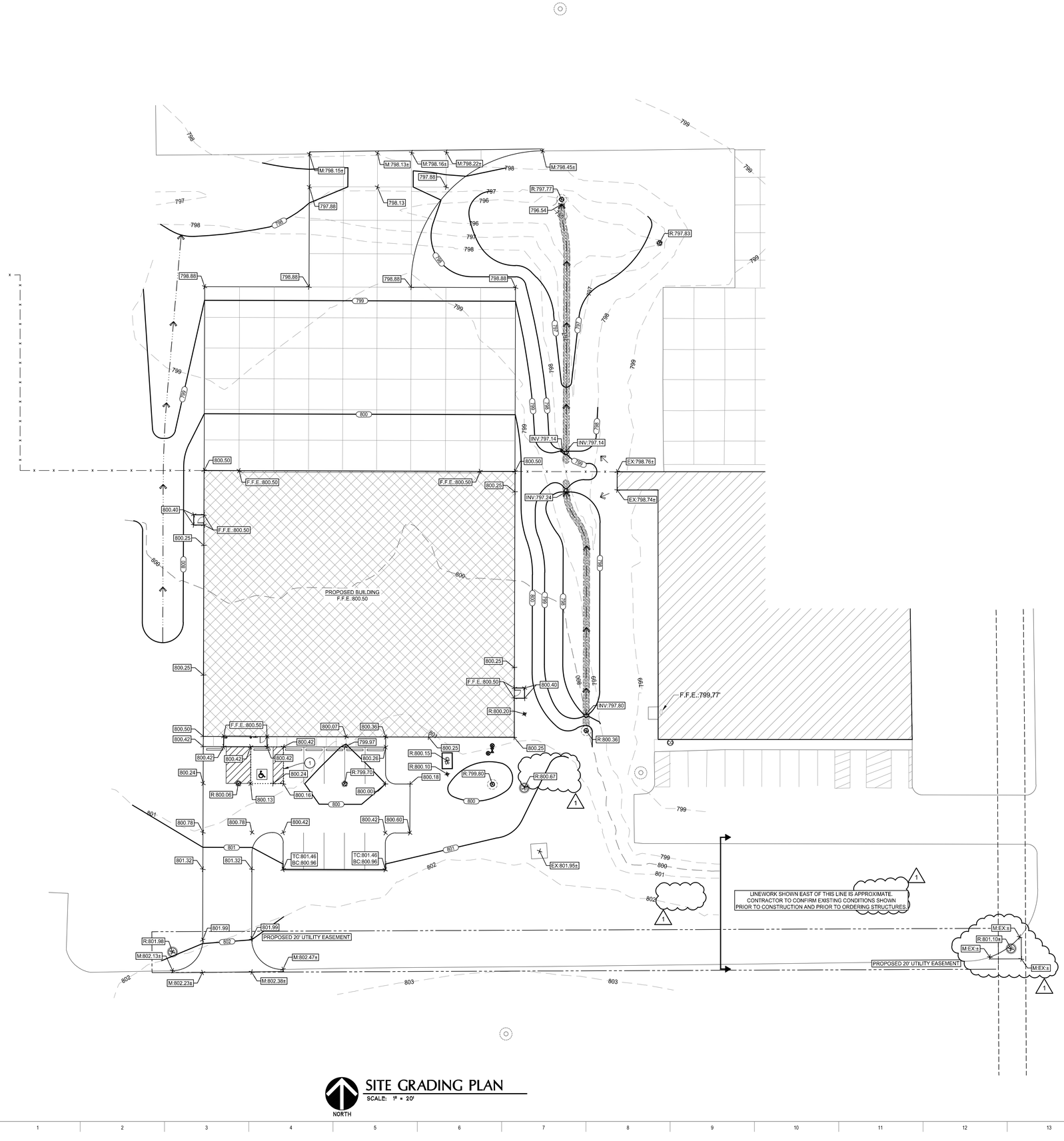

SITE GRADING PLAN

SCALE: 1" = 20'

NORTH

GRADING LEGEND:

- 800 — PROPOSED CONTOUR
- 801 — EXISTING CONTOUR
- M:XXX.xx — MATCH EXISTING SPOT
- EX:XXX.xx — EXISTING SPOT
- XXX.xx — PROPOSED SPOT
- R:XXX.xx — PROPOSED RIM
- TC:XXX.xx — PROPOSED TOP OF CURB
- BC:XXX.xx — PROPOSED BOTTOM OF CURB
- PROPOSED DRAINAGE SWALE
- ENERGY DISSIPATER

GRADING NOTE:

1. ADA ACCESSIBLE PARKING AREAS SHOULD BE CONSTRUCTED WITH SPECIAL ATTENTION. MAXIMUM SLOPES IN THESE AREAS SHOULD NOT EXCEED 2.00% IN ANY DIRECTION.

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

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04-26-2023

MARK D. REINHARD REGISTERED No. 10911278 STATE OF INDIANA PROFESSIONAL ENGINEER

HAGERMAN

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REVISIONS

NO.	DESCRIPTION	DATE
1	PR-1	7/21/23

PROJECT NO. 2301700
ISSUE DATE 04-26-23
SUBMITTAL 100% CD

Site Grading Plan

C3.0

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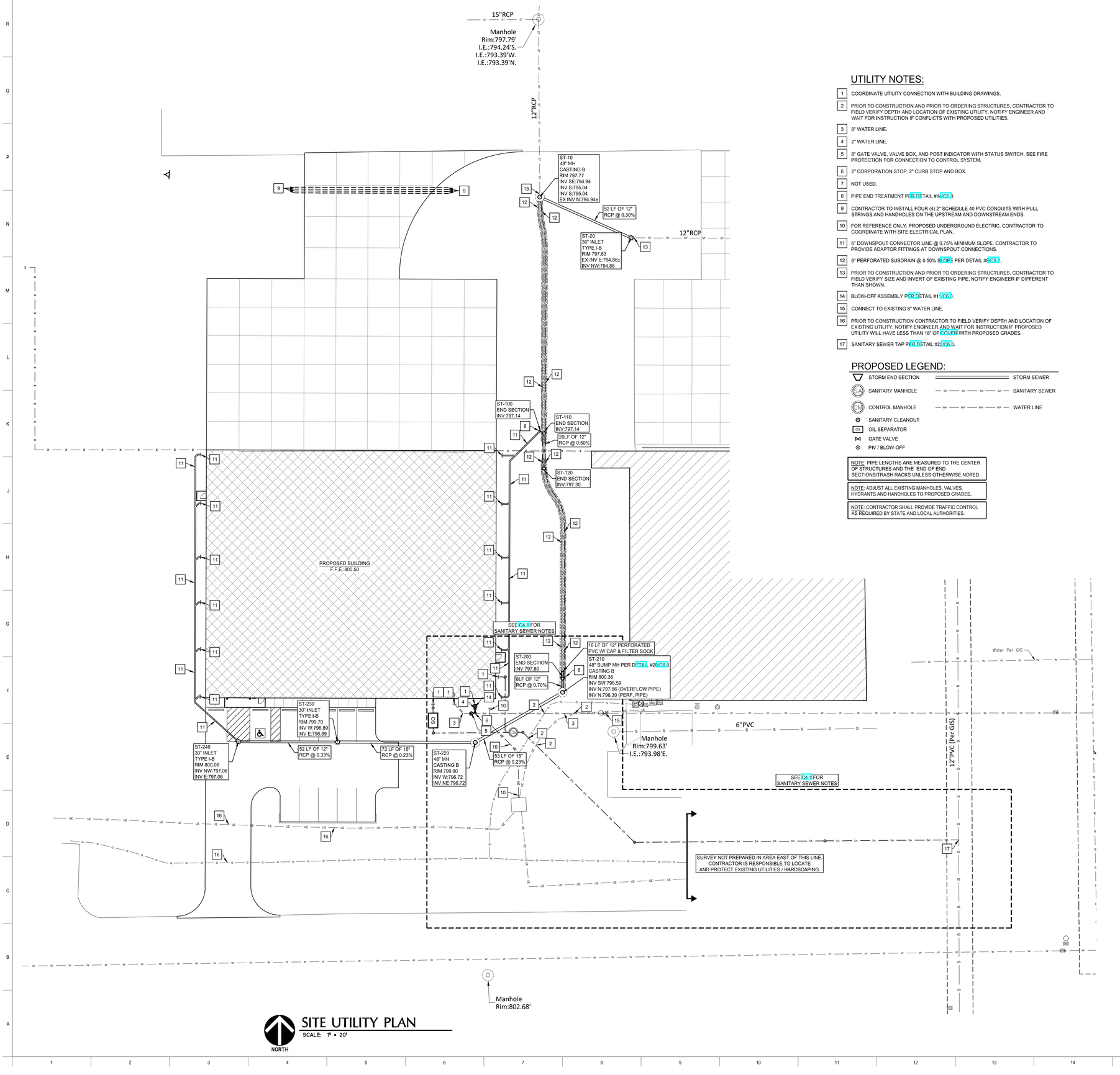

SITE UTILITY PLAN
SCALE: 1" = 20'

NORTH

UTILITY NOTES:

1. COORDINATE UTILITY CONNECTION WITH BUILDING DRAWINGS.
2. PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING STRUCTURES, CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITY. NOTIFY ENGINEER AND WAIT FOR INSTRUCTION IF CONFLICTS WITH PROPOSED UTILITIES.
3. 8" WATER LINE.
4. 2" WATER LINE.
5. 8" GATE VALVE, VALVE BOX, AND POST INDICATOR WITH STATUS SWITCH. SEE FIRE PROTECTION FOR CONNECTION TO CONTROL SYSTEM.
6. 2" CORPORATION STOP, 2" CURB STOP AND BOX.
7. NOT USED.
8. PIPE END TREATMENT PER DETAIL #1 (/C6.1).
9. CONTRACTOR TO INSTALL FOUR (4) 2" SCHEDULE 40 PVC CONDUITS WITH PULL STRINGS AND HANDHOLES ON THE UPSTREAM AND DOWNSTREAM ENDS.
10. FOR REFERENCE ONLY: PROPOSED UNDERGROUND ELECTRIC. CONTRACTOR TO COORDINATE WITH SITE ELECTRICAL PLAN.
11. 6" DOWNSPOUT CONNECTOR LINE @ 0.75% MINIMUM SLOPE. CONTRACTOR TO PROVIDE ADAPTOR FITTINGS AT DOWNSPOUT CONNECTIONS.
12. 6" PERFORATED SUBDRAIN @ 0.50% SLOPE PER DETAIL #6 (/C6.2).
13. PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING STRUCTURES, CONTRACTOR TO FIELD VERIFY SIZE AND INVERT OF EXISTING PIPE. NOTIFY ENGINEER IF DIFFERENT THAN SHOWN.
14. BLOW-OFF ASSEMBLY PER DETAIL #1 (/C6.1).
15. CONNECT TO EXISTING 8" WATER LINE.
16. PRIOR TO CONSTRUCTION CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITY. NOTIFY ENGINEER AND WAIT FOR INSTRUCTION IF PROPOSED UTILITY WILL HAVE LESS THAN 18" OF COVER WITH PROPOSED GRADES.
17. SANITARY SEWER TAP PER DETAIL #2 (/C6.1).

PROPOSED LEGEND:

STORM END SECTION	STORM SEWER
SANITARY MANHOLE	SANITARY SEWER
CONTROL MANHOLE	WATER LINE
SANITARY CLEANOUT	
OIL SEPARATOR	
GATE VALVE	
PIV / BLOW-OFF	

NOTE: PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES AND THE END OF END SECTIONS/TRASH RACKS 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.

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 #1 (/C6.1).

STORM SEWER NOTES:

1. MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CITY OF FORT WAYNE STANDARDS AND SPECIFICATIONS.
2. ALL SHALL BE C76 CL-111 RCP UNLESS OTHERWISE NOTED. ALL PIPE SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS AND PIPE TRENCH DETAIL #1 (/C6.1).
3. MAINTAIN 10'-0" MINIMUM HORIZONTAL AND 18" MINIMUM VERTICAL SEPARATION BETWEEN ALL SEWER PIPING AND POTABLE WATER PIPING. WHEN MINIMUM TOLERANCES CAN'T BE MAINTAINED, USE WATERWORKS GRADE PIPE AND FITTINGS OF MATERIAL SELECTED.
4. COORDINATE TAP LOCATIONS FOR ROOF DRAINS WITH BUILDING PLUMBING 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 @ 0.75% MIN. SLOPE UNLESS NOTED OTHERWISE.

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SEAL

04-26-2023

D. REINHARD
REGISTERED
No. 10911278
STATE OF INDIANA
PROFESSIONAL ENGINEER

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hanger
New Corporate Hanger for FWAA
11408 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NO.	ISSUE DATE
2301700	04-26-23

SUBMITTAL
100% CD

Site Utility Plan

C4.0

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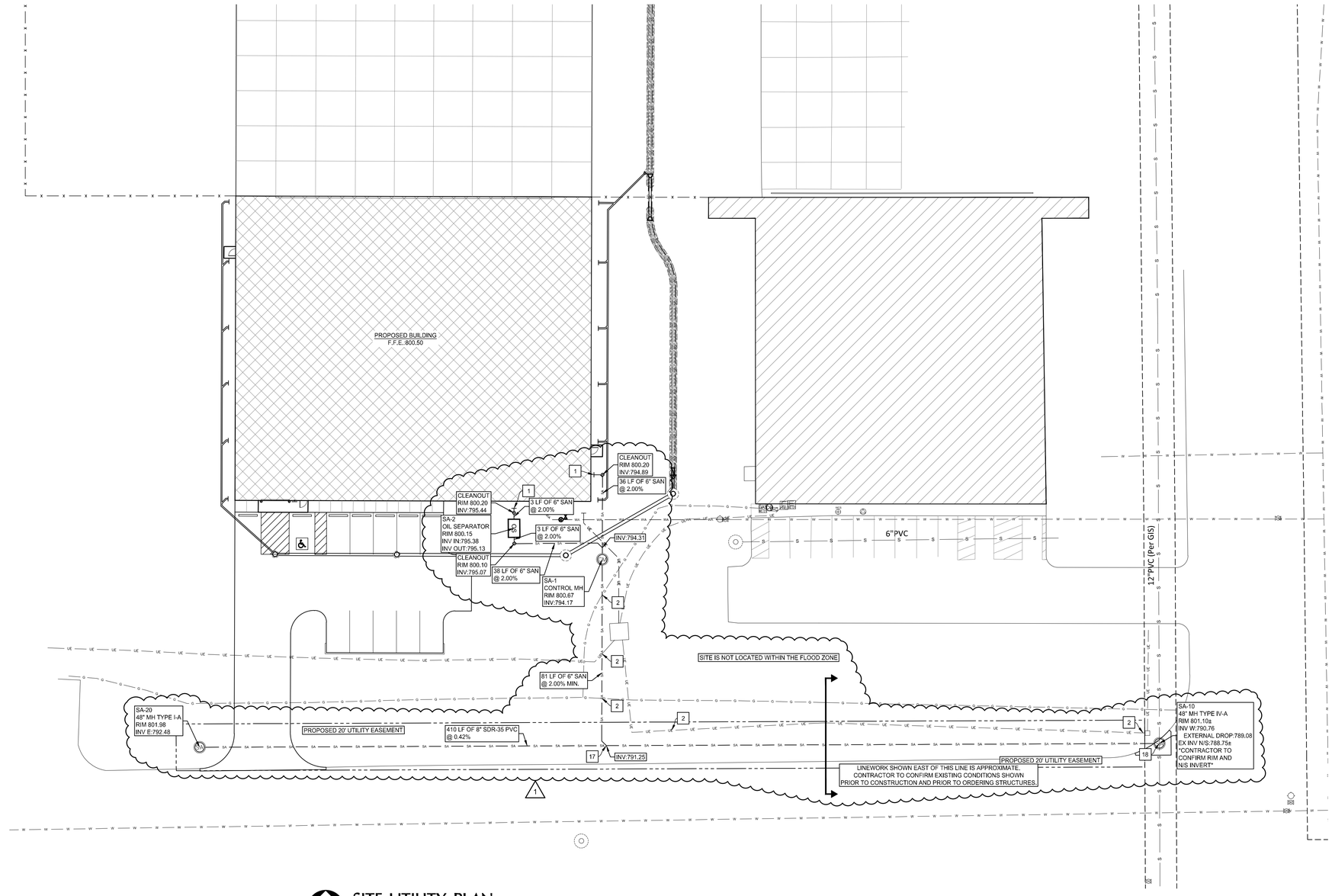
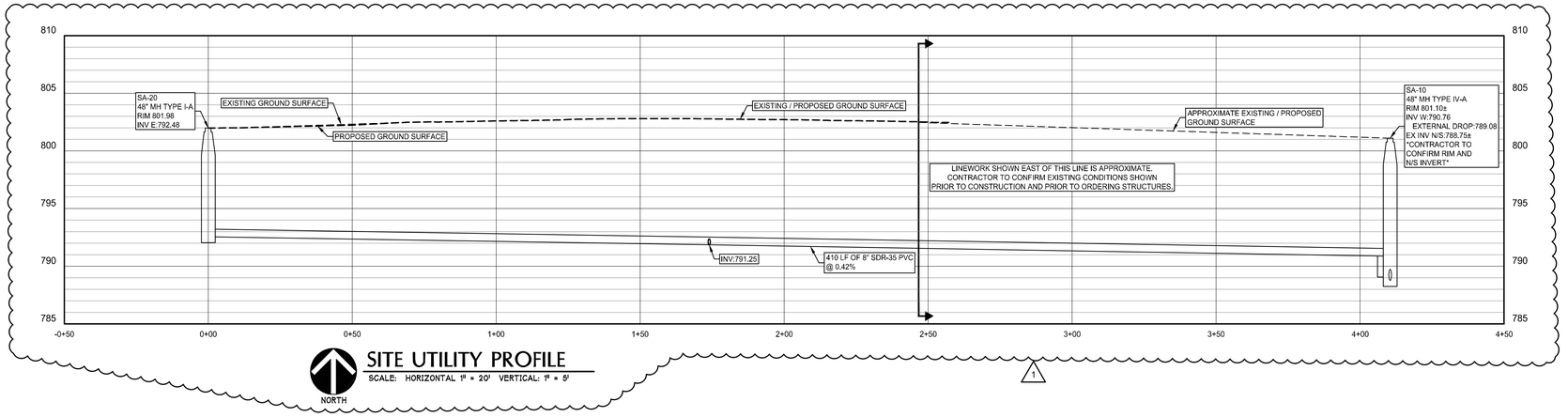


SITE UTILITY PLAN

SCALE: 1" = 20'

NORTH



SITE UTILITY PROFILE

SCALE: HORIZONTAL 1" = 20' VERTICAL: 1" = 5'

NORTH

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.
20. ALL PIPE SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS AND PIPE TRENCH DETAIL #12(C6.).

UTILITY NOTES:

1. COORDINATE UTILITY CONNECTION WITH BUILDING DRAWINGS.
2. PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING STRUCTURES, CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITY. NOTIFY ENGINEER AND WAIT FOR INSTRUCTION IF CONFLICTS WITH PROPOSED UTILITIES.
3. 8" WATER LINE.
4. 2" WATER LINE.
5. 8" GATE VALVE, VALVE BOX, AND POST INDICATOR WITH STATUS SWITCH. SEE FIRE PROTECTION FOR CONNECTION TO CONTROL SYSTEM.
6. 2" CORPORATION STOP, 2" CURB STOP AND BOX.
7. NOT USED.
8. PIPE END TREATMENT PER DETAIL #1(C6.).
9. CONTRACTOR TO INSTALL FOUR (4) 2" SCHEDULE 40 PVC CONDUITS WITH PULL STRINGS AND HANDHOLES ON THE UPSTREAM AND DOWNSTREAM ENDS.
10. FOR REFERENCE ONLY. PROPOSED UNDERGROUND ELECTRIC. CONTRACTOR TO COORDINATE WITH SITE ELECTRICAL PLAN.
11. 6" DOWNSPOUT CONNECTOR LINE @ 0.75% MINIMUM SLOPE. CONTRACTOR TO PROVIDE ADAPTOR FITTINGS AT DOWNSPOUT CONNECTIONS.
12. 6" PERFORATED SUBDRAIN @ 0.50% SLOPE PER DETAIL #6(C6.2.
13. PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING STRUCTURES, CONTRACTOR TO FIELD VERIFY SIZE AND INVERT OF EXISTING PIPE. NOTIFY ENGINEER IF DIFFERENT THAN SHOWN.
14. BLOW-OFF ASSEMBLY PER DETAIL #1 (C6.).
15. CONNECT TO EXISTING 8" WATER LINE.
16. PRIOR TO CONSTRUCTION CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITY. NOTIFY ENGINEER AND WAIT FOR INSTRUCTION IF PROPOSED UTILITY WILL HAVE LESS THAN 18" OF COVER WITH PROPOSED GRADES.
17. SANITARY SEWER TAP PER DETAIL #2 (C6.).
18. PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING SA-10 AND SA-20, CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITY. SANITARY STRUCTURES MUST NOT HAVE MORE THAN 24" OF FALL BETWEEN INVERTS WITHOUT AN EXTERNAL DROP. COORDINATE WITH ENGINEER IF EXISTING INVERT IS MORE THAN 24" BELOW PROPOSED INVERT.

PROPOSED LEGEND:

- STORM END SECTION
- STORM SEWER
- SANITARY MANHOLE
- SANITARY SEWER
- CONTROL MANHOLE
- WATER LINE
- SANITARY CLEANOUT
- OIL SEPARATOR
- GATE VALVE
- PIV / BLOW-OFF

NOTE: PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES AND THE END OF END SECTIONS/TRASH RACKS 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.

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SEAL 04-26-2023

MARK D. REINHARD REGISTERED No. 10911278 STATE OF INDIANA PROFESSIONAL ENGINEER

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

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New Corporate Hanger for FWAA
11408 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE
1	PR-1	7/21/23

PROJECT NO. 2301700
ISSUE DATE 04-26-23
SUBMITTAL 100% CD

Site Utility Plan

C4.1

July 21, 2023 11:03 AM
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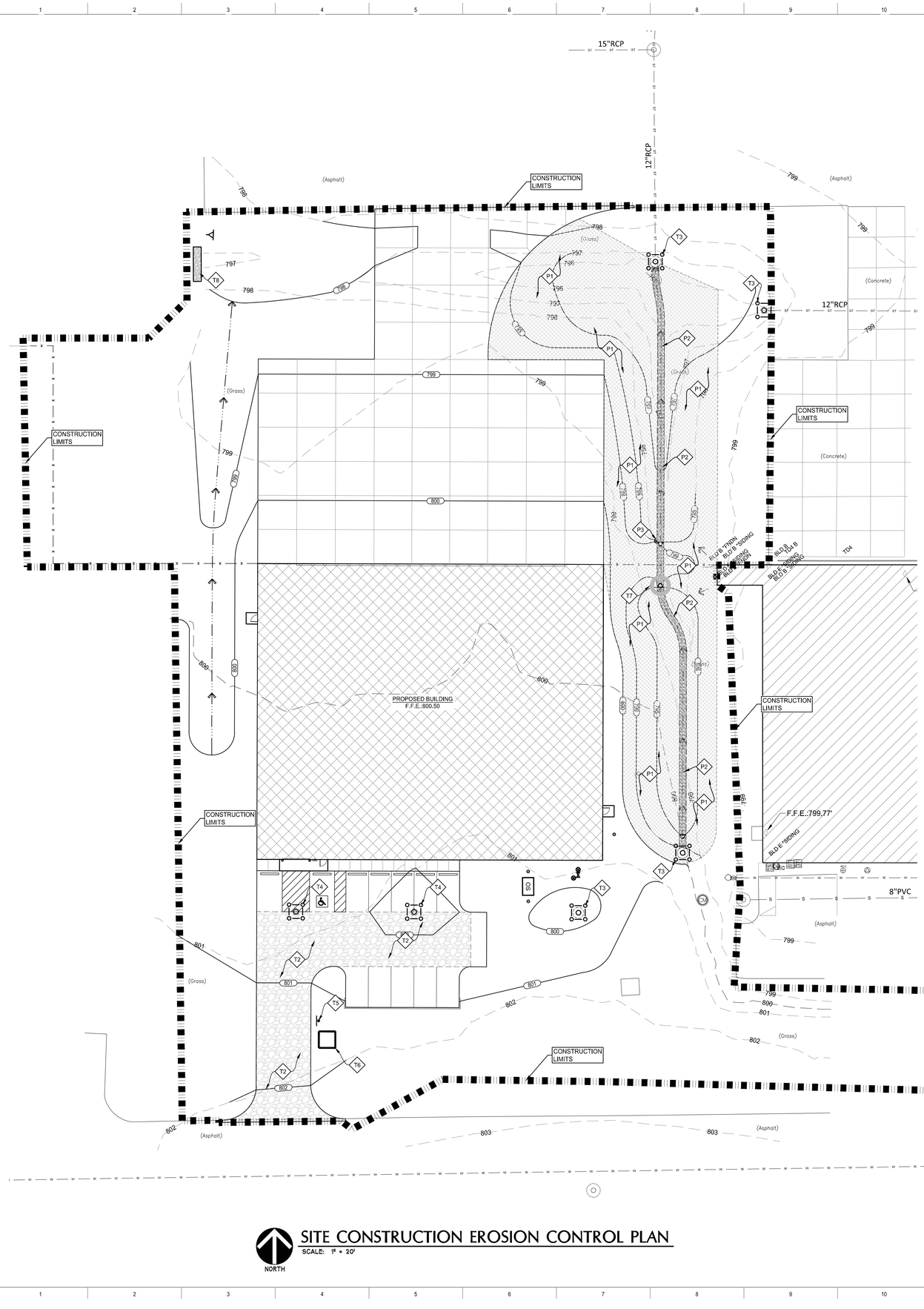

EROSION CONTROL LEGEND:

- SILT FENCE
- AGGREGATE BASE FOR STABLE CONSTRUCTION ENTRANCE
- INLET PROTECTION
- CONCRETE WASHOUT AREA
- CONSTRUCTION LIMITS
- EROSION CONTROL SIGNAGE
- ENERGY DISSIPATER
- EROSION CONTROL BLANKET
- INFILTRATION TRENCH
- END SECTION INLET PROTECTION

EROSION CONTROL KEY:

TEMPORARY EROSION CONTROL DEVICES AND MEASURES

- T1 — INSTALL SILT FENCE PER DETAIL #1/C5.2.
- T2 — INSTALL STABLE CONSTRUCTION ENTRANCE PER DETAIL #2/C5.2.
- T3 — INSTALL YARD INLET PROTECTION DEVICE PER DETAIL #3/C5.2.
- T4 — INSTALL PAVEMENT INLET PROTECTION DEVICE PER DETAIL #4/C5.2.
- T5 — INSTALL CONCRETE WASHOUT AREA SIGN PER DETAIL #5/C5.2.
- T6 — INSTALL CONCRETE WASHOUT STRUCTURE PER DETAIL #6/C5.2.
- T7 — INSTALL END SECTION INLET PROTECTION DEVICE PER DETAIL #16/C5.2.
- T8 — INSTALL RIP-RAP DAM PER DETAIL #1 /C5.2.

PERMANENT EROSION CONTROL DEVICES AND MEASURES

- P1 — INSTALL EROSION CONTROL BLANKET PER DETAIL #7/C5.2.
- P2 — INSTALL INFILTRATION TRENCH PER DETAIL #8/C5.2.
- P3 — INSTALL ENERGY DISSIPATER PER DETAIL #9/C5.2.

NOTE:

STORM WATER SEWER LINES SHOWN ARE FOR REFERENCE ONLY. SEE SHEET C4.0 SITE UTILITY PLAN FOR STORM WATER SEWER LINE SIZE, INVERT, ETC.

PUBLIC INFORMATION NOTE:

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

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

PERMANENT EROSION CONTROL DEVICES AND MEASURES NOTE:

THE CONTRACTOR SHALL CLEAN THE EROSION CONTROL DEVICES AND MEASURES OF, BUT NOT LIMITED TO, SEDIMENT, DEBRIS, AND ANY HYDROCARBONS WHEN CONSTRUCTION IS COMPLETE. WATER AND SEDIMENT FROM CLEANING PROCEDURES SHALL BE DISPOSED OF PROPERLY AND MUST NOT BE DEPOSITED INTO ANY SANITARY SEWER SYSTEM. DISPOSAL OF ALL SEDIMENT, DEBRIS AND HYDROCARBONS MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.

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

FUELING AREA:

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

VEHICLE AND EQUIPMENT MAINTENANCE / MATERIAL STORAGE AREA:

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

STABLE CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT NOTE:

CONTRACTOR SHALL PROVIDE A STABLE CONSTRUCTION ENTRANCE THAT IS CONVENIENT TO THE PROJECT SITE. THIS CONSTRUCTION ENTRANCE SHALL BE EITHER BE OF 12' x 50' AGGREGATE OR A MANUFACTURED TRACK-OFF DEVICE. THE CONSTRUCTION ENTRANCE SHALL PROVIDE PROTECTION AGAINST MUD AND SEDIMENT BEING TRACKED OFF THE CONSTRUCTION SITE ONTO ADJACENT PUBLIC OR PRIVATE PAVEMENT, IF MUD OR SEDIMENT IS TRACKED ON TO ADJACENT PAVED SURFACES, THE CONTRACTOR SHALL CLEAN THE SURFACES DAILY BY SCRAPING AND BRUSHING THE SEDIMENT OFF THE SURFACE AND RETURNING IT TO THE SOURCE LOCATION. THE SURFACE SHALL NOT BE CLEANED BY USE OF FLUSHING WITH WATER.

CONTRACTOR SHALL PROVIDE A CONCRETE WASHOUT AREA TO BE USED DURING THE CONSTRUCTION OF THE UTILITIES, SIDEWALKS AND BUILDING, THE CONCRETE WASHOUT STRUCTURE MAY BE CONSTRUCTED ON-SITE OR A MANUFACTURED DEVICE, PLACE THE CONCRETE WASHOUT STRUCTURE AN MINIMUM OF 50' FROM ANY STORM WATER INLET OR CATCH BASIN AND EXCESS CONCRETE REMOVED AT 50% OF THE DESIGN CAPACITY.

PERMANENT OFF-SITE EXCESS SOIL AREA AND WETLAND NOTE:

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

EROSION CONTROL SEQUENCING

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

PRE-CONSTRUCTION ACTIVITY

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

CONSTRUCTION ACTIVITY

1. DE-WATER THE CONSTRUCTION SITE WHEN NEEDED.
2. BEGIN DEMOLITION OF ITEMS TO BE REMOVED FOR THE PROPOSED CONSTRUCTION.
3. PREPARE OFF-SITE SOIL STOCKPILE AREAS WITH EROSION CONTROL DEVICES AND MEASURES.
4. BEGIN INITIAL LAND CLEARING AND GRADING BY GRUBBING AND CLEARING VEGETATION THEN STRIP AND STOCKPILE TOPSOIL. WHEN POSSIBLE, PHASE LAND CLEARING AS TO NOT LEAVE LARGE AREAS OF SOIL EXPOSED AND LEFT INACTIVE FOR FOURTEEN (14) DAYS OR MORE. IF DISTURBED AREAS ARE TO BE LEFT INACTIVE FOR FOURTEEN (14) DAYS OR MORE, THE DISTURBED ARE IS TO BE STABILIZED BY PERMANENT OR TEMPORARY SEEDING, MULCHED AND MECHANICALLY CRIMPED INTO THE SOIL OR BY OTHER SURFACE STABILIZING METHODS BY DAY FOURTEEN (14).
5. STABILIZE SOIL STOCKPILE AND BORROW AREAS.
6. PERMANENTLY SEED, OR MULCH, DISTURBED AREAS AS SOON AS POSSIBLE TO PREVENT SEDIMENT LOSS.
7. INSTALL EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT (TRM) AS INDICATED ON THE PLANS. IF EROSION CONTROL BLANKETS THE CONTRACTOR MAY INSTALL ADDITIONAL EROSION CONTROL BLANKET OR TRM'S IF THERE IS ANY EROSION OR SCOURING ON THE PROJECT SITE.
8. INSTALL CONCRETE WASHOUT AREATO BE USED DURING CONSTRUCTION OF UTILITIES, DRIVES, PARKING LOTS, SIDEWALKS, AND BUILDING.
9. CONSTRUCT STORM WATER CONVEYANCE SYSTEMS SUCH AS SWALES, CHANNELS AND STORM WATER SEWERS.
10. CONSTRUCT REMAINING UTILITIES, DRIVES, PARKING LOTS, SIDEWALKS AND BUILDING.
11. FINE GRADE SITE, PERMANENTLY SEED AND LANDSCAPE. THE CONTRACTOR SHALL NOTIFY THE CITY OF FORT WAYNE ENGINEERING SUPPORT SERVICES, ALLEN COUNTY SURVEYOR'S OFFICE OF EXCESS SOIL DISPOSAL IF LOCATED OFF-SITE.
12. REMOVE TEMPORARY EROSION CONTROL DEVICES AND MEASURES, ONCE THE CONTRIBUTING DRAINAGE AREA IS STABILIZED. STABILIZE ANY DISTURBED SOIL FROM THE REMOVAL PROCESS WITH PERMANENT SEEDING.

POST CONSTRUCTION ACTIVITY

1. REMOVE CONSTRUCTION SEDIMENT AND DEBRIS FROM PERMANENT EROSION CONTROL DEVICES AND MEASURES.
2. CONTACT THE GOVERNMENT INSPECTION AGENCY, THE CITY OF FORT WAYNE ENGINEERING SUPPORT SERVICES, FOR FINAL SITE INSPECTION AND VERIFICATION OF SITE STABILIZATION.
3. UPON VERIFICATION OF COMPLETION, THE CONTRACTOR SHALL NOTIFY ENGINEERING RESOURCES TO SUBMIT A NOTICE OF TERMINATION (NOT) TO IDEM ONLINE AND THE INSPECTION AGENCY SHALL SEND A COPY OF THE VERIFICATION OF COMPLETION TO ENGINEERING RESOURCES. A COPY OF THE NOT SUFFICIENCY LETTER WILL THEN BE SENT TO THE CITY OF FORT WAYNE ENGINEERING SUPPORT SERVICES AND CITY OF FORT WAYNE STORMWATER ENGINEERING AND THE OWNER AS REQUIRED BY THE EROSION CONTROL PERMIT.

SITE CONSTRUCTION DE-WATERING NOTE:

CONTRACTOR SHALL USE A DE-WATERING PROCESS WHEN SUBSTANTIAL STANDING WATER IS PRESENT DURING CONSTRUCTION, DE-WATERING PROCESS NEEDS TO BE DONE DOWN STREAM OF SATURATED AREA, AND CAN NOT BE DIRECTLY PUMPED INTO A MANHOLE OR INLET.

SITE CONSTRUCTION EROSION CONTROL PLAN

SCALE: 1" = 20'

NORTH

April 24, 2023 11:03 AM
S:\Projects\Projects (5000-5999)\Projects (5850-5899)\5851-FWA Hangar Site\Drawings\Plans\5851-C5 EROSION CONTROL.dwg

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

SEAL 04-26-2023

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hanger
New Corporate Hanger for FWAA

11408 West Perimeter Road
Fort Wayne, IN 46809

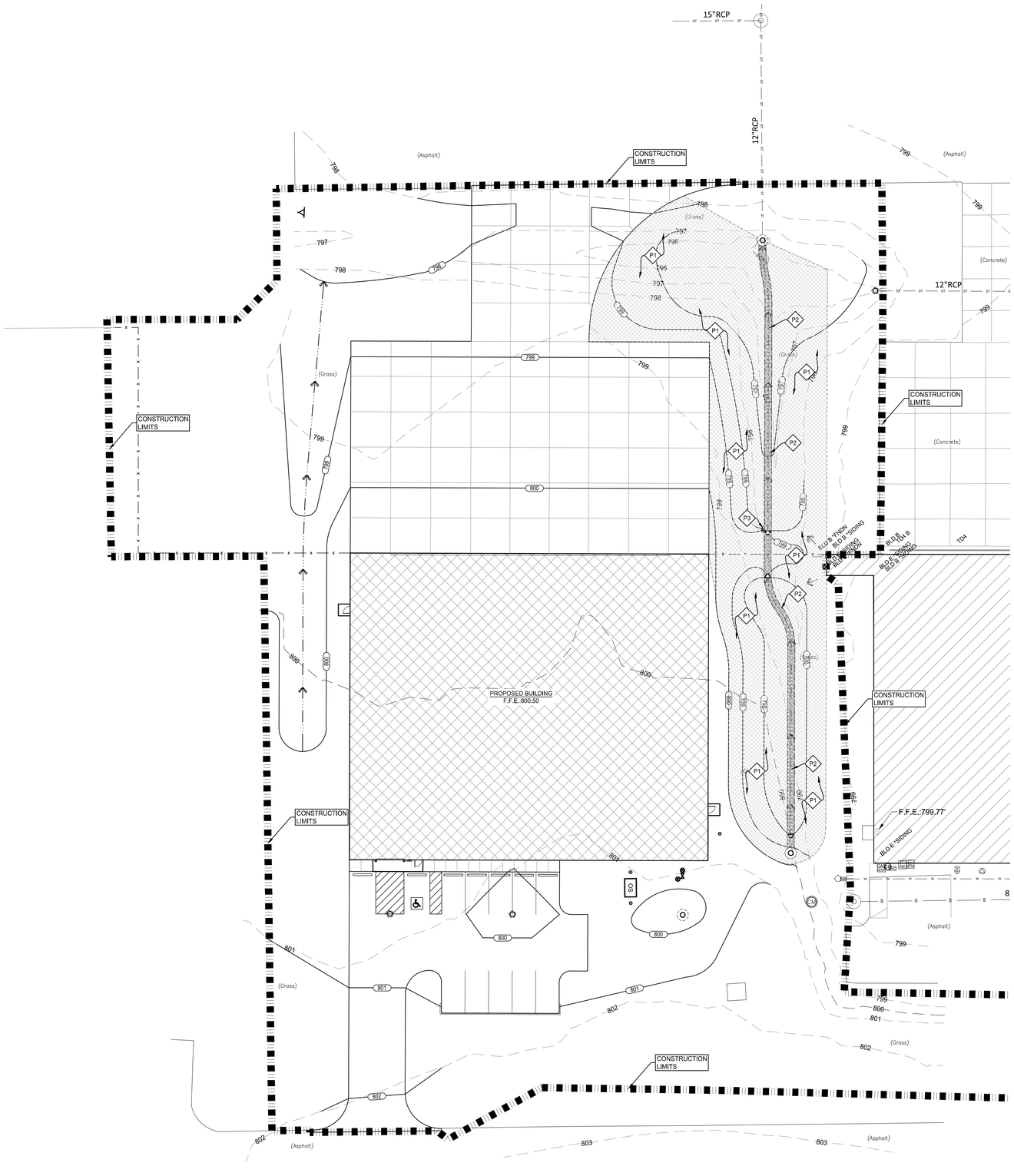
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 04-26-23
SUBMITTAL 100% CD

Site Construction Erosion Control Plan

C5.0



SITE POST-CONSTRUCTION EROSION CONTROL PLAN

SCALE: 1" = 20'

NORTH

EROSION CONTROL LEGEND:

- CONSTRUCTION LIMITS
- ENERGY DISSIPATER
- EROSION CONTROL BLANKET
- INFILTRATION TRENCH

EROSION CONTROL KEY:

PERMANENT EROSION CONTROL DEVICES AND MEASURES	P1	INSTALL EROSION CONTROL BLANKET PER DETAIL #7/C5.2.
	P2	INSTALL INFILTRATION TRENCH PER DETAIL #6/C5.2.
	P3	INSTALL ENERGY DISSIPATER PER DETAIL #5/C5.2.

NOTE:

STORM WATER SEWER LINES SHOWN ARE FOR REFERENCE ONLY. SEE SHEET C4.0 SITE UTILITY PLAN FOR STORM WATER SEWER LINE SIZE, INVERT, ETC.

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SEAL

04-26-2023

MARK D. REINHARD
REGISTERED
No. 10911278
STATE OF INDIANA
PROFESSIONAL ENGINEER

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hanger
New Corporate Hanger for FWAA

11408 West Perimeter Road
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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
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SUBMITTAL 100% CD

Site Post-Construction Erosion Control Plan

C5.1

April 24, 2023 11:03 AM
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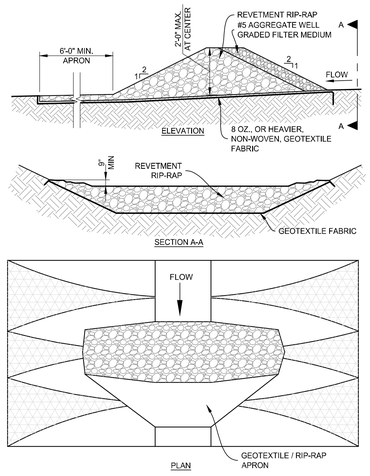
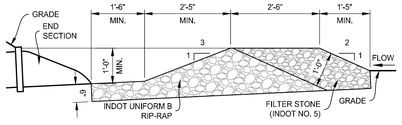


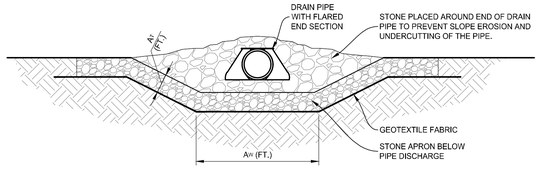
RIP-RAP DAM

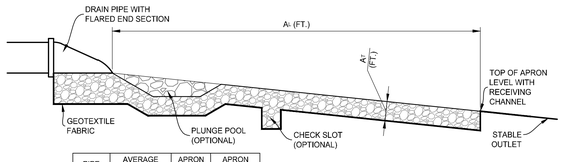
11 / C5.2 SCALE: NONE



GRAVEL END SECTION INLET PROTECTION

10 / C5.2 SCALE: 1/2" = 1' - 0"





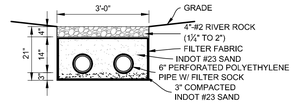
PIPE SIZE (IN.)	AVERAGE RIP-RAP DIAMETER (IN.)	APRON WIDTH (A_W) (FT.)	APRON LENGTH (A_L) (FT.)
8	3	2 - 3	5 - 7
12	5	3 - 4	6 - 12
15	6	3.5 - 5	7 - 15
18	8	4 - 6	8 - 18
24	10	6 - 8	12 - 22
30	12	8 - 10	14 - 28
36	14	10 - 12	16 - 32
42	16	12 - 14	18 - 38
48	20	14 - 16	25 - 44

A_T = APRON THICKNESS (FT.)
A_L = APRON LENGTH (FT.)
A_W = APRON WIDTH (FT.) AT THE NARROW END OF THE APRON.

APRON THICKNESS (A_T):
- 1.2 TIMES THE MAXIMUM STONE DIAMETER FOR A STONE SIZE OF 15 INCHES OR LARGER.
- 1.5 TIMES THE MAXIMUM STONE DIAMETER FOR A STONE SIZE OF 15 INCHES OR LESS.

ENERGY DISSIPATER

9 / C5.2 SCALE: NONE



INFILTRATION TRENCH W/ PERFORATED DRAIN

8 / C5.2 SCALE: 1/2" = 1'-0"

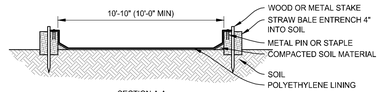
INSTALLATION:

1. CONTRACTOR TO SELECT A 12-MONTH PHOTODEGRADABLE EROSION CONTROL BLANKET RATED FOR 3:1 TO 2:1 SLOPES.
2. INSTALL EROSION CONTROL MEASURES AND PRACTICES NEEDED TO CONTROL EROSION AND RUNOFF, SUCH AS TEMPORARY OR PERMANENT DIVERSION, SEDIMENT BASIN OR TRAP, AND SILT FENCE.
3. GRADE THE SITE AS SPECIFIED IN THE CONSTRUCTION PLAN.
4. ADD TOPSOIL WHERE APPROPRIATE.
5. PREPARE THE SEEDBED, FERTILIZE (AND LIME, IF NEEDED), AND SEED THE AREA IMMEDIATELY AFTER GRADING.
6. FOLLOWING MANUFACTURER'S DIRECTIONS, LAY THE BLANKETS ON THE SEEDED AREA SUCH THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL AND THAT THE UPSLOPE OR UPSTREAM ONES OVERLAP THE LOWER ONES BY AT LEAST 8 INCHES.
7. TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SILT TRENCH), BACKFILL WITH SOIL AND TAMP DOWN.
8. ANCHOR THE BLANKETS AS SPECIFIED BY THE MANUFACTURER. THIS TYPICALLY INVOLVES DRIVING 6" TO 8" METAL STAPLES INTO THE GROUND IN A PATTERN DETERMINED BY THE SITE CONDITIONS AND TYPE OF EROSION CONTROL BLANKET.

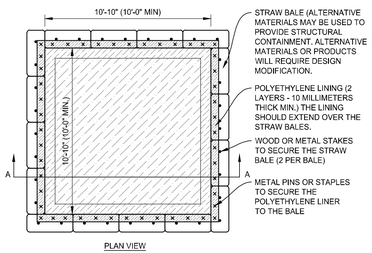
EROSION CONTROL BLANKET

7 / C5.2 SCALE: NONE

NOTE:
DUE TO SITE CONSTRAINTS THE MINIMUM INTERIOR DIMENSION MAY BE ADJUSTED TO FIT THE SITE. THE STRUCTURE'S INTERIOR SQUARE FOOTAGE OF 100 SF, MUST BE MAINTAINED AND THE CONTRACTOR SHALL SUBMIT ANY DESIGN ALTERATIONS TO THE ENGINEER.



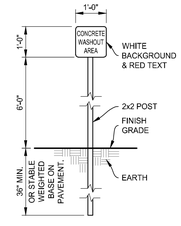
SECTION A-A



PLAN VIEW

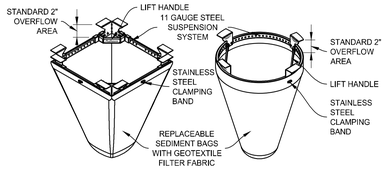
CONCRETE WASHOUT STRUCTURE

6 / C5.2 SCALE: 1/4" = 1'-0"



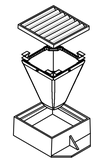
CONCRETE WASHOUT SIGN

5 / C5.2 SCALE: 1/2" = 1' - 0"



TYPICAL RECTANGULAR INLET FILTER

TYPICAL ROUND INLET FILTER



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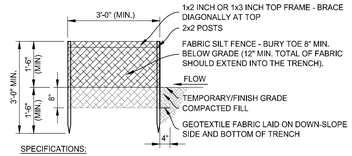
AND MANUFACTURED BY:

INLET & PIPE PROTECTION, INC.
24137 W. 111TH ST., UNIT A
NAPERVILLE, IL 60564
PH: (866) 287-8655
FAX: (630) 355-3477
WWW.INLETFILTERS.COM
INFO@INLETFILTERS.COM

INSTALLATION:
- REMOVE GRATE
- DROP FLEXSTORM INLET FILTER INTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
- REPLACE GRATE

PAVEMENT INLET PROTECTION

4 / C5.2 SCALE: NONE

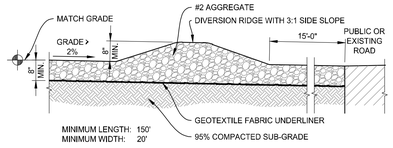


SPECIFICATIONS:

1. INSPECT THE FABRIC BARRIER AFTER STORM EVENTS, AND MAKE NEEDED REPAIRS IMMEDIATELY.
2. REMOVE SEDIMENT FROM THE POOL AREA TO PROVIDE STORAGE FOR THE NEXT STORM. AVOID DAMAGING OR UNDERCUTTING THE FABRIC DURING SEDIMENT REMOVAL.
3. REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION MATERIAL AND SEDIMENT WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. GRADE THE AREA TO THE ELEVATION OF THE TOP OF THE INLET, THEN STABILIZE

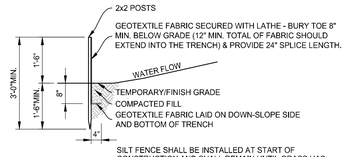
YARD INLET PROTECTION

3 / C5.2 SCALE: 1/2" = 1' - 0"



CONSTRUCTION ENTRANCE

2 / C5.2 SCALE: 1/2" = 1' - 0"



SILT FENCE SHALL BE INSTALLED AT START OF CONSTRUCTION AND SHALL REMAIN UNTIL GRASS HAS GROWN IN AREAS OF PERMANENT EROSION CONTROL AREA.

SPECIFICATIONS:

1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
2. IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT IT'S LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
4. AVOID UNDERMINING THE FENCE DURING CLEANOUT.
5. REMOVE THE FENCE AND SEDIMENT DEPOSITS AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. BRING THE DISTURBED AREA TO GRADE AND STABILIZE.

SILT FENCE

1 / C5.2 SCALE: 1/2" = 1' - 0"

ELEVATUS
ARCHITECTURE
111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802
260.424-9080 Elevatus/Architecture.com

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S2 ARCHITECTS, LLC dba ELEVATUS ARCHITECTURE

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

SEAL 04-26-2023

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hanger
New Corporate Hanger for FWAA

11408 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS

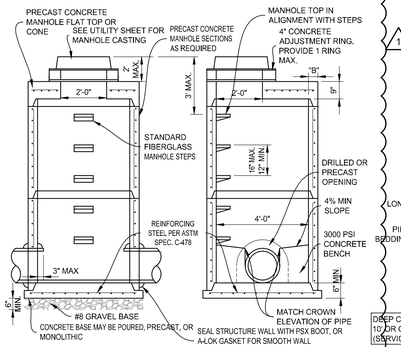
NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 04-26-23
SUBMITTAL 100% CD

Site Erosion Control Details

C5.2

April 24, 2023 11:03 AM
S:\Projects\Projects (5000-5999)\Projects (5800-5899)\5851-FWA Hangar Site\Drawings\Plans\5851-C5 EROSION CONTROL.dwg



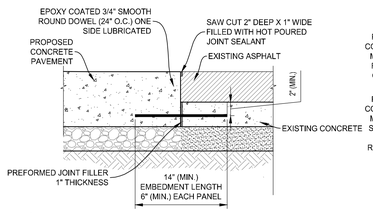
1

GENERAL CONSTRUCTION REQUIREMENTS:

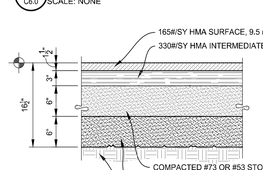
1. MANHOLE MADE IN ACCORDANCE WITH ASTM C-478 AND INDOT SECTION 720 SPECIFICATION STANDARDS.
2. ALL PIPES SHALL HAVE A SMOOTH FINISH
3. MANHOLE JOINTS TONGUE AND GROOVE WITH BUTYL ROPE OR RING IN ACCORDANCE WITH ASTM C-443 AND ASTM C891.
4. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.

WALL THICKNESS	
"A" MH DIA.	"B"
48"	5"
60"	6"
72"	7"
84"	8"
96"	9"
108"	10"
120"	11"

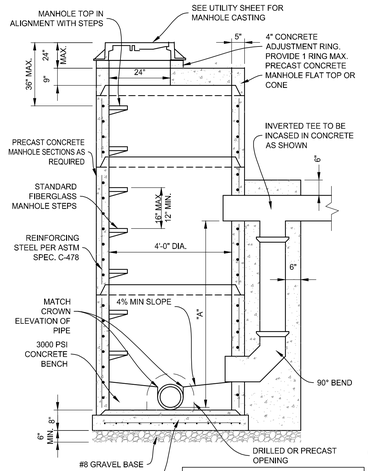
26 C6.0 — SANITARY MANHOLE TYPE I
SCALE: 3/8" = 1'-0"



29 C6.0 — DOWELED BUTT JOINT DETAIL
SCALE: NONE



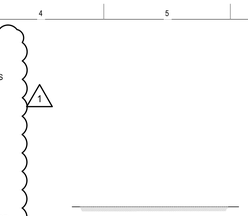
24 C6.0 — PAVEMENT TYPE "A"
SCALE: 1" = 1'-0"



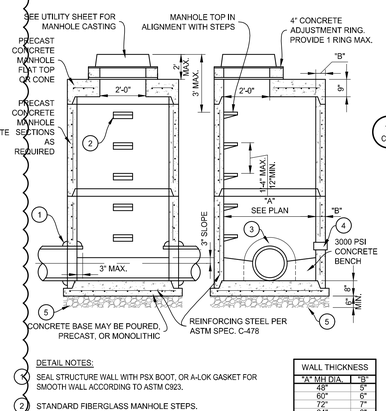
GENERAL CONSTRUCTION REQUIREMENTS:

1. MANHOLE MADE IN ACCORDANCE WITH ASTM C-478 AND INDOT SECTION 720 SPECIFICATION STANDARDS.
2. ALL PIPES SHALL HAVE A SMOOTH FINISH
3. MANHOLE JOINTS TONGUE AND GROOVE WITH BUTYL ROPE OR RING IN ACCORDANCE WITH ASTM C-443 AND ASTM C891.
4. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.

23 C6.0 — SANITARY MANHOLE TYPE IV
SCALE: 1/2" = 1'-0"



22 C6.0 — SANITARY SEWER TAP
SCALE: N.T.S.



DETAIL NOTES:

K SEAL STRUCTURE WALL WITH PSX BOOT, OR A-LOK GASKET FOR SMOOTH WALL ACCORDING TO ASTM C923.
2 STANDARD FIBERGLASS MANHOLE STEPS.
3 DRILLED OR PRECAST OPENING.
4 (2) WEEP PIPES REQUIRED FOR EACH STORM STRUCTURE. PROVIDE FILTER FABRIC OVER WEEP OPENING.
5 #8 GRAVEL BASE.

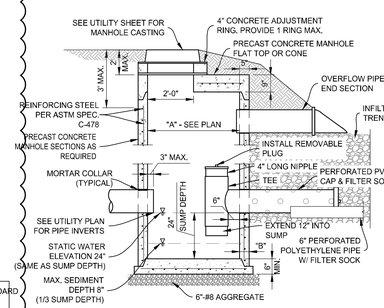
NOTE: BOOTS REQUIRED UNLESS LOCAL COMMUNITY ALLOWS OTHERWISE.

GENERAL CONSTRUCTION REQUIREMENTS:

1. MANHOLE MADE IN ACCORDANCE WITH ASTM C-478 AND INDOT SECTION 720 SPECIFICATION STANDARDS.
2. ALL PIPES SHALL HAVE A SMOOTH FINISH
3. MANHOLE JOINTS TONGUE AND GROOVE WITH BUTYL ROPE OR RING IN ACCORDANCE WITH ASTM C-443 AND ASTM C891.
4. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.

WALL THICKNESS	
"A" MH DIA.	"B"
48"	5"
60"	6"
72"	7"
84"	8"
96"	9"
108"	10"
120"	11"

21 C6.0 — STORM MANHOLE TYPE I
SCALE: 3/8" = 1'-0"



GENERAL CONSTRUCTION REQUIREMENTS:

1. MANHOLE MADE IN ACCORDANCE WITH ASTM C-478 AND INDOT SECTION 720 SPECIFICATION STANDARDS.
2. ALL PIPES SHALL HAVE A SMOOTH FINISH
3. MANHOLE JOINTS TONGUE AND GROOVE WITH BUTYL ROPE OR RING IN ACCORDANCE WITH ASTM C-443 AND ASTM C891.
4. SEE PLAN FOR PIPE SIZES, INVERTS AND LOCATIONS. (MANHOLE MAY HAVE MULTIPLE DOWNTURN PIPE OUTLETS.)

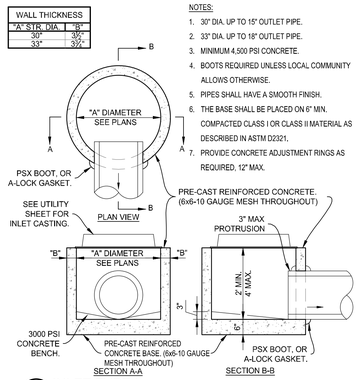
WALL THICKNESS	
"A" MH DIA.	"B"
48"	5"

20 C6.0 — STORM MANHOLE W/ 2' SUMP
SCALE: NONE

WALL THICKNESS	
"A" SIZ. DIA.	"B"
30"	3½"
33"	3½"

NOTES:

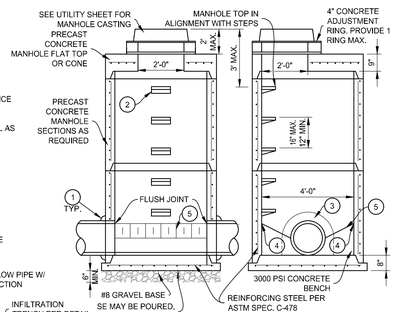
1. 30" DIA. UP TO 15" OUTLET PIPE.
2. 33" DIA. UP TO 18" OUTLET PIPE.
3. MINIMUM 4,500 PSI CONCRETE.
4. BOOTS REQUIRED UNLESS LOCAL COMMUNITY ALLOWS OTHERWISE.
5. PIPES SHALL HAVE A SMOOTH FINISH.
6. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.
7. PROVIDE CONCRETE ADJUSTMENT RINGS AS REQUIRED, 12" MAX.



19 C6.0 — INLET TYPE I
SCALE: 1/2" = 1'-0"

18 C6.0 — NOT USED
SCALE: NONE

17 C6.0 — PVC CLEANOUT
SCALE: N.T.S.



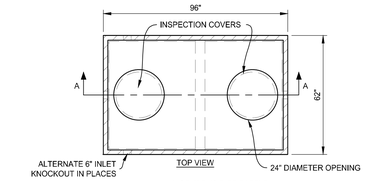
DETAIL NOTES:

1 SEAL STRUCTURE WALL WITH PSX BOOT, OR A-LOK GASKET FOR SMOOTH WALL ACCORDING TO ASTM C923.
2 STANDARD FIBERGLASS MANHOLE STEPS.
3 DRILLED OR PRECAST OPENING.
4 MATCH CROWN ELEVATION OF PIPE.
5 4% MIN. SLOPE TO SPRINGLINE.

GENERAL CONSTRUCTION REQUIREMENTS:

1. MANHOLE MADE IN ACCORDANCE WITH ASTM C-478 AND INDOT SECTION 720 SPECIFICATION STANDARDS.
2. PIPE SHALL BE LAID STRAIGHT THROUGH WITH SPLIT TILE OR BROKEN OUT INSIDE TO SMOOTH FINISH.
3. SHOP DRAWINGS SHALL BE APPROVED PRIOR TO CONSTRUCTION.
4. MANHOLE JOINTS TONGUE AND GROOVE WITH BUTYL ROPE OR RING IN ACCORDANCE WITH ASTM C-443 AND ASTM C891.
5. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.
6. ALL INSIDE JOINTS OF MANHOLE COMPONENTS SHALL BE SMOOTHED WITH MORTAR.
7. MINIMUM DIAMETER OF THROUGH PIPE SHALL BE 6".

16 C6.0 — CONTROL MANHOLE
SCALE: 3/8" = 1'-0"

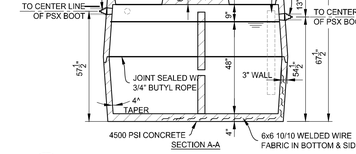


14 C6.0 — PIPE END TREATMENT
SCALE: N.T.S.

CASTING TYPE	CATALOG NUMBER		DESCRIPTION	PLAN VIEW	SECTION VIEW
	NEENAH	EAST JORDAN			
A	LID & FRAME: 1772	LID: 1020AHDGS FRAME: 1022Z1	SOLID W/ "SANITARY SEWER" LETTERING		
B	LID: 2502 FRAME: 1772	LID: 1022-M1 FRAME: 1022	OPEN W/ FISH LOGO		
H	LID & FRAME: 1976	LID & FRAME: 1578	SOLID		

NOTES: 1. CASTINGS SPECIFIED, OR APPROVED EQUAL
2. ALL BEARING SURFACES TO BE MACHINED.
3. COMPLY WITH ASTM A48-83 CLASS #35.

13 C6.0 — CASTING SCHEDULE
SCALE: NONE

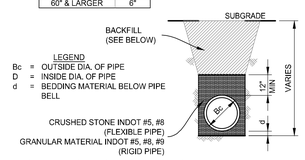


15 C6.0 — OIL SEPARATOR DETAIL
SCALE: 3/8" = 1'-0"

BEDDING SPECIFICATIONS

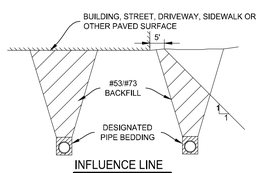
1. FOR ROCK OR OTHER NON-COMPRESSIBLE MATERIAL, THE TRENCH SHALL BE OVER EXCAVATED A MINIMUM OF 6" AND REFILLED WITH BEDDING MATERIAL.
2.

DEPTH OF BEDDING MATERIAL BELOW PIPE D	d(Min.)
LESS THAN 60"	4"
60" & LARGER	6"

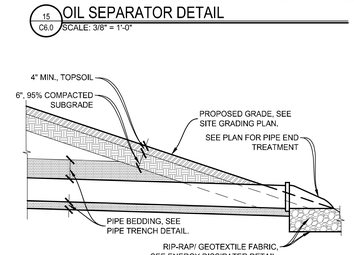


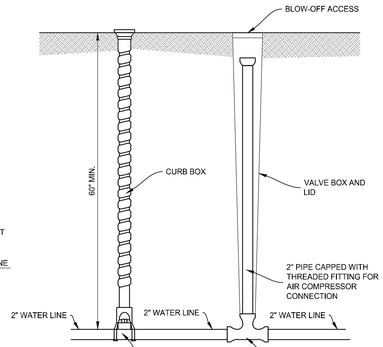
BACKFILL SPECIFICATIONS

1. BACKFILL WITHIN PUBLIC R.O.W., UNDER PAVED AREAS, AND WITHIN THE INFLUENCE OF BUILDING STRUCTURES SHALL BE INDOT #53/#73, INFLUENCE ZONE SHALL EXTEND AT A 1:1 SLOPE FROM ABOVE ITEM. COMPACTION SHALL MEET OR EXCEED 95% OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.
2. BACKFILL WITHIN LAWN AREAS AND OUT OF THE INFLUENCE OF: BUILDING STRUCTURES, PAVED AREAS, AND PUBLIC R.O.W., SHALL BE STANDARD BACKFILL. STANDARD BACKFILL SHALL BE FREE OF: ROCK AND GRAVEL LARGER THAN 3" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATERIAL ACCORDING TO ASTM D 2487. COMPACTION SHALL MEET OR EXCEED 90% OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.

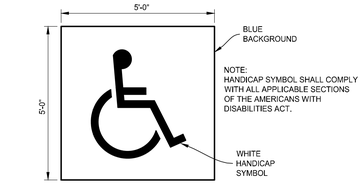


12 C6.0 — PIPE TRENCH DETAIL
SCALE: NONE

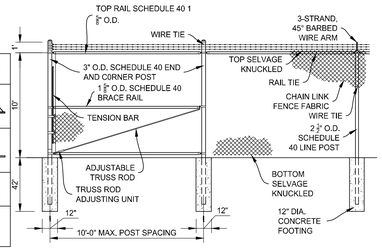




11 C6.0 — BLOW-OFF INSTALLATION
SCALE: NONE



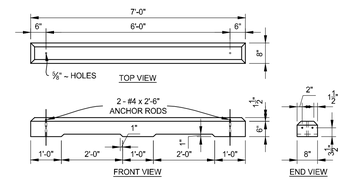
10 C6.0 — PAVEMENT MARKING-HANDICAP
SCALE: 1/2" = 1' - 0"



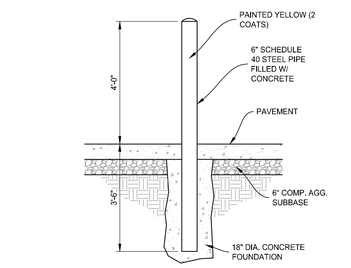
FENCE NOTE:

1. THE CHAIN LINK FENCE SHALL BE 9 GAUGE GALVANIZED CHAIN LINK FABRIC AND SHALL BE COMMERCIAL GRADE.
2. ALL CHAIN LINK POSTS AND ACCESSORIES SHALL BE GALVANIZED.
3. COORDINATE POST SIZE AT SLIDE GATES WITH GATE MANUFACTURER.

9 C6.0 — CHAIN-LINK FENCE
SCALE: NONE

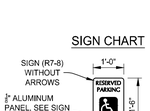


8 C6.0 — CONC. PARKING BUMPER
SCALE: 1/2" = 1' - 0"



7 C6.0 — 6" PIPE BOLLARD
SCALE: 1/2" = 1' - 0"

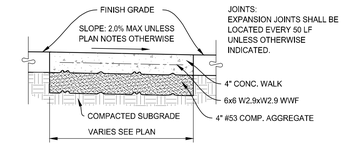
SIGN CHART



NOTES:

1. PROVIDE SIGNS AS PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVISED (MUTCD), LATEST EDITION.
2. HANDICAP SYMBOL SHALL BE BLUE.
3. SIGN SHALL BE FASTENED TO FACE OF BUILDING.

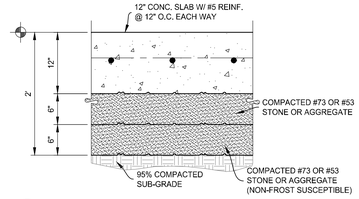
6 C6.0 — HANDICAP SIGN
SCALE: 1/2" = 1' - 0"



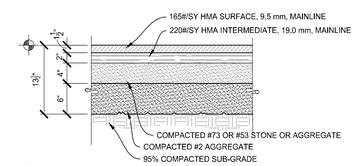
5 C6.0 — 4" CONC. SIDEWALK
SCALE: 1" = 1' - 0"

1. CEMENT TYPE: CLASS A CONCRETE, 4000PSI AT 28 DAYS.
2. DEPTH OF CONCRETE: 4" TYPICAL.
3. EXPANSION JOINTS: ½" THICK PRE-FORMED EXPANSION JOINT MATERIAL WITH BACKER ROD AND SEALANT SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
   A. WHERE NEW SIDEWALK ABUTS AN EXISTING SIDEWALK, DRIVEWAY, OR CURB.
   B. EVERY 50' IN SIDEWALKS THAT ARE 100' OR MORE IN LENGTH.
4. SCORED CONSTRUCTION JOINTS: ½" TO 1½" DEEP AT 5' INTERVALS.
5. CROSS SLOPE: NOT TO EXCEED 2.0%, WITH THE LOWEST PART OF THE SIDEWALK ABOVE THE ADJACENT CURB.
6. SURFACE FINISH: LIGHT BROOM FINISH APPLIED FROM SIDE-TO-SIDE OF THE SIDEWALK.
7. ADA COMPLIANCE: ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
8. CONCRETE SIDEWALK SHALL BE FORMED WITH FORMS, FULL DEPTH, AND NOT EARTH FORMED.

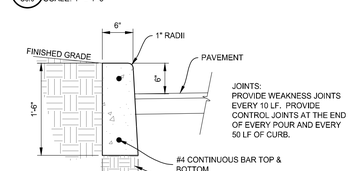
4 C6.0 — SIDEWALK SPECIFICATIONS
SCALE: NONE



3 C6.0 — 12" CONCRETE PAVEMENT
SCALE: 1" = 1'-0"



2 C6.0 — PAVEMENT TYPE "B"
SCALE: 1" = 1'-0"



1 C6.0 — 6" VERTICAL CURB
SCALE: 1" = 1'-0"

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

04-26-2023

MARK D. REINHARD REGISTERED No. 10911278 STATE OF INDIANA PROFESSIONAL ENGINEER

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hanger
New Corporate Hanger for FWAA
11408 West Perimeter Road
Fort Wayne, IN 46809

REVISIONS		
NO.	DESCRIPTION	DATE
1	PR-1	7/21/23

PROJECT NO. 2301700
ISSUE DATE 04-26-23
SUBMITTAL 100% CD

Site Details

C6.0

July 21, 2023 11:03 AM
S:\Projects\Projects (5000-5999)\Projects (5050-5899)\5851-FWA Hangar Site\Drawings\Plans\5851-C6 UTILITY & LAYOUT DETAILS.dwg

DESIGN LOADS

DESIGN IS IN ACCORDANCE WITH:
2012 INTERNATIONAL BUILDING CODE AS AMENDED BY THE 2014 INDIANA BUILDING CODE.
ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

LIVE LOADS:
ROOF LIVE LOAD: 20 PSF

SNOW LOAD
GROUND SNOW LOAD (P_g): 20 PSF
FLAT ROOF SNOW LOAD (P_f): 20 PSF
SNOW EXPOSURE FACTOR (C_e): 1.0
SNOW THERMAL FACTOR (C_t): 1.0
SNOW IMPORTANCE FACTOR (I): 1.0

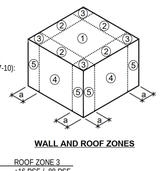
SEISMIC LOAD
OCCUPANCY CATEGORY: II
SEISMIC IMPORTANCE FACTOR (I): 1.0
SEISMIC SITE CLASS: D
S_s: 0.120 S_1: 0.063
S_{DS}: 0.128 S_{D1}: 0.100
SEISMIC DESIGN CATEGORY: B
BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAME NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
SEISMIC RESPONSE COEFFICIENT (C_s): 0.043
RESPONSE MODIFICATION FACTOR (R): 3
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

WIND LOAD
ULTIMATE 3-SECOND WIND SPEED (V): 115 MPH
WIND EXPOSURE: C
INTERNAL PRESSURE COEFFICIENT: +/- 0.18 (ENCLOSED STRUCTURE)
COMPONENT AND CLADDING PRESSURES (STRENGTH LEVEL - ASCE 7-10):

END DIMENSION a = 13 FT

EFFECTIVE AREA	WALL ZONE 4	WALL ZONE 5
10 SF	+32 PSF / -34 PSF	+32 PSF / -42 PSF
50 SF	+29 PSF / -31 PSF	+29 PSF / -36 PSF
100 SF	+27 PSF / -30 PSF	+27 PSF / -33 PSF
500 SF	+24 PSF / -27 PSF	+24 PSF / -27 PSF

EFFECTIVE AREA	ROOF ZONE 1	ROOF ZONE 2	ROOF ZONE 3
10 SF	+16 PSF / -35 PSF	+16 PSF / -58 PSF	+16 PSF / -88 PSF
100 SF	+16 PSF / -32 PSF	+16 PSF / -38 PSF	+16 PSF / -38 PSF



WALL AND ROOF ZONES

NOTES:
a. A 'K' OF 0.85 WAS USED IN THE DEVELOPMENT OF THE VALUES ABOVE; THEREFORE ONLY USE THE VALUES ABOVE IN CONJUNCTION WITH THE LOAD COMBINATIONS SPECIFIED IN SECTION 2.3 AND 2.4 OF ASCE 7-10.
b. PRESSURES AND SUCTION ON SOFFITS SHALL BE THE SAME AS THE CORRESPONDING WALL ZONES 4 AND 5.
c. THE STRENGTH LEVEL (ULTIMATE) PRESSURES SHOWN ABOVE ARE TO BE MULTIPLIED BY 0.6 TO REDUCE THEM DOWN TO SERVICE LEVEL.
d. BASED ON THE OVERALL BUILDING CONDITIONS THAT CREATE THE GREATEST MAGNITUDE PRESSURES.

SUBMITTALS

THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS TO ENABLE ALL PARTS OF THE WORK TO BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. ENGINEERING RESOURCES WILL REVIEW THESE SHOP DRAWINGS FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY. OMISSION OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS FROM SHOP DRAWINGS OR SUBMITTALS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR FURNISHING THESE ITEMS, REGARDLESS OF WHETHER THE ITEM HAS BEEN REVIEWED. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, ACCURACY AND FIT UP OF WORK.

WORK REQUIRING SUBMITTALS FOR STRUCTURAL ENGINEER REVIEW SHALL NOT BE STARTED BY THE CONTRACTOR PRIOR TO APPROVAL OF RELEVANT SUBMITTALS. ALL SUBMITTALS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO FORWARDING TO THE ARCHITECT AND STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY THE FOLLOWING ITEMS AND STAMP THE SUBMITTAL TO VERIFY THAT THESE ITEMS HAVE BEEN ADDRESSED:

1. THE SUBMITTAL IS REQUIRED AND WHERE THE PRODUCT IS USED ON THE PROJECT.
2. THE SUBMITTAL IS BASED ON THE MOST CURRENT DRAWINGS INCLUDING ALL ADDENDA AND APPROVED CHANGES (ASI, PR, ETC.)
3. THE ARCHITECT'S AND STRUCTURAL ENGINEER'S COMMENTS FROM PREVIOUS SUBMITTALS HAVE BEEN ADDRESSED.
4. THE WORK SHOWN ON THE SUBMITTAL HAS BEEN COORDINATED WITH THE WORK OF ALL OTHER TRADES.
5. FOR RESUBMITTALS, REVISIONS FROM PREVIOUS SUBMITTALS ARE CLEARLY IDENTIFIED.
6. THE CONTRACTOR SHALL PROVIDE ALL "FIELD VERIFY" REQUESTS AND DIMENSIONS ON THE SUBMITTALS.
7. THE SUBMITTAL IS COMPLETE.

THE FABRICATOR/SUPPLIER SHALL NEITHER USE NOR REPRODUCE ANY PART OF THE STRUCTURAL DRAWINGS AS PART OF THE SHOP OR ERECTION DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXPEDITING SUBMITTALS IN ORDER TO MEET THE CONSTRUCTION SCHEDULE WHILE ALLOWING 10 BUSINESS DAYS FOR ENGINEER'S REVIEW OF EACH SUBMITTAL. THE CONTRACTOR IS ALSO RESPONSIBLE FOR OBTAINING AND DISTRIBUTING THE MOST CURRENT CONTRACT DOCUMENTS TO SUBCONTRACTORS PRIOR TO PREPARATION OF SUBMITTALS.

PROVIDE SUBMITTALS FOR EACH OF THE FOLLOWING ITEMS:
1. CONCRETE MIX DESIGNS
2. CONCRETE REINFORCING
3. COLUMN ANCHOR BOLT LAYOUT AND DETAILS

SUBMIT DELEGATED DESIGN SUBMITTALS FOR STRUCTURAL ENGINEER OF RECORD REVIEW FOR EACH OF THE FOLLOWING ITEMS:
1. PRE-ENGINEERED METAL BUILDING DESIGN LETTER
2. PRE-ENGINEERED METAL BUILDING FINAL REACTIONS

ALL SUBMITTALS INDICATED AS DELEGATED DESIGN SHALL MEET THE FOLLOWING REQUIREMENTS. SUBMITTALS THAT DO NOT CONTAIN THIS INFORMATION WILL BE REJECTED. THE STRUCTURAL ENGINEER'S LIMITED REVIEW OF DELEGATED DESIGN SUBMITTALS ARE FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT, DESIGN LOADING, AND IMPOSED LOADS ON THE PRIMARY STRUCTURE.

DELEGATED DESIGN SUBMITTALS SHALL INCLUDE DESIGN CALCULATIONS, MEMBER PROPERTIES, FASTENER REQUIREMENTS, ASSEMBLY DETAILS AND CONNECTION DETAILS

DELEGATED DESIGN CALCULATIONS SHALL BE SUBMITTED PRIOR TO, OR INCLUDED WITH, THE ASSOCIATED SHOP DRAWING SUBMITTAL.

THE CONTRACTOR OR THEIR SUPPLIER SHALL EMPLOY OR RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO DESIGN AND DETAIL THE ITEMS NOTED AS A DELEGATED DESIGN. DELEGATED DESIGN CALCULATIONS AND RELATED DRAWINGS SHALL CONTAIN THE FOLLOWING, AS A MINIMUM:

1. COVER PAGE SIGNED AND SEALED BY THE DELEGATED DESIGN STRUCTURAL ENGINEER INCLUDING A STATEMENT OF CERTIFICATION THAT THE SUBMITTED CALCULATIONS ARE IN CONFORMANCE WITH THE DESIGN CRITERIA PROVIDED IN THE CONTRACT DOCUMENTS AND THAT THE RELATED SHOP DRAWINGS ARE IN CONFORMANCE WITH THE SUBMITTED CALCULATIONS.
2. TABLE OF CONTENTS PLACED ON OR IMMEDIATELY FOLLOWING THE COVER SHEET.
3. SUMMARY OF APPLICABLE CODE CRITERIA, LOAD DATA, AND PERFORMANCE CRITERIA AS OUTLINED IN THE CONTRACT DOCUMENTS.
4. CLEAR DEFINITION OF THE LOCATION(S) IN THE STRUCTURE WHERE EACH CALCULATION APPLIES. CROSS REFERENCE THE SHOP DRAWINGS WITH SPECIFIC DETAIL REFERENCES.
5. LOCATION, TYPE, MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON THE STRUCTURE BY THE DELEGATED DESIGN SYSTEM/COMPONENTS ALONG WITH STRUCTURAL DEFLECTIONS THE COMPONENTS ARE ABLE TO ACCOMMODATE.

PRODUCT DATA SUBMITTALS

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL PRODUCT DATA FOR THE SPECIFIC ITEMS LISTED BELOW. CONTRACTOR SHALL NOT USE PRODUCTS OTHER THAN THOSE SUBMITTED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

1. CONCRETE CURING COMPOUND
2. CONCRETE JOINT SEALANT
3. EXPANSION ANCHORS
4. ADHESIVE ANCHORS
5. NON-SHRINK GROUT
6. CONCRETE ACCESSORIES

ALL PRODUCT SUBSTITUTION REQUESTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER IN WRITING AND APPROVED PRIOR TO CONSTRUCTION. ALL SUBSTITUTED PRODUCTS SHALL EXHIBIT EQUAL OR BETTER PERFORMANCE THAN THE SPECIFIED PRODUCT IN ORDER TO BE CONSIDERED FOR APPROVAL BY THE STRUCTURAL ENGINEER.

GENERAL NOTES

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COPIES OF ALL DRAWINGS AND SPECIFICATIONS TO THEIR SUBCONTRACTORS, INCLUDING ALL REVISIONS, AND FOR ENSURING THAT FIELD PERSONNEL HAVE THE MOST CURRENT DRAWINGS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.

DO NOT SCALE DRAWINGS. REFER TO WRITTEN DIMENSIONS AND INFORMATION ON THE DRAWINGS. ALL DATA ON EXISTING CONSTRUCTION SHOWN ON THE STRUCTURAL DRAWINGS IS APPROXIMATE AND IS SHOWN FOR GENERAL REFERENCE BASED ON AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD THAT AFFECT CONSTRUCTION PRIOR TO SHOP DRAWINGS SUBMITTALS OR COMMENCING WORK ON THE AFFECTED ITEMS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL DRAWINGS AND SPECIFICATIONS WITH THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER DISCIPLINES/TRADES ALONG WITH DELEGATED DESIGN ELEMENTS. IF A DISCREPANCY IS FOUND THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR CLARIFICATION AND SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL A WRITTEN RESOLUTION IS PROVIDED BY THE DESIGN TEAM.

ANY CONFLICTS OBSERVED BETWEEN THE WRITTEN SPECIFICATIONS AND THE STRUCTURAL DRAWINGS DURING PROJECT BIDDING OR PROJECT CONSTRUCTION SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER.

THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER DISCIPLINES/TRADES FOR ANCHORED, EMBEDDED AND SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, JOBSITE SAFETY, AND ADHERING TO ALL APPLICABLE SAFETY CODES AND REGULATIONS. SITE OBSERVATION VISITS BY THE ENGINEER AND ENGINEER'S REVIEW OF SUBMITTALS DO NOT INCLUDE REVIEW OF MEANS AND METHODS OR THE CONTRACTOR'S JOBSITE SAFETY PROCEDURES/PROGRAM, NOR DO THEY CONSTRUE ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY FOR THESE ITEMS. SITE OBSERVATION VISITS AND FIELD REPORTS BY THE ENGINEER ARE SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS IN GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ARE NOT MEANT AS AN INSPECTION OR SPECIAL INSPECTION OF THE QUALITY OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY ERECTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND REMOVAL OF ALL TEMPORARY SHORING, SHEETING, TEMPORARY BRACING OR GUYING, AND OTHER MEASURES NEEDED TO MAINTAIN STABILITY OF THE STRUCTURE AT ALL TIMES. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF CRANE AND BUCK HOIST FOUNDATIONS. WHERE ANY OF THESE ITEMS ARE SHOWN ON THE DRAWINGS IT IS FOR CONCEPT ONLY. THE CONTRACTOR SHALL EMPLOY OR ENGAGE A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED TO DESIGN THE ABOVE ITEMS WHERE THEY ARE REQUIRED.

THE CONTRACTOR SHALL NOT NOTCH, CUT OR OTHERWISE MODIFY ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL OF THE ENGINEER, UNLESS SPECIFICALLY DETAILED IN THE DRAWINGS. IF STRUCTURAL MODIFICATIONS ARE REQUIRED, COORDINATE WITH STRUCTURAL ENGINEER PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY STRUCTURAL ELEMENTS.

CONTRACTOR SHALL COORDINATE ELEVATOR PITS, SHAFTS, SLAB OPENINGS, WALL OPENINGS, INCLUDING ANY TEMPORARY OPENINGS NECESSARY FOR ELEVATOR INSTALLATION, FRAMING LOCATIONS, GUIDE RAIL SUPPORTS, DIVIDER BEAMS, HOIST BEAMS AND SUMP PITS WITH ELEVATOR SUPPLIER AND ALL OTHER AFFECTED TRADES PRIOR TO CONSTRUCTION AS REQUIRED FOR PROPER INSTALLATION AND OPERATION.

LOADS IMPOSED ON STRUCTURE AND LOADS SUSPENDED FROM STRUCTURE

THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF ASCE37, ADOPTED EDITION. FOR ASSUMED CONSTRUCTION LIVE LOAD REQUIREMENTS, SEE "DESIGN LOADS". IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF ANY STRUCTURAL ELEMENT AT THE TIME THE LOADS ARE APPLIED, INCLUDING BUT NOT LIMITED TO: WEIGHTS OF MATERIALS, WEIGHTS OF EQUIPMENT AND WORKERS, AND ALL LOADS APPLIED FROM TEMPORARY LIFTS, HOISTS AND CRANES, ETC.

LOADS IMPOSED ON THE STRUCTURE BY CONSTRUCTION EQUIPMENT AND BUILDING SYSTEMS (CURTAIN WALLS, STAIRS, ELEVATORS, DUCTWORK, PIPING, MEP EQUIPMENT, CLADDING, AND ANY OTHER ITEMS) SHALL IMPART HORIZONTAL LOADS ONLY AT FLOOR AND ROOF DIAPHRAGMS AND MAY NOT CAUSE A TORSIONAL LOAD ON ANY COMPONENT OF THE STRUCTURE UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS. VERTICAL LOADS IMPOSED BY THESE ITEMS SHALL NOT OVERLOAD OR CAUSE EXCESS DEFLECTION IN ANY STRUCTURAL COMPONENT. SUBMITTALS FOR THESE ITEMS SHALL LIST ALL LOADS IMPOSED ON THE PRIMARY STRUCTURE FOR REVIEW BY STRUCTURAL ENGINEER.

THE CONTRACTOR SHALL COORDINATE AND PROVIDE SUPPLEMENTAL SUPPORT FRAMING FOR ITEMS SUSPENDED FROM THE STRUCTURE INCLUDING, BUT NOT LIMITED TO, CEILINGS, LIGHTS, PIPING, DUCTWORK, MEP EQUIPMENT, CONDUIT, ETC. SUPPLEMENTAL FRAMING SHALL DISTRIBUTE THE LOADING TO PRIMARY FRAMING MEMBERS TO AVOID LARGE POINT LOADS ON INDIVIDUAL STRUCTURAL COMPONENTS. LOADS SHALL NOT BE SUPPORTED FROM STEEL ROOF DECK OR STEEL FORM DECK. LOADS SUSPENDED FROM HANGER TABS OR POST INSTALLED ANCHORS FROM BOTTOM OF COMPOSITE FLOOR DECK SHALL NOT EXCEED 50 POUNDS AT ANY LOCATION.

DISSIMILAR METALS

DISSIMILAR METALS SHALL BE ELECTRICALLY ISOLATED TO PREVENT GALVANIC CORROSION USING NON-CONDUCTIVE WASHERS, SLEEVES, GASKETS, COATINGS OR OTHER METHODS APPROVED BY THE STRUCTURAL ENGINEER.

SUBGRADE, EXCAVATION, & BACKFILL

A SUBSURFACE SOIL INVESTIGATION WAS COMPLETED BY ALT & WITZIG ENGINEERING, INC. ON NOVEMBER 7, 2022. ENGINEERING RESOURCES, INC. HAS RELIED EXCLUSIVELY ON THE CONTENTS AND RECOMMENDATIONS WITHIN THIS REPORT BUT ACCEPTS NO RESPONSIBILITY FOR ITS CONTENTS OR ACCURACY.

THE DESIGN NET ALLOWABLE SOIL BEARING CAPACITY IS 3000 PSF FOR COLUMN FOOTINGS AND 3000 PSF FOR CONTINUOUS STRIP FOOTINGS. THE CONTRACTOR SHALL HIRE A REGISTERED GEOTECHNICAL ENGINEER TO VERIFY THE BEARING CAPACITY OF THE SOIL MEETS OR EXCEEDS THE REQUIRED BEARING CAPACITY.

ALL SPREAD FOOTINGS SHALL REST ON DRY, UNDISTURBED SOIL OR COMPACTED ENGINEERED FILL AT THE DEPTHS INDICATED. ALL UNSUITABLE MATERIAL, INCLUDING TOPSOIL, EXISTING FILL, ORGANIC MATERIAL, AND FROZEN, WET, SOFT, OR LOOSE MATERIAL, SHALL BE REMOVED AND REPLACED ACCORDING TO THE SOILS REPORT.

THE CONTRACTOR SHALL FOLLOW SPECIFICATIONS AND SOILS REPORT FOR:
SUBGRADE AND GRADE PREPARATION FOR FILL, FOUNDATIONS, AND FLOOR SLABS
SELECTION, PLACEMENT AND COMPACTION OF FILL SOILS

FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT, SHALL BE REPORTED TO THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.

EXCAVATIONS FOR ALL FOUNDATIONS SHALL BE CLEANED AND SHALL BE PROTECTED AND MAINTAINED UNIFORM UNTIL CONCRETE IS PLACED.

FOOTINGS SHALL BE PLACED THE SAME DAY EXCAVATIONS ARE OPENED. OTHERWISE ADEQUATELY PROTECT THE EXPOSED MATERIAL IN THE BASE OF THE FOOTING EXCAVATIONS FROM ANY DETRIMENTAL CHANGE IN CONDITION, INCLUDING DISTURBANCE, RAIN, OR FREEZING. SURFACE RUNOFF SHALL NOT BE ALLOWED TO ENTER THE EXCAVATIONS.

THE SUBGRADE FOR ALL FOUNDATIONS AND SLABS SHALL BE INSPECTED AND APPROVED BY GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACING FOUNDATION CONCRETE. CONCRETE SHALL NOT BE PLACED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER.

AFTER CONCRETE PLACEMENT, PROVIDE MEASURES AS REQUIRED TO PREVENT WATER PENETRATION INTO THE FOUNDATION SUBGRADES UNTIL BACKFILLING AROUND FOUNDATIONS IS COMPLETE.

AFTER FOUNDATION CONSTRUCTION IS COMPLETE, PROPERLY PLACE AND COMPACT BACKFILL MATERIAL. ON BOTH SIDES OF BELOW-GRADE WALLS, BACKFILL EVENLY ON EACH SIDE OF EACH WALL TO PREVENT UNBALANCED SOIL LOADS AGAINST THE WALL.

CAST-IN-PLACE CONCRETE NOTES

REINFORCED CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE ADOPTED EDITION OF THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318) AND COMMENTARY (ACI 318R).

CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, SPACED IN FORMS, AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE ADOPTED EDITIONS OF THE FOLLOWING STANDARDS: ACI 301, ACI 315, ACI 318, ACI DETAILING MANUAL (SP66), AND CRSI MANUAL OF STANDARD PRACTICE.

MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO THE ADOPTED EDITION OF THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301). READY-MIXED CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C94. IN CASE OF A DISCREPANCY, THE PLANS AND SPECIFICATIONS SHALL GOVERN.

CONCRETE PLACEMENT SHALL COMPLY WITH THE GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE (ACI 304), FOR PLACING CONCRETE IN A CONTINUOUS OPERATION WITHIN PLANNED JOINTS OR SECTIONS. DO NOT BEGIN CONCRETE PLACEMENT UNTIL OTHER AFFECTED WORK IS COMPLETED.

IN COLD WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE ADOPTED EDITION OF ACI 306R, COLD WEATHER CONCRETING. WINTER CONSTRUCTION: INTERIOR FOOTINGS ARE NOT BEARING BELOW FROST DEPTH. IF THE BUILDING IS NOT ENCLOSED PRIOR TO WINTER THE CONTRACTOR SHALL PROTECT THESE ELEMENTS TO PREVENT THE SUBGRADE BELOW FROM FREEZING. IF THIS IS NOT FEASIBLE, THESE FOOTINGS SHALL BE OVER-EXCAVATED AT LEAST 36" BELOW GRADE AND LEAN CONCRETE PLACED UP TO BEARING ELEVATION.

IN HOT WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE ADOPTED EDITION OF ACI 305R, HOT WEATHER CONCRETING.

QUALITY ASSURANCE SHALL COMPLY WITH PROVISIONS OF SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301), HOT WEATHER CONCRETING (ACI 305), COLD WEATHER CONCRETING (ACI 306), BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), AND CRSI "MANUAL OF STANDARD PRACTICE."

SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ADOPTED EDITION OF THE GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1R).

THE CONTRACTOR SHALL SUBMIT FOR REVIEW BY THE STRUCTURAL ENGINEER A MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE. EACH MIX DESIGN SHALL BE IDENTIFIED BY A MIX NUMBER OR OTHER UNIQUE IDENTIFICATION. THE CONTRACTOR SHALL NOT VARY FROM THE MIX DESIGNS NOR USE ANY CONCRETE OTHER THAN THE APPROVED MIX DESIGNS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

THE CONTRACTOR SHALL SUBMIT STEEL REINFORCEMENT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL INCLUDE SECTIONS, DETAILS, ELEVATIONS, ETC. AS REQUIRED TO CLEARLY SHOW THE PLACEMENT OF ALL REINFORCING.

REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BAR UNLESS OTHERWISE NOTED.

REINFORCING STEEL ASTM A706, GRADE 60, DEFORMED BAR SHALL BE USED WHERE REINFORCING STEEL REQUIRES WELDING (LOCATIONS NOTED ON THE DRAWING OR APPROVED BY THE STRUCTURAL ENGINEER). WELDING OF REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF AMERICAN WELDING SOCIETY STANDARD D1.4. E90 ELECTRODES FOR SHOP AND FIELD WELDING OF REINFORCING STEEL SHALL COMPLY WITH AWS D1.4.

REINFORCEMENT SHALL BE SUPPORTED IN ITS SPECIFIED AND PROPER POSITION BY USE OF BRICKS, WIRES, OR CHAIRS. SUCH DEVICES SHALL BE SUFFICIENTLY STRONG AND PROPERLY PLACED AT FREQUENT INTERVALS SO AS TO MAINTAIN THE COVER BETWEEN THE REINFORCING AND THE SURFACE OF THE CONCRETE. THE REINFORCEMENT SHALL BE PLACED AS SHOWN ON THE DRAWINGS WITHIN ±1/4". DESIGN OF THE SUPPORT SYSTEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT WHERE SHOWN ON THE DRAWINGS OR OTHERWISE APPROVED.

ALL REINFORCING BARS ARE DEFORMED AND CONTINUOUS, UNLESS NOTED OTHERWISE.

WET STICKING (MUCKING IN) OF REINFORCEMENT IS NOT ACCEPTABLE.

WELDED WIRE REINFORCEMENT SHALL BE SMOOTH WIRE FABRIC CONFORMING TO ASTM A1064. REINFORCEMENT SHALL BE SUPPLIED IN FLAT SHEETS AND LAPPED A MINIMUM OF ONE SPACE PLUS 2 INCHES. ALL WELDED WIRE FABRIC SHALL BE SUPPORTED ON CONCRETE BRICKS, WIRE, OR CHAIRS. WELDED WIRE FABRIC SHALL NOT BE LIFTED INTO PLACE DURING CONCRETE PLACEMENT.

WELDED WIRE REINFORCEMENT SHALL BE PLACED AS FOLLOWS, UNLESS NOTED OTHERWISE:
SLABS ON GRADE: 2.5" DOWN FROM TOP OF SLAB

COORDINATE EMBED PLATE LOCATIONS AND SIZES WITH STRUCTURAL DETAILS AND ELEVATIONS. INSERTS AND EMBEDMENTS SHALL BE ANCHORED SECURELY AND POSITIONED SO THAT THEY WILL BE FLUSH WITH THE FINISHED CONCRETE SURFACE TO A TOLERANCE OF 1/8 INCH, UNLESS NOTED OTHERWISE. COORDINATE WITH ALL TRADES FOR THE INSTALLATION OF ALL REQUIRED SLEEVES AND INSERTS.

FOR UNDERGROUND UTILITIES ADJACENT TO FOUNDATIONS AND THROUGH FOUNDATIONS SEE TYPICAL STEP FOOTING DETAIL SHOWING STEPS IN FOOTINGS AS REQUIRED TO AVOID UNDERMINING OF STRUCTURE BY UTILITIES.

DO NOT INSTALL OR EMBED ALUMINUM ITEMS, INCLUDING BUT NOT LIMITED TO ALUMINUM CONDUIT, SLEEVES, OR EMBEDS, INTO OR IN CONTACT WITH CONCRETE.

PROVIDE SLEEVES AND BLOCKOUTS AS SHOWN ON THE APPROVED MECHANICAL, ELECTRICAL, FIRE PROTECTION AND PLUMBING SHOP DRAWINGS IN ACCORDANCE WITH THE STRUCTURAL DETAILS.

COORDINATE FLOOR DRAINS AND SLOPES WITH ARCHITECTURAL & PLUMBING PLANS. VERIFY ALL ELEVATIONS PRIOR TO CONCRETE PLACEMENT.

SEE ARCHITECTURAL DRAWINGS FOR FOUNDATION INSULATION REQUIREMENTS. ANY INSULATION SHOWN ON THE STRUCTURAL DRAWINGS IS FOR GENERAL VISUAL REFERENCE ONLY, UNLESS NOTED OTHERWISE. SEE THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATION, PLACEMENT, THICKNESS AND MATERIAL REQUIREMENTS.

DESIGN FORMWORK TO COMPENSATE FOR DEFLECTION OF FORMS UNDER THE WET WEIGHT OF CONCRETE AS REQUIRED TO ACHIEVE THE SPECIFIED TOLERANCES.

CONCRETE SHALL NOT BE PLACED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER.

WHERE NEW CONCRETE IS PLACED AGAINST HARDENED/EXISTING CONCRETE, VERIFY SOUNDNESS OF EXISTING CONCRETE AND REMOVE ALL LOOSE MATERIAL, SNOW, ICE, FROST, WATER, SOIL, DEBRIS AND OTHER DETRIMENTAL MATERIALS PRIOR TO PLACEMENT OF NEW CONCRETE. THE EXISTING CONCRETE SHALL BE ROUGHENED TO A MINIMUM 1/4" AMPLITUDE AND MOISTENED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.

CONSTRUCTION JOINTS SHALL BE LOCATED ONLY IN ACCORDANCE WITH APPROVED SHOP DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS SHALL BE PLACED IN FOOTINGS, FOUNDATION WALLS, PIERS, MAT FOUNDATIONS, TIE BEAMS, OR SLABS, UNLESS SHOWN ON DRAWINGS. VERTICAL CONSTRUCTION JOINTS IN STRIP FOOTINGS AND FOUNDATION WALLS MAY BE LOCATED AT THE DISCRETION OF THE CONTRACTOR SUBJECT TO REVIEW BY THE ENGINEER. UNLESS SPECIFICALLY NOTED OTHERWISE REINFORCING SHALL BE CONTINUOUS ACROSS JOINTS.

CONCRETE EDGES EXPOSED IN FINAL CONDITION SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.

CURING PROCEDURES SHALL COMPLY WITH ACI 302.1R AND USE OF CURING MATERIALS SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

PROVIDE CURING OF CONCRETE SLABS AS REQUIRED TO ACCOMMODATE FLOOR FINISHES AND FINISH MATERIALS PER THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. REVIEW ALL FLOOR FINISH REQUIREMENTS PRIOR TO PLACEMENT OF CONCRETE SLABS AND COORDINATE SLAB MIX, PLACEMENT AND CURING TO COMPLY WITH FINISH FLOORING MATERIAL MANUFACTURER'S REQUIREMENTS.

CONTRACTOR SHALL REVIEW ALL REQUIRED FLOOR FINISH MATERIAL REQUIREMENTS PRIOR TO PLACEMENT OF CONCRETE AND SHALL PROVIDE FLOOR SLAB FLATNESS AND LEVELNESS MEETING THE FINISH MATERIAL SUPPLIER'S WRITTEN REQUIREMENTS.

PRE-ENGINEERED METAL BUILDING NOTES

THE PRE-ENGINEERED METAL BUILDING (PEMB) MANUFACTURER SHALL BE ACCREDITED ACCORDING TO THE INTERNATIONAL ACCREDITATION SERVICE'S AC472. A WRITTEN LETTER OF CERTIFICATION SHALL BE PREPARED AND SIGNED BY A QUALIFIED PROFESSIONAL ENGINEER WHO IS REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED VERIFYING THAT THE BUILDING SYSTEM DESIGN AND METAL ROOF SYSTEM DESIGN MEET THE INDICATED LOADING REQUIREMENTS AND CODES OF AUTHORITIES HAVING JURISDICTION. THE CERTIFICATION MUST REFERENCE SPECIFIC DEAD LOADS, LIVE LOADS, SNOW LOADS, WIND LOADS AND SPEEDS, TRIBUTARY AREA LOAD REDUCTIONS (IF APPLICABLE), CONCENTRATED LOADS, COLLATERAL LOADS, SEISMIC LOADS, END USE CATEGORIES, GOVERNING CODE BODIES INCLUDING YEAR, AND LOAD APPLICATIONS.

THE STRUCTURAL DESIGN FOR THE BUILDING STRUCTURAL SYSTEM SHALL BE PROVIDED BY THE BUILDING MANUFACTURER IN COMPLIANCE WITH THE BUILDING CODE LISTED IN "DESIGN LOADS".

PEMB DESIGN LOADS:

DEAD LOAD
INCLUDES THE WEIGHT OF THE BUILDING SYSTEM CONSTRUCTION, SUCH AS FLOOR SLAB, ROOF DECK, AND ALL FRAMING MEMBERS.

COLLATERAL LOAD (INCLUDES MEP)
ROOF: 10 PSF FOR BOTH PRIMARY AND SECONDARY MEMBERS

LIVE LOAD:
ROOF: 20 PSF

SNOW LOAD
THE SNOW LOAD SHALL BE USED FOR DESIGN IF IT EXCEEDS THE MINIMUM LIVE LOAD.
SEE "DESIGN LOADS" FOR SNOW LOADING PARAMETERS. DESIGN SHALL ACCOUNT FOR DRIFTING SNOW.
C_s NEEDS TO BE FOR "ALL OTHER SURFACES" IN ASC

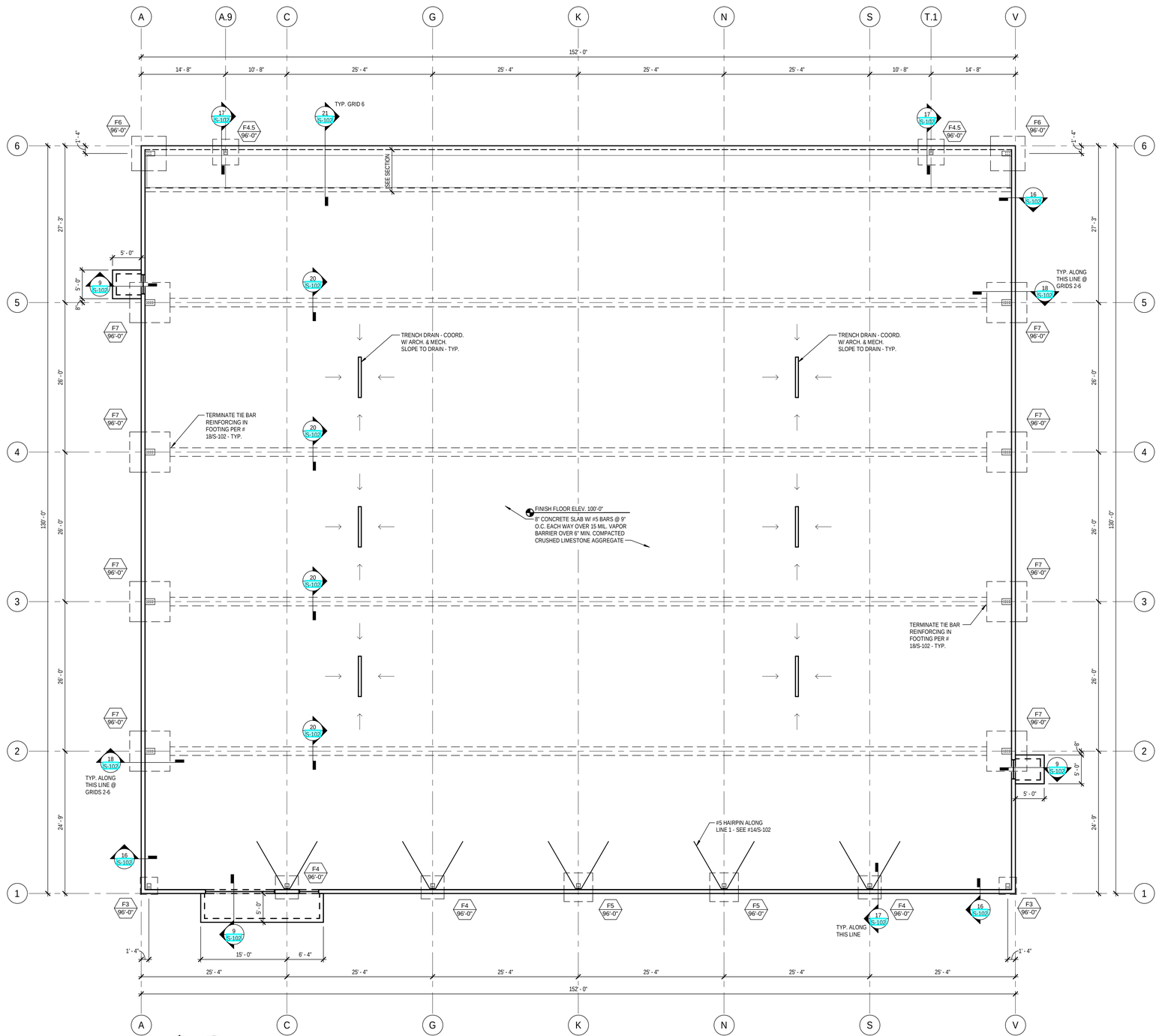
PLAN NOTES THIS SHEET:

1. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND WALL CONSTRUCTION INFORMATION.
2. REFER TO ARCHITECTURAL SECTIONS AND DETAILS FOR FOUNDATION INSULATION REQUIREMENTS.
3. NO HORIZONTAL CONSTRUCTION / COLD JOINTS, OTHER THAN THOSE SHOWN IN THE FOUNDATION DETAILS, ARE ALLOWED IN THE FOUNDATION UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
4. COORDINATE REQUIRED PIPE SLEEVES WITH CIVIL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS.
5. LOWER FOOTING AS REQD. AT UNDERGROUND UTILITIES PER #/S-102 (TYP.) THAT WOULD OTHERWISE PASS THROUGH THE FOOTING.
6. FOR PIPES THAT PASS BELOW STRIP FOOTINGS AND THICKENED SLABS, PLACE PIPE IN A PIPE SLEEVE THAT IS 2 SIZES LARGER AND FILL VOIDS BETWEEN PIPE AND SLEEVE WITH A COMPRESSIBLE MATERIAL AS REQUIRED BY THE PLUMBING CODE. SEE CIVIL AND PLUMBING DRAWINGS.
7. SEE S-102 FOR TYPICAL CONSTRUCTION AND CONTROL JOINTS DETAILS IN SLABS ON GRADE.
8. PRE-ENGINEERED METAL BUILDING FOUNDATIONS: ALL PEMB FOOTINGS ARE BASED ON PRELIMINARY REACTIONS. CONTRACTOR SHALL PROVIDE FINAL REACTIONS TO ENGINEERING RESOURCES, INC. PRIOR TO CONSTRUCTION TO VERIFY FOOTING AND PIER SIZES. PEMB MANUFACTURER SHALL DETERMINE QUANTITY, LOCATION, PROJECTION, AND DIAMETER OF ALL ANCHOR BOLTS AT PEMB COLUMNS. PEMB ANCHOR BOLT EMBEDMENT WILL BE DETERMINED AFTER FINAL REACTIONS ARE SUBMITTED. CONTRACTOR SHALL CENTER ALL PEMB FOOTINGS ON THE PEMB COLUMNS, UNLESS DIMENSIONED OTHERWISE ON THE PLANS.
9. VERIFY ALL STOOP LOCATIONS, DIMENSIONS, AND JOINT PATTERNS WITH CIVIL AND ARCH. LAYOUT PRIOR TO CONCRETE PLACEMENT.
10. COORDINATE CONCRETE FLOOR SLAB FINISH WITH ARCHITECTURAL DRAWINGS.

FOOTING SCHEDULE

MARK	SIZE	REINFORCING (BOTTOM U.N.O.)
F3	3'-0" X 3'-0" X 40"	4 - #6 X 2'-6" BARS EACH WAY, TOP AND BOTTOM
F4	4'-0" X 4'-0" X 40"	5 - #6 X 3'-6" BARS EACH WAY, TOP AND BOTTOM
F4.5	4'-6" X 4'-6" X 40"	5 - #6 X 4'-0" BARS EACH WAY, TOP AND BOTTOM
F5	5'-0" X 5'-0" X 40"	6 - #6 X 4'-6" BARS EACH WAY, TOP AND BOTTOM
F6	6'-0" X 6'-0" X 40"	7 - #6 X 5'-6" BARS EACH WAY, TOP AND BOTTOM
F7	7'-0" X 7'-0" X 40"	8 - #6 X 6'-6" BARS EACH WAY, TOP AND BOTTOM

F1 — MARK
96' - 0" — BOTTOM OF FOOTING ELEVATION (M.E. = MATCH EXISTING)



1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"
North

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

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S2 ARCHITECTS, LLC dba ELEVATUS ARCHITECTURE

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

SEAL

DANIEL J. SCHENKEL
REGISTERED
No. 19700114
STATE OF INDIANA
PROFESSIONAL ENGINEER
04/26/2023

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority
11408 West Perimeter Road Fort Wayne, IN 46809

REVISIONS

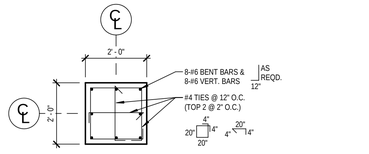
NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 04-26-2023
SUBMITTAL 100% CD

FOUNDATION PLAN

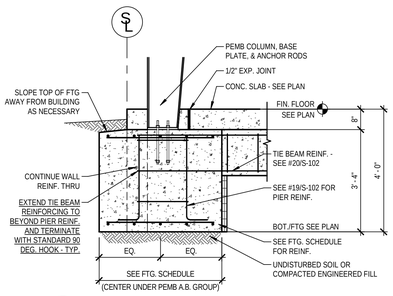
S-101

4/21/2023 11:14:47 PM
Autodesk Docs://FAA Corporate Hangar/NEW_FAA Hangar_Structural_v21.rvt



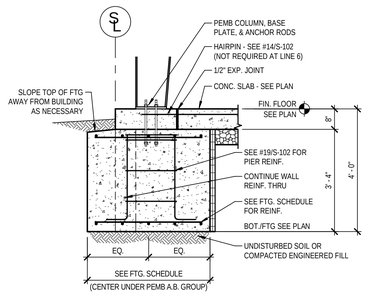
19 PIER PLAN

SCALE: 1/2" = 1'-0"



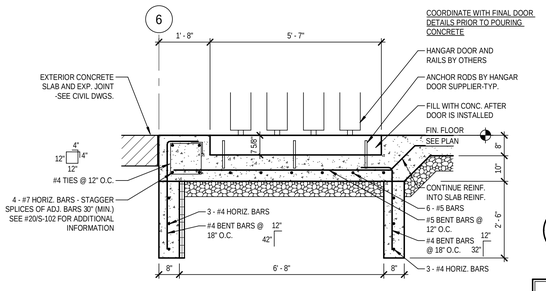
18 FOUNDATION DETAIL

SCALE: 1/2" = 1'-0"



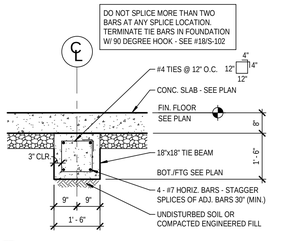
17 FOUNDATION DETAIL

SCALE: 1/2" = 1'-0"



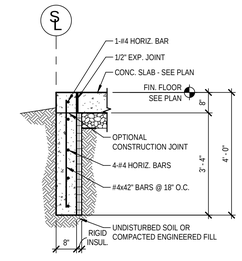
21 FOUNDATION DETAIL

SCALE: 1/2" = 1'-0"



20 FOUNDATION DETAIL

SCALE: 1/2" = 1'-0"

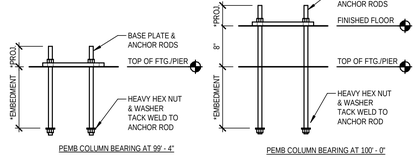


16 FOUNDATION DETAIL

SCALE: 1/2" = 1'-0"

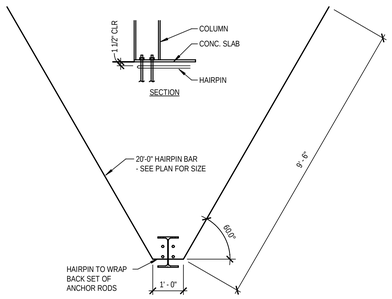
ANCHOR ROD SCHEDULE				
LOCATION	DIAMETER	EMBEDMENT	PROJECTION	MATERIAL
PEMB COLUMNS	3/4"	12"	BY PEMB	F1554 GR 55 W/ SUPPLEMENT S1
	1"	16"	BY PEMB	
	1 1/4"	20"	BY PEMB	

NOTES:
1. *PEMB MANUFACTURER SHALL DETERMINE QUANTITY, LOCATION, PROJECTION, AND DIAMETER OF ALL ANCHOR RODS AT PEMB COLUMNS.
2. ANCHOR RODS EXPOSED TO WEATHER OR EARTH TO BE GALVANIZED.
3. FOR ANCHOR ROD PATTERNS AND QUANTITIES SEE PEMB DRAWINGS.



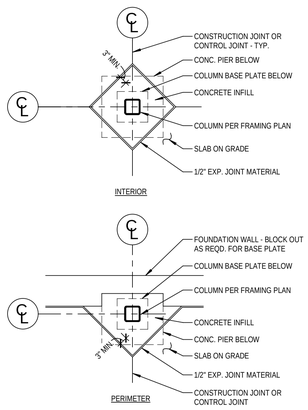
15 ANCHOR ROD DETAIL

SCALE: 1" = 1'-0"



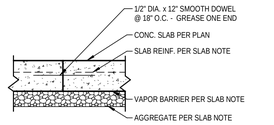
14 HAIRPIN DETAIL

SCALE: 1/2" = 1'-0"



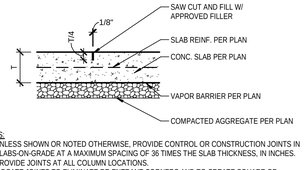
13 TYP. COLUMN ISOLATION JOINT

SCALE: 1/2" = 1'-0"



12 SLAB CONST. JOINT DETAIL

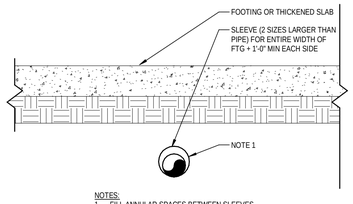
SCALE: 1" = 1'-0"



NOTES:
1. UNLESS SHOWN OR NOTED OTHERWISE, PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS-ON-GRADE AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS, IN INCHES.
2. PROVIDE JOINTS AT ALL COLUMN LOCATIONS.
3. LOCATE JOINTS TO ELIMINATE RE-ENTRANT CORNERS AND TO CREATE SQUARE OR RECTANGULAR SECTIONS WITH MAXIMUM LONG SIDE TO SHORT SIDE RATIO OF 1.5 TO 1.
4. GENERAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF CONTROL AND CONSTRUCTION JOINTS WITH ARCHITECTURAL FLOOR FINISHES TO ENSURE SLAB JOINTS DO NOT READ THROUGH.
5. UNLESS SPECIFICALLY NOTED ON THE DRAWINGS, CONTROL JOINTS ARE NOT PERMITTED FOR ELEVATED SLABS ON METAL DECK AND ELEVATED CONCRETE SLABS.

11 SLAB SAW JOINT DETAIL

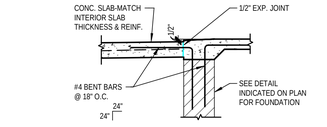
SCALE: 1" = 1'-0"

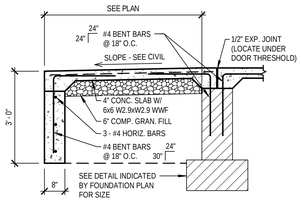


NOTES:
1. FILL ANNULAR SPACES BETWEEN SLEEVES AND PIPES WITH A COMPRESSIBLE MATERIAL AS REQUIRED BY THE PLUMBING CODE.
2. PIPE MUST BE 90° TO WALL FTG.

10 FOUNDATION DETAIL

SCALE: 1 1/2" = 1'-0"

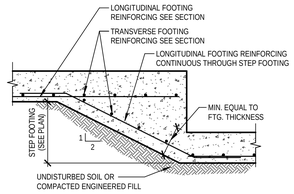




9 STOOP DETAIL

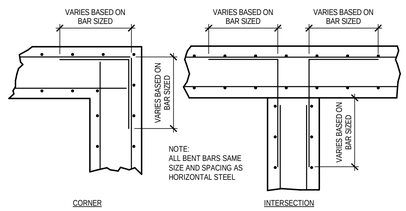
SCALE: 1/2" = 1'-0"

NOTE: INCREASE LENGTH & QUANTITY OF WALL REINFORCING AS REQUIRED AT FOOTING STEP



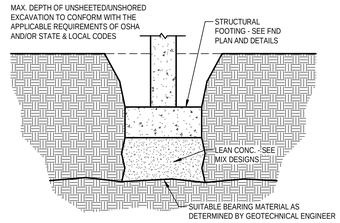
8 FOOTING STEP DETAIL

SCALE: 1/2" = 1'-0"



7 CONC. CORNER & INTERSECTION

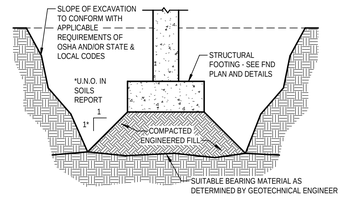
SCALE: 1/2" = 1'-0"



SEE SOILS REPORT AND NOTES ON S-001 FOR ADDITIONAL INFORMATION.

6 FOUNDATION DETAIL

SCALE: 1/2" = 1'-0"



SEE SOILS REPORT AND NOTES ON S-001 FOR ADDITIONAL INFORMATION.

5 FOUNDATION DETAIL

SCALE: 1/2" = 1'-0"

SHEET NOTES:
1. REFER TO ARCHITECTURAL SECTIONS AND DETAILS FOR FOUNDATION INSULATION REQUIREMENTS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR FOUNDATION DRAIN LOCATIONS AND INFORMATION.

SLAB ON GRADE FLATNESS / LEVELNESS SCHEDULE				
SLAB CLASSIFICATION	OVERALL FF	OVERALL FL	MIN LOCAL FF	MIN LOCAL FL
MODERATELY FLAT	25	20	17	15
FLAT	35	25	24	17
VERY FLAT	45	35	30	24

FLOOR TYPE / LOCATION	SLAB CLASSIFICATION
EXPOSED UTILITY/MECHANICAL AREAS (U.N.O.)	MODERATELY FLAT
WAREHOUSE WITH MODERATE TO HEAVY TRAFFIC	FLAT
WAREHOUSE WITH AIR-PALLET, HIGH SPEED FORKLIFTS	VERY FLAT

NOTES:
1. GENERAL CONTRACTOR SHALL REVIEW ALL FLOOR FINISH REQUIREMENTS FOR THE PROJECT AND PROVIDE CONCRETE SLAB SURFACE FINISHES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFIED FLOOR FINISH MATERIALS. WHERE TOLERANCES FOR THE FLOOR FINISH MATERIALS DIFFER FROM THIS SCHEDULE, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

4 SLAB ON GRADE FF & FL SCHED.

SCALE: 1/8" = 1'-0"

CONCRETE REINFORCING BAR LAP SPLICE LENGTHS (NOTE 1)											
STRUCTURE		MIN. COVER	MIN. SPACING (NOTE 3)	BAR SIZES							
ELEMENT	BARS (NOTE 2)			#3	#4	#5	#6	#7	#8	#9	#10	#11
COLUMN FOOTINGS	HORIZ. BARS	NOTE 7	NA	DO NOT SPLICE BARS (U.N.O. ON PLANS)								
WALL FOOTINGS (NOTE 4)	TRANSVERSE BARS	NOTE 7	NA	DO NOT SPLICE BARS (U.N.O. ON PLANS)								
	LONGITUDINAL BARS	NOTE 7	6"	17"	23"	28"	34"	49"	56"	69"	85"	102"
MAT FND (NOTE 4)	HORIZ. BARS	NOTE 7	6"	17"	23"	28"	34"	49"	56"	69"	85"	102"
FOUNDATION WALLS (NOTE 5)	HORIZ. BARS	NOTE 7	6"	15"	20"	24"	29"	42"	48"	60"	74"	89"
	VERTICAL BARS	NOTE 7	6"	12"	15"	19"	22"	33"	37"	46"	57"	68"
PIERS	VERTICAL BARS	2"	4"	12"	15"	19"	22"	37"	47"	70"	79"	87"
RETAINING WALLS	HORIZ. BARS	NOTE 7	6"	15"	20"	24"	29"	42"	48"	60"	74"	89"
	VERTICAL BARS	NOTE 7	6"	12"	15"	19"	22"	33"	37"	46"	57"	68"
TIE BEAMS	HORIZ. BARS	2"	4"	15"	20"	24"	29"	48"	60"	91"	102"	113"
SLAB ON GRADE	HORIZ. BARS	1"	3"	12"	15"	22"	31"	50"	62"	NA	NA	NA

NOTES:
1. TABULATED VALUES ASSUME:
   - CONCRETE COMPRESSIVE STRENGTH AS SPECIFIED IN THE CONCRETE DESIGN MIX SCHEDULE.
   - NORMAL-WEIGHT CONCRETE.
   - UNCOATED REINFORCEMENT CONFORMING TO ASTM A615 GRADE 60.
2. TOP BARS REFER TO HORIZ. LAP SPLICES OF BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW.
3. IN ADDITION, MINIMUM CLEAR SPACING BETWEEN ANY BARS SHALL NOT BE LESS 1".
4. LAP SPLICES ARE BASED ON AN ASSUMED CLEAR COVER OF 2" ABOVE A TOP REINFORCING MAT.
5. PERIMETER FOUNDATION WALLS RETAINING LESS THAN 12" OF SOIL.
6. ALL SPLICES ARE TO BE CONTACT SPLICES.
7. BAR CLEAR COVER IS ASSUMED TO BE 1 1/2" FOR #5 AND SMALLER AND 2" FOR #6 AND LARGER.

3 REINFORCING BAR LAP SPLICES

SCALE: 1/8" = 1'-0"

CONCRETE COVER	
LOCATION	MIN. COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
NO. 6 THROUGH NO. 18 BARS	2"
NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS AND JOISTS	3/4"
BEAMS, COLUMNS (COVER TO TIES OR STIRRUPS)	1 1/2"

2 CONCRETE COVER

SCALE: 1/8" = 1'-0"

CONCRETE DESIGN MIX REQUIREMENTS (NOTE 1)									
LOCATION	28 DAY COMP. STRENGTH	TARGET SLUMP (NOTE 2)	MAX. W/C RATIO	EXPOSURE CATEGORIES & CLASSES (NOTE 3)			AIR CONTENT	FINISH
				F	S	W	C		
FOOTINGS	3500 PSI	4" (+/- 1")	0.55	F1	S0	W0	C0	5% +/- 1.5%	SCREED
MASS POURED FOUNDATIONS	4500 PSI	4" (+/- 1")	0.45	F2	S0	W0	C0	6% +/- 1.5%	SCREED
WALLS / PIERS	4500 PSI	3" (+/- 1")	0.45	F2	S0	W0	C0	6% +/- 1.5%	HAND RUBBED EXPOSED SURFACES
INTERIOR SLAB-ON-GRADE	4000 PSI	3" (+/- 1")	0.45	F0	S0	W0	C0	AS NEEDED	STEEL TROWEL (NOTE 4)
EXTERIOR CONC. WORK	4500 PSI	3" (+/- 1")	0.45	F3	S0	W0	C0	6% +/- 1.5%	BROOM - NON SKID

NOTES:
1. ALL CONCRETE MIXES ARE NORMAL WEIGHT UNLESS NOTED OTHERWISE.
2. TARGET SLUMP IS THE CONCRETE SLUMP WITHOUT ANY ADMIXTURES INCLUDED. TARGET SLUMP MAY BE INCREASED BY USING ADMIXTURES. REFER TO THE CONCRETE SPECIFICATION FOR ADDITIONAL INFORMATION.
3. EXPOSURE CRITERIA FOR MIX SUPPLIER'S USE.
4. GENERAL CONTRACTOR SHALL REVIEW ALL FLOOR FINISH REQUIREMENTS FOR THE PROJECT AND PROVIDE CONCRETE SLAB SURFACE FINISHES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFIED FLOOR FINISH MATERIALS.

1 CONCRETE DESIGN MIXES

SCALE: 1/8" = 1'-0"

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ENGINEERING RESOURCES, INC.
4175 New Vision Drive, Fort Wayne, IN 46845
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SEAL

DANIEL J. SCHENKEL REGISTERED No. 19700114 STATE OF INDIANA PROFESSIONAL ENGINEER
04/26/2023

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority
11408 West Perimeter Road Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 04-26-2023
SUBMITTAL 100% CD

FOUNDATION DETAILS

S-102

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ABBREVIATIONS

AB	ANCHOR BOLTS	EA	EACH	MAINT	MAINTENANCE	SC	SOLID CORE
A/C	AIR CONDITIONING	EJ	EXPANSION JOINT	MATL	MATERIAL	SCHED	SCHEDULE
ACOUS	ACOUSTICAL	EL	ELEVATION	MAX	MAXIMUM	SECT	SECTION
AD	ACCESS DOOR	ELEC	ELECTRICAL	MB	MACHINE BOLT	SHT	SHEET
ADJ	ADJACENT / ADJUSTABLE	ELEV	ELEVATOR	MECH	MECHANICAL	SIM	SIMILAR
A/E	ARCHITECT / ENGINEER	EP	ELECTRICAL PANEL	MEMB	MEMBRANE	SIMUL	SIMULATED
AFF	ABOVE FINISHED FLOOR	EQ	EQUAL	MEZZ	MEZZANINE	SJ	SAW JOINT
AHJ	AUTHORITY HAVING JURISDICTION	EQUIP	EQUIPMENT	MFR	MANUFACTURER	SPECS	SPECIFICATIONS
ALT	ALTERNATE	EXIST	EXISTING	MIN	MINIMUM	SQ	SQUARE
ALUM	ALUMINUM	EXT	EXTERIOR	MISC	MISCELLANEOUS	SS	STAINLESS STEEL
ANOD	ANODIZED	EWC	ELECTRIC WATER COOLER	MO	MASONRY OPENING	STA	STATION
APPD	APPROVED			MR	MOISTURE RESISTANT	STD	STANDARD
APPROX	APPROXIMATE(LY)	FD	FLOOR DRAIN	MTL	METAL	STL	STEEL
AWB	AIR AND WATER BARRIER	FDTN	FOUNDATION	MULL	MULLION	STOR	STORAGE
		FE	FIRE EXTINGUISHER			STRUCT	STRUCTURAL
BD	BOARD	FEC	FIRE EXTINGUISHER CABINET	N	NEW	SUSP	SUSPENDED
BLDG	BUILDING	FH	FULL HEIGHT	NA	NOT APPLICABLE	SYMM	SYMMETRICAL
BLK	BLOCK	FHC	FIRE HOSE CABINET	NIC	NOT IN CONTRACT		
BLKG	BLOCKING	FIN	FINISH(ED)	NO	NUMBER	T	TREAD
BM	BEAM	FLR	FLOOR	NOM	NOMINAL	T&G	TONGUE & GROOVE
BM	BENCHMARK	FO	FINISHED OPENING	NR	NON-RATED	TDC	TRAFFIC DECK COVERING
BOB	BOTTOM OF BEAM	FOC	FACE OF CONCRETE	NTS	NOT TO SCALE	TEL	TELEPHONE
BOC	BOTTOM OF CURB	FOS	FACE OF STUD			TEMP	TEMPORARY
BOS	BOTTOM OF STEEL	FOW	FACE OF WALL	OA	OVERALL	THK	THICK
BOT	BOTTOM	FR	FIRE RESISTANT	OC	ON CENTER	TJ	TOOLED JOINT
BUR	BUILT-UP ROOFING	FRP	FIBER REINFORCED PLASTIC	OD	OUTSIDE DIAMETER	TMPD	TEMPERED
		FRT	FIRE-RETARDANT TREATED	OF	OWNER FURNISHED	TOC	TOP OF CONCRETE
C/C	CENTER TO CENTER	FS	FLOOR SINK	OFF	OFFICE	TOC	TOP OF CURB
CEM	CEMENT	FT (')	FOOT / FEET	OI	OWNER INSTALLED	TOJ	TOP OF JOIST
CF	CONTRACTOR FURNISHED	FTG	FOOTING	OPH	OPPOSITE HAND	TOM	TOP OF MASONRY
CFMF	COLD-FORMED METAL FRAMING	FV	FIELD VERIFY	OPNG	OPENING	TOP	TOP OF PARAPET
CG	CORNER GUARD			OPP	OPPOSITE	TOS	TOP OF STEEL
CI	CONTRACTOR INSTALLED	GA	GAUGE	OPT	OPTIONAL	TOW	TOP OF WALL
CJ	CONTROL JOINT	GALV	GALVANIZED	ORD	OVERFLOW ROOF DRAIN	TYP	TYPICAL
CL	CENTERLINE	GR	GRADE	ORIG	ORIGINAL		
CLG	CEILING	GYP	GYPSUM			UL	UNDERWRITERS LABORATORIES
CLG HT	CEILING HEIGHT	GWB	GYPSUM WALL BOARD	PC	PORTLAND CEMENT	UNO	UNLESS NOTED OTHERWISE
CLO	CLOSET			PERF	PERFORATED		
CLR	CLEAR	H	HIGH	PERP	PERPENDICULAR	VAR	VARIES
CMU	CONCRETE MASONRY UNIT	HC	HOLLOW CORE	PL	PLATE	VB	VAPOR BARRIER
COL	COLUMN	HDCP	HANDICAPPED	PLAM	PLASTIC LAMINATE	VER	VERIFY
COMP	COMPOSITION	HDW	HARDWARE	PLAS	PLASTIC	VERT	VERTICAL
CONC	CONCRETE	HDWD	HARDWOOD	PLYWD	PLYWOOD	VEST	VESTIBULE
CONN	CONNECTION	HK	HOUSEKEEPING	PNT	PAINT	VR	VAPOR RETARDER
CONST	CONSTRUCTION	HM	HOLLOW METAL	PR	PAIR		
CONT	CONTINUOUS	HORIZ	HORIZONTAL	PREP	PREPARATION	W	WIDE / WIDTH
CONTR	CONTRACT(OR)	HP	HIGH POINT	PRO	PROJECTION	W/	WITH
COORD	COORDINATE	HT	HEIGHT	PT	PRESSURE TREATED	WC	WATER CLOSET
CORR	CORRIDOR					WD	WOOD
CORS	COURSE/COURSES	IN (")	INCH	QT	QUARRY TILE	WI	WROUGHT IRON
CSK	COUNTERSINK	ID	INSIDE DIAMETER			WL	WATER LEVEL
CT	CERAMIC TILE	INFO	INFORMATION	R	RADIUS, RISER	W/O	WITHOUT
CTR	CENTER	INSUL	INSULATION	RD	ROOF DRAIN	WP	WATERPROOFING
		INT	INTERIOR	REC	RECOMMENDATION	WP	WORKING POINT
D	DEEP / DEPTH			REF	REFERENCE		
DBL	DOUBLE	JAN	JANITOR	REFL	REFLECTED	YR	YEAR
DEG	DEGREE			REINF	REINFORCED		
DEMO	DEMOLISH / DEMOLITION	LAM	LAMINATE	REQD	REQUIRED		
DET	DETAIL	LAV	LAVATORY	RESIL	RESILIENT		
DF	DRINKING FOUNTAIN	LB	POUND	RL	RAIN LEADER		
DIA	DIAMETER	LEV	LEVEL	RM	ROOM		
DIAG	DIAGONAL	LF	LINEAR FEET	RO	ROUGH OPENING		
DIM	DIMENSION	LTG	LIGHTING				
DIR	DIRECTION	LTWT	LIGHT WEIGHT				
DN	DOWN	LVR	LOUVER				
DO	DOOR OPENING						
DR	DOOR						
DS	DOWNSPOUT						
DWG	DRAWING						

DRAWING CONVENTIONS

REFERENCE SYMBOLS

SIM — 1 / A-101

BUILDING SECTIONS

SIM — 1 / A-101

WALL SECTIONS

SIM — 1 / A-101

DETAIL SECTIONS

PLAN/DETAIL CALLOUT

SIM — 1 / A-101

ELEVATIONS

1 Ref, Ref, A-101, 1 Ref, 1 Ref, A-101 — INTERIOR, EXTERIOR

IDENTITY SYMBOLS

AREA NAME — 150 SF

BUILDING AREA TAG

ROOM NAME — 101 — ROOM NUMBER — 150 SF — ROOM AREA (WHERE INDICATED)

ROOM TAG

A.1 / A.1

COLUMN GRID

PARTITION TYPE — A3 — MODIFIER

PARTITION TYPE TAG

101 — DOOR NUMBER

DOOR TAG

CEILING TYPE — A — 10'-0" — CEILING HEIGHT

CEILING TYPE TAG

FRAMING TYPE — HM1 — WINDOW NUMBER

WINDOW TYPE TAG

FRAMING TYPE LEGEND

AL - ALUMINUM WINDOW
CW - ALUMINUM CURTAINWALL
HM - HOLLOW METAL WINDOW
SHM- SECURITY HOLLOW METAL
SF - ALUMINUM STOREFRONT
LV - LOUVER

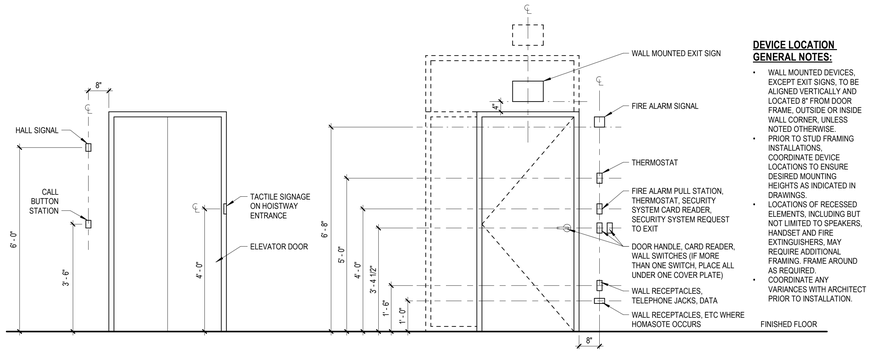
MATERIAL LEGEND

- BATT INSULATION
- BRICK MASONRY UNIT
- CONCRETE
- CONCRETE MASONRY UNIT (CMU)
- CMU - INSULATION FILLED CORE
- EARTH
- FINISHED WOOD MEMBER
- GRAVEL
- GYPSUM BOARD
- METAL
- PLYWOOD
- RIGID INSULATION
- WOOD MEMBER - CONT.
- WOOD BLOCKING

DIMENSIONING LEGEND

1. DOORS NOT OTHERWISE DIMENSIONED SHALL BE:
   A. 8" FROM FACE OF ADJACENT MASONRY WALL TO ROUGH DOOR OPENING.
   B. 4" FROM FACE OF ADJACENT STUD WALL TO ROUGH DOOR OPENING.
2. SEE LARGE SCALE DETAILS FOR LOCATIONS AND ALIGNMENTS OF PARTITIONS NOT DIMENSIONED ON FLOOR PLANS.
3. UNLESS NOTED OTHERWISE, PLAN DIMENSIONS ARE TAKEN FROM:

A. DIM. — FACE OF STUD TO FACE OF STUD
B. DIM. — FACE OF MASONRY OR CONCRETE WALL TO FACE OF MASONRY/WALL
C. DIM. — CENTERLINE OF COLUMN TO CENTERLINE OF COLUMN
D. DIM. — FACE OF MASONRY OR CONCRETE WALL TO CENTERLINE OF COLUMN



ELEVATOR

TYPICAL DOOR

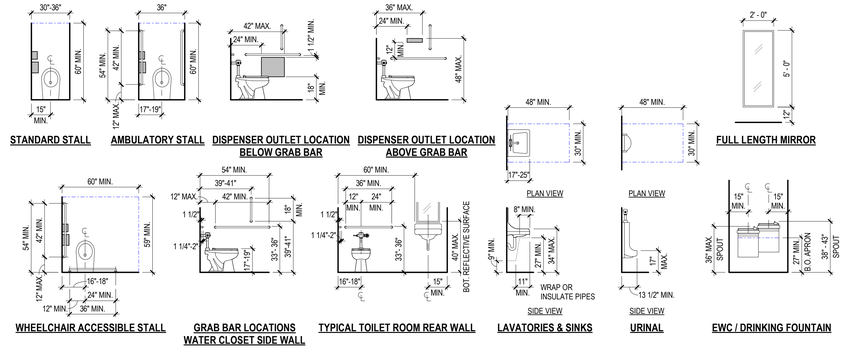
DEVICES & HARDWARE - TYP. MOUNTING HEIGHTS @ DOOR U.N.O.

DEVICE LOCATION GENERAL NOTES:

- WALL MOUNTED DEVICES, EXCEPT EXIT SIGNS, TO BE ALIGNED VERTICALLY AND LOCATED 8" FROM DOOR FRAME, OUTSIDE OR INSIDE WALL CORNER, UNLESS NOTED OTHERWISE.
- PRIOR TO STUD FRAMING INSTALLATIONS, COORDINATE DEVICE LOCATIONS TO ENSURE DESIRED MOUNTING HEIGHTS AS INDICATED IN DRAWINGS.
- LOCATIONS OF RECESSED ELEMENTS, INCLUDING BUT NOT LIMITED TO SPEAKERS, HANDSET AND FIRE EXTINGUISHERS, MAY REQUIRE ADDITIONAL FRAMING. FRAME AROUND AS REQUIRED.
- COORDINATE ANY VARIANCES WITH ARCHITECT PRIOR TO INSTALLATION.

Device Mounting Heights

Not To Scale



Accessibility Diagrams

Not To Scale

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HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority

11408 West Perimeter Road Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 04-26-2023
SUBMITTAL 100% CD

Architectural Information Sheet

A-001

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2 1/2" SOUND ATTENUATION BATTS - FIBERGLASS	REFER TO FLOORPLANS FOR (AP) TAG. PROVIDE AT ALL PARTITIONS WITH METAL STUDS 2 1/2" OR LESS TO FULL HEIGHT OF PARTITION. SEE ACOUSTIC PARTITION DIAGRAM.
3 1/2" SOUND ATTENUATION BATTS - FIBERGLASS	REFER TO FLOORPLANS FOR (AP) TAG. PROVIDE AT ALL PARTITIONS WITH METAL STUDS GREATER THAN 2 1/2" TO FULL HEIGHT OF PARTITION. SEE ACOUSTIC PARTITION DIAGRAM.
6" SOUND ATTENUATION BATTS - FIBERGLASS	REFER TO FLOORPLANS FOR (AP) TAG. PROVIDE AT ALL PARTITIONS WITH METAL STUDS GREATER THAN 2 1/2" TO FULL HEIGHT OF PARTITION. SEE ACOUSTIC PARTITION DIAGRAM.
INJECTABLE MASONRY FOAM INSULATION	REFER TO FLOORPLANS FOR (AP) TAG. PROVIDE AT ALL MASONRY PARTITIONS TO FULL HEIGHT OF PARTITION. SEE ACOUSTIC PARTITION DIAGRAM.

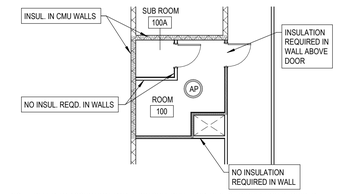
Acoustical Partition Schedule

Not To Scale

MISCELLANEOUS STUFFING INSULATION	WHERE DETAILED AND/OR NOTED, TO INFILL OPENINGS IN NON-RATED WALLS AROUND PIPES, STRUCTURAL COMPONENTS AND CONDUITS. TO SEAL TOPS OF NON-RATED MASONRY WALLS TO DECK, AT EXPANSION JOINTS TO INSULATE.
UNFACED BATT INSULATION	WHERE DETAILED AND/OR NOTED, WITHIN STUD CAVITY OF ALL EXTERIOR WALLS WHERE INSULATION IS ENCAPSULATED UNLESS NOTED OR DETAILED OTHERWISE.
SEMI-RIGID FIBERGLASS INTERIOR INSULATION	WHERE DETAILED AND/OR NOTED, AT ALL EXTERIOR WALLS WHERE INSULATION IS NOT ENCAPSULATED UNLESS NOTED OR DETAILED OTHERWISE.
SOUND ATTENUATION BLANKETS (SAB)	WHERE DETAILED AND/OR NOTED, AT ALL PARTITIONS INDICATED TO BE ACOUSTICAL. REFER TO ACOUSTICAL PARTITION SCHEDULE AND PLANS FOR (AP) TAG.

Insulation Schedule

Not To Scale

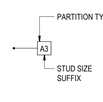


NOTE: REFER TO ACOUSTICAL PARTITION SCHEDULE FOR TYPE OF INSULATION REQUIRED. SOUND ATTENUATION BATTS SHOWN FOR CLARIFICATION OF EXAMPLE ONLY AND MAY NOT BE GRAPHICALLY INDICATED ON PLANS.

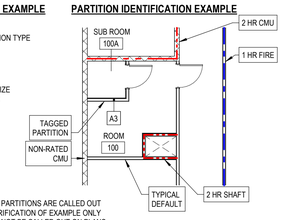
Acoustic Partition Diagram

Not To Scale

PARTITION TAG EXAMPLE



PARTITION IDENTIFICATION EXAMPLE



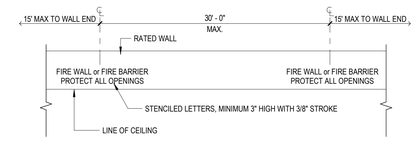
- GRAPHIC PARTITIONS ARE CALLED OUT FOR CLARIFICATION OF EXAMPLE ONLY AND MAY NOT BE CALLED OUT ON PLANS.
- RATINGS AS SHOWN WILL BE INDICATED ON LIFE SAFETY PLANS ONLY.

Partition I.D. Diagram

Not To Scale

MARKING AND IDENTIFICATION OF FIRE-RESISTANCE RATED WALLS

PER INDIANA BUILDING CODE 703.7: FIRE WALLS AND VERTICAL FIRE BARRIERS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING AND ATTIC SPACES. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET HORIZONTALLY; INCLUDE LETTERING NOT LESS THAN 3 INCHES IN HEIGHT WITH A MINIMUM 3/8 INCH STROKE IN A CONTRASTING COLOR WITH THE WORDING, "FIRE WALL OR FIRE BARRIER - PROTECT ALL OPENINGS".



Rated Wall Marking

1/8" = 1'-0"

GENERAL NOTES - PARTITION TYPES

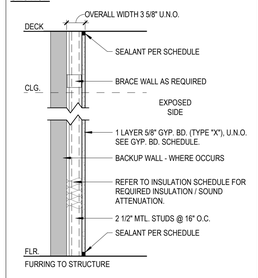
1. ALL PARTITION TYPES MAY NOT BE USED. REFER TO PLANS FOR APPLICABLE PARTITIONS.
2. FLR., CLG. AND STRUCT. DELINEATED IN PARTITION WALL SECTIONS ARE DIAGRAMMATIC AND DO NOT REFLECT EXACT CONSTRUCTION.
3. GYPSUM BOARD TYPE INDICATED IN THE PARTITION TYPE SECTIONS IS TYPICAL UNLESS NOTED OTHERWISE IN THE GYPSUM BOARD SCHEDULE FOR THE PARTITION LOCATION (EXAMPLE: A TYPE A3 WALL AT A FIRE RATED WET WALL LOCATION WILL HAVE 5/8" GLASS MAT WATER RESISTANT GYPSUM BOARD IN LIEU OF 5/8" GYP. BD.)
4. FOR ALL UL DESIGN NUMBERS, REFER TO THE FIRE RESISTANCE DIRECTORY - UNDERWRITERS LABORATORY - LATEST EDITION.
5. ALL RATED PARTITIONS SHALL HAVE FIRESTOP SEALANT AT THE HEAD, SILL, THROUGH PENETRATIONS, OPENINGS AND JUNCTURES WITH DISSIMILAR MATERIALS.
6. ALL NON-RATED PARTITIONS SHALL HAVE SEALANT AT THE HEAD, SILL, THROUGH PENETRATIONS, OPENINGS AND JUNCTUTRES WITH DISSIMILAR MATERIALS.

GENERAL NOTES - PARTITIONS

1. WALL RATINGS ARE INDICATED ON LIFE SAFETY PLANS ONLY - REFER TO LIFE SAFETY PLANS FOR LOCATIONS OF SMOKE AND FIRE RATED PARTITIONS.
2. IDENTIFY ALL RATED PARTITIONS WITH 3" HIGH RED LETTERS TO READ "FIRE AND/OR SMOKE SEPARATION - PROTECT ALL OPENINGS" TO BE 8" ABOVE CEILING OR 10'-0" A.F.F IN ROOMS WITHOUT CEILING AND AT 30'-0" O.C. MAX.
3. ALL PARTITION FRAMING FOR INTERIOR PARTITIONS ARE METAL STUDS UNLESS NOTED OTHERWISE AND DIMENSIONED FROM FACE OF STUD TO FACE OF STUD.
4. ALL OPENINGS IN RATED PARTITIONS SHALL MAINTAIN THE OPENING PROTECTIVE FIRE-RATING INDICATED BY CODE.
5. ALL RATED PARTITIONS SHALL CONTINUE THROUGH THE INTERIOR FACE OF EXTERIOR WALL GYP. BD. AND SEAL TO THE INSIDE FACE OF THE EXTERIOR WALL SHEATHING OR MASONRY.
6. ALL RATED PARTITIONS SHALL USE UL LISTED TYPE "X" 5/8" GYPSUM BOARD U.N.O.
7. METAL STUD PARTITIONS WITH WALL MOUNTED EQUIPMENT / CASEWORK, ETC. SHALL BE 20 GA. MIN. ALL OTHER METAL STUD PARTITIONS SHALL BE 22 GA. U.N.O.
8. WHERE THICKNESS VARIES BETWEEN TWO PARTITIONS IN AN UNINTERUPTED CONTINUOUS WALL PLANE - OFFSET STUDS AND ALIGN FACE OF PARTITION.
9. ALL PARTITIONS WITH GYP. BD. UP TO STRUCTURE AND CALLED OUT TO HAVE SEALANT SHALL NOT ALLOW THE LEAKAGE OF AIR.
10. ALL STUD FRAMING AND GYP. BD. ENCLOSURES OF COLUMNS TO BE MINIMIZED. RUN GYP. BD. AS TIGHT AS PRACTICABLE TO COLUMN UNLESS NOTED OTHERWISE WITH SPECIFIC DIMENSIONS OR NOTES.

PARTITION TYPE E

SECTION



FURRING TO STRUCTURE

E2

GRAPHICAL DEFAULT

PLAN

DESIGN CRITERIA

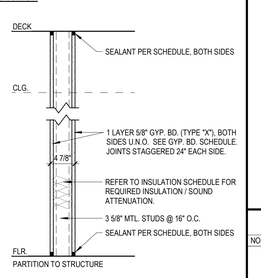
RATING	UL DESIGN #	STC	STC W/ SAB
NON-RATED	-	-	34

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH
0	7/8" HAT CHANNEL	1 1/2"
1	1 5/8"	2 3/4" (2 1/4")
2	SEE GRAPHICAL DEFAULT ABOVE	
3	3 5/8"	4 3/4" (4 1/4")
4	4"	5 1/8" (4 5/8")
6	6"	7 1/8" (6 5/8")

PARTITION TYPE A

SECTION

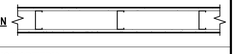


PARTITION TO STRUCTURE

A3

GRAPHICAL DEFAULT

PLAN



DESIGN CRITERIA

RATING	UL DESIGN #	STC	STC W/ SAB
NON-RATED	-	40	44
SMOKE RES.	-	40	44
1 HR	U419	40	44

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH
1	1 5/8"	2 7/8"
2	2 1/2"	3 3/4"
3	SEE GRAPHICAL DEFAULT ABOVE	
4	4"	5 1/4"
6	6"	7 1/4"
8	8"	9 1/4"

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SEAL

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority

11408 West Perimeter Road Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301700

ISSUE DATE 04-26-2023

SUBMITTAL 100% CD

Partition Diagrams

A-002

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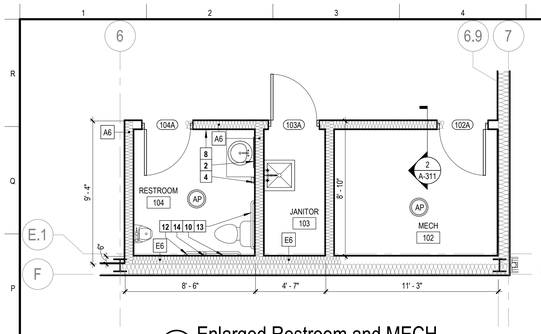


4 Enlarged Restroom and MECH
1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE

1

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

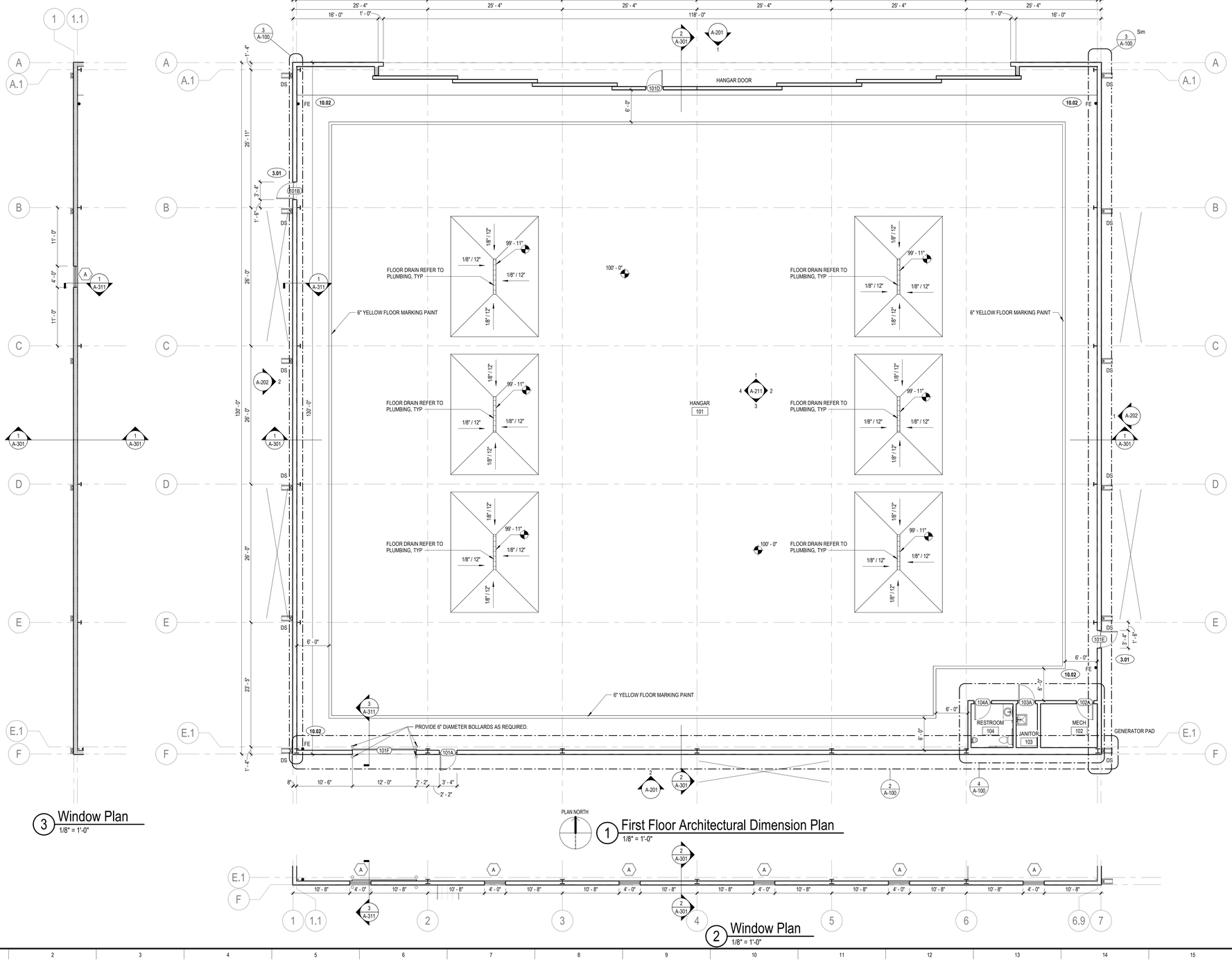
FLOOR PLAN GENERAL NOTES

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

FLOOR PLAN NOTES

3.01

TAG	DESCRIPTION
DIV 3 - CONCRETE	
3.01	CONCRETE STOOP. COORDINATE WITH CIVIL AND STRUCTURAL DOCUMENTS.
DIV 10 - SPECIALTIES	
10.02	BRACKET MOUNTED 10-LB CLASS ABC FIRE EXTINGISHER. SEE SPECIFICATION.



3 Window Plan
1/8" = 1'-0"

PLAN NORTH

1 First Floor Architectural Dimension Plan
1/8" = 1'-0"

2 Window Plan
1/8" = 1'-0"

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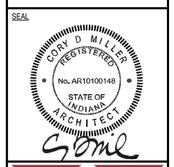

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FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority
11408 West Perimeter Road Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 04-26-2023
SUBMITTAL 100% CD

Overall Floor Plan - First Floor

A-100

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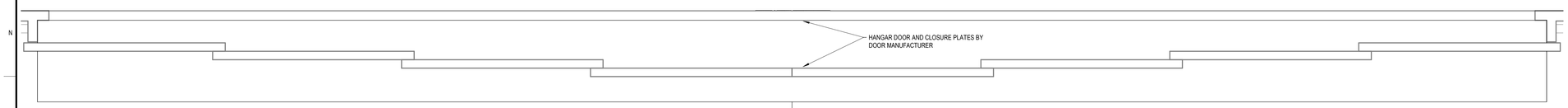
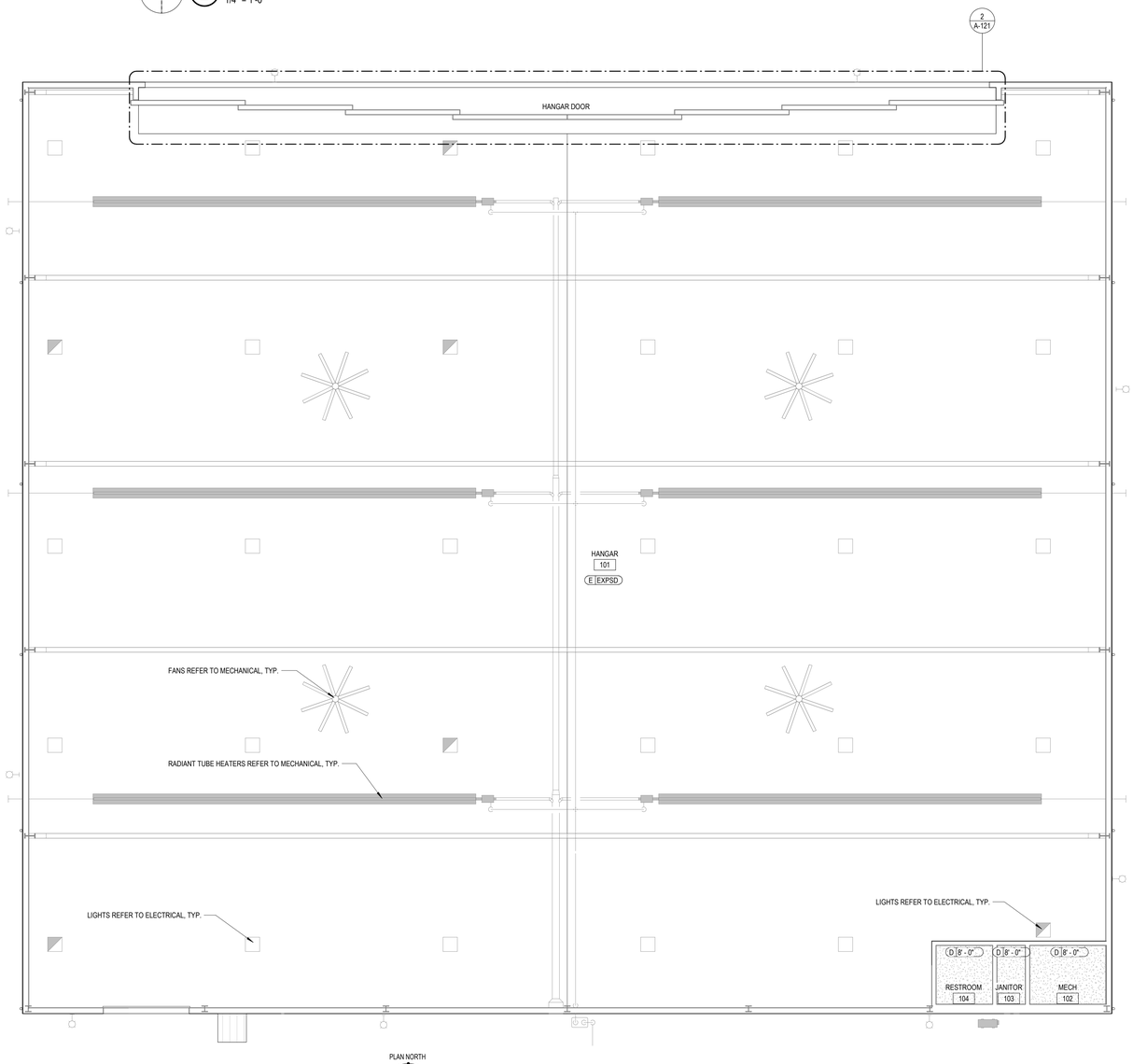


PLAN NORTH

2 First Floor Reflected Ceiling Plan - Hangar Door
1/4" = 1'-0"



PLAN NORTH

1 First Floor Reflected Ceiling Plan
1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND AND GENERAL NOTES

CEILING MATERIAL LEGEND

TYPE		DESCRIPTION
D		GYPSUM BOARD CEILING, PAINT
E		EXPOSED TO STRUCTURE

FIXTURE LEGEND

SYMBOL	DESCRIPTION
	1' X 4' LIGHT FIXTURE. SEE ELECTRICAL FOR TYPE.
	2'x2 LIGHT FIXTURE. SEE ELECTRICAL FOR TYPE.
	2'x4' LIGHT FIXTURE. SEE ELECTRICAL FOR TYPE.
	RECESSED DOWNLIGHT. SEE ELECTRICAL FOR TYPE.
	ROUND PENDANT FIXTURE. SEE ELECTRICAL FOR TYPE.
	LINEAR PENDANT FIXTURE. SEE ELECTRICAL FOR TYPE.
	UTILITY LIGHT FIXTURE. SEE ELECTRICAL FOR TYPE.

SYMBOL	DESCRIPTION
	SUPPLY GRILLE
	RETURN GRILLE
	EXHAUST GRILLE
	SPRINKLER
	CEILING MOUNTED EXIT SIGN
	OCCUPANCY SENSOR

SYMBOL	DESCRIPTION
PROJ	PROJECTOR SUSPENDED FROM CEILING
	160"w x 120"l POWERED RECESSED OR WALL MOUNTED PROJECTION SCREEN
	STAGE RIGGING FOR LIGHTING AND SOUND SEE ELECTRICAL
	CURTAIN TRACK LOCATION FOR FUTURE GFGI THEATRICAL
1	QUICK PULL CURTAIN TRACK SUSPENDED FROM CEILING GRID OR SIDEWALL (SEE INTERIORS)

CEILING GENERAL NOTES

1. ALL CEILING HEIGHTS ARE TO THE FINISHED FACE OF THE CEILING PLANE.
2. ALL DIMENSIONS ARE TO THE CENTERLINE OF DEVICE, TYPICAL.
3. ALIGN DEVICES AS INDICATED WITH CENTERLINES.
4. ALL SOFFITS/CASED OPENINGS TO ALIGN WITH THE FINISHED FACE OF ADJACENT WALLS, UNLESS NOTED OTHERWISE.
5. ALL DEVICES TO BE CENTERED IN CEILING TILES WHERE APPLICABLE, UNLESS NOTED OTHERWISE.
6. SEE CONSULTANT DOCUMENTS FOR THE LOCATIONS OF ALL WALL MOUNTED DEVICES. COORDINATE ALIGNMENT OF WALL DEVICES WITH EACH OTHER AND CEILING DEVICES WHERE POSSIBLE.
7. PROVIDE ADDITIONAL FRAMING AND SUPPORT ON ALL SIDES OF LIGHT FIXTURES, GRILLES, ETC. MOUNTED IN SUSPENDED GYPSUM BOARD CEILINGS & BULKHEADS.
8. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL REQUIRED ACCESS PANELS.
9. ARCHITECTURAL REFLECTED CEILING PLANS DO NOT INDICATE ALL DEVICES IN THE CEILING/PROJECT. REFER TO ENGINEERING DOCUMENTS FOR ADDITIONAL DEVICES.
10. FIXTURES AND CEILING DEVICES IN ALL EXISTING ROOMS/AREAS TO REMAIN AS IS UNLESS NOTED OTHERWISE.
11. WHERE GYPSUM BOARD ABUTS CMU OR CONCRETE CONSTRUCTION, PROVIDE CONTINUOUS "J" MOLD AND SEALANT AT JOINT.
12. PROVIDE CONTROL JOINTS IN GYPSUM BOARD CEILINGS AND BULKHEADS WHERE INDICATED OR MAX. 30'-0" O.C. WHERE NOT INDICATED. COORDINATE LOCATION WITH ARCHITECT IF PLAN LOCATIONS EXCEED SPACING RECOMMENDATIONS OF MANUFACTURER OR INDUSTRY STANDARD.
13. C.J. = CONTROL JOINT. DO NOT BRIDGE BUILDING EXPANSION AND CONTROL JOINTS WITH FRAMING OR FURRING MEMBERS. INDEPENDENTLY FRAME BOTH SIDES OF JOINTS.

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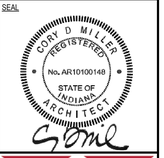

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority
11408 West Perimeter Road Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 04-26-2023
SUBMITTAL 100% CD

Reflected Ceiling Plan - First Floor

A-121

12/7/2023 5:29:22 AM
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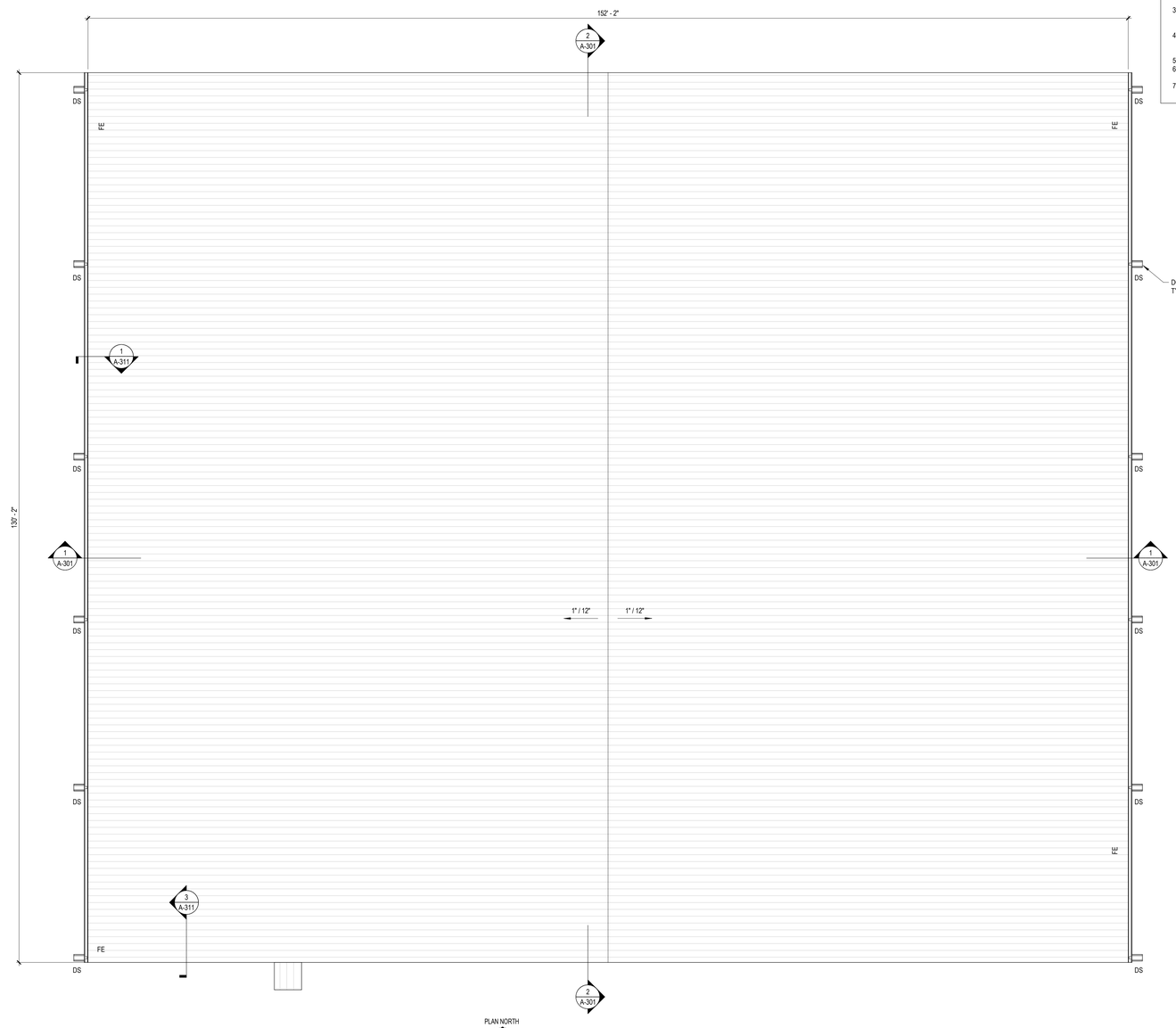

PLAN NORTH

1 Architectural Roof Plan
1/8" = 1'-0"

ROOF PLAN LEGEND AND GENERAL NOTES

ROOF MATERIAL LEGEND

GRAPHIC	DESCRIPTION
	PEMB PREFINISHED METAL ROOF PANEL - BY PEMB MFR / CONTRACTOR. COLOR REGAL WHITE PVDF

ROOF ACCESSORIES LEGEND

SYMBOL	DESCRIPTION
	ROOF TOP EQUIPMENT, SEE ENGINEERING DOCUMENTS
	WALKWAY PADS
	ROOF HATCH
RD	PRIMARY ROOF DRAIN
OD	OVERFLOW ROOF DRAIN
DS	DOWNSPOUT- 6" SQUARE (6" DIAMETER)
CH	SCUPPER WITH CONDUCTOR HEAD AND DOWNSPOUT
OS	OVERFLOW SCUPPER
WC	PRE-ENGINEERED CANOPY SYSTEM WET COLUMN
SB	SPLASH BLOCK

ROOF GENERAL NOTES

1. ROOF PENETRATION AND FLASHING DETAILS TO COMPLY WITH MFR'S. RECOMMENDATIONS AND THE NRCA ROOFING MANUAL - LATEST EDITION.
2. WHEN PERFORMING ROOF TIE-IN WORK, USE ONLY MATERIALS & METHODS APPROVED BY THE EXISTING ROOF SYSTEM MANUFACTURER.
3. SEE ENGINEERING DRAWINGS FOR EXTENT OF ROOFTOP EQUIPMENT, CURBS, VENTS, PIPES, CONDUITS AND OTHER ITEMS PENETRATING THE ROOF. COORDINATE LOCATIONS FOR PROPER CLEARANCES PRIOR TO INSTALLATION.
4. PROVIDE CRICKETS TO PROVIDED POSITIVE DRAINAGE AROUND ALL ROOF TOP EQUIPMENT AND HATCHES. CRICKETS MAY BE PLACED OVER TAPERED INSULATION FULLY ADHEARED TO LIGHT WEIGHT CONCRETE OR SUBSTRATE.
5. ENTIRE ROOF TO RECEIVE SELF-ADHERING SHEET UNDERLAYMENT BENETH SHINGLES.
6. DOWNSPOUTS TO BE TIED INTO PERIMETER STORM DRAINAGE SYSTEM, SEE CIVIL DRAWINGS. PROVIDE BOOTS AS REQUIRED.
7. OVERFLOW SCUPPERS SHALL BE LOCATED A MINIMUM OF 2" ABOVE THE LOWEST DRAIN. ALL SCUPPERS TO BE LOCATED AT THE SAME ELEVATION U.N.O.

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CORY D MILLER
REGISTERED
No. AR10100148
STATE OF INDIANA
ARCHITECT

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

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REVISIONS

NO.	DESCRIPTION	DATE

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2301700

ISSUE DATE
04-26-2023

SUBMITTAL
100% CD

Architectural Roof Plan

A-131

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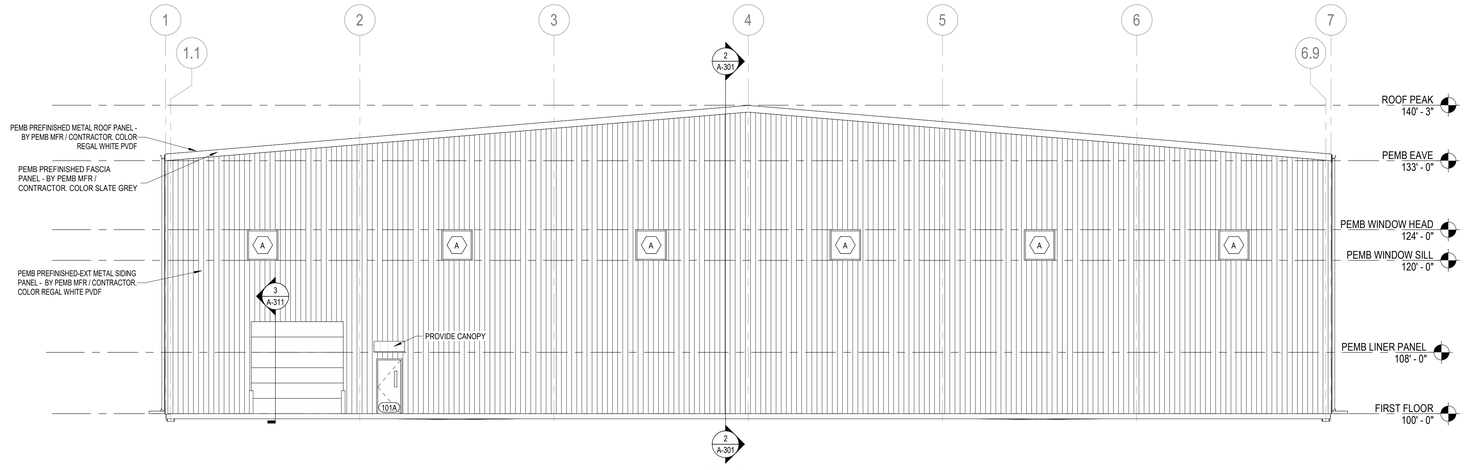
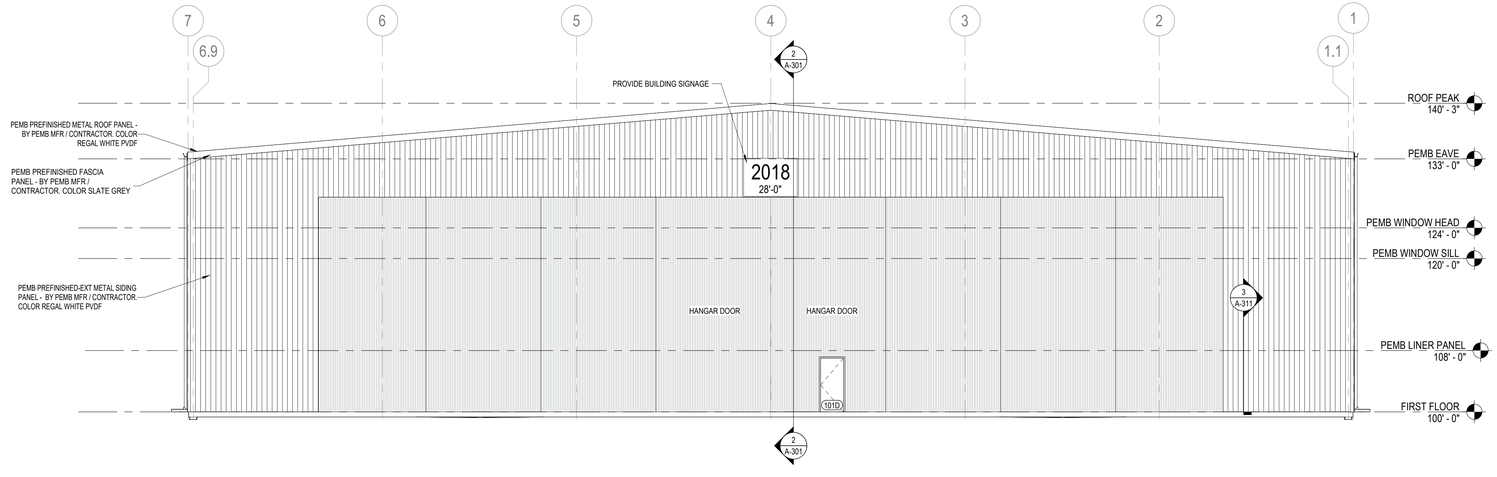


2 South Elevation
1/8" = 1'-0"



1 North Elevation
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SUBMITTAL
100% CD

Building Elevations

A-201

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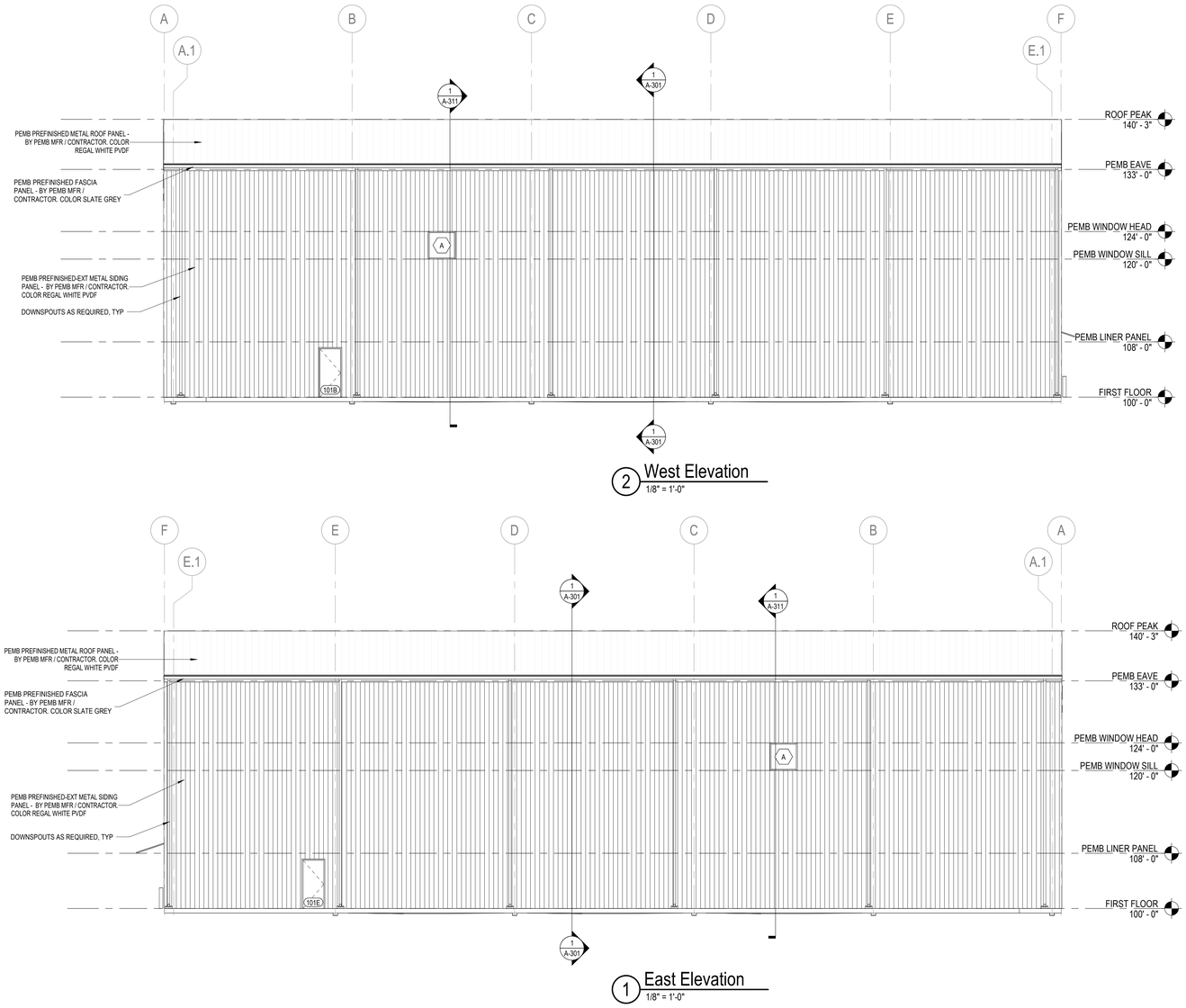

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Building Elevations

A-202

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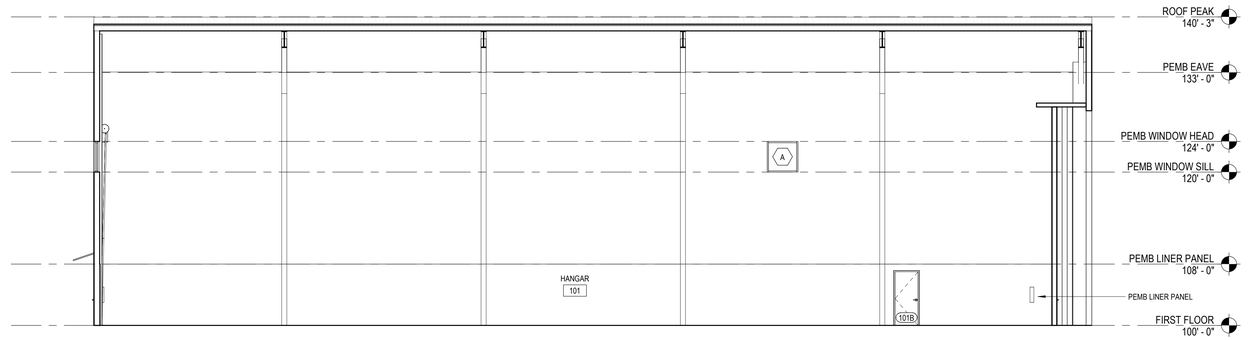
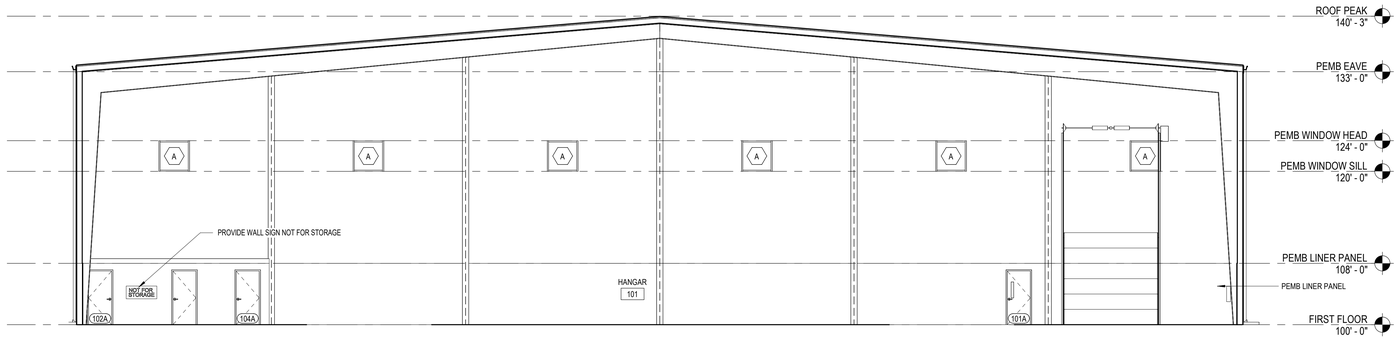


4 West Interior Elevation
1/8" = 1'-0"



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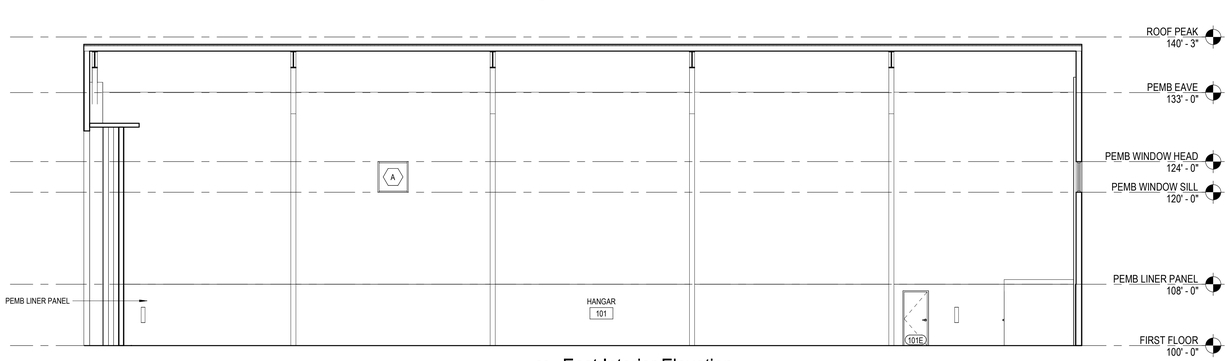

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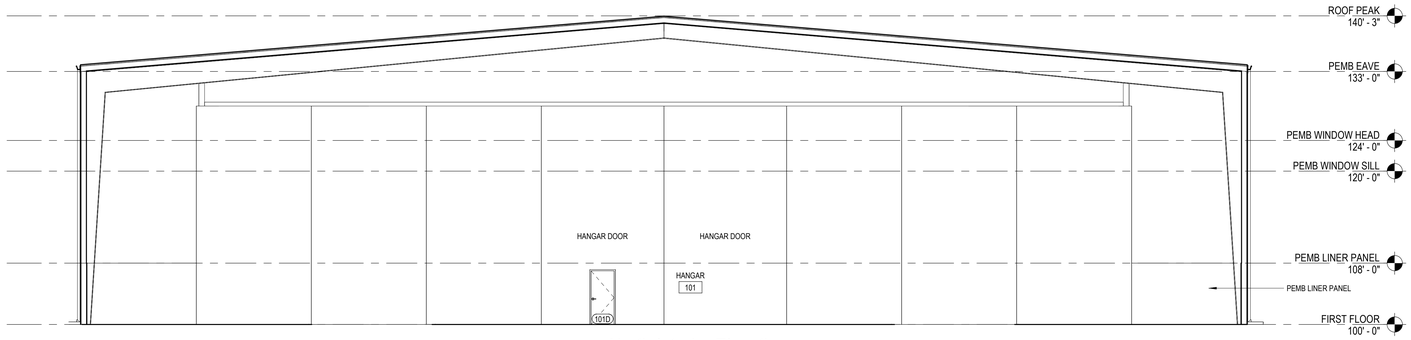

1 North Interior Elevation
1/8" = 1'-0"

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New Corporate Hangar
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REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 04-26-2023
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Interior Elevations

A-211

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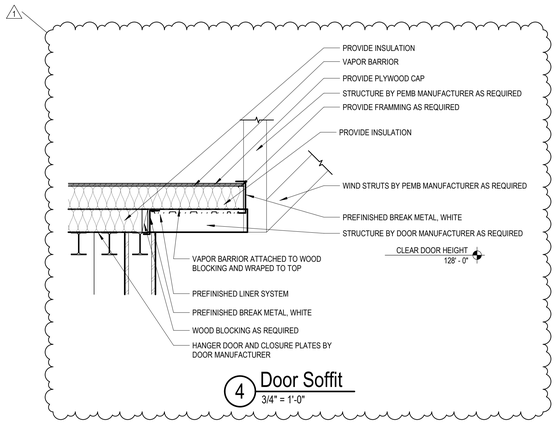
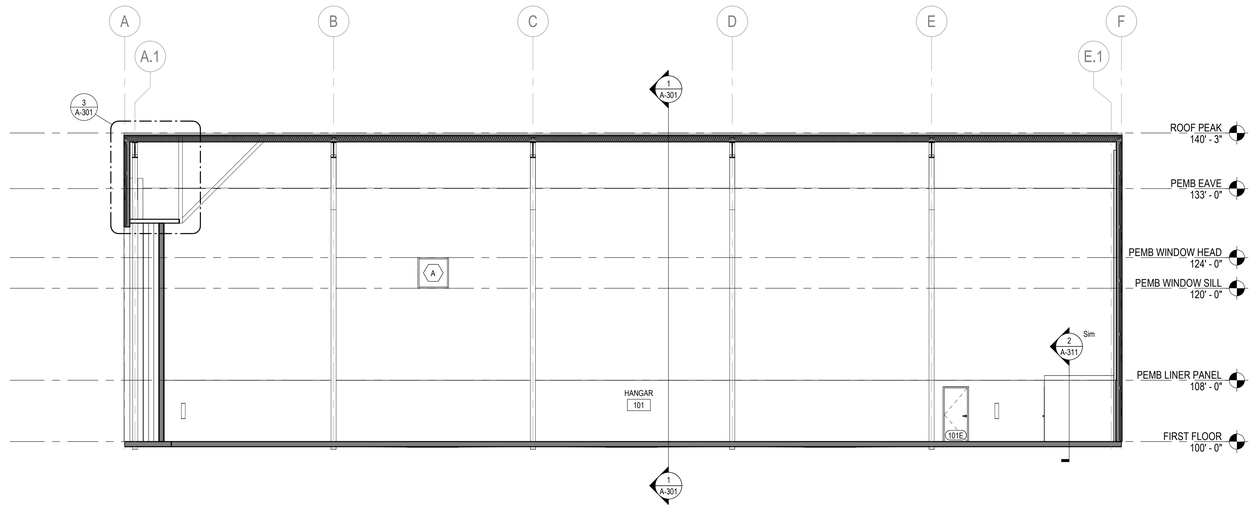
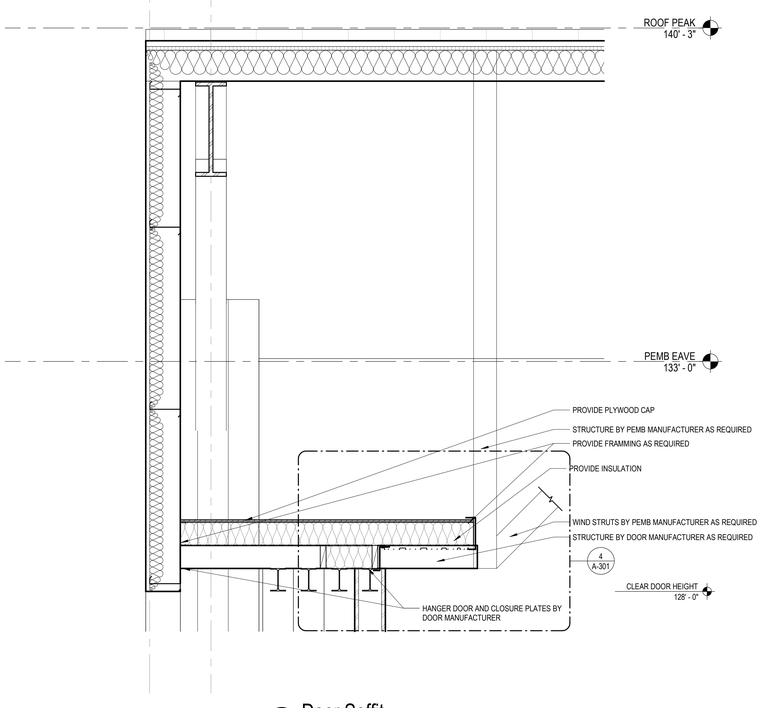


4 Door Soffit
3/4" = 1'-0"



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



3 Door Soffit
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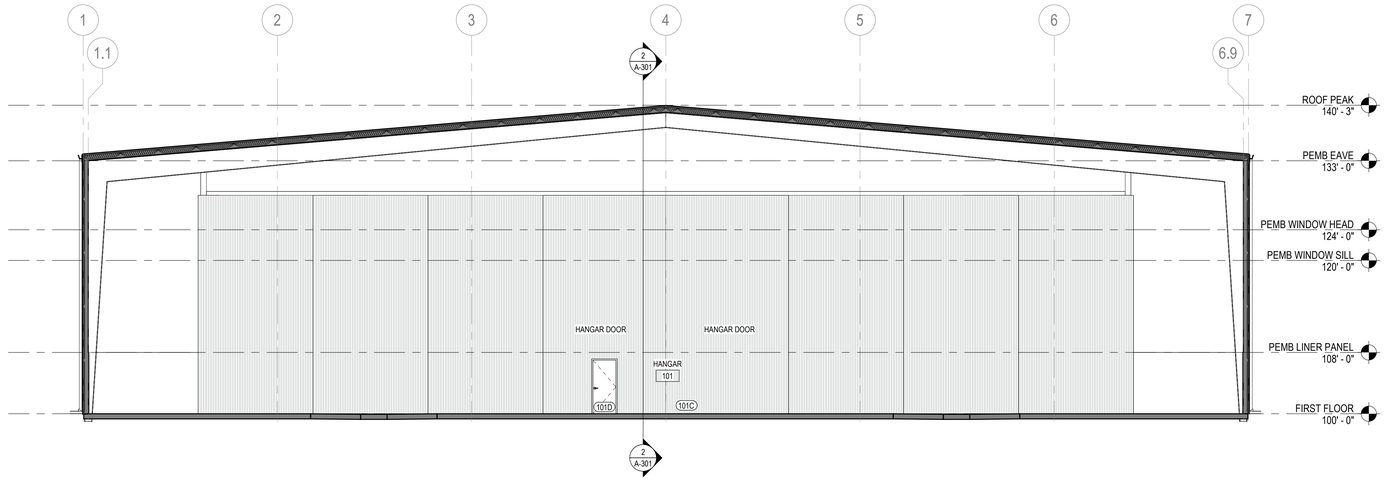

1 Building Section
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REVISIONS

NO.	DESCRIPTION	DATE
1	Revision 1	10-10-2023

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Building Sections

A-301

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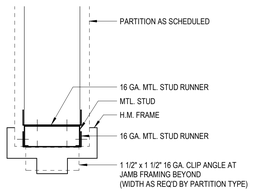
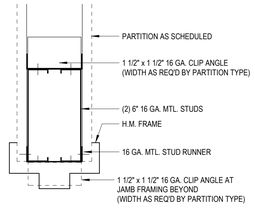
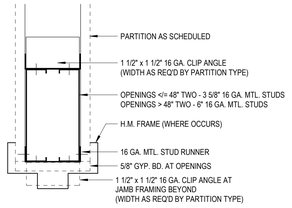


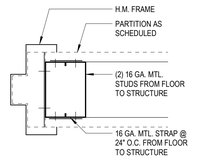
A - SINGLE DOOR HEADER



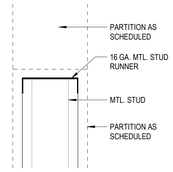
B - DOUBLE DOOR HEADER



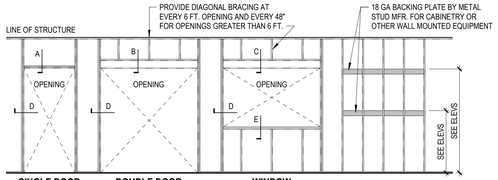
C - WINDOW / GYP. BD. OPENING HEADER



D - DOOR / WINDOW JAMB

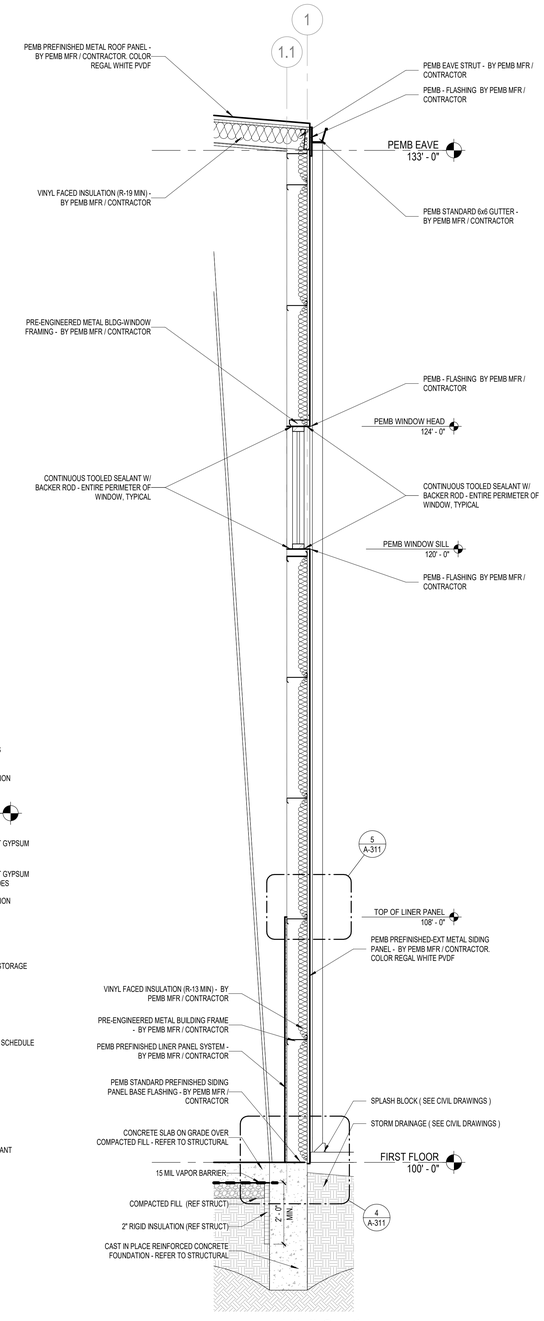


E - SILL

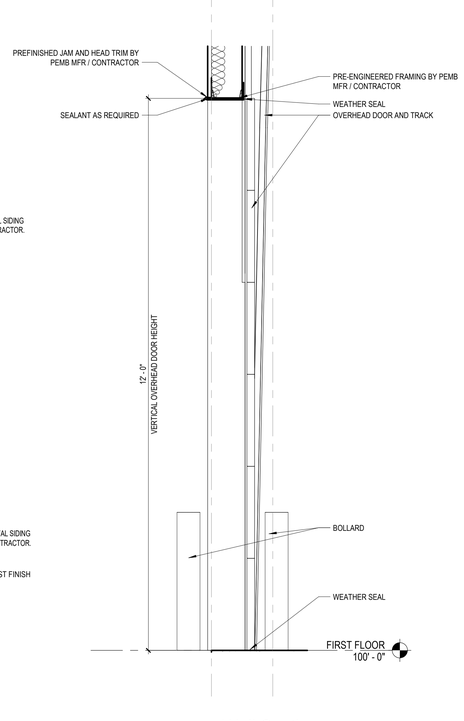


SINGLE DOOR **DOUBLE DOOR** **WINDOW**

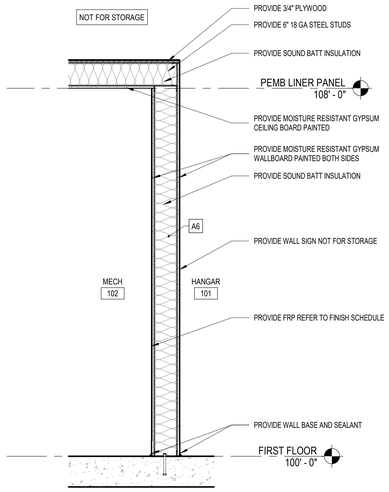
NOTES:
1. DETAIL CALLOUTS REFER TO TYPICAL OPENING FRAMING DETAILS THIS SHEET
2. BOTH JAMBS OF ALL OPENINGS CONT. TO BOTTOM OF STRUCTURE



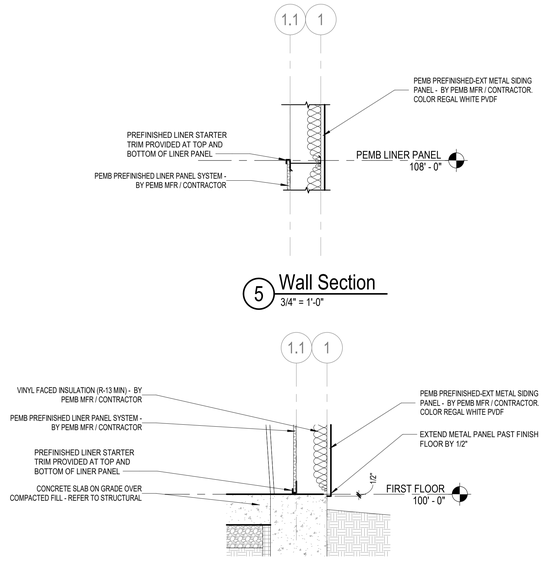
1 Wall Section
1/2" = 1'-0"



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



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



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

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

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SEAL

CORY D MILLER
REGISTERED
No. AR10100148
STATE OF INDIANA
ARCHITECT

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority
11408 West Perimeter Road Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 04-26-2023
SUBMITTAL 100% CD

Wall Sections

A-311

12/20/2023 6:29:36 AM
J:\Active Documents\Corporate Hangar\23-2301700 Fifth Corporate Hangar.rvt

FINISH LEGEND

EXPOSED STRUCTURE
EXP-1

GYPSUM BOARD
GYP-1: TYPE "X" GYPSUM BOARD

HIGH-PERFORMANCE COATING
HPC-1

IMPACT-RESISTANT WALL PROTECTION
CG-1: CORNER GUARD

PAINT
PNT-1 SW7015 REPOSE GRAY
PNT-2 SW 7757 HIGH REFLECTIVE WHITE
PNT-3

RESILIENT BASE
RB-1: 4" H RUBBER COVE BASE ARMSTRONG / WARM BLACK: R41WB

RESINOUS FLOORING
EPX-1

SEALED CONCRETE
SC-1

FIBERGLASS REINFORCED PLASTIC (FRP) WALL PANELS
FRP-1: COLOUR LIGHT WARM GREY

FLOOR MARKING TAPE
FT110: SHIELDMARK, INC / MIGHTY LINE FLOOR TAPE, COLOR AS NOTED ON FLOOR PLAN- 12 49 00

ROOM FINISH SCHEDULE

Room No.	Room Name	Floor	Base	Wall				Ceiling	Comments
				North	East	South	West		
FIRST FLOOR									
101	HANGAR	SC-1, FT110	-	LP-1	LP-1	LP-1	LP1	EXP-1, PT-2	4, 5
102	MECH	SC-1	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	GYP-1, PT-2	4
103	JANITOR	SC-1	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	GYP-1, PT-2	4
104	RESTROOM	SC-1	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	GYP-1, PT-2	4

FINISH GENERAL NOTES

1. SCHEDULED MATERIALS AND FINISHES SHALL NOT BE ORDERED OR INSTALLED BEFORE THE CONTRACTOR'S PHYSICAL SAMPLE SUBMITTALS HAVE BEEN APPROVED AS CALLED FOR IN THE SPECIFICATIONS.
2. FLOORING CONTRACTOR TO PROVIDE APPROPRIATE VINYL TRANSITIONS AND REDUCERS BETWEEN VARYING FLOORING MATERIALS.
3. FLOOR FINISH TRANSITIONS SHALL BE CENTERED BELOW DOORS IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
4. CONCRETE SLAB TO REMAIN PROTECTED AND COVERED. REFER TO SPECIFICATIONS.
5. HOLLOW METAL FRAMES TO BE PAINTED **<PNT-#>**, UNLESS NOTED OTHERWISE.
6. GYPSUM BOARD AND EXPOSED CEILINGS TO BE PAINTED **PNT-1**, UNLESS NOTED OTHERWISE.
7. SEE NOTATION PLANS FOR CORNER GUARD CALLOUTS.

FINISH COMMENTS

1. REFER TO FINISH FLOOR PLAN FOR FLOOR TRANSITIONS.
2. REFER TO FINISH FLOOR PLAN FOR PAINT LOCATION CALLOUTS NOT SPECIFICED IN SCHEDULE.
3. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION.
4. PROVIDE RB-1 ON WALL OF RESTROOM AND MECH.
5. PAINT PT-1 ON WALL OF RESTROOM AND MECH.

DOOR SCHEDULE

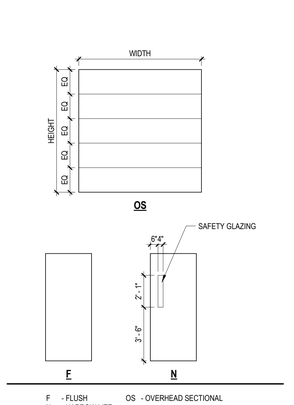
(101)

Door No.	Leaf						Frame		Comments
	Qty	Width	Height	Thick.	Type	Material	Type	Material	
FIRST FLOOR									
101A	1	3' - 0"	7' - 0"	1 3/4"	N	HM	1	HM	1, 2, 4
101B	1	3' - 0"	7' - 0"	1 3/4"	F	HM	1	HM	1, 4
101D	1	3' - 0"	7' - 0"	1 3/4"	F	HM	1	HM	1, 4
101E	1	3' - 0"	7' - 0"	1 3/4"	F	HM	1	HM	1, 4
101F	1	12' - 0"	12' - 0"	2"	OS	-	-	-	
102A	1	3' - 0"	7' - 0"	1 3/4"	F	HM	1	HM	
103A	1	3' - 0"	7' - 0"	1 3/4"	F	HM	1	HM	
104A	1	3' - 0"	7' - 0"	1 3/4"	F	HM	1	HM	

DOOR SCHEDULE NOTES

AL - ALUMINUM (CLEAR ANODIZED)
GHM - GALVANIZED HOLLOW METAL (HPC)
HM - HOLLOW METAL (PAINT)
HPC - HIGH-PERFORMANCE COATING
SMOKE - DOOR TO RECEIVE SMOKE SEALS
WD - SOLID CORE WOOD (STAIN)
STL - STEEL

DOOR NOTES
1. EXTERIOR DOORS TO BE INSULATED / THERMALLY-BROKEN.
2. EXTERIOR GLAZING TO BE INSULATED UNITS.
3. ALL GLAZING TO BE CLEAR U.N.O.
4. EXTERIOR DOORS TO BE PAINTED SLATE GREY

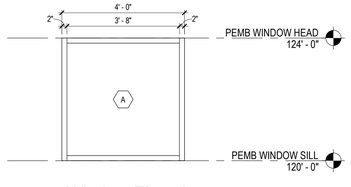


Door Leaf Types

Not To Scale

1

A PROVIDE KEYED MULLION WHERE INDICATED - SEE HARDWARE SCHEDULE



1 Window Elevation
1/2" = 1'-0"

Door Frame Types

Not To Scale

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SEAL

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority

11408 West Perimeter Road Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO.
2301700

ISSUE DATE
04-26-2023

SUBMITTAL
100% CD

Architectural Schedules & Diagrams

A-601

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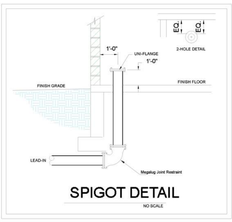
Autodesk Docs://Hub Corporate Hangar/23109 FWA Corporate Hangar.rvt



SPIGOT DETAIL

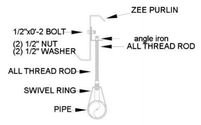
NO SCALE

UPRIGHT SPRINKLER DETAIL

UPRIGHT SPRINKLER
WELDED OUTLET
BRANCHLINE PIPING

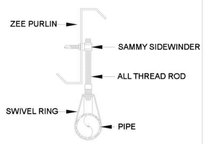
INSTALL SPRINKLER 1"-12" BELOW DECK

6" HANGER DETAIL

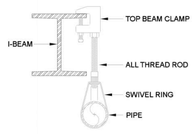


REFERENCE NFPA 13 2013, SECTION 9.1.1.7 FOR SIZING

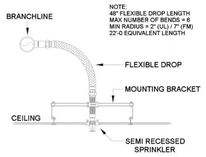
STEEL SAMMY SIDEWINDER



TOP BEAM CLAMP



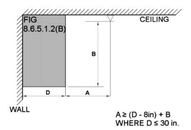
FLEXIBLE DROP TO SPRINKLER



CENTER OF TILE

OBSTRUCTION AGAINST A WALL

(STANDARD SPRAY SPRINKLERS)



A ≥ (D - 6in) + B
WHERE D ≤ 30 in.

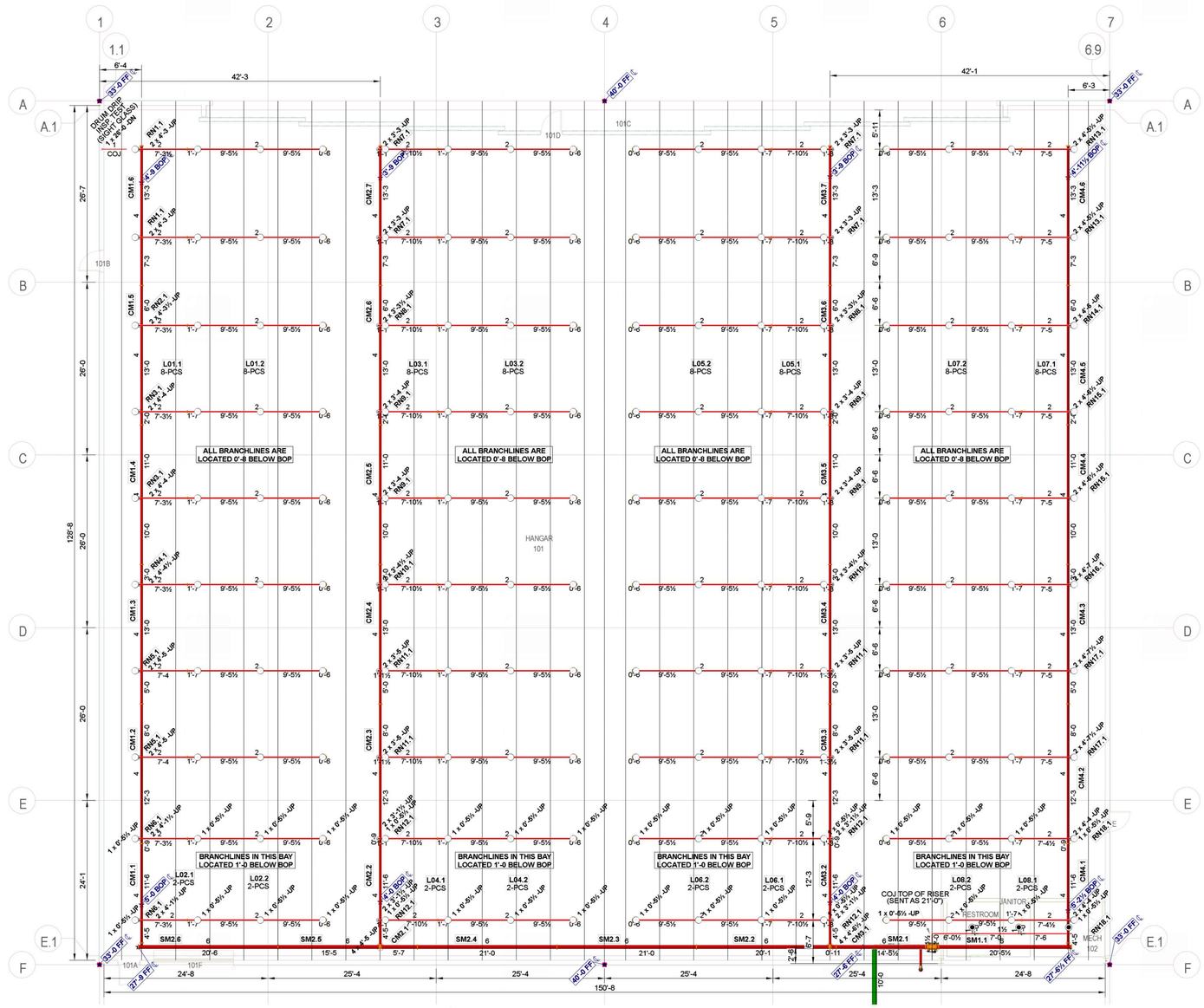
HANGER SPACING - STEEL PIPE

SIZE OF PIPE SUPPORTED	MAX HANGER SPACING	WEIGHT OF WATER FILLED PIPE
1" (Sch 40)	12'-0	2.05 lbs/ft
1 1/4" (Sch 40)	12'-0	2.93 lbs/ft
1 1/2" (Sch 10)	15'-0	3.04 lbs/ft
2" (Sch 10)	15'-0	4.22 lbs/ft
2 1/2" (Sch 10)	15'-0	5.89 lbs/ft
3" (Sch 10)	15'-0	7.94 lbs/ft
4" (Sch 10)	15'-0	11.78 lbs/ft
6" (Sch 10)	15'-0	23.03 lbs/ft

POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS

(STANDARD SPRAY SPRINKLERS)

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF
LESS THAN 1'-0	0"
1'-0 TO LESS THAN 1'-6	2½"
1'-6 TO LESS THAN 2'-0	3½"
2'-0 TO LESS THAN 2'-6	5½"
2'-0 TO LESS THAN 2'-6	6½"
2'-6 TO LESS THAN 3'-0	7½"
3'-0 TO LESS THAN 3'-6	9½"
3'-6 TO LESS THAN 4'-0	12"
4'-0 TO LESS THAN 4'-6	14"
4'-6 TO LESS THAN 5'-0	16½"
5'-0 TO LESS THAN 5'-6	18"
5'-6 TO LESS THAN 6'-0	20"
6'-0 TO LESS THAN 6'-6	24"
6'-6 TO LESS THAN 7'-0	30"
7'-0 TO LESS THAN 7'-6	36"



Fire Protection Overall Plan View

SCALE: 1/8" = 1'-0

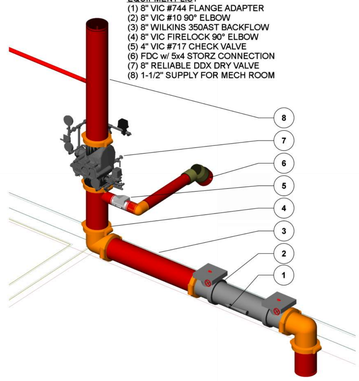
Sprinkler Legend

Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
◉	Reliable	RA1414	F1FR56	3	5.6	Pendent	½	Quick	Chrome	155 °F	
○	Reliable	RA1325	F156	160	5.6	Upright	½	Standard	Brass	360 °F	
				Total = 163							

Hydraulic Information

OCCUPANCY CLASSIFICATION	Extra Hazard Group I
DENSITY (gpm/ft²)	0.17 for 5000ft² (Actual 5035ft²)
TOTAL HOSE STREAMS	500.00
DRY CAPACITY	929.11gal
TOTAL HEADS FLOWING	40
K-FACTOR	5.6
BASE of RISER (gpm)	1383.53
BASE of RISER (psi)	55.420
SAFETY MARGIN (psi)	+1.564 (2.7%)

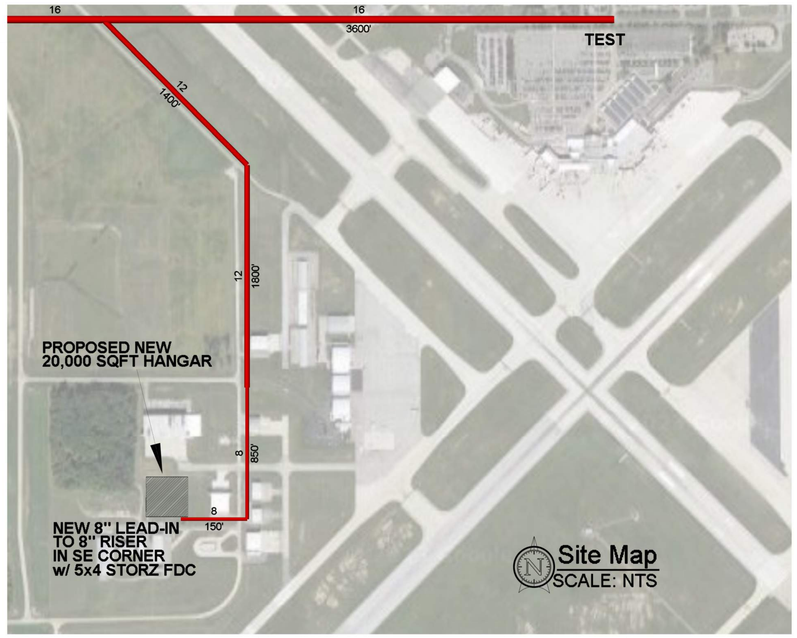
EQUIPMENT LIST
(1) 8" VIC #744 FLANGE ADAPTER
(2) 8" VIC #10 90° ELBOW
(3) 8" WILKINS 350AST BACKFLOW
(4) 8" VIC FIRELOCK 90° ELBOW
(5) 4" VIC #717 CHECK VALVE
(6) FDC w/ 5x4 STORZ CONNECTION
(7) 8" RELIABLE DDX DRY VALVE
(8) 1-1/2" SUPPLY FOR MECH ROOM



Riser - Elevation View

SCALE: 1/2" = 1'-0

RECORD DRAWING



Site Map

SCALE: NTS

SCOPE OF WORK

DESIGN AND INSTALL NEW DRY PIPE SPRINKLER SYSTEM TO PROTECT FWA NEW CORPORATE HANGAR (19,500 SQFT) IN FORT WAYNE, IN. SPRINKLER SYSTEM TO BE SUPPLIED BY NEW 8" LEAD-IN. SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH NFPA 13 2010 EDITION AND LOCAL AUTHORITY.

FIRE PROTECTION GENERAL NOTES

System design is per NFPA #13, Standard for the Installation of Sprinkler Systems, 2010 Edition and NFPA #409, Standard on Aircraft Hangars, 2022 Edition.

-

The hangar is hydraulically designed to deliver a density of 0.17 gpm over the most remote 5000 sq. ft., with allowance for 500 gpm outside hose stream. Calculations are in accordance with NFPA #13, chapter 11.

-

The mechanical room is hydraulically designed to deliver a density of .15 gpm over the most remote 1500 sq. ft., with allowance for 250 gpm outside hose stream. Calculations are in accordance with NFPA #13, chapter 11.

INSTALLATION

All work and material shall conform to NFPA #13, 2010, Insurance company requirements, and all local and state rules and regulations.

-

All materials, where applicable, shall be U.L. listed and Factory Mutual approved for use in automatic sprinkler systems.

-

All new piping shall be hydrostatically tested for two hours in accordance with NFPA #13, 24.2.1 Minimum hydrostatic test pressure shall be 200 PSI.

-

All pipe shall be supported from the building structure utilizing hangers, materials, and methods per NFPA #13, 2010, 9-1.

-

Dry system piping shall be pitched 1/2" per 10 feet for lines and 1/2" per 20 feet for mains to drain back to the systems riser, in accordance with NFPA #13, 8.16.2.3.1 Trapped sections of piping shall have auxiliary drain connections in accordance with 8.16.2.5.3.4.

-

Pendent sprinklers in grid ceilings shall be installed with "return bends" to place the sprinkler in the center of 2'x 2' tiles, or at quarter points in 2'x 4' tiles. See detail this sheet.

-

Unless noted otherwise, pipe lengths shown are center-center. Unless noted otherwise, hanger lengths shown are cut-length.

-

Electric alarm devices (pressure switches, electric bell, flow switches, and interior supervisory devices

PIPE

Main piping shall be Galv steel schedule 10 pipe, manufactured to ASTM-A135 standards.

-

Riser nipples and starter pieces shall be Galv steel schedule 40 pipe, manufactured to ASTM-A135 standards.

-

FITTINGS

Outlets on mains for lines shall be welded branch outlet fittings, Merit Weld Miser Tee-Let, UL/FM approved to 300 PSI for fire protection.

-

Grooved couplings shall be Victaulic "FireLock" rigid couplings, UL/FM approved to 175 PSI for fire protection service. Gaskets shall be "Grade E (Type A)" EPDM rubber compound, rated at -30°F to +230°F.

-

Grooved fittings shall be Victaulic "FireLock" fittings, UL/FM approved to 175 PSI for fire protection service.

-

SYSTEM DESIGN NOTES

THIS AUTOMATIC SPRINKLER SYSTEM IS SIZED BASED ON HYDRAULIC CALCULATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 409, 2022 EDITION AND NFPA 13, 2010 EDITION DENSITY AREA METHOD.

WET SPRINKLER SYSTEM DESIGN CRITERIA: EXTRA HAZARD GROUP 1

A. 0.17 GPM/SQFT. DESIGN DENSITY.
B. MINIMUM 5000 SQFT DESIGN AREA
C. 130 SQFT/SPRINKLER MAXIMUM COVERAGE.
D. ALL SPRINKLERS SHALL HAVE TEMPERATURE RATING OF 360°F

WATER SUPPLY DATA:
STATIC PRESSURE: 58 PSI
RESIDUAL PRESSURE: 50 PSI
FLOW: 4220 GPM
DATE: 10/29/2022

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VFP FIRE SYSTEMS
a subsidiary of APP Group, Inc.
7032 Derek Drive
Fort Wayne, IN 46803
Tel. 260.493.0843
cody.scheumann@vfpfire.us

I have reviewed these plans and certify that they comply with the adopted NFPA standards.

Nicet Name: Aaron Norden
NICET Level III: 105408
Date of Review: 2/1/23

DRAWN BY: Cody Scheumann

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority
11408 West Perimeter Road Fort Wayne, IN 46809

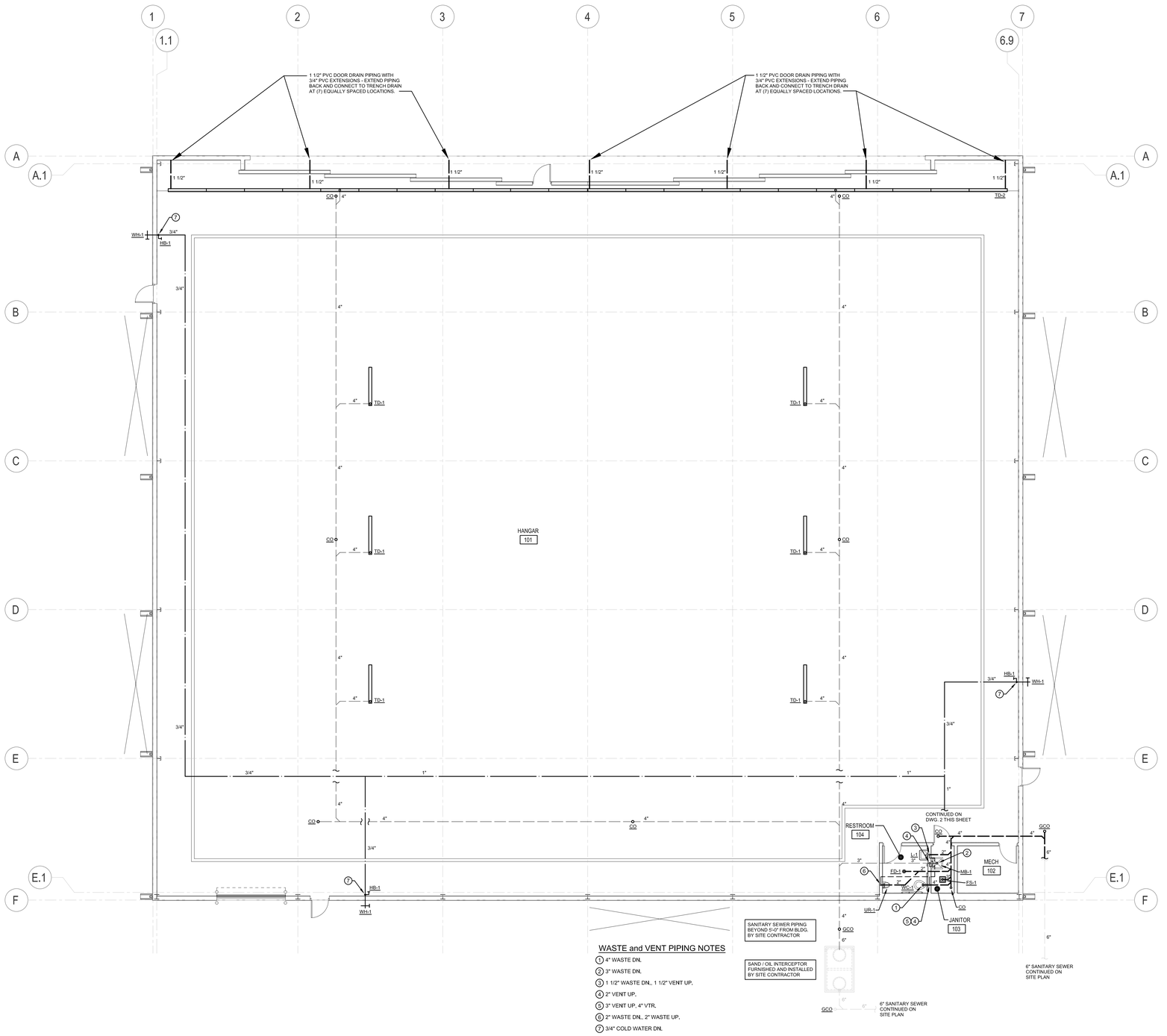
REVISIONS

NO.	DESCRIPTION	DATE
1	90% Owner Review	03-06-23
2	Permit Set	03-13-23
3	100% Owner Review	04-25-23
4	Fabrication	08-01-23
5	For Record	12-14-23

PROJECT NO. 2301700
ISSUE DATE 04-25-23
SUBMITTAL 100% Owner Review
VFP JOB NO. 1025-266822

Fire Suppression Layout

FP-100



WASTE and VENT PIPING NOTES

1. 4" WASTE DN.
2. 3" WASTE DN.
3. 1 1/2" WASTE DN., 1 1/2" VENT UP,
4. 2" VENT UP.
5. 3" VENT UP, 4" VTR.
6. 2" WASTE DN., 2" WASTE UP.
7. 3/4" COLD WATER DN.

PLAN NORTH

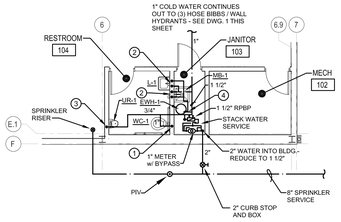
1 First Floor Waste and Vent Piping Plan (and Hose Bibbs)

1/8" = 1'-0"

PLUMBING LEGEND

VENT PIPE	
EXISTING SOIL PIPING	— X — X —
SOIL ABOVE GRADE OR FLOOR	
SOIL BELOW GRADE OR FLOOR	
COLD WATER SUPPLY - (CW)	
HOT WATER SUPPLY - (HW)	
CONDENSATE DRAIN PIPE	CD
CHECK VALVE	
BALL VALVE	
VENT THRU ROOF	VTR
FLOOR DRAIN - (FD)	
FLOOR SINK	FS
TRENCH DRAIN	TD
CLEAN OUT - (CO)	
WALL CLEAN OUT - (WCO)	
GRADE CLEAN OUT	GCO
WATER CLOSET	WC
URINAL	UR
LAVATORY	L
MOP BASIN	MB
ELECTRIC WATER HEATER	EWH
POST INDICATOR VALVE	PIV
ELBOW DOWN	
ELBOW UP	
CAP OR PLUG	
PLUMBING CONTRACTOR	P.C.
GENERAL CONTRACTOR	G.C.
MECHANICAL CONTRACTOR	M.C.
AMERICANS with DISABILITIES ACT	ADA
HANDICAPPED	HC

(3) WALL HYDRANTS AND (3) HOSE BIBBS ARE SHOWN ON OVERALL DRAWING NO. 1 ON THIS SHEET.



WATER PIPING NOTES

1. 1" COLD WATER DN.
2. 1/2" HOT AND COLD WATER DN.
3. 3/4" COLD WATER DN.
4. 3/4" HOT AND COLD WATER DN. TO EWH-1.

PLAN NORTH

2 Restroom Area Water Piping Plan

1/8" = 1'-0"

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SEAL

HERBERT H. HILDEBRAND REGISTERED No. PE10809476 STATE OF INDIANA PROFESSIONAL ENGINEER

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority

114xx West Perimeter Road Fort Wayne, IN 46809

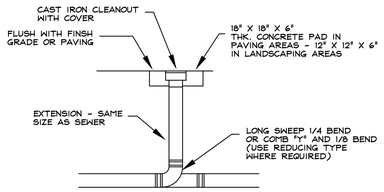
REVISIONS

NO.	DESCRIPTION	DATE
	AS BUILT	11-13-23

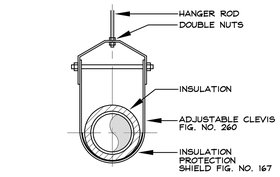
PROJECT NO. 2301700
ISSUE DATE 03/13/23
SUBMITTAL Permit Set

First Floor Plumbing Plans

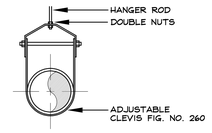
P-100



INTERIOR & EXTERIOR TYPICAL CLEANOUT DETAIL
NOT TO SCALE



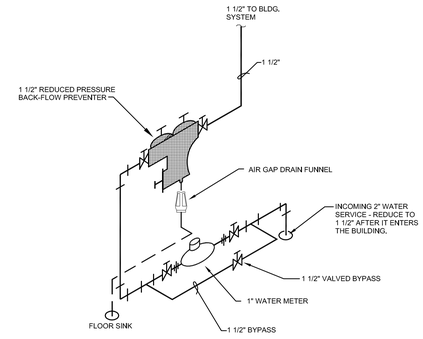
FOR COLD AND ANTI-SWEAT INSULATED PIPE



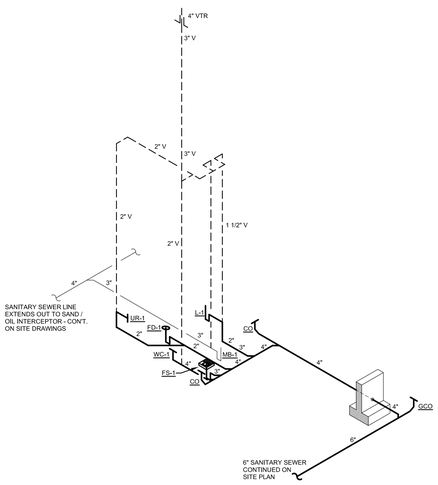
FOR BARE PIPE ONLY

TYPICAL HANGER SUPPORT DETAILS
NOT TO SCALE

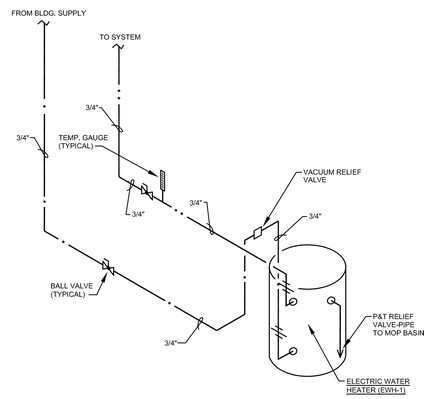
4 Typical Piping Details
N.T.S.



3 Water Service Detail - Stacked
N.T.S.



1 Restroom Area Isometric Piping Diagram
N.T.S.



2 Water Heater Piping Detail
N.T.S.

PLUMBING SYSTEM SPECIFICATIONS

COMPLY WITH APPLICABLE PLUMBING CODES AND STANDARDS PERTAINING TO MATERIALS, PRODUCTS AND INSTALLATION OF POTABLE WATER AND SANITARY SEWAGE SYSTEMS.

SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA, FIXTURE CUTS, INSTALLATION INSTRUCTIONS, ROUGHING DIMENSIONS AND MAINTENANCE DATA FOR EACH COMPONENT OF EACH PLUMBING SYSTEM.

PROVIDE MATERIALS OF SIZES, RATINGS AND CHARACTERISTICS INDICATED. REFERENCED MATERIALS INDICATE STYLE AND QUALITY DESIRED. CONTACT ENGINEER PRIOR TO SUBMITTAL OF ANY OTHER MANUFACTURER FOR PRELIMINARY APPROVAL. PROVIDE PROPER QUANTITY OF PIPING AND EQUIPMENT AS REQUIRED FOR COMPLETE INSTALLATION OF EACH PLUMBING SYSTEM.

IDENTIFY EACH PLUMBING SYSTEM'S COMPONENTS WITH MATERIALS AND DESIGNATIONS AS DIRECTED BY OWNER.

INSTALL EACH PLUMBING SYSTEM IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS, RECOGNIZED INDUSTRY PRACTICES AND MANUFACTURERS RECOMMENDATIONS. ROUGH-IN AND FINAL CONNECTION OF OWNER FURNISHED EQUIPMENT IS BY MECHANICAL CONTRACTOR. INSTALLATION OF OWNER FURNISHED EQUIPMENT IS BY OTHERS.

TEST EACH PLUMBING SYSTEM IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS. STERILIZE POTABLE WATER SYSTEMS.

GUARANTEE ALL EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.

INSTRUCT OPERATING PERSONNEL IN PROPER OPERATION AND MAINTENANCE OF EACH PLUMBING SYSTEM. PROVIDE THREE COMPLETE SETS OF OPERATION AND MAINTENANCE MANUALS TO OWNER AT CLOSE OF PROJECT. PROVIDE ONE SET OF ACCURATE "AS BUILT" DRAWINGS TO ENGINEER AT CLOSE OF PROJECT.

PLUMBING FIXTURE CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER/MODEL NO.	WASTE	VENT	COLD (IN.)	HOT (IN.)	COMMENTS / NOTES
WC-1	WATER CLOSET	AMERICAN STANDARD "MADERA" MODEL NO. 3043.001. SLOAN ROYAL SENSOR FLUSHOMETER MODEL NO. ROYAL 111 ESS-1.6-OR-HW BEMIS TOILET SEAT NO. 1955CT.	4	2	1	—	FLOOR MOUNTED, FLUSH VALVE TYPE, ADA, WHITE, VITREOUS CHINA, ELONGATED BOWL, TOP SPUD, 10" ROUGH-IN, 16 1/2" RIM HGT. 1.6 GPF, POLISHED CHROME FINISH, EXPOSED SENSOR OPERATED FLUSHOMETER, HARDWIRED, HEAVY DUTY SOLID PLASTIC SEAT.
UR-1	URINAL	AMERICAN STANDARD "WASHBROOK" URINAL MODEL NO. 6590.001. SLOAN SENSOR FLUSHOMETER MODEL NO. ROYAL 186 ESS-1.0-HW.	2	2	3/4	—	WALL MOUNTED, WHITE, VITREOUS CHINA, 3/4" INLET TOP SPUD, WASHOUT FLUSH ACTION, 1.0 GPF, POLISHED CHROME FINISH, EXPOSED SENSOR OPERATED FLUSHOMETER, HARDWIRED.
L-1	LAVATORY	AMERICAN STANDARD "LUCERNE" MODEL NO. 0355.012. SLOAN SENSOR FAUCET MODEL NO. SF-2200-4-PLG-CP-1.5GPM-LAM-IR-FCT TRUEBRO LAV GUARDZ NO. 103 E-Z.	1 1/2	2	1/2	1/2	WALL HUNG, WHITE, VITREOUS CHINA, DECK MOUNT FAUCET w/ GOOSENECK SPOUT, POLISHED CHROME FINISH, INFRARED SENSOR, HARDWIRED POWER, TRAP WRAP KIT
MB-1	MOP BASIN	FIAT TERRAZZO MOP SERVICE BASIN MODEL NO. TSBC1610. ZURN SINK FAUCET NO. Z843M1-RC. FIAT HOSE & BRACKET NO. 832AA.	3	1 1/2	1/2	1/2	FLOOR MOUNTED ONE-PIECE TERRAZZO BASIN WITH 6" DROPPED FRONT WITH STAINLESS STEEL CAP ON DROP, STAINLESS STEEL INTEGRAL DRAIN BODY WITH S.S. STRAINER, WALL HUNG FAUCET, ROUGH CHROME FINISH, 6" VACUUM BREAKER SPOUT WITH 3/4" THREADED OUTLET, BRACE AND PAIL HOOK, PROVIDE HOSE AND HOSE BRACKET.
FD-1	FLOOR DRAIN	ZURN FLOOR DRAIN MODEL NO. ZN415-BZ1.	2	—	—	—	DURA-COATED CAST IRON BODY, NO-HUB BOTTOM OUTLET, 6" DIA. W/ POLISHED NICKEL BRONZE STRAINER.
FS-1	FLOOR SINK	ZURN SANI-FLOR RECEPTOR MODEL NO. Z1901-2	3	—	—	—	12" x 12" x 8" DEEP CAST IRON BODY WITH WHITE A,R,E, INTERIOR AND TOP AND WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER AND SLOTTED HALF GRATE.
CO	CLEANOUT	ZURN FLOOR CLEANOUT MODEL NO. ZN1400-BZ1.	4	—	—	—	CAST IRON BODY, GAS AND WATER TIGHT THREADED ABS TAPERED PLUG AND POLISHED NICKEL BRONZE TOP
WH-1	WALL HYDRANT	PRIER WALL HYDRANT MODEL NO. C-634-N-12	—	—	3/4	—	FREEZELESS, ANTI-SIPHON, DOUBLE BACKFLOW CHECK VALVE, INTEGRAL VACUUM BREAKER, 3/4" GARDEN HOSE THREAD OUTLET.
HB-1	HOSE BIBB	PRIER SILL FAUCET MODEL NO. C-355NP,75-SGH.	—	—	3/4	—	ANTI-SIPHON BACKFLOW CHECK VALVE CONNECTION AND INTEGRAL VACUUM BREAKER, HANDLE AND LOOSE KEY.
EWH-1	ELECTRIC WATER HEATER	STATE COMMERCIAL-GRADE ELECTRIC WATER HEATER MODEL NO. ES6 10 SOMS K.	—	—	3/4	3/4	10 GALLON CAPACITY, 1650 WATTS ,120 VOLTS, 8 GPH RECOVERY @ 90° RISE, PROVIDE T & P RELIEF VALVE, PIPED TO MOP BASIN.
TD-1	TRENCH DRAIN 6" WIDE x 80" LONG	ZURN 6 3/4" WIDE REVEAL TRENCH DRAIN MODEL NO. Z886-HD-E1-U4-DGE,	4	—	—	—	6 3/4" WIDE REVEAL TRENCH DRAIN SYSTEM, 80" LONG CHANNELS MADE OF HIGH DENSITY POLYETHYLENE (HDPE) WITH CLOSED END CAPS, NO-HUB BOTTOM OUTLET AND DUCTILE IRON SLOTTED GRATE - CLASS E,
TD-2	TRENCH DRAIN 6" WIDE x 80" LONG	ZURN 6 3/4" WIDE REVEAL TRENCH DRAIN MODEL NO. Z886-HD-E1-U4-DGE,	4	—	—	—	6 3/4" WIDE REVEAL TRENCH DRAIN SYSTEM, 80" LONG CHANNELS MADE OF HIGH DENSITY POLYETHYLENE (HDPE) WITH CLOSED END CAPS, NO-HUB BOTTOM OUTLET AND DUCTILE IRON SLOTTED GRATE - CLASS E, (2) RUNS OF (11) CHANNELS TIED TOGETHER.
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	APOLLO REDUCED PRESSURE BACKFLOW PREVENTER MODEL NO. RP-4ALF-0-7-A2-F.	—	—	1 1/2	—	LEAD-FREE BACKFLOW PREVENTER, STANDARD Y-STRAINER, BALL VALVES AND SAE THREADED TEST COCKS, PROVIDE AIR GAP DRAIN FUNNEL PIPED TO FLOOR DRAIN.
EEW-1	EMERGENCY EYEWASH (PORTABLE)	GUARDIAN AQUAGUARD GRAVITY - FLOW PORTABLE EYEWASH - 16 GAL. MODEL NO. G1540BA.	—	—	—	—	SELF-CONTAINED 16 GALLON CAPACITY GRAVITY-FLOW EYEWASH UNIT. EYEWASH DELIVERS 0.5 GPM FOR 15 MINUTES. PROVIDE 8 OZ. BOTTLE OF A BACTERIOSTATIC ADDITIVE TO PRESERVE WATER.
EEWC-1	EMERGENCY EYEWASH COVER	GUARDIAN VINYL COVER FOR AQUAGUARD EYEWASH MODEL NO. G1540CVR.	—	—	—	—	CLEAR 16 GAUGE VINYL COVER WITH VELCRO FRONT FLAP FOR EASY ACCESS FOR EYEWASH UNIT.

NOTES:
1. EXACT MOUNTING HEIGHT OF FIXTURE SHALL BE DETERMINED BY ARCHITECT UNLESS OTHERWISE NOTED.
2. ROUGH ACCORDING TO ABOVE SCHEDULE UNLESS OTHERWISE INDICATED.
3. HEADERS INDICATED AT FIXTURES TO BE FULL SIZE THEIR ENTIRE LENGTH. FIXTURE CONNECTIONS AS PER ABOVE SCHEDULE OR AS NOTED OR INDICATED.

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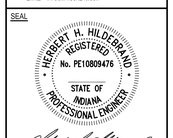
SEAL



HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority
114xx West Perimeter Road Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE
	AS BUILT	11-13-23

PROJECT NO. 2301700
ISSUE DATE 03/13/23
SUBMITTAL Permit Set

Plumbing Fixture Schedule, Isometric and Details

P-200

CEILING FAN SCHEDULE

TAG	MODEL	TYPE	SIZE	RPM	ELECTRICAL	NOTE
CF-1	PF8	PADDLE	10'	148	480V / 3 PHASE / 1 HP	#1
CF-2	PF8	PADDLE	10'	148	480V / 3 PHASE / 1 HP	#1
CF-3	PF8	PADDLE	10'	148	480V / 3 PHASE / 1 HP	#1
CF-4	PF8	PADDLE	10'	148	480V / 3 PHASE / 1 HP	#1

NOTE:
1. STRUCTURAL GRADE ALUMINUM AIRFOIL BLADES (8 BLADE) WITH INDUSTRIAL-GRADE MOTOR AND DIGITAL WALL CONTROLLER.

ELECTRIC HEATER SCHEDULE

TAG	MFG	MODEL	WATTS / BTU	CFM	ELECTRICAL			LOCATION	NOTE
					AMPS	VOLTS	PHASE		
EUH-1	MARKEL	F2F5103N	3,300 / 11,200	400	9,17	208	3	MECH RM.	#1

NOTE:
#1. COMMERCIAL FAN FORCED UNIT HEATER. PROVIDE WITH WALL/CEILING BRACKET, UNIT MOUNTED DISCONNECT, AND INTEGRAL THERMOSTAT.

MINI SPLIT SYSTEM SCHEDULE

TAG	MFG	MODEL	CAPACITY (BTU/H)	CFM LOW-MED-HI	SEER	ELECTRICAL			NOTES
						V	PH	MCA	
IU-1	MITSUBISHI	INDOOR: MSZ-HM12NA	COOLING: 12,200 HEATING: 14,500	134-229-406	-	208	1	1	#1
OU-1	MITSUBISHI	OUTDOOR: MUZ-HM12NA	COOLING: 12,200 HEATING: 14,500	—	18	208	1	15	#3

NOTES:
#1. WALL MOUNTED UNIT WITH FILTERS AND WIRELESS THERMOSTAT.
#2. OUTDOOR UNIT ON GRADE. RUN REFRIGERANT PIPE TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATIONS.

LOUVER SCHEDULE

TAG	MFG	MODEL	SIZE	CFM	MIN. FREE AREA SQ. FT	MAX. FREE VELOCITY FPM	S.P. IN W.G	NOTE
LV-1	RUSKIN	ELF375X	24"x24"x4"	1,200	1,94	800	0,1	#1
LV-2	GREENHECK	ECD-401	26"x26"x4"	1,200	1,93	800	0,1	#1,2

NOTES:
1. EXTRUDED ALUMINUM, 4" DEEP, CHANNEL FRAME LOUVER. COLOR TO BE SELECTED BY ARCHITECT.
2. PROVIDE LOUVER/DAMPER COMBINATION WITH MOTORIZED DAMPER AND ACTUATOR. DAMPER IS TO BE CONNECTED TO (EF-4) AND ONLY OPEN WHILE FAN IS ENERGIZED.

FAN SCHEDULE

TAG	CFM	EXT. SP.	HP / WATTS	VOLTS	PHASE	MFG.	MODEL	REMARKS	NOTES
EF-1	100	0,25	37 WATTS	115	1	COOK	GC-148	CEILING	#1, 3
EF-2	150	0,25	50 WATTS	115	1	COOK	GC-168	CEILING	#1, 2
EF-3	200	0,25	172 WATTS	115	1	GREENHECK	SP-B200	CEILING	#1, 3
EF-4	1,200	0,25	1/2 HP	460	3	GREENHECK	AER-36	SIDEWALL	#4

1. CEILING MOUNTED EXHAUST FAN. PROVIDE WITH DISCONNECT AND VIBRATION ISOLATION HANGERS.
2. FAN IS TO BE CONNECTED TO LIGHTING OCCUPANCY SENSOR.
3. FAN IS TO RUN CONTINUOUSLY
4. SIDEWALL PROPELLER FAN WITH GUARD, WALL HOUSING, WEATHERHOOD, AND WALL SWITCH.

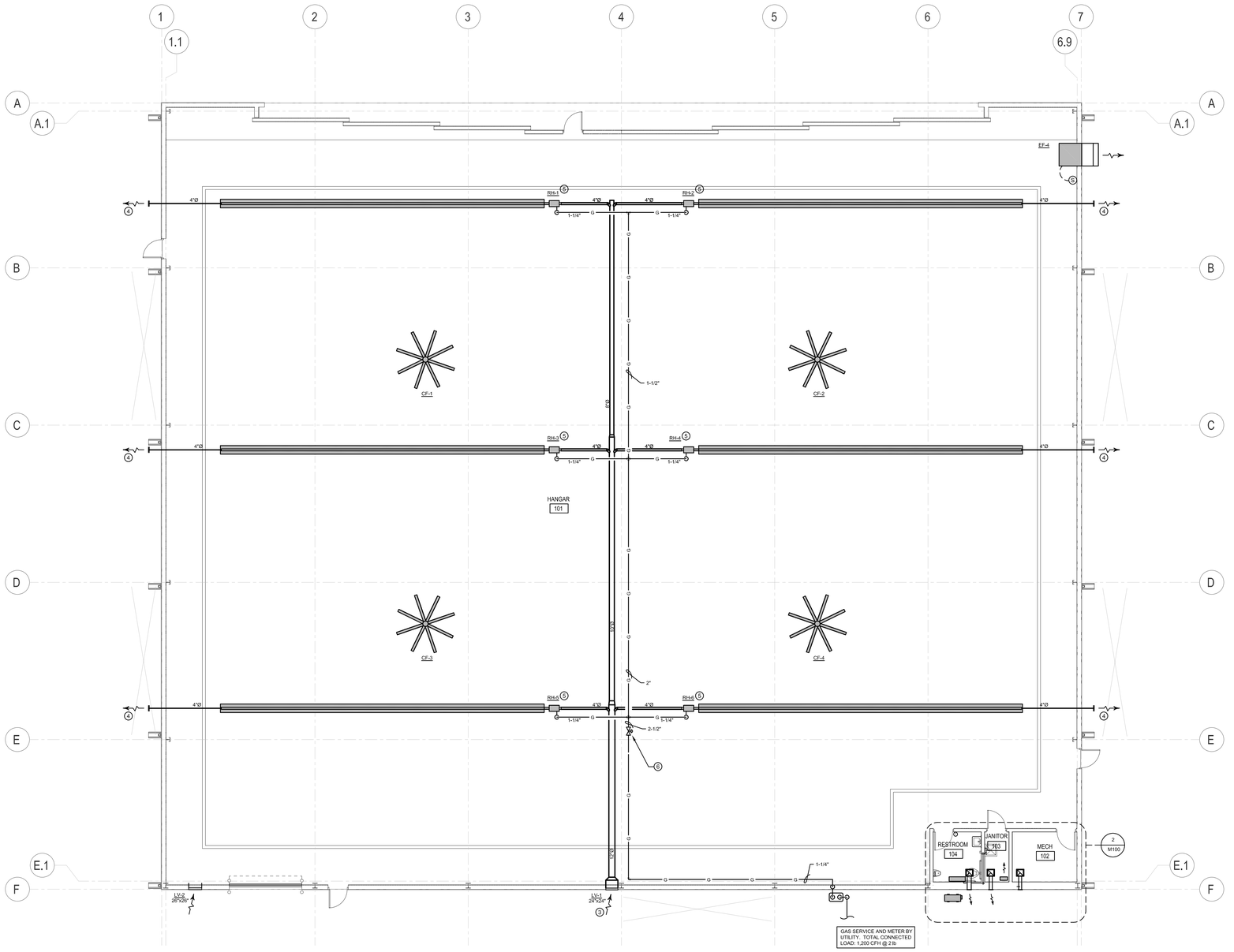
RADIANT HEATERS SCHEDULE

TAG	STRAIGHT TUBE LENGTH	ELECTRICAL	HEATING INPUT (BTU/H)	CONFIGURATION	MODEL	TYPE	MFG.	NOTES
RH-1	55'-9"	120V 5,0 AMPS	200,000 EACH	4" SINGLE TUBE	MTSA 200	N.G.	SOLARONICS	#1
RH-2	55'-9"	120V 5,0 AMPS	200,000 EACH	4" SINGLE TUBE	MTSA 200	N.G.	SOLARONICS	#1
RH-3	55'-9"	120V 5,0 AMPS	200,000 EACH	4" SINGLE TUBE	MTSA 200	N.G.	SOLARONICS	#1
RH-4	55'-9"	120V 5,0 AMPS	200,000 EACH	4" SINGLE TUBE	MTSA 200	N.G.	SOLARONICS	#1
RH-5	55'-9"	120V 5,0 AMPS	200,000 EACH	4" SINGLE TUBE	MTSA 200	N.G.	SOLARONICS	#1
RH-6	55'-9"	120V 5,0 AMPS	200,000 EACH	4" SINGLE TUBE	MTSA 200	N.G.	SOLARONICS	#1

#1. PROVIDE HEATERS COMPLETE WITH BURNERS, TUBULAR INFRARED EMITTERS, FITTINGS, REFLECTOR SHIELDS, HANGERS, SOLID STATE ELECTRONIC CONTROLS WITH SPARK IGNITION, SAFETY CONTROLS, AND LOW VOLTAGE THERMOSTATS. COMBUSTION AIR TO BE DUCTED FROM BUILDING EXTERIOR, EXHAUST FLUE DUCTED THROUGH SIDEWALL.

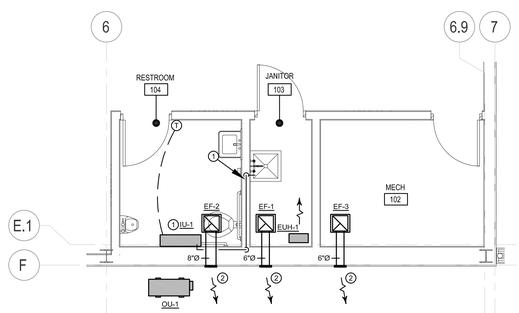
MECHANICAL SPECIFICATIONS

1. ALL MECHANICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL PLUMBING AND MECHANICAL CODES AS ADOPTED BY THE STATE OF INDIANA AND ALL LOCAL CODES AS THEY MAY APPLY.
2. OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED BY THIS WORK.
3. ALL MECHANICAL EQUIPMENT SHALL BE AS SCHEDULED ON DRAWINGS OR AN APPROVED EQUAL MEETING THE SCHEDULED SPECIFICATIONS. ALL MECHANICAL EQUIPMENT SHALL CARRY A MINIMUM ONE-YEAR WARRANTY. CONTRACTOR SHALL PROVIDE A ONE-YEAR WARRANTY ON ALL MATERIALS AND WORKMANSHIP.
4. THE CONTRACTOR SHALL PROVIDE ELECTRONIC SUBMITTALS AND SHOP DRAWINGS TO THE ARCHITECT WITHIN 30 DAYS AFTER THE NOTICE TO PROCEED. CONTRACTOR SHALL PROVIDE SUBMITTALS ON ALL MAJOR ITEMS OF MECHANICAL EQUIPMENT.
5. SANITARY DRAINS SHALL BE PIPED FROM ALL PLUMBING FIXTURES TO THE NEW SANITARY SEWER AS SHOWN ON THE PLANS.
   PIPING & FITTINGS:
   UNDERGROUND/ABOVEGROUND - PVC SCHEDULE 40
   ASTM-D2665 SOLVENT CEMENT-ASTM-D-2564.
6. ALL DOMESTIC WATER PIPING ABOVE GRADE SHALL BE COPPER TYPE "L" HARD, WITH LEAD-FREE SOLDERED FITTINGS.
7. EACH FIXTURE AND PIECE OF EQUIPMENT SHALL BE CONNECTED WITH STOP VALVES.
8. ALL COLD AND HOT WATER PIPING, STORM PIPING, AND PVC WASTE AND VENT PIPING EXPOSED WITHIN CEILING PLENUMS SHALL BE INSULATED WITH 1/2" FOAMED PLASTIC, 25-50 FIRE RATED INSULATION.
9. FURNISH AND INSTALL ALL PLUMBING FIXTURES AND ACCESSORIES, SUPPORTS, CARRIERS, FAUCETS, STRAINERS, TRIM, CHROME PLATED TAIL PIECES AND TRAPS, STOP VALVES, CLEANOUTS, HOSE BIBBS, AS SCHEDULED ON THE PLANS.
10. ALL GAS PIPING SHALL BE SCHEDULE #40 BLACK STEEL WITH 150# MALLEABLE IRON FITTINGS WITH DIRT LEGS, UNIONS, STOP VALVES AND PRESSURE REGULATOR AT ALL CONNECTIONS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE INDIANA GAS CODE.
    PIPE SCHEDULE SHALL BE:
    UP TO 2 1/2" - 150 PSI BLACK MALLEABLE IRON SCREWED FITTINGS.
    3" AND UP - STANDARD WEIGHT WELDED TYPE FITTINGS WITH 150 LB. STEEL FLANGES.
    GAS COCKS UP TO 3/4", SCREWED TYPE 125 LB, BRONZE BODY - WALWORTH 590,
    GAS COCKS 1" AND UP, SCREWED TYPE 175 LB. IRON BODY - WALWORTH 1796.
    MAKE ALL ARRANGEMENTS WITH THE LOCAL GAS COMPANY FOR THE NEW SERVICE. GAS PIPE SHALL INSTALLED ABOVE THE CEILING WITH PIPE HANGING SUPPORTS.
11. ALL SHEET METAL DUCTWORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH NFPA #90A & B AND THE ASHRAE GUIDE AND HVAC DUCT CONSTRUCTION STANDARDS AS PUBLISHED BY SMACNA. DUCTS SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL UNLESS OTHERWISE INDICATED ON DRAWINGS, INCLUDING TURNING VANES, AIR EXTRACTORS, BACK DRAFT DAMPERS, FLEXIBLE CANVAS CONNECTIONS, AND MANUAL DAMPERS.
12. ALL DUCT JOINTS SHALL BE SEALED WITH MASTIC MATERIAL IN ACCORDANCE WITH HVAC DUCT CONSTRUCTION STANDARDS AS PUBLISHED BY SMACNA, LOW PRESSURE DUCT SEALING REQUIREMENTS.
13. PROVIDE PLASTIC SELF ADHESIVE LABEL FOR ALL EQUIPMENT. THE LABEL SHALL INCLUDE THE EQUIPMENT TAG AS SCHEDULED (EX: RTU-1, RTU-2, RTU-3, AND EF-1).
16. FURNISH AND INSTALL GAS FIRED RADIANT TUBE HEATERS AS SCHEDULED ON THE PLANS WITH TWO-STAGE GAS VALVE, TWO SPEED BLOWER, DIRECT SPARK IGNITOR, 16 GA HEAT TREATED ALUMINIZED STEEL TUBES, ALUMINUM REFLECTORS, AND GAS SAFETY SHUT OFF.
17. FURNISH AND INSTALL SPLIT SYSTEM HEAT PUMP AS SCHEDULED ON THE PLANS. UNIT SHALL HAVE INVERTER DRIVEN COMPRESSOR, FOUR SPEED INDOOR FAN OPTIONS, ANIT-MOLD FILTER, AND WIRELESS REMOTE CONTROLLER. THE UNIT SHALL BE MITSUBISHI, CARRIER, OR TRANE.
18. DO ALL CUTTING AND PATCHING INVOLVED IN THE INSTALLATION OF THIS WORK. SPECIAL ATTENTION SHALL BE TAKEN FOR ROOF PENETRATIONS. ALL FLASHING SHALL BE PERFORMED BY PERSONS QUALIFIED IN ROOFING. ROOFING WILL BE SUBJECT TO ARCHITECT'S APPROVAL.
19. REMOVE ALL DEBRIS AND SURPLUS MATERIAL FROM THE PREMISES AS PROGRESS OF THE WORK DICTATES.
20. CLEAN ALL FIXTURES INSIDE AND OUTSIDE OF ALL EQUIPMENT. AFTER CLEANING OF EQUIPMENT THE CONTRACTOR SHALL REPAIR ANY SCRATCHES OR MARKS OR THE SAME BY OBTAINING PAINT FROM EQUIPMENT MANUFACTURER MATCHING THAT ON THE EQUIPMENT.



PLAN NORTH

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



PLAN NORTH

2 Enlarged Restroom and Mech. Mechanical Plan
1/4" = 1'-0"

MECHANICAL LEGEND

THERMOSTAT	T
SUPPLY AIR DUCT	
RETURN AIR DUCT	
EXHAUST AIR DUCT	
CEILING DIFFUSER - (CD)	
RETURN AIR GRILLE - (RG)	
EXHAUST AIR GRILLE - (EG)	
OUTSIDE AIR DUCT	
TURNING VANE	
VOLUME DAMPER	
FIRE DAMPER (FD)	
AIR CURTAIN	AC-
ZONE DAMPER	ZD-
BYPASS DAMPER	BD-
CUBIC FEET PER MINUTE	CFM
CUBIC FEET PER HOUR	CFH
POUNDS PER SQUARE INCH	PSI
STATIC PRESSURE	SP
1000 BTU PER HOUR	MBH
ELECTRIC CABINET HEATER	ECH-
EXHAUST FAN	EF-
FURNACE UNIT	FU-
GAS REGULATOR	
BALL VALVE	
ROUND DUCT	Ø
GAS SUPPLY	G
GAS WATER HEATER	GWH-
ELBOW DOWN	
ELBOW UP	
MECHANICAL CONTRACTOR	M.C.
CONNECT TO EXISTING	

GENERAL NOTES

1. COORDINATE WITH LIGHTING AND PLUMBING PIPING FOR DUCTWORK SPACE AVAILABLE.
2. ALL BRANCH DUCTS ARE TO BE PROVIDED WITH A VOLUME DAMPER.
3. DIFFUSERS CAN BE CONNECTED WITH NO MORE THAN 5'-0" OF FLEX DUCT.

PLAN NOTES

1. ROUTE 1/2" CONDENSATE DOWN TO FLOOR DRAIN IN MECHANICAL ROOM.
2. TERMINATE EXHAUST DUCT WITH WALL CAP.
3. COMBUSTION AIR INLET FOR RADIANT TUBE HEATERS. INSULATE COMBUSTION AIR DUCT WITH 1-1/2" INSULATION WRAP.
4. ROUTE TUBE HEATER FLUE OUT SIDEWALL.
5. TUBE HEATER TO BE INSTALLED ROUGHLY 25'-30' A.F.F.
6. PROVIDE GAS REGULATOR (2PSI TO 7-14" W.C.)

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HERBERT H. HILDEBRAND
REGISTERED
No. PE10809476
STATE OF INDIANA
PROFESSIONAL ENGINEER

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority

114xx West Perimeter Road Fort Wayne, IN 46809

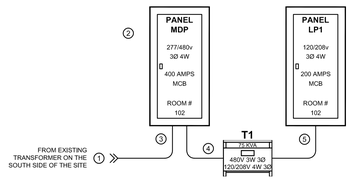
REVISIONS

NO.	DESCRIPTION	DATE
1	EXHAUST FANS	7-6-23
2	GAS PRESSURE & METER LOCATION	7-28-23
	AS BUILT	11-13-23

PROJECT NO. 2301700
ISSUE DATE 03/13/23
SUBMITTAL Permit Set

Overall Mechanical Plan

M-100



⑤ RISER DIAGRAM NOTES:

1. SERVICE SHALL BE COORDINATED WITH INDIANA & MICHIGAN POWER COMPANY,
2. MDP PANEL SHALL BE SERVICE ENTRANCE RATED WITH TVSS.
3. (2) 3" PVC CONDUIT WITH (4) #250 KCMIL AL, (1) #1/0 AWG AL GND IN EACH. (400 A, AL)
4. 1-1/2" CONDUIT WITH (3) #1 AWG CU, (1) #6 AWG CU GND. (75 kVA, 480V, 113A, OCPD 125A)
5. 2" CONDUIT WITH (4) #3/0 AWG CU, (1) #4 AWG CU GND. (200 A, CU)

ELECTRICAL SPECIFICATIONS

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODES (NEC), NFPA 72, 2010 INDIANA ENERGY CONSERVATION CODE, NFPA 409-2022 AND ALL STATE AND LOCAL CODES. WHERE APPLICABLE ALL ELECTRICAL EQUIPMENT IN THE HANGAR SHALL BE IN ACCORDANCE WITH NEC 513 FOR HAZARDOUS AREAS WITHIN AIRCRAFT HANGARS.
2. DO ALL EXCAVATION AND BACKFILL REQUIRED FOR THE INSTALLATION OF THE WORK.
3. SCHEDULE 80 PVC MAY BE USED BELOW GRADE BUT TRANSITIONED TO RIGID GALVANIZED STEEL FOR ALL STUB-UPS.
4. NO CONDUITS SHALL BE EMBEDDED IN THE FLOOR SLAB.
5. ALL EXPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT.
6. CONCEALED CONDUITS AND EXPOSED CONDUITS ABOVE 15 FEET IN HEIGHT ABOVE THE FINISHED FLOOR MAY BE EMT.
7. ALL CONDUIT RUNS MUST INCLUDE PULL STRINGS.
8. CONDUCTORS SHALL BE TYPE THW, THHN, THWN, OR XHHW WITH MINIMUM #12 GAUGE COPPER, FOR POWER AND #18 GAUGE COPPER, FOR CONTROL AND LOW VOLTAGE.
9. CONNECTORS SHALL BE SCOTCH-LOC FOR #6 GAUGE AND SMALLER, SPLIT BOLT TYPE FOR LARGER CONDUCTORS.
10. JUNCTION BOXES SHALL BE GALVANIZED STEEL WITH REMOVABLE COVER PLATE OR HINGED DOORS, AND SHALL BE ACCESSIBLE.
11. OUTSIDE WIRING SHALL HAVE WEATHERPROOF ENCLOSURES.
12. FINAL CONNECTIONS TO MOTORIZED EQUIPMENT SHALL BE "UA" SEALTITE.
13. NON-FUSED AND FUSED DISCONNECT SWITCHES SHALL BE HEAVY DUTY, NEMA 1 ENCLOSURE, FUSED WITH FUSETRONS.
14. PANELBOARDS, MOTOR STARTERS, SAFETY SWITCHES (HEAVY DUTY), ETC., SHALL BE AS MANUFACTURED BY SQUARE D, CUTLER-HAMMER, SIEMENS, AND GENERAL ELECTRIC. FURNISH AND INSTALL TYPEWRITTEN DIRECTORIES UNDER PLASTIC IN FRAMES FOR EACH AND EVERY CIRCUIT IN THE PANELBOARD PER 2020 NEC ARTICLE 408.4.
15. RECEPTACLE WIRING DEVICES SHALL 20A SPECIFICATION GRADE WITH STAINLESS STEEL COVER PLATES.
16. WALL PLATES SHALL BE STAINLESS STEEL.
17. SWITCHES SHALL BE EQUAL TO PASS & SEYMOUR # PS20AC1.
18. GROUND FAULT INTERRUPTER TYPE DEVICES SHALL BE EQUAL TO PASS & SEYMOUR # 2095 FOR ALL RECEPTACLES ON THE EXTERIOR, LOCATED IN TOILET ROOMS OR LOCATED IN KITCHENS. PASS & SEYMOUR PLUGTAIL #PT-2095 IS ALSO ACCEPTABLE.
19. THE ENTIRE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. 70).
20. FURNISH AND INSTALL ALL POWER AND CONTROL WIRING FOR THE AC/HEATING SYSTEM. THERMOSTAT WIRING REQUIREMENT SHALL BE FURNISHED BY MC.
21. DO ALL CUTTING AND PATCHING REQUIRED BY THE INSTALLATION OF THIS WORK.
22. ALL NEW FIRE ALARM EQUIPMENT SHALL BE INSTALLED PER A.D.A. AND N.F.P.A. REQUIREMENTS FOR LOCATION OF DEVICES. ALL DEVICES IN DUCTS/DAMPERS SHALL BE INSTALLED PER N.F.P.A. REQUIREMENTS FOR LOCATION IN DUCTS/DAMPERS.
23. A FIRE ALARM SYSTEM SHALL BE PROVIDED FOR THE HANGAR AS FOLLOWS:
    1) SYSTEM SHALL BE BY JOHNSON CONTROLS / SIMPLEX MODEL 4007ES.
    2) PROVIDE MANUAL PULL STATIONS, SMOKE DETECTORS / HEAT DETECTORS, WATER FLOW AND TAMPER SWITCHES, AUDIBLE AND VISUAL NOTIFICATION DEVICES AS REQUIRED.
    3) SYSTEM SHALL BE CONNECTED TO THE EXISTING CAMPUS WIDE FIRE ALARM SYSTEM.
    4) PROVIDE UPDATING / PROGRAMMING OF THE EXISTING SYSTEM TO ACCEPT AND MONITOR THE SYSTEM FOR THE NEW HANGAR.
    5) PROVIDE A FIBER OPTIC CONNECTION FROM THE FIRE ALARM CONTROL PANEL IN THE HANGAR TO GATE 17A WHERE THE EXISTING FIBER NETWORK CAN BE INTERCEPTED / CONNECTED.
    6) THE FIRE ALARM PANEL SHALL HAVE INTEGRAL BATTERY BACK-UP.
24. TELECOMMUNICATIONS:
    1) PROVIDE A WALL-MOUNTED SWING OUT TELECOMMUNICATIONS RACK 20RU OR LARGER.
    2) WITHIN THE RACK, PROVIDE CAT 6 AND FIBER PATCH PANELS.
    3) TERMINATE, LABEL ON EACH END, AND TEST ALL FIBER OPTIC AND CAT 6 CABLE.
    4) PROVIDE 1-CAT 6 DATA DROP WITH RJ45 JACK IN EACH STRUCTURAL COLUMN BAY AROUND THE EXTERIOR WALLS OF THE HANGAR WITH EXCEPTION OF THE WALL WITH THE MAIN HANGAR DOOR.
    5) PROVIDE A FIBER OPTIC CONNECTION FROM THE PATCH PANEL IN THE TELECOM RACK IN THE HANGAR TO GATE 17A WHERE THE EXISTING FIBER NETWORK CAN BE CONNECTED TO.
    6) THE DESIGN-BUILDER SHALL PROVIDE AN ADDITIONAL FIBER PATCH PANEL BOARD (I-STAR) TO BE INSTALLED INSIDE THE GATE 17A CABINET IN ORDER TO PROVIDE CAPACITY FOR CONNECTION OF THE NEW HANGAR TO THE FIBER NETWORK.
    7) THE DESIGN-BUILDER SHALL FIELD VERIFY AS PART OF ITS PRICE PROPOSAL DEVELOPMENT THE SPECIFIC MAKE / MODEL OF THE PATCH PANEL BOARD AND CAPACITY WITHIN THE EXISTING CABINET TO MOUNT THE EXPANSION PATCH PANEL BOARD WITHIN THE EXISTING CABINET.
    8) IF SUFFICIENT SPACE IS UNAVAILABLE, THE DESIGN-BUILDER SHALL REPLACE THE ENTIRE FIBER PATCH PANEL WITH A COMPATIBLE iSTAR PANEL WITH SUFFICIENT CONNECTION PORTS.
25. A LIGHTNING PROTECTION SYSTEM SHALL BE PROVIDED AS FOLLOWS:
    1) SYSTEM SHALL BE COMPLIANT WITH NFPA 780 AND UL 96A. SYSTEM SHALL HAVE A UL MASTER LABEL.
    2) AIR TERMINALS, AND ALL CONDUCTORS SHALL BE COPPER EXCEPT WHERE DISSIMILAR METALS WILL CREATE CORROSION, IN THESE AREAS ALUMINUM COMPONENTS MAY BE UTILIZED.
    3) THE DOWN CONDUCTORS SHALL BE CONCEALED IN PVC CONDUITS.
    4) ALL CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC WELDED.
26. PROVIDE CARBON MONOXIDE DETECTION IN THE HANGAR BAY.

SQUARE D
by Schneider Electric

PANEL: LP1

VOLTAGE: 208/120					DATE: 11-3-23
REMARKS	BKR	CKT	CKT	BKR	REMARKS
LTS EXTERIOR	20	1	2	20	LTS EMERGENCY 101, EXIT & REMOTE
LTS 101	20	3	4	20	LTS 101
RCPT 101	20	5	6	20	RCPT 101
RCPT 101	20	7	8	20	RCPT 102, 103
DATA RACKS	20	9	10	20	RH-1, RH-2
EXHAUST FAN CONTROL	20	11	12	20	RH-3, RH-4
SPARE	20	13	14	20	RH-5, RH-6
SPARE	--	15	16	20	IU-1 / OU-1
SPARE	--	17	18	--	--
EWH-1	20	19	20	20	FACP
OVERHEAD DOOR 101	20	21	22	20	FIRE ALARM COMPRESSPR
CF-1	20	23	24	20	CF-3
--	20	25	26	20	--
--	20	27	28	20	--
CF-2	20	29	30	20	CF-4
--	20	31	32	20	--
--	20	33	34	20	--
EUH-1	20	35	36	20	RR SENSORS
EUH-1	20	37	38	20	LTS MECH / RR
SPARE	20	39	40	20	FA BELL
SPARE	20	41	42	20	SPARE

CONTRACTOR: L-A ELECTRIC, INC
PHONE: (260) 497-0520

SQUARE D
by Schneider Electric

PANEL:

480/277					DATE: 11-3-23
REMARKS	BKR	CKT	CKT	BKR	REMARKS
SURGE PROTECTOR	60	1	2	100	PIN & SLEEVE RECPEACLE
--		3	4		--
--		5	6		--
PIN & SLEEVE RECPEACLE	100	7	8	20	EXHAUST FAN
--		9	10		
--		11	12		
HANGER DOOR	20	13	14		
--		15	16		
--		17	18		
SPARE	20	19	20		
--		21	22		
--		23	24		
SPARE		25	26		
--		27	28		
--		29	30		
SPARE		31	32		
--		33	34		
--		35	36		
		37	38	125	PANEL LP-1
		39	40		(THRU T1)
		41	42		

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HAGERMAN

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New Corporate Hangar
Fort Wayne Allen County Airport Authority
114xx West Perimeter Road Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 03/13/23
SUBMITTAL Permit Set

Electrical Schedules & Details

E-100

ELECTRICAL SYMBOL SCHEDULE

	GROUNDED DUPLEX RECEPTACLE		SMOKE DETECTOR
	GROUNDED QUAD RECEPTACLE		HEAT DETECTOR
	SPECIAL RECEPTACLE		DUCT SMOKE DETECTOR
	FLOOR DUPLEX OUTLET	F	FIRE ALARM PULL STATION
	JUNCTION BOX	F	FIRE ALARM HORN, STROBE & PULL STATION
	MOTOR OUTLET		FIRE ALARM STROBE - WALL MTD
	DISCONNECT SWITCH		FIRE ALARM STROBE - CEILING MTD
	1-CAT 6 DATA DROP WITH RJ45 JACK		FIRE ALARM HORN & STROBE
	SURFACE MOUNTED PANELBOARD		FIRE ALARM BELL
X#	PANELBOARD LETTER AND CIRCUIT NUMBER	FS	WATER FLOW SWITCH
	CIRCUIT HOME RUN	TS	VALVE TAMPER SWITCH
	CONDUIT IN WALLS OR BELOW FLOOR		SECURITY CAMERA
	CONDUIT ABOVE CEILING	CR	BADGE / CARD READER
GFI	GROUND FAULT CIRCUIT INTERRUPTER		ON / OFF PUSHBUTTON
WP	WATER-PROOF		EXISTING FIXTURES
FACP	FIRE ALARM CONTROL PANEL	NOTES: SOME SYMBOLS MAY NOT BE USED	
FAAP	FIRE ALARM ANNUNCIATOR PANEL		

OUTLET KEY

- A: +18" AFF
- A1: +42" AFF
- B: +36" AFF
- C: +18" AFF, GFI
- C1: +42" AFF, GFI
- M: +60" AFF
- T: +84" AFF
- U: +18" AFF W/ USB PORTS
- TR: +18" AFF TR W/ USB PORTS
- W: +18" AFG, GFI, WP

AFF = ABOVE FINISHED FLOOR
AFG = ABOVE FINISHED GRADE
GFI = GROUND FAULT CIRCUIT INTERRUPT
TR = TAMPER RESISTANT
WP = WEATHER-PROOF DEVICE
DIMENSION TO CENTERLINE OF BACK BOX
NOTE: NOT ALL ITEMS ARE USED

GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS TO VERIFY ALL ELEVATIONS PRIOR TO ROUGH-IN.
2. FIELD VERIFY ALL RECEPTACLE OUTLET LOCATIONS WITH DATA AND VOICE OUTLET LOCATIONS.
3. PROVIDE LIGHTNING PROTECTION SYSTEM. REFER TO SPECIFICATIONS FOR MORE DETAILS.
4. PROVIDE 1-CAT 6 DATA DROP WITH RJ45 JACK IN EACH STRUCTURAL COLUMN BAY AROUND THE EXTERIOR WALLS OF THE HANGAR WITH EXCEPTION OF THE WALL WITH THE MAIN HANGAR DOOR.

(#) PLAN NOTES:

1. NOT USED.
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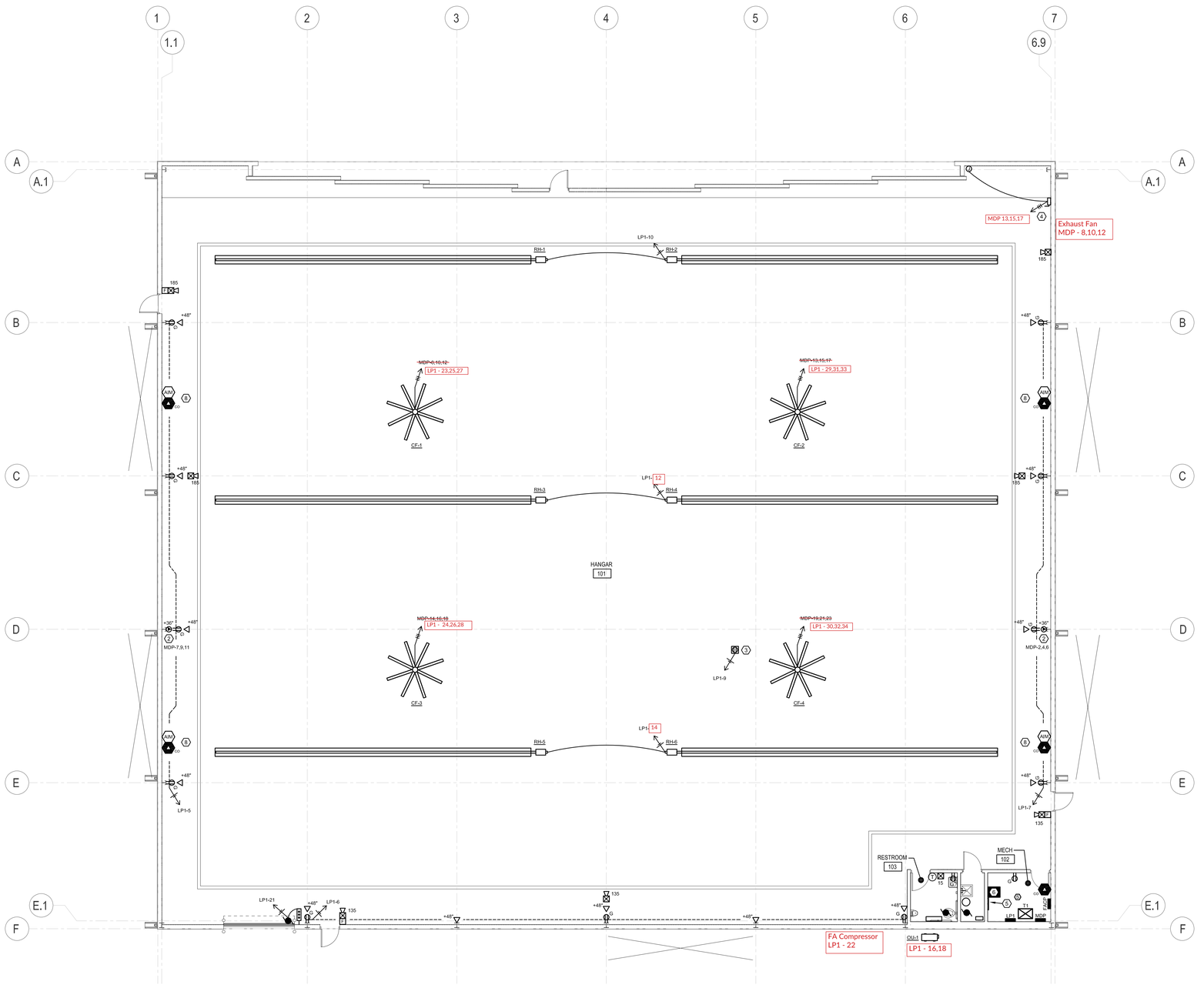
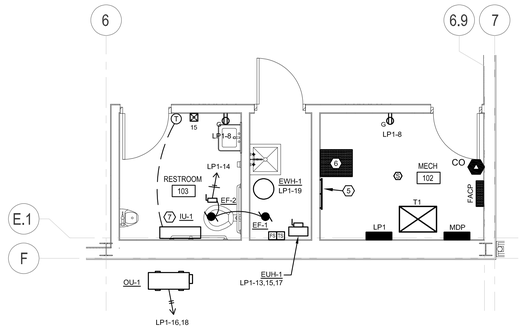
4. POWER FOR HANGER DOOR.
5. PROVIDE A MAIN GROUNDING BAR 24" LONG, 4" TALL, AND 1/4" THICK COPPER ON STAND-OFF INSULATORS.
6. PROVIDE WALL-MOUNTED SWING OUT TELECOMMUNICATIONS RACK 20RU OR LARGER. SEE SPECIFICATIONS FOR MORE INFORMATION.
7. POWER INDOOR UNIT IN THIS ROOM FROM CORRESPONDING OUTDOOR UNIT ON GRADE.
8. MACURCO CM-6 LOW VOLTAGE CARBON MONOXIDE DETECTOR, OR EQUIVALENT. WILL REQUIRE SUPERVISED AIM TO MONITOR.



PLAN NORTH

1 Power & Systems Plan
1/8" = 1'-0"



PLAN NORTH

2 Enlarged Restroom Plan
1/4" = 1'-0"

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260 424-9080 ElevatusArchitecture.com

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SEAL

HERBERT H. HILDEBRAND REGISTERED No. PE10809476 STATE OF INDIANA PROFESSIONAL ENGINEER

HAGERMAN

FORT WAYNE-ALLEN COUNTY AIRPORT AUTHORITY

New Corporate Hangar
Fort Wayne Allen County Airport Authority

114xx West Perimeter Road Fort Wayne, IN 46809

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301700
ISSUE DATE 03/13/23
SUBMITTAL Permit Set

Power & Systems Plans

E-101

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ELECTRICAL SYMBOL SCHEDULE

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- D: +60" AFF
- E: +84" AFF
- U: +18" AFF W/ USB PORTS
- TR: +18" AFF TR W/ USB PORTS
- W: +18" AFG, GFI, WP

AFF = ABOVE FINISHED FLOOR
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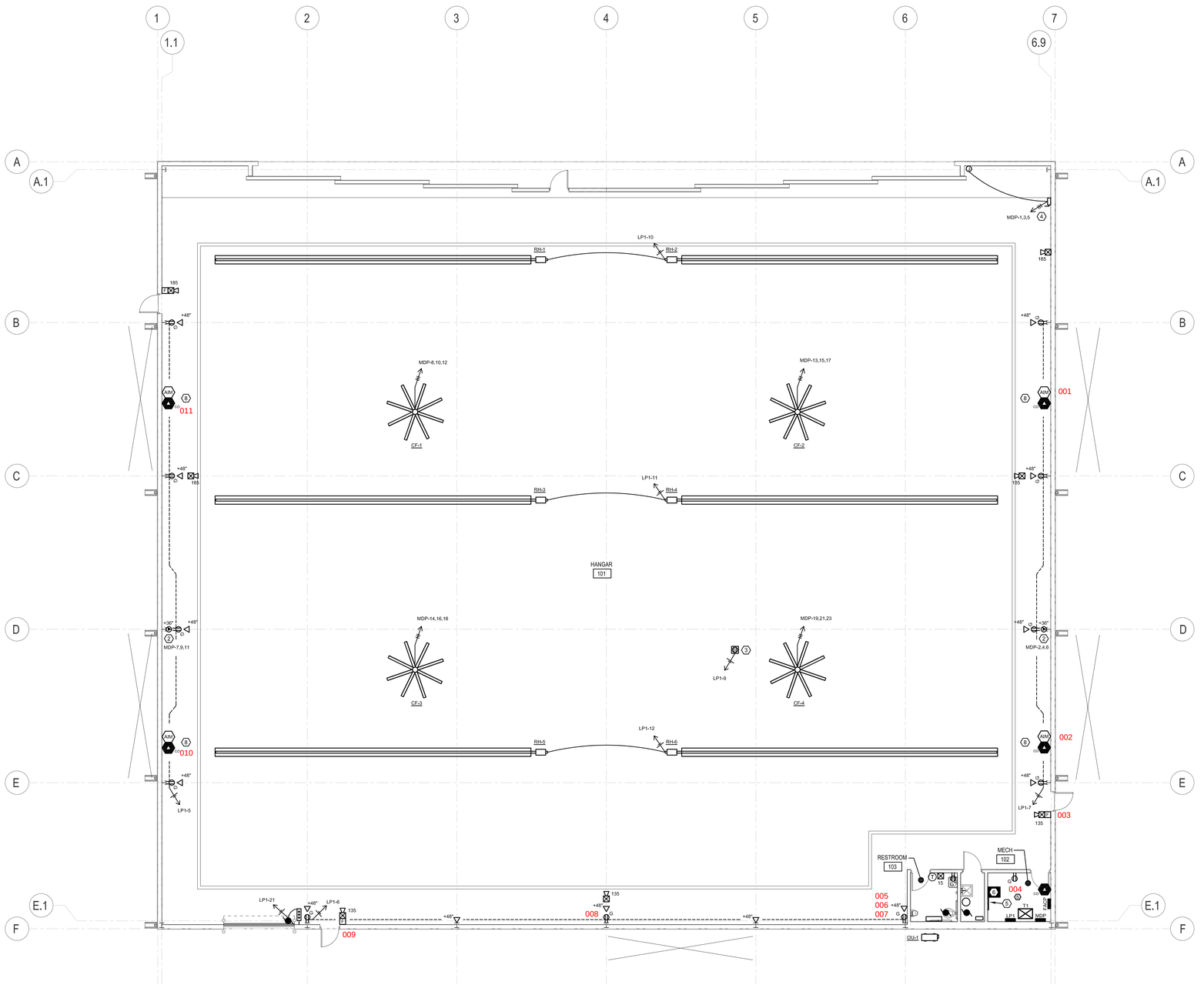
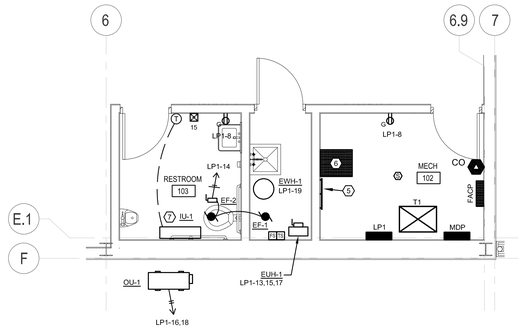


PLAN NORTH

1 Power & Systems Plan
1/8" = 1'-0"



PLAN NORTH

2 Enlarged Restroom Plan
1/4" = 1'-0"

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REVISIONS

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Power & Systems Plans

E-101

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FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL NUMBER	INPUT WATTS	INPUT VOLTS	LAMP	MOUNT	DESCRIPTION
L1	LITHONIA LIGHTING	CPHB 18LM GCL MD MVOLT 40K	133 W	120 V - 277 V	LED 18,000 LUMEN, 4000K TEMP, MEDIUM DISTRIBUTION	SUSPENDED 30' AFF	HIGHBAY GLARE CONTROL LENS.
L1E	LITHONIA LIGHTING	CPHB 18LM GCL MD MVOLT 40K	133 W	120 V - 277 V	LED 18,000 LUMEN, 4000K TEMP, MEDIUM DISTRIBUTION	SUSPENDED 30' AFF	HIGHBAY GLARE CONTROL LENS WITH EMERGENCY BACK-UP BATTERY
L2	LITHONIA LIGHTING	FEM L48 4000LM LPAFL MD 80CRI 40K	24 W	120 V - 277 V	LED 4000 LUMEN, 4000K TEMP, MEDIUM DISTRIBUTION	SURFACE	ACRYLIC, LOW PROFILE FROSTED LENS
W1	LITHONIA LIGHTING	KAXW LED P3 40K R3 MVOLT	79 W	120 V - 277 V	LED 9446 LUMENS, 4000K TEMP, TYPE 3 DISTRIBUTION	SURFACE @ 25' AFF	EXTERIOR WALLPACK WITH FULL CUT-OFF OPTICS
W2	LITHONIA LIGHTING	KAXW LED P1 40K R3 MVOLT	29 W	120 V - 277 V	LED 3545 LUMENS, 4000K TEMP, TYPE 3 DISTRIBUTION	SURFACE @ 12' AFF	EXTERIOR WALLPACK WITH FULL CUT-OFF OPTICS
EX	LITHONIA LIGHTING	LHQM LED	4.3 W	120 V / 277 V	LED	SURFACE	EXIT SIGN
EMR	LITHONIA LIGHTING	ELMRW LP220L SGL	1 W	120 V / 277 V	LED	SURFACE	EXTERIOR EMERGENCY DUAL REMOTE
EM1	LITHONIA LIGHTING	ELM2L	1 W	120 V / 277 V	LED	SURFACE	EMERGENCY DUAL REMOTE

OCCUPANCY SENSOR KEY

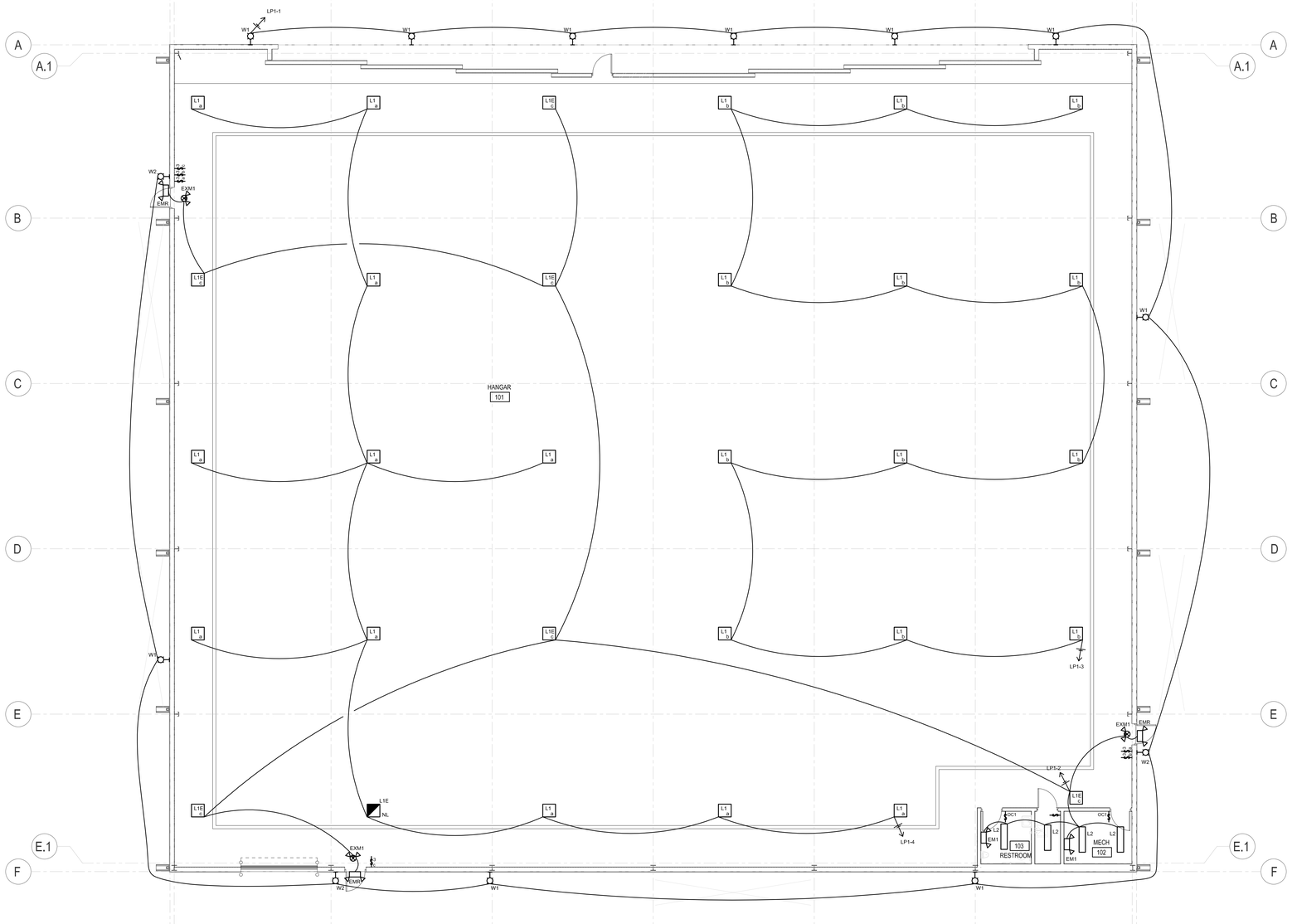
- OC1 - WATT STOPPER #DW-100
- OCD - WATT STOPPER #DW-311
- OC2 - WATT STOPPER #DT-355
- OC3 - WATT STOPPER #DW-200
- OC4 - WATT STOPPER #DT-300

NOTE: NOT ALL ARE TYPES USED

LIGHTING SYMBOL SCHEDULE

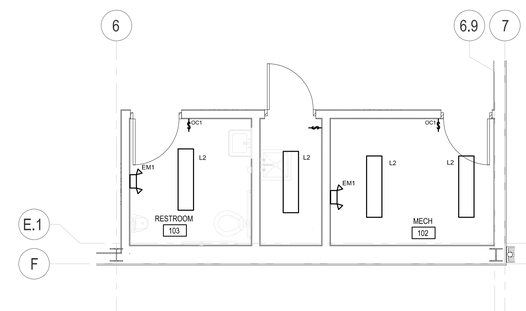
	CIRCUIT HOME RUN
	CONDUIT ABOVE CEILING
UGE	UNDERGROUND ELECTRIC
	SURFACE MOUNTED PANELBOARD
	RECESSED PANELBOARD
X-#	PANELBOARD LETTER AND CIRCUIT NUMBER
	LIGHT FIXTURE - HIGHBAY
	LIGHT FIXTURE - STRIP SURFACE
	LIGHT FIXTURE - 1xX SURFACE (X IS LENGTH)
	LIGHT FIXTURE - RECESSED-ROUND
	LIGHT FIXTURE WALL MOUNTED
	EXIT LIGHT - CEILING MTD.
	EXIT AND EMERGENCY LIGHT FIXTURE
	EMERGENCY LIGHT FIXTURE
EM	FIXTURE WITH EMERGENCY BALLAST
NL	NIGHT LIGHT
	SINGLE POLE WALL SWITCH
OC#	OCCUPANCY SENSOR SWITCH - WALL MTD.
OC	OCCUPANCY SENSOR - CEILING MTD.
C	LIGHTING CONTACTOR
P	PHOTOCELL
T	TIMER
	EXISTING FIXTURES

NOTES:
SOME SYMBOLS MAY NOT BE USED



PLAN NORTH

1 Lighting Plan
1/8" = 1'-0"



PLAN NORTH

2 Enlarged Restroom and Mech. Lighting Plan
1/4" = 1'-0"

GENERAL NOTES:

1. EXTERIOR LIGHTING TO BE CONTROLLED BY AUTOMATIC LIGHTING CONTROL SYSTEM, OR BY PHOTOCELL MOUNTED ON THE NORTHWEST CORNER OF THE HANGAR.
2. CONFIRM MOUNTING LOCATIONS FOR ANY INTERIOR LIGHTING CONTROL SENSORS.
3. CIRCUIT NIGHT LIGHTS AND EMERGENCY FIXTURES AHEAD OF SWITCHES AND SENSORS.

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Lighting Plans

E-102

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UNIVERSAL DOOR SYSTEMS

13448 Deback Lane
Franksville, WI 53126 (262) 835-2600

NOTES AND SPECIFICATIONS

A. GENERAL

1. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH THE AISC 'SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL BUILDINGS' (FOURTEENTH EDITION)
2. ALL WELDING OF STRUCTURAL STEEL IS BASED ON AWS D1.1 'STRUCTURAL WELDING CODE' (2004 EDITION).
3. ALL COLD-FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH AISI 'SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS' (2002 EDITION).
4. ALL WELDING OF COLD-FORMED STEEL IS BASED ON AWS D1.3 'STRUCTURAL WELDING CODE - SHEET STEEL' (1998 EDITION).
5. ALL GALVANIZED MATERIAL FORMED FROM STEEL MEETING ASTM A525 AND C955.
6. SHOP PRIMER PAINT IS A RUST INHIBITIVE PRIMER AND IS NORCO STANDARD GRAY.
   * NOTE: THIS PAINT IS NOT INTENDED FOR LONG-TERM EXPOSURE TO THE ELEMENTS.
7. NORCO MFG. CORP. SHALL BE NOTIFIED PRIOR TO ANY FIELD MODIFICATIONS. ANY MODIFICATIONS SHALL BE APPROVED BY NORCO BEFORE ANY WORK IS PERFORMED.
8. AFTER ALL FINAL ADJUSTMENTS ARE MADE IN THE UPPER GUIDE RAIL SYSTEM, FIELD WELD ALL SLOTTED CLIP CONNECTIONS.
9. NORCO UNIVERSAL DOOR SYSTEMS RECOMMENDS INSTALLING A DRAINAGE SYSTEM ON THE BOTTOM RAILS TO PREVENT WATER FROM FILLING THE BOTTOM RAIL TROUGHS AND GETTING ONTO THE HANGAR FLOOR OR FREEZING AND PREVENTING THE DOORS FROM OPERATING.

B. FASTENING

1. ALL HIGH-STRENGTH BOLTS ARE TO BE FULLY TIGHTENED BY AN ACCEPTABLE METHOD SUCH AS THE 'TURN OF THE NUT' METHOD. (UNLESS NOTED OTHERWISE) BOLTS IN STANDARD HOLES DO NOT REQUIRE THE USE OF FLAT WASHERS PER ASTM A325, SECTION 5 (B).
2. FLAT WASHERS ARE REQUIRED AT ALL SLOTTED CONNECTIONS AND OVERSIZED HOLES.
   - ON A HOLE TO SLOT CONNECTION ONE WASHER IS REQUIRED ON THE SLOTTED SIDE.
   - ON A SLOT TO SLOT CONNECTION TWO WASHERS ARE REQUIRED, ONE ON EACH SIDE OF THE CONNECTION.
   - ON AN OVERSIZED HOLE ONE WASHER IS REQUIRED (ex. CLOSURE PLATE TO TRACK BRACKET...)

C. MATERIAL SPECIFICATIONS

	U.S. STANDARD	CANADIAN STANDARD
HOT-ROLLED STRUCTURAL	A-992 (FY=50KSI)	G40.21 (FY=44KSI)
HOT-ROLLED PLATE	A-36 (FY=36KSI)	G40.21 (FY=44KSI)
STRUCTURAL TUBE	A-500 GRADE B (FY=46KSI)	A-500 GRADE B (FY=46KSI)
GALVANIZED MATERIAL	50KSI G-60 COATING	50KSI G-60 COATING
GAGE MATERIAL	A-653	A-653
HIGH-STRENGTH BOLTS	G5 OR A325 ZINC PLATED	G5 OR A325 ZINC PLATED
RAIL	ASCE 25#/YD.	

CHECK OUT OUR DOOR ASSEMBLY AND DOOR INSTALLATION VIDEOS ON YOUTUBE.
IF YOU CAN'T FIND THEM, GIVE US A CALL AND WE WILL SEND YOU THE LINKS.

CHAPTER 1. PREPARATION
CHAPTER 2. BOTTOM RAIL INSTALLATION
CHAPTER 3. UPPER GUIDE RAIL ASSEMBLY
CHAPTER 4. UPPER GUIDE RAIL INSTALLATION
CHAPTER 5. DOOR ASSEMBLY
CHAPTER 6. DOOR INSTALLATION

D. DESIGN CRITERIA

DESIGN CRITERIA.....2019 INDIANA BUILDING CODE (IBC 2012 W/ AMMENDMENTS)

WIND LOAD.....115 MPH

WIND EXPOSURE CATEGORY.....C

ALLOWABLE DEFLECTION..... L/120 OF DOOR HEIGHT

BUILDING LIVELOAD DEFLECTION..... 9" DOWN (MAX.) & 6" UP (MAX.)

DOOR WEIGHT WITH WALL PANEL.....3,600 LB.

DOOR WEIGHT WITHOUT WALL PANEL.....4,700 LB.

* DOORS MUST BE CLOSED WHEN WINDS EXCEED 60 MPH (ENC. CLASS= PARTIALLY ENCLOSED TO 60 MPH, FULLY ENCLOSED AT 115 MPH)

E. ELECTRICAL EQUIPMENT AND CONTROLS

1. ELECTRICAL CONTROL PANELS ARE BUILT TO UL, NEMA, CSA, & IEC. STANDARDS AS REQUIRED.
2. CONTROL VOLTAGE IS 24v.
3. ALL ELECTRICAL COMPONENTS LOCATED 18", OR LESS, ABOVE THE HANGAR FLOOR ARE EXPLOSION-PROOF.
4. ALL CONTROLS ABOVE 18 INCHES FROM HANGAR FLOOR ARE NEMA 12 OR BETTER.
5. CONTROL PANEL WITH DISCONNECT SWITCH HAS BEEN PROVIDED.
6. AUDIBLE WARNING DEVICE (89 dB min. @ 10') HAS BEEN PROVIDED.
7. THIS SYSTEM HAS BEEN DESIGNED FOR 480 VOLTS / 3 PHASE / 60HZ AC. (1)
8. LIMIT SWITCH (OR SWITCHES) TO STOP DOORS IN THE FULL OPEN & CLOSE POSITIONS HAS BEEN PROVIDED.
9. THIS SYSTEM IS DESIGNED FOR 'DEAD-MAN' (CONSTANT CONTACT) OPERATION.

F. ERECTION TOLERANCES

NOTE: THE FOLLOWING CRITERIA MUST BE MET TO INSURE PROPER DOOR OPERATION.

1. BOTTOM RAIL TO BE STRAIGHT & LEVEL ±1/8" (3) IN 100'-0" (3048).
2. CONCRETE BETWEEN, AND 2'-0" (610) AROUND OUTER-MOST RAIL(s) TO BE LEVEL ±1/8" IN 100'-0" (3048).
3. UPPER GUIDE BEAMS TO BE PLUMB AND LEVEL ±1/8" (3) WITH BOTTOM RAIL.
4. DOOR LEAFS MUST BE SQUARE WITHIN 1/8" (3) WHEN MEASURED DIAGONAL.

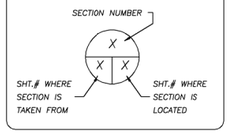
G. SHIPMENT VERIFICATION

1. PRODUCT SHORTAGES MUST BE REPORTED TO NORCO MFG. (PH: 262.835.2600) WITHIN 48 HOURS OF DELIVERY, INCLUDING ELECTRICAL COMPONENTS.

H. FIELD MODIFICATIONS

1. ANY FIELD MODIFICATIONS TO THE "HANGAR DOOR SYSTEM" MUST BE REPORTED TO NORCO MFG. (PH: 262.835.2600) ENGINEERING DEPARTMENT PRIOR TO WORK BEING PERFORMED.

SECTION SYMBOL KEY



REV.	DATE	BY
2	08/03/23	BJS
1	04/20/23	BKK

COVER SHEET REVISIONS

DATE: 03/21/2023
BY: BKK

SHT. NUMBER	DESCRIPTION
11	CONTROL PANEL
10	OPERATOR ELEVATION
9A	ELECTRICAL COMPONENT DETAILS
9	ELECTRICAL COMPONENT DETAILS
8	OPERATOR INSTALLATION LAYOUT
7B	TYPICAL SEAL DETAILS
7A	TYPICAL SEAL DETAILS
7	TYPICAL SEAL DETAILS
6A	PERSONNEL DOOR SECTIONS
6	TRIM FLASHING AND SIDING LAYOUT
5B	TYPICAL FASTNEER LAYOUT
5A	DOOR FRAMING LAYOUT
5	DOOR FRAMING LAYOUT
4	PLAN VIEW OF DOORS
3A	SECTION(S) THRU DOOR SYSTEM
3	SECTION(S) THRU DOOR SYSTEM
2A	UPPER GUIDE RAIL & CLOSURE PLATE LAYOUT
2	UPPER GUIDE RAIL & CLOSURE PLATE LAYOUT
1A	BOTTOM RAIL, LEVELING ANGLE AND ANCHOR BOLT PLAN
1	BOTTOM RAIL, LEVELING ANGLE AND ANCHOR BOLT PLAN

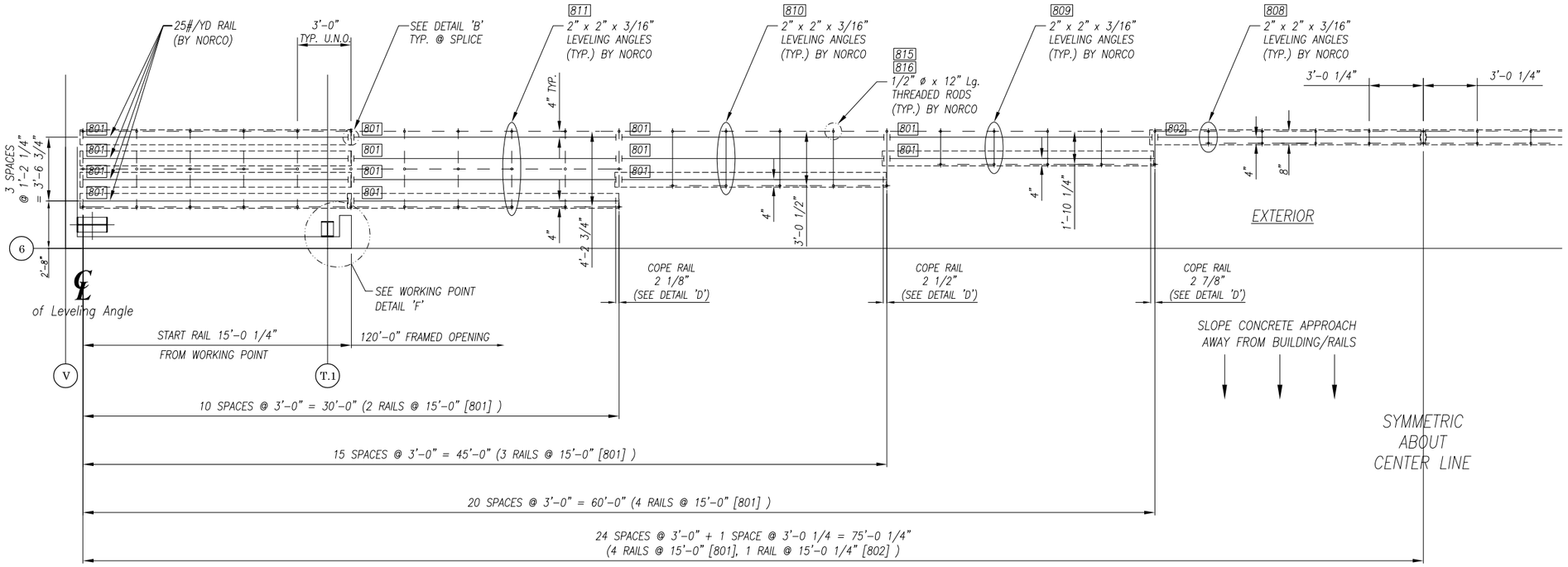
NOTE: CURRENT DATE OF DRAWING VOIDS ALL PREVIOUS ISSUES

DRAWING INDEX

THIS STAMP PERTAINS TO ALL DRAWINGS HEREIN AS LISTED IN THE ABOVE INDEX.

FOR CONSTRUCTION

CUSTOMER: THE HAGERMAN GROUP
PROJECT NAME: FWA NEW CORPORATE HANGAR
PROJECT LOCATION: FORT WAYNE, IN
PROJECT NUMBER: 11045



BOTTOM RAIL, LEVELING ANGLE & THREADED ROD SETTING PLAN

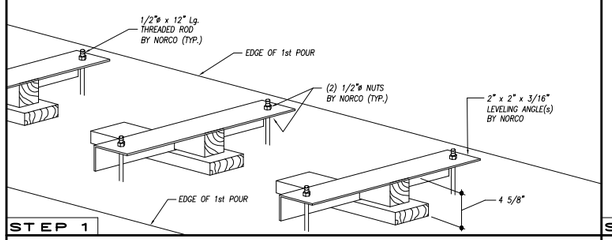
NOTE: THE FOLLOWING CRITERIA MUST BE MET IN ORDER TO INSURE PROPER DOOR OPERATION

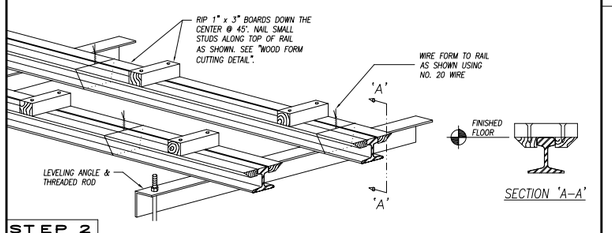
* BOTTOM RAIL MUST BE STRAIGHT & LEVEL ±1/8" IN 100'-0".
* CONCRETE BETWEEN, AND 2'-0" AROUND OUTER MOST RAIL(s) TO BE LEVEL ±1/8" in 100'-0"

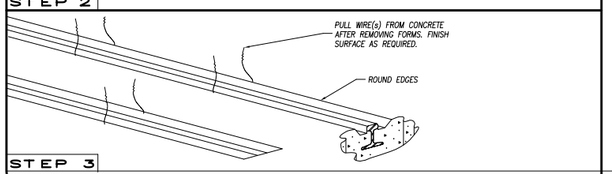
RECOMMENDATIONS FOR BEST FUNCTIONALITY:

* THE HANGAR DOOR MANUFACTURER IS NOT RESPONSIBLE FOR THE PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH THE LOCAL SITE CONDITIONS.
* CONTRACTOR TO PROVIDE SYSTEM FOR DRAINING RAIN/SNOW WATER THAT MAY ACCUMULATE ON TRACKS. INSTALLING A DRAINAGE SYSTEM FOR THE BOTTOM RAIL SYSTEM WILL PREVENT WATER FROM FILLING THE TRACKS AND SPILLING ONTO THE HANGAR FLOOR, AS WELL AS IMPROVE DRIVE WHEEL TRACTION.
* SLOPE CONCRETE TO THE EXTERIOR SIDE OF THE DOOR RAILS AWAY FROM THE TRACKS/BUILDING.

WOOD BLOCKING & RAIL FORMING DETAILS

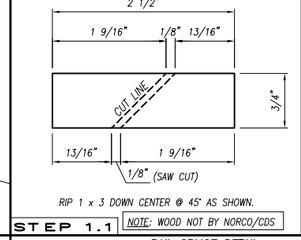






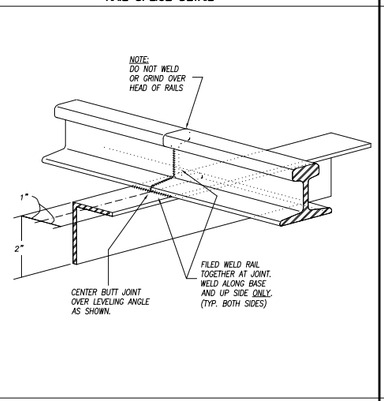
DETAIL 'A'

WOOD FORMING CUTTING DETAIL



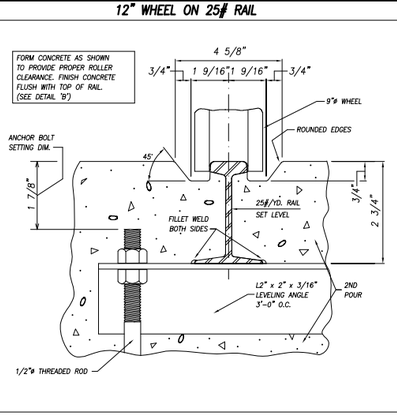
NOTE: WOOD NOT BY NORCO/CDS

RAIL SPLICE DETAIL



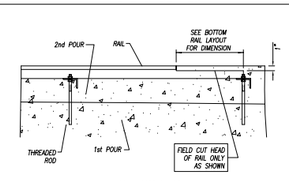
DETAIL 'B'

12" WHEEL ON 25# RAIL



DETAIL 'C'

RAIL END DETAILS

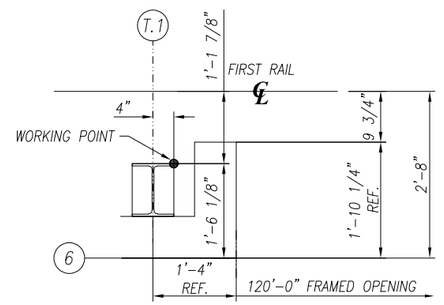


DETAIL 'D'

NOT USED

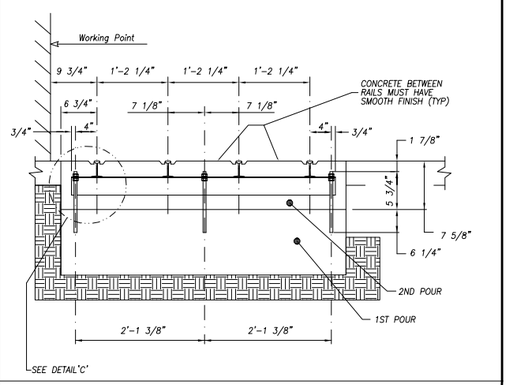
DETAIL 'E'

WORKING POINT DETAIL



DETAIL 'F'

SECTION THRU BOTTOM RAILS



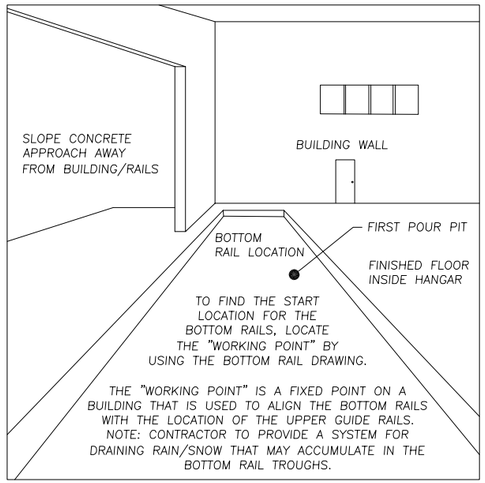
SECTION 'X-X'

THE HAGERMAN GROUP
Universal Door Systems
Franksville, WI 53126
(262)835-2600

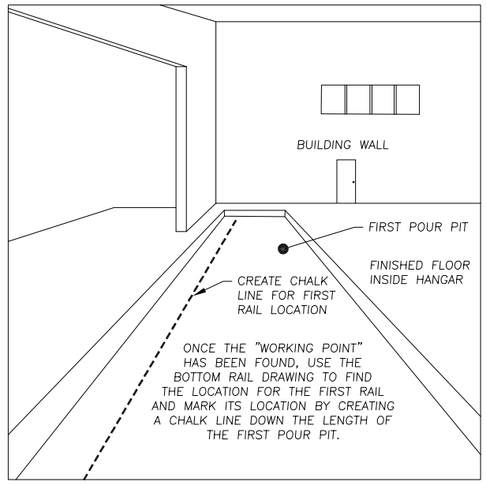
Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

Revisions
05/03/2023 BKK FOR CONSTRUCTION

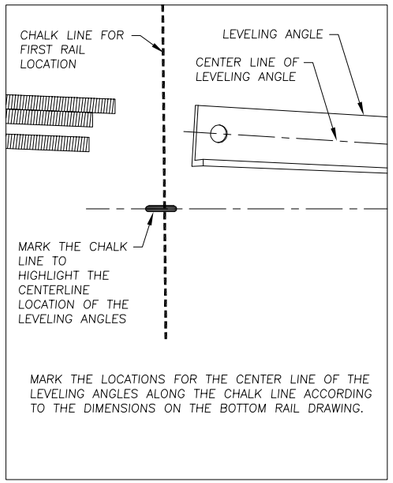
Drawn:	BKK
Scale:	
Checked:	
Date:	03/13/2023
Project No.:	11045
Sheet Number:	1



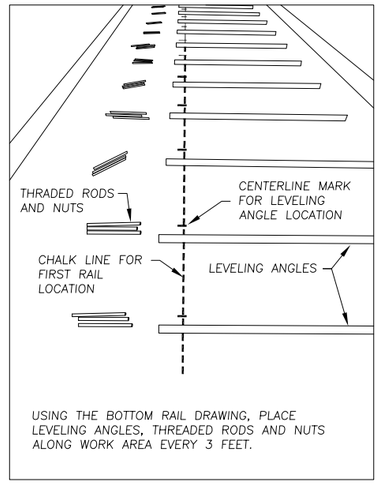
STEP 1 – FIND THE STARTING LOCATION



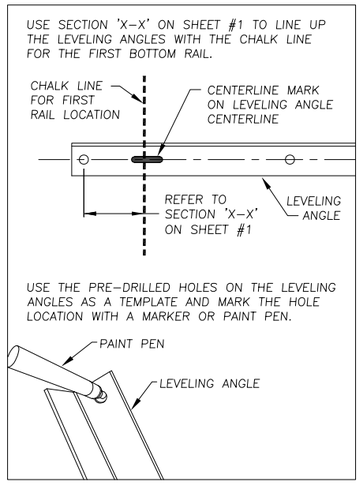
STEP 2 – LOCATE THE POSITION OF THE FIRST RAIL



STEP 3 – MARK LOCATION OF THE LEVELING ANGELS



STEP 4 – PLACE PARTS ALONG WORK AREA



STEP 5 – MARK LOCATION OF THE THREADED RODS

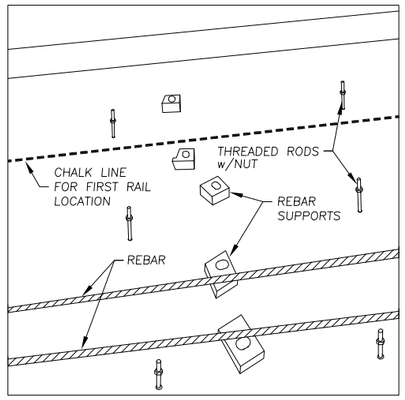
USING A DRILL WITH A 1/2" DIAMETER MASONRY DRILL BIT, DRILL THE HOLES FOR THE THREADED RODS INTO THE CONCRETE TO THE REQUIRED DEPTH. USE A MARKER OR TAPE TO MARK THE DRILL BIT AT THE REQUIRED DEPTH. REFERENCE SECTION "X–X" DETAIL FOR ANCHOR ROD DEPTHS ON BOTTOM RAIL DRAWING (SHEET #1).

USE A SHOP VACUUM WITH NARROW EXTENSION TIP, THAT WILL FIT INTO THE THREADED ROD HOLE, AND VACUUM OUT THE CONCRETE DUST FROM THE THREADED ROD HOLES.

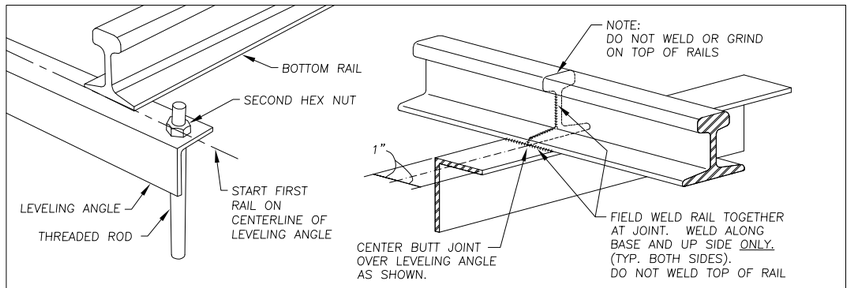
USING A CAULK GUN, PLACE A SMALL AMOUNT OF THE AC100 ADHESIVE INTO THE THREADED ROD HOLES. ONE CARTRIDGE OF ADHESIVE SHOULD BE ENOUGH FOR 25 HOLES THAT ARE 5" DEEP. PLACE THE THREADED ROD INTO THE HOLE AND TAP THE THREADED ROD FIRMLY INTO PLACE WITH A RUBBER MALLET.

INSTALL THE LOWER HEX NUT ON THE THREADED ROD AT THE REQUIRED HEIGHT. THE LOWER HEX NUT CAN BE PLACED ON THE THREADED ROD BEFORE THE THREADED ROD IS PLACED INTO THE HOLE.

STEP 6 – DRILL THE THREADED ROD HOLES
STEP 7 – VACUUM THE THREADED ROD HOLES
STEP 8 – ADD ADHESIVE TO THREADED ROD HOLES
STEP 9 – PLACE THREADED ROD INTO HOLE
STEP 10 – TAP TREADED ROD WITH RUBBER MALLET

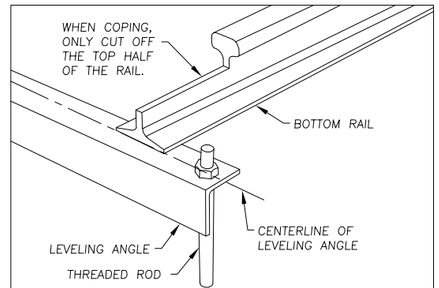


STEP 11 – ADD CONCRETE REINFORCEMENT, AS REQUIRED
(SLAB DESIGN FOR CONCRETE RAIL, BY OTHERS)
(REBAR AND REBAR SUPPORTS, BY OTHERS)



PLACE THE LEVELING ANGLES AND SECOND HEX NUT ON THE THREADED RODS. USING THE BOTTOM RAIL DRAWING, POSITION THE BOTTOM RAILS ON THE LEVELING ANGLES. THE BOTTOM RAILS MUST BE LEVEL AND AT THE PROPER HEIGHT, ADJUST THE LEVELING ANGLES, IF NECESSARY, THEN TIGHTEN THE TOP NUT SECURELY. TACK WELD THE RAIL SEGMENTS TO THE LEVELING ANGELS EVERY NINE FEET. WHEN ALL OF THE RAILS HAVE BEEN CORRECTLY SET, APPLY FULL 3" WELDS WHERE THE RAILS MEET THE LEVELING ANGLES AND WELD BOTH SIDES OF THE RAIL. WHEN WELDING THE RAIL SPLICES, WELD ONLY THE BASE AND NECK OF THE RAIL ONLY. DO NOT WELD OR GRIND THE TOP OF THE RAILS.

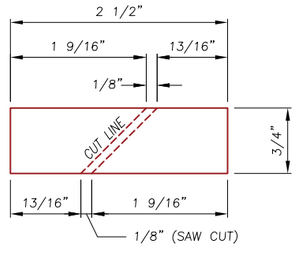
STEP 12 – PLACE LEVELING ANGLES & SECOND NUT ON THREADED RODS
STEP 13 – POSITION BOTTOM RAILS ON LEVELING ANGLES
STEP 14 – CHECK LEVEL, HEIGHT AND STRAIGHTNESS OF BOTTOM RAILS
STEP 15 – WELD



SOME DOOR SYSTEMS REQUIRE THE RAILS TO BE COPED, SO A PART OF THE RAIL IS NOT EXPOSED TO THE WEATHER. CHECK THE BOTTOM RAIL LAYOUT DRAWING (SHEET #1) FOR IDENTIFICATION OF THE RAILS THAT MUST BE COPED. WHEN COPING A RAIL, USE AN ANGLE GRINDER AND ONLY CUT OFF THE TOP HALF OF THE RAIL.

STEP 16 – COPE RAILS, IF REQUIRED

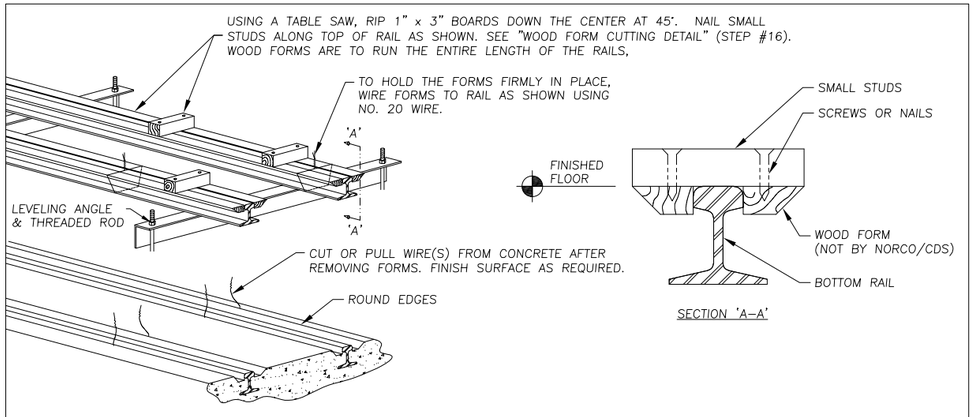
WOOD FORM CUTTING DETAIL



USING A TABLE SAW, RIP A 1x3 DOWN THE CENTER @ 45° AS SHOWN. WOOD FORMS ARE TO RUN ON BOTH SIDES AND THE ENTIRE LENGTH OF THE RAILS.

NOTE: WOOD NOT BY NORCO / CDS.

STEP 17 – CREATE WOOD FORMS TO MAKE BOTTOM RAIL TROUGHS



WHEN POURING THE FINAL CONCRETE, MAKE SURE THE CONCRETE IS EVEN WITH THE TOP OF THE RAILS. WE RECOMMEND VIBRATING AROUND THE WOOD FORMS TO ENSURE A SMOOTH FINISH WHEN LATER REMOVING THE WOOD FORMS. AS SOON AS THE CONCRETE SETS, UNTIE AND REMOVE THE WOOD FORMS AND CUT THE ENDS OF THE WIRES OR PULL THE WIRES FROM THE CONCRETE. SMOOTH AND ROUND CONCRETE EDGES AS NECESSARY TO ENSURE A CLEAN BEVEL (WOOD AND WIRE NOT BY NORCO/CDS).

STEP 18 – POUR THE FINAL CONCRETE & CREATE THE BOTTOM RAIL TROUGHS

BOTTOM RAIL INSTALLATION DRAWING USING THREADED RODS.

INSTALLER NOTE:

REFER TO PLUMBING SHEET P100 FOR DRAIN DETAILS.

⚠

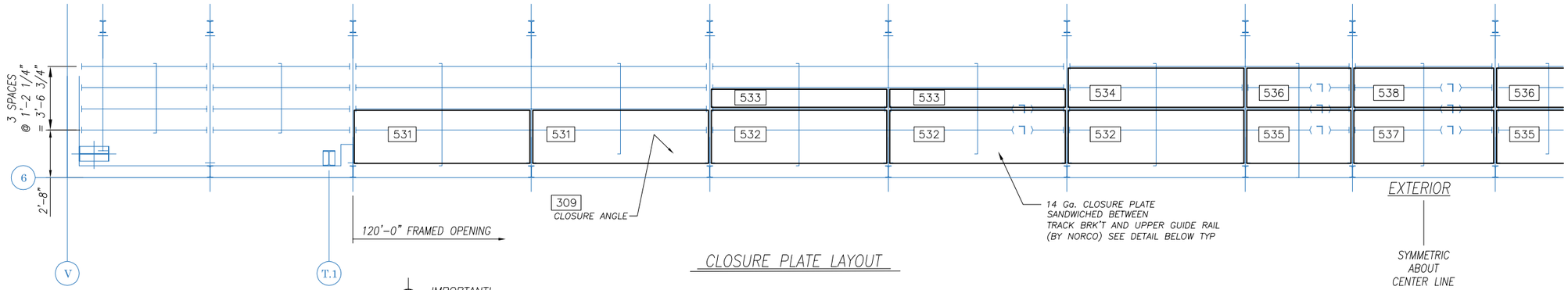
NORCO Universal Door Systems
Franksville, WI 53126
(262)835–2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

Revisions
⚠1 04/20/2023 BKK REV PER R&R
⚠2 05/03/2023 BKK FOR CONSTRUCTION
△
△

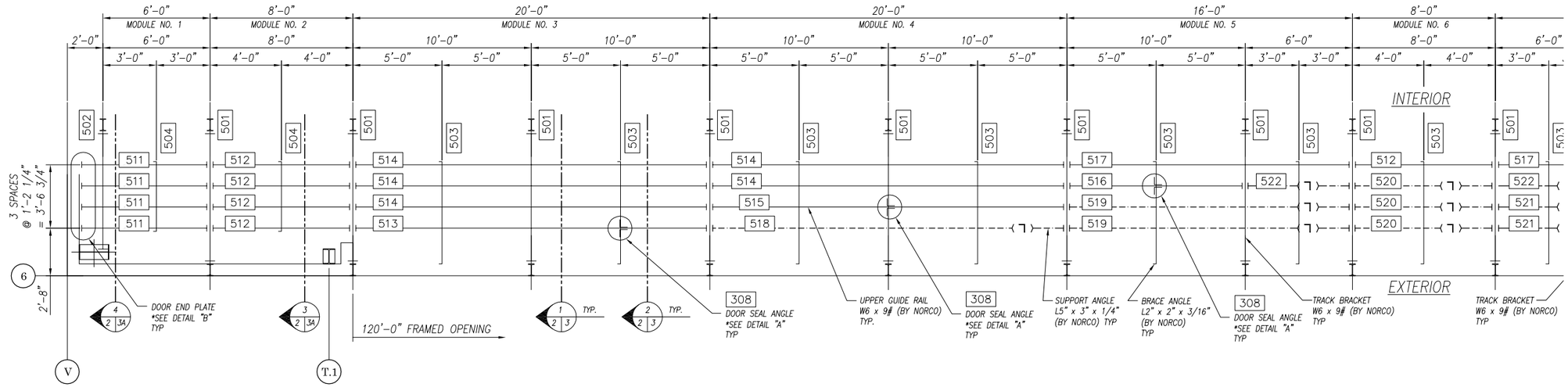
Drawn:	BKK
Scale:	
Checked:	
Date:	03/13/2023
Project No.:	11045
Sheet Number:	1A

INSTALLATION NOTE: VERIFY THAT ALL BUILDING DIMENSIONS MATCH THESE PLANS BEFORE BEGINNING HANGAR DOOR INSTALLATION

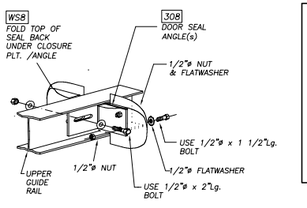


CLOSURE PLATE LAYOUT

IMPORTANT!
BOLTS GO INTO THE TOP FLANGE OF THE UPPER GUIDE RAIL AND OUT THE BOTTOM FLANGE OF THE TRACK BRACKET. SEE "TYPICAL UPPER GUIDE RAIL CONNECTION DETAIL" BELOW.



UPPER GUIDE RAIL LAYOUT



NOTE: DO NOT WELD ANGLES TO UPPER GUIDE BEAMS

DOOR SEAL LOCATION DETAIL 'A'

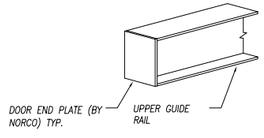
IMPORTANT NOTE:

THE DOOR SEAL ANGLES MUST NOT BE USED TO STOP THE DOORS WHEN OPENING OR CLOSING. THESE ANGLES SHOULD BE ADJUSTED ONLY AFTER THE JOBSITE ELECTRICIAN SETS THE OPEN AND CLOSE LIMITS WITH THE ELECTRIC LIMIT SWITCHES.

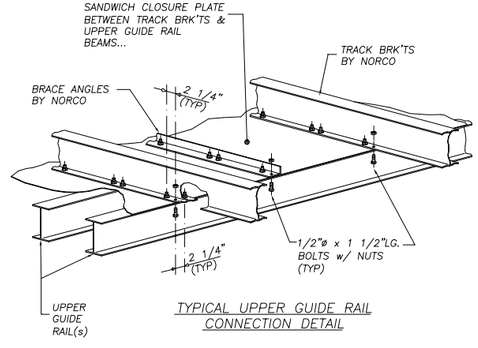
*ONCE ADJUSTED, THE BOLT MUST BE TIGHTENED.

IMPORTANT NOTE:

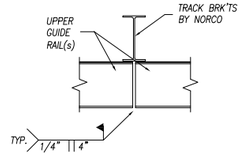
THE DOOR END PLATES MUST NOT BE USED TO STOP THE DOORS WHEN OPENING OR CLOSING.



DOOR END PLATE LOCATION DETAIL 'B'



TYPICAL UPPER GUIDE RAIL CONNECTION DETAIL



FIELD WELD BOTTOM FLANGE ONLY!! (SEE GENERAL NOTES)

TYPICAL @ EACH UPPER RAIL JOINT

GENERAL NOTES:

1. ALL UPPER GUIDE RAIL & CLOSURE PLT. TO BE FASTENED WITH 1/2"Ø x 1 1/2"Lg. BOLTS & NUTS UNLESS NOTED OTHERWISE.
2. ALL OVERSIZED HOLES IN CLOSURE PLT. TO HAVE A FLATWASHER IN AREAS WHERE THERE ARE NO UPPER GUIDE RAIL OR SUPPORT ANGLE BELOW.
3. ALL CLOSURE ANGLES TO BE FIELD FASTENED USING TEK#3 (OR TEK#5 SCREWS WHERE NECESSARY) AS SUPPLIED BY NORCO.
4. UPPER GUIDE RAILS, TRACK BRK'TS, BRACE ANGLES, & CLOSURE PLT. TO BE PRE-ASSEMBLED ON GROUND IN APPROX. 20' SECTIONS & ERECTED INTO BLDG. STARTING AT POCKET AND/OR ENDWALL AREAS FIRST.
5. UPPER GUIDE RAILS MUST BE PLUMB WITH BOTTOM RAILS ±1/8" FOR PROPER DOOR MOVEMENT.
6. BOTTOM FLGS. OF ALL UPPER GUIDE RAIL JOINTS TO BE FIELD WELDED TO MAINTAIN RAIL ALIGNMENT AFTER ALL FINAL ADJUSTMENTS HAVE BEEN MADE IN THE UPPER GUIDE RAIL SYSTEM.
7. ALL SLOTTED CONNECTIONS TO BE FIELD WELDED AFTER ALL FINAL ADJUSTMENTS HAVE BEEN MADE. U.N.O.
8. APPLY SPRAY CAN PRIMER TO FIELD WELDS PRIOR TO FINISH COAT OF PAINT IS APPLIED. ⚠

Universal Door Systems
Franksville, WI 53126
(262)835-2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

Revisions
⚠1 04/20/2023 BKK REV PER R&R
⚠2 08/03/2023 BJS FOR CONSTRUCTION
⚠
⚠

Drawn:	BKK
Scale:	NONE
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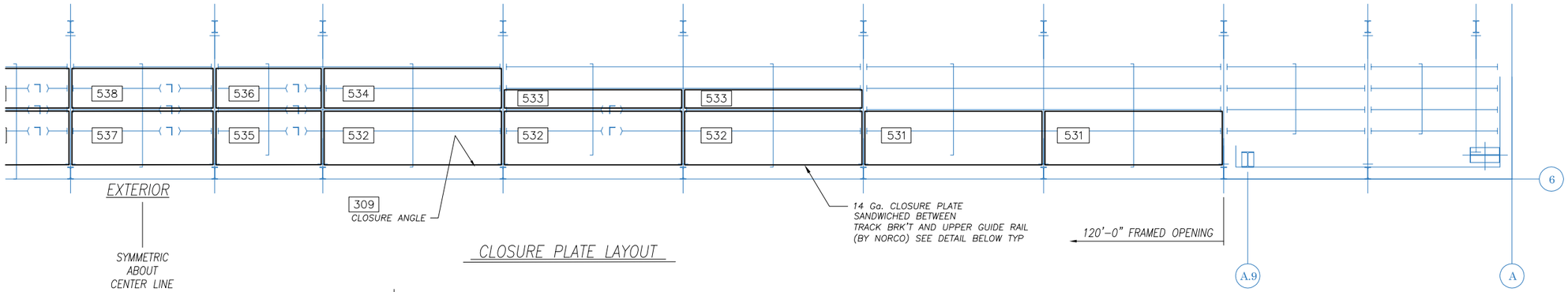
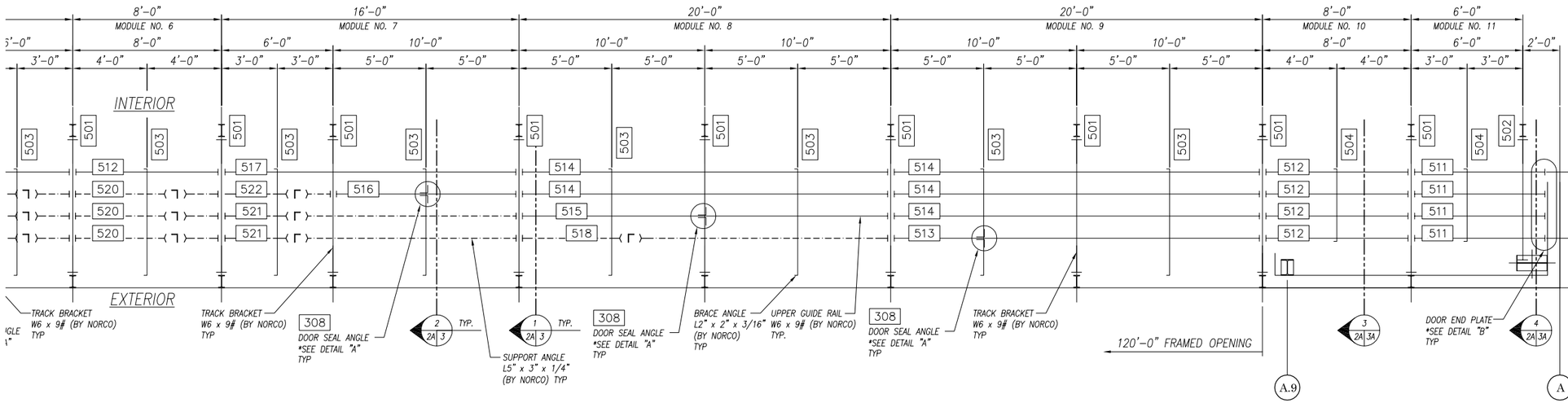
Date:	03/13/2023
Project No.:	11045
Sheet Number:	2

INSTALLATION NOTE: VERIFY THAT ALL BUILDING DIMENSIONS MATCH THESE PLANS BEFORE BEGINNING HANGAR DOOR INSTALLATION

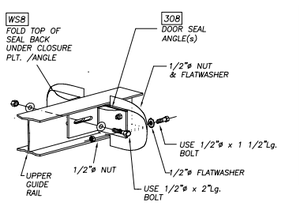


CLOSURE PLATE LAYOUT

IMPORTANT!
BOLTS GO INTO THE TOP FLANGE OF THE UPPER GUIDE RAIL AND OUT THE BOTTOM FLANGE OF THE TRACK BRACKET. SEE "TYPICAL UPPER GUIDE RAIL CONNECTION DETAIL" BELOW.



UPPER GUIDE RAIL LAYOUT



NOTE: DO NOT WELD ANGLES TO UPPER GUIDE BEAMS

DOOR SEAL LOCATION DETAIL 'A'

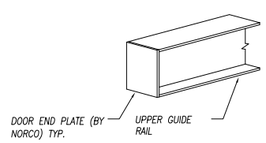
IMPORTANT NOTE:

THE DOOR SEAL ANGLES MUST NOT BE USED TO STOP THE DOORS WHEN OPENING OR CLOSING. THESE ANGLES SHOULD BE ADJUSTED ONLY AFTER THE JOBSITE ELECTRICIAN SETS THE OPEN AND CLOSE LIMITS WITH THE ELECTRIC LIMIT SWITCHES.

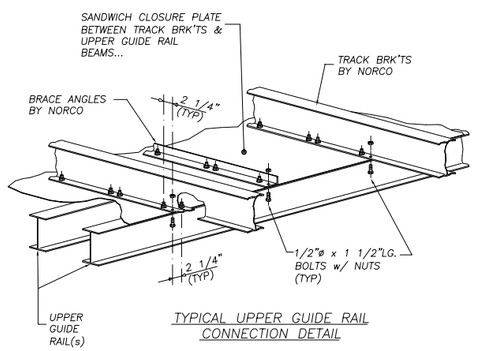
*ONCE ADJUSTED, THE BOLT MUST BE TIGHTENED.

IMPORTANT NOTE:

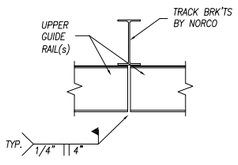
THE DOOR END PLATES MUST NOT BE USED TO STOP THE DOORS WHEN OPENING OR CLOSING.



DOOR END PLATE LOCATION DETAIL 'B'



TYPICAL UPPER GUIDE RAIL CONNECTION DETAIL



FIELD WELD BOTTOM FLANGE ONLY!! (SEE GENERAL NOTES)

TYPICAL @ EACH UPPER RAIL JOINT

GENERAL NOTES:

1. ALL UPPER GUIDE RAIL & CLOSURE PLT. TO BE FASTENED WITH 1/2"Ø x 1 1/2"Lg. BOLTS & NUTS UNLESS NOTED OTHERWISE.
2. ALL OVERSIZED HOLES IN CLOSURE PLT. TO HAVE A FLATWASHER IN AREAS WHERE THERE ARE NO UPPER GUIDE RAIL OR SUPPORT ANGLE BELOW.
3. ALL CLOSURE ANGLES TO BE FIELD FASTENED USING TEK#3 (OR TEK#5 SCREWS WHERE NECESSARY) AS SUPPLIED BY NORCO.
4. UPPER GUIDE RAILS, TRACK BRK'TS, BRACE ANGLES, & CLOSURE PLT. TO BE PRE-ASSEMBLED ON GROUND IN APPROX. 20' SECTIONS & ERECTED INTO BLDG. STARTING AT POCKET AND/OR ENDWALL AREAS FIRST.
5. UPPER GUIDE RAILS MUST BE PLUMB WITH BOTTOM RAILS ±1/8" FOR PROPER DOOR MOVEMENT.
6. BOTTOM FLGS. OF ALL UPPER GUIDE RAIL JOINTS TO BE FIELD WELDED TO MAINTAIN RAIL ALIGNMENT AFTER ALL FINAL ADJUSTMENTS HAVE BEEN MADE IN THE UPPER GUIDE RAIL SYSTEM.
7. ALL SLOTTED CONNECTIONS TO BE FIELD WELDED AFTER ALL FINAL ADJUSTMENTS HAVE BEEN MADE. U.N.O.
8. APPLY SPRAY CAN PRIMER TO FIELD WELDS PRIOR TO FINISH COAT OF PAINT IS APPLIED. ⚠1

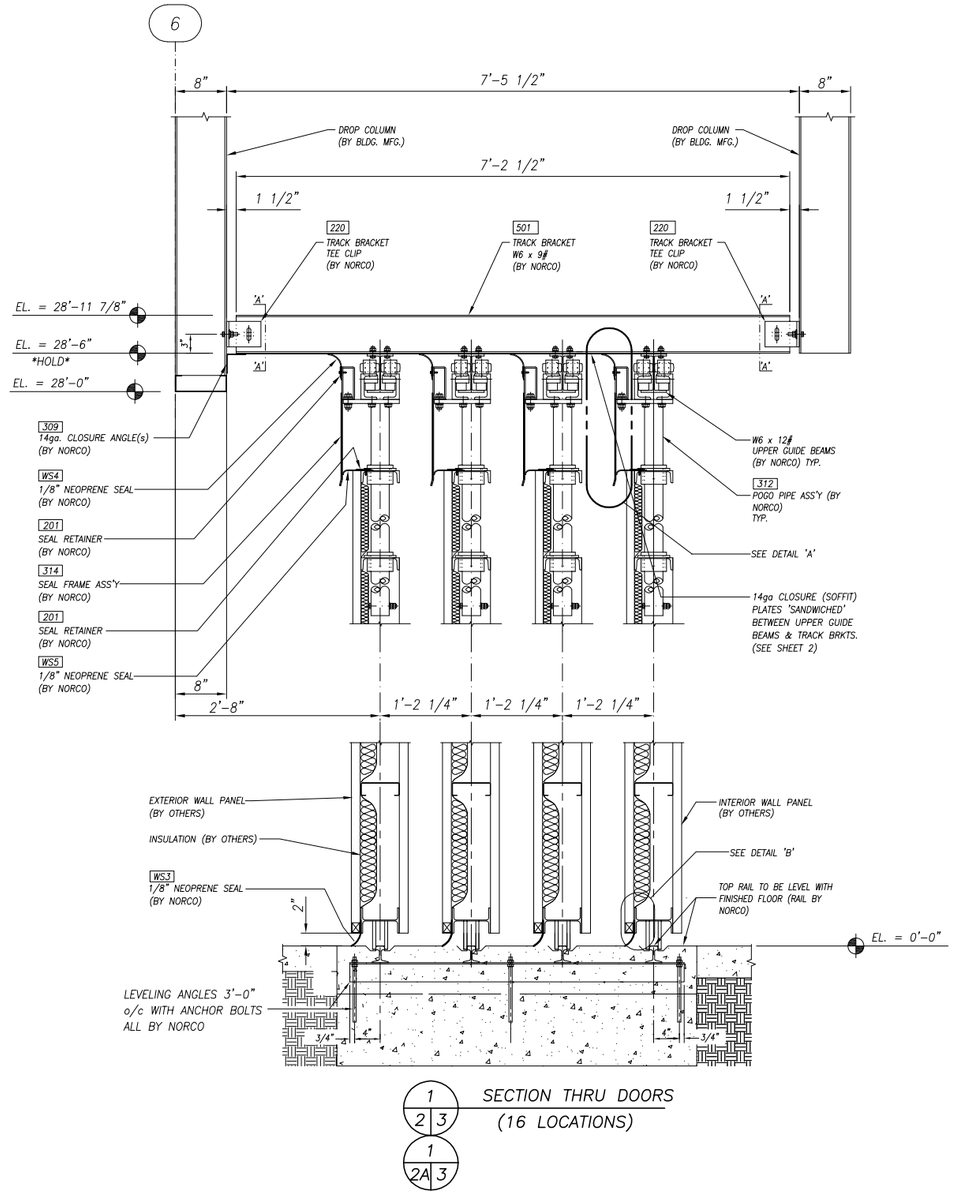
Universal Door Systems
Franksville, WI 53126
(262)835-2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

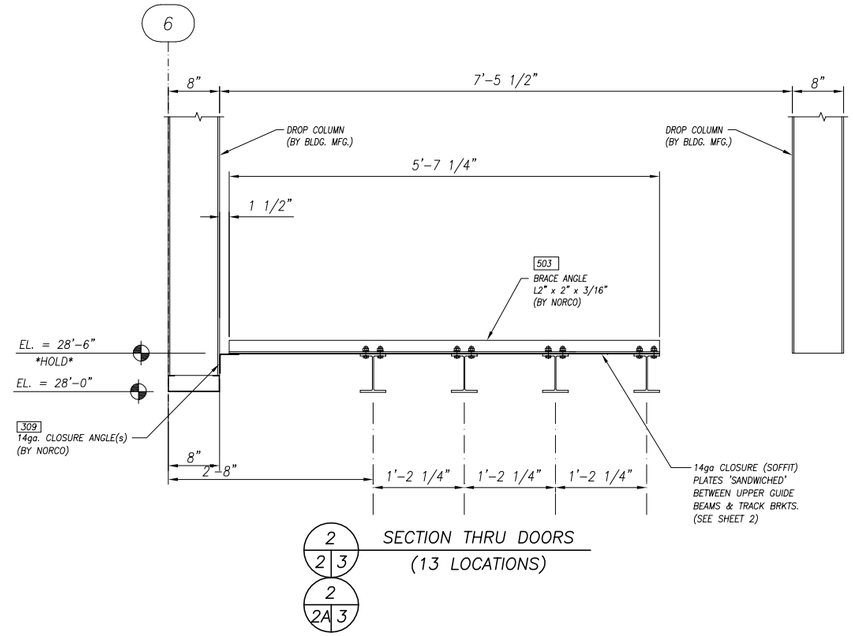
Revisions
⚠1 04/20/2023 BKK REV PER R&R
⚠2 08/03/2023 BJS FOR CONSTRUCTION
△
△

Drawn: BKK
Scale: NONE
Checked: RSC
Date: 03/13/2022
Project No.: 11045
Sheet Number: 2A

INSTALLATION NOTE: VERIFY THAT ALL BUILDING DIMENSIONS MATCH THESE PLANS BEFORE BEGINNING HANGAR DOOR INSTALLATION



1 / 2 3 — SECTION THRU DOORS (16 LOCATIONS)



2 / 2 3 / 2 / 2A 3 — SECTION THRU DOORS (13 LOCATIONS)

ERECTORS NOTE:

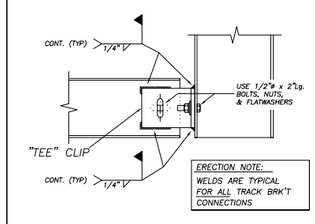
1.) UPPER GUIDE BEAMS TO BE PLUMB AND LEVEL ±1/8" WITH BOTTOM RAIL.

2.) ALL SLOTTED CONNECTIONS TO BE FIELD WELDED AFTER ALL FINAL ADJUSTMENT ARE MADE TO UPPER GUIDE SYSTEM.

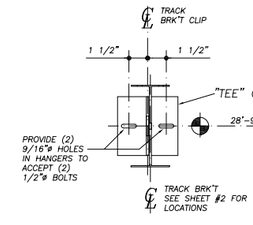
3.) APPLY SPRAY CAN PRIMER TO FIELD WELDS PRIOR TO FINISH COAT OF PAINT IS APPLIED.

4.) USE 1/2"ø x 2" BOLTS, NUTS, & FLATWASHERS FOR ALL TRACK BRACKET CLIP CONNECTIONS.

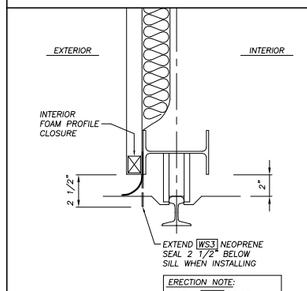
5.) THIS DOOR SYSTEM IS DESIGNED FOR A MAX LIVE LOAD DEFLECTION OF 9" DOWN AND 6" UPLIFT OF BUILDING STRUCTURE



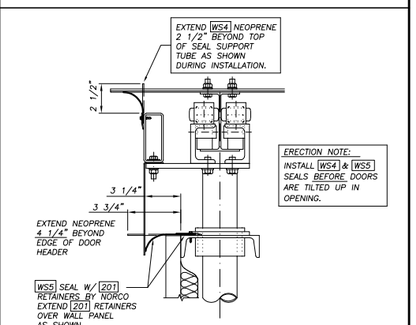
TRACK BRK'T CLIP WELD DETAIL



SECTION 'A-A'



DETAIL 'B'



DETAIL 'A'

HAGERMAN Universal Door Systems
Franksville, WI 53126
(262)835-2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

Revisions
1 04/20/2023 BKK REV PER R&R
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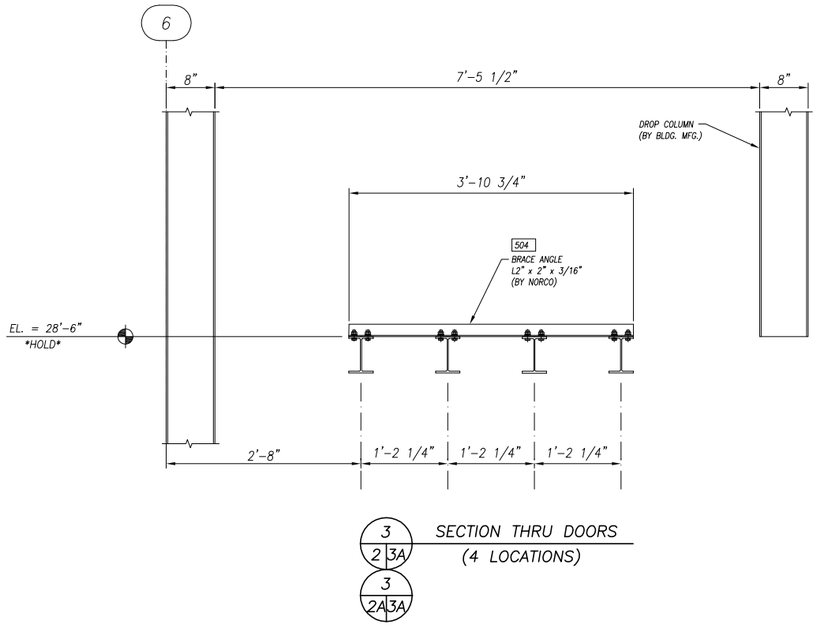
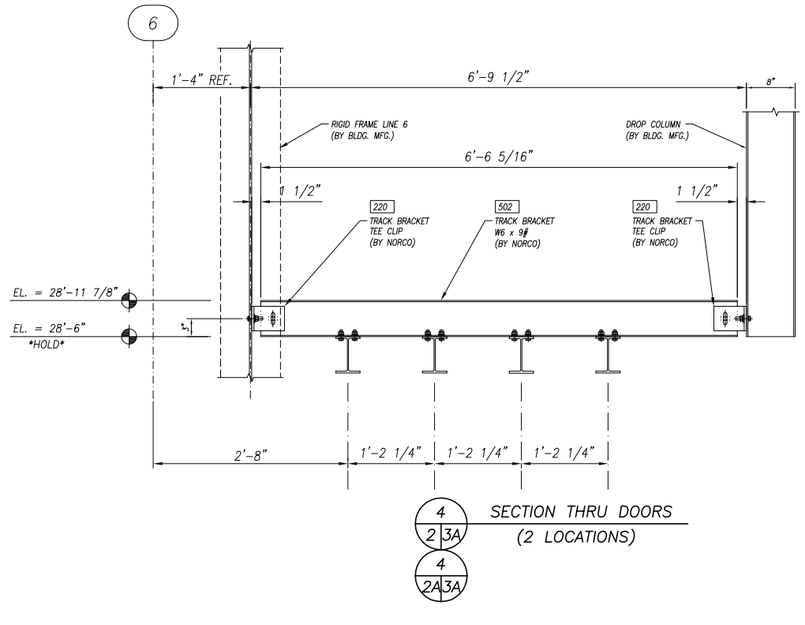
Sheet Number:	3

INSTALLATION NOTE: VERIFY THAT ALL BUILDING DIMENSIONS MATCH THESE PLANS BEFORE BEGINNING HANGAR DOOR INSTALLATION



3 / 2 3A — 3 / 2A 3A — SECTION THRU DOORS (4 LOCATIONS)



4 / 2 3A — 4 / 2A 3A — SECTION THRU DOORS (2 LOCATIONS)

ERECTORS NOTE:

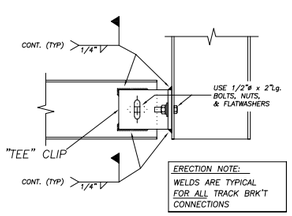
1.) UPPER GUIDE BEAMS TO BE PLUMB AND LEVEL ±1/8" WITH BOTTOM RAIL.

2.) ALL SLOTTED CONNECTIONS TO BE FIELD WELDED AFTER ALL FINAL ADJUSTMENT ARE MADE TO UPPER GUIDE SYSTEM.

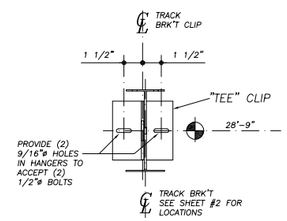
3.) APPLY SPRAY CAN PRIMER TO FIELD WELDS PRIOR TO FINISH COAT OF PAINT IS APPLIED.

4.) USE 1/2"ø x 2" BOLTS, NUTS, & FLATWASHERS FOR ALL TRACK BRACKET CLIP CONNECTIONS.

5.) THIS DOOR SYSTEM IS DESIGNED FOR A MAX LIVE LOAD DEFLECTION OF 9" DOWN AND 6" UPLIFT OF BUILDING STRUCTURE



TRACK BRK'T CLIP WELD DETAIL



SECTION 'A-A'

HAGERMAN Universal Door Systems
Franksville, WI 53126
(262)835-2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

Revisions
1 04/20/2023 BKK REV PER R&R
2 08/03/2023 BJS FOR CONSTRUCTION

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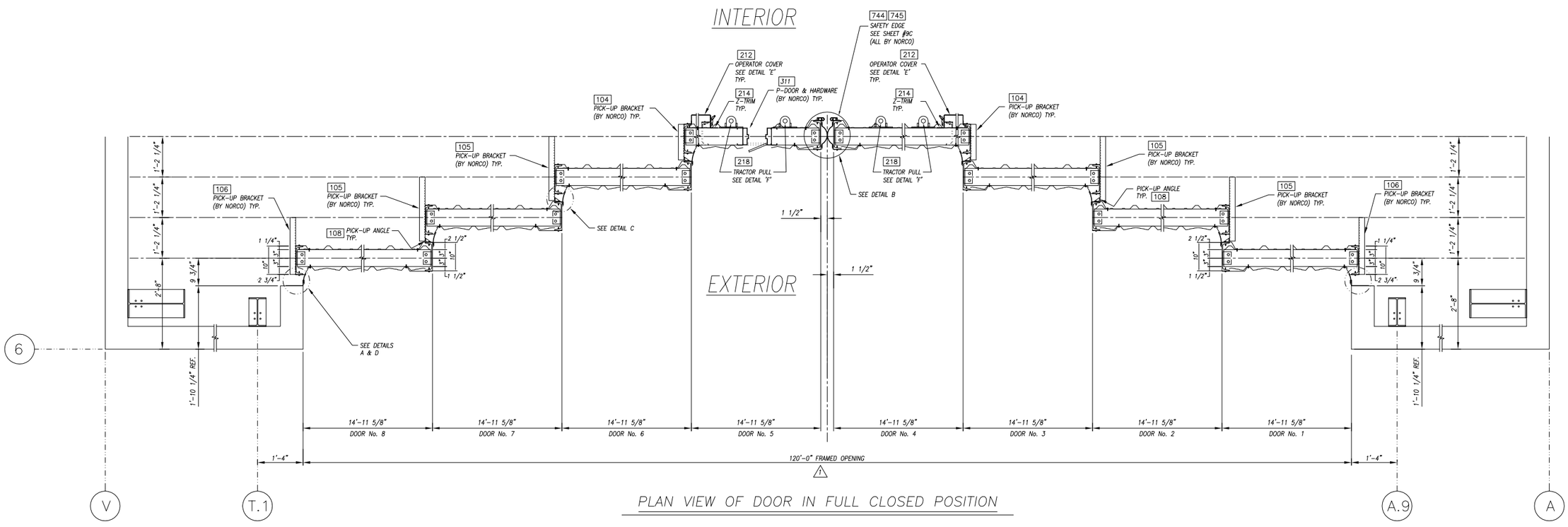
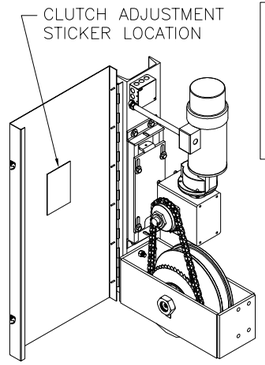
Project No.: 11045
Sheet Number: 3A

INSTALLATION NOTE: VERIFY THAT ALL BUILDING DIMENSIONS MATCH THESE PLANS BEFORE BEGINNING HANGAR DOOR INSTALLATION

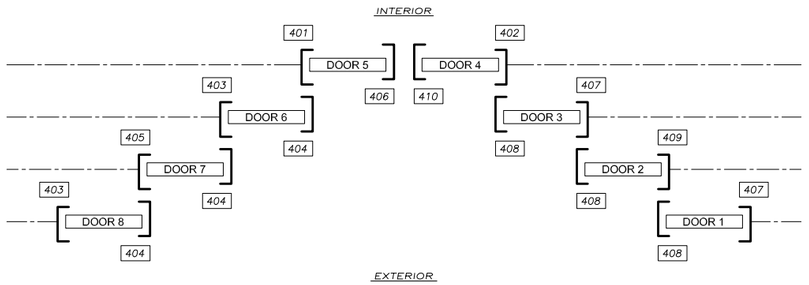


PLAN VIEW OF DOOR IN FULL CLOSED POSITION

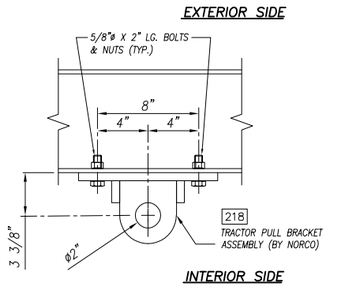


NOTE: PLACE CLUTCH OPERATION STICKER (INCLUDED IN WHITE INSTALLATION PACKET INSIDE OF THE ELECTRICAL ENCLOSURE) ON THE INSIDE OF THE OPERATOR COVER.

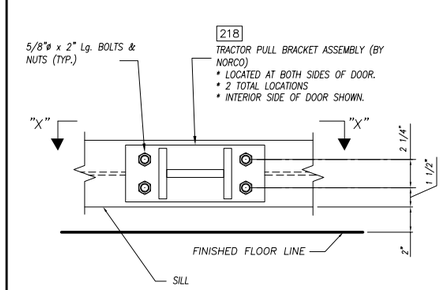
ALSO SEE SHEET 10 AND/OR OPERATION & MAINTENANCE MANUAL FOR CLUTCH ADJUSTMENT INSTRUCTIONS AND MANUAL DOOR OPERATION DURING POWER FAILURE.



DOOR JAMB PART NUMBER LAYOUT



SECTION 'X-X'



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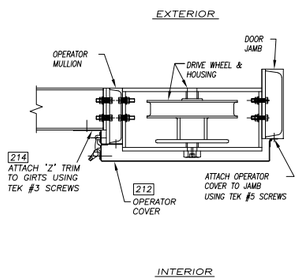
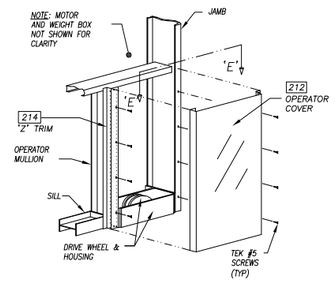


SECTION 'E–E'



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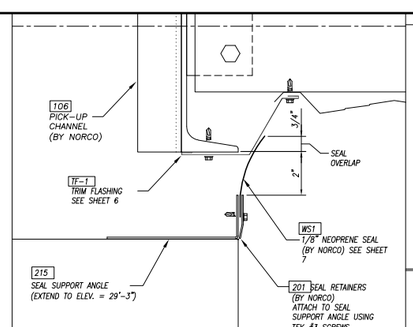

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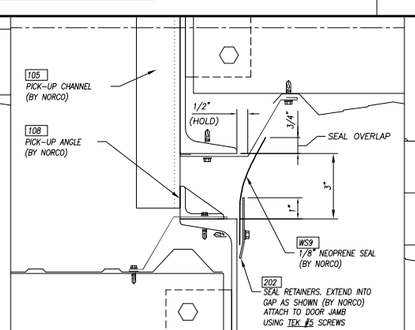

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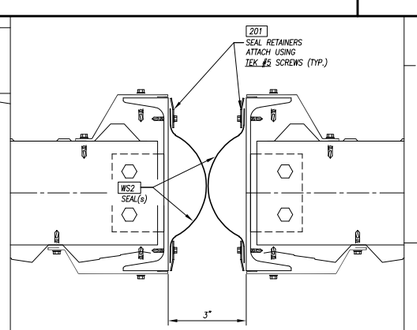

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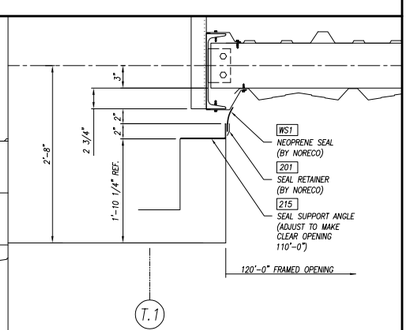

DETAIL 'A'

NORCO Universal Door Systems
Franksville, WI 53126
(262)835-2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

Revisions
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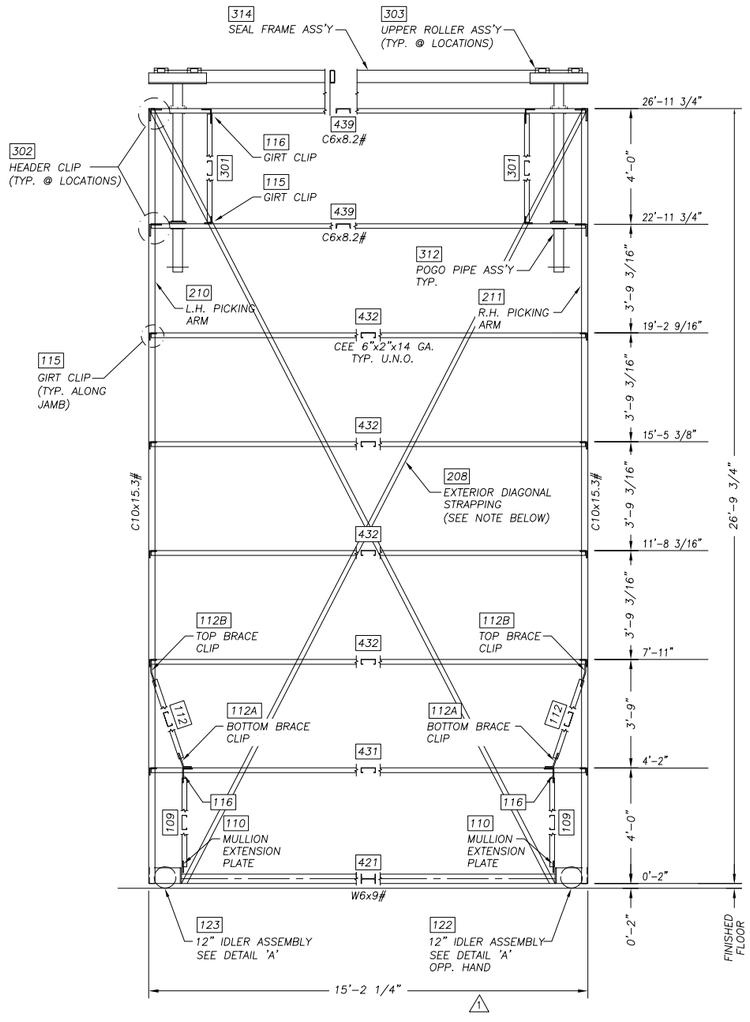
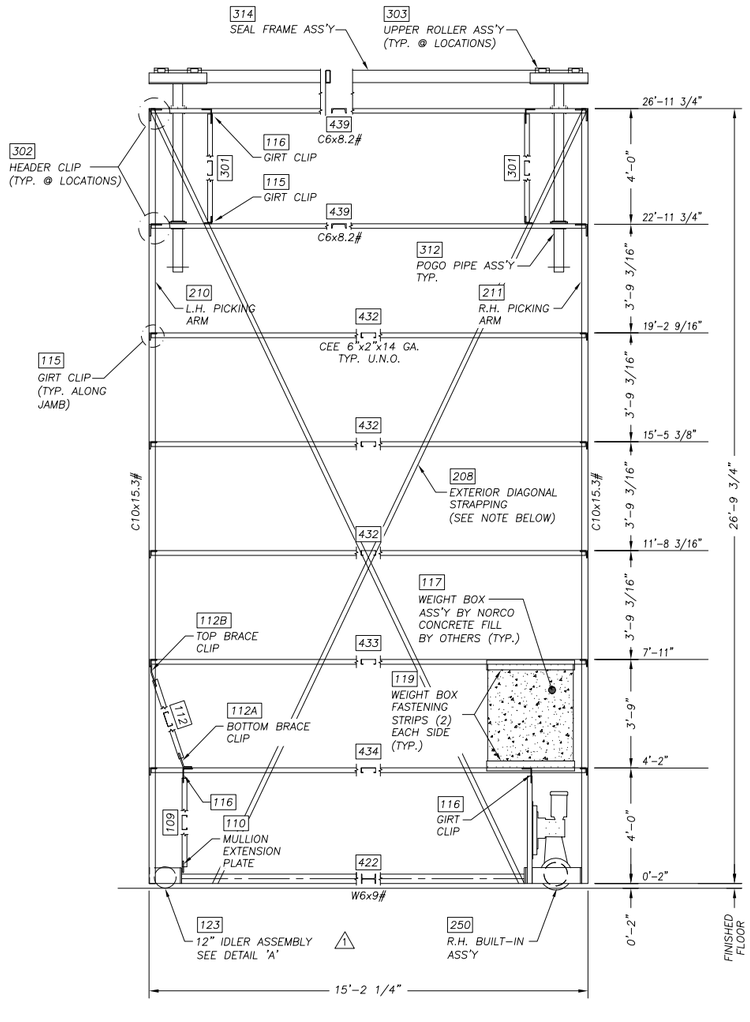


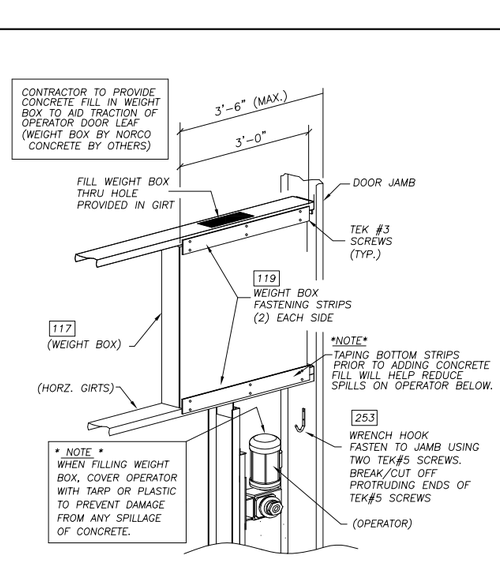
IDLER DOOR FRAMING

(DOORS 1–3, 6–8)
AS VIEWED FROM EXTERIOR



DRIVE DOOR FRAMING

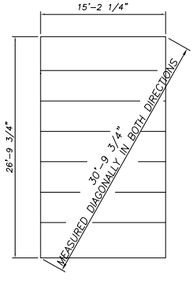
(DOOR 4)
AS VIEWED FROM EXTERIOR

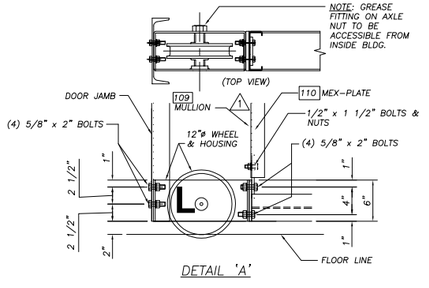


TYP. WEIGHT BOX INSTALLATION DETAIL

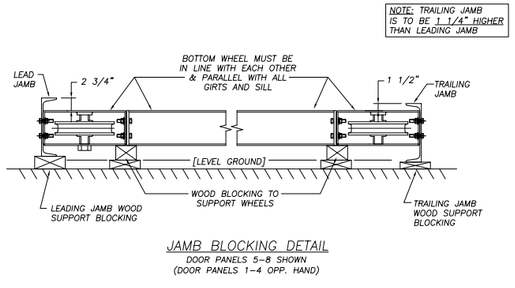
(R.H.) INTERIOR SIDE SHOWN
(L.H.) INTERIOR SIDE OPP. HAND

Note:
Door panels must be square (±1/8") & tightened prior to lifting into place.





DETAIL 'A'



JAMB BLOCKING DETAIL

DOOR PANELS 5–8 SHOWN
(DOOR PANELS 1–4 OPP. HAND)

GENERAL NOTES

1.) ALL FRAMING AS VIEWED FROM OUTSIDE HANGAR

2.) ALL MEMBERS TO BE FASTENED WITH 1/2"ø x 1 1/2"Lg. BOLTS SUPPLIED BY NORCO. (UNLESS NOTED OTHERWISE)

3.) ALL SLOTTED HOLES ARE TO HAVE FLATWASHERS.

4.) BLOCK JAMBS WHEN ASSEMBLING DOORS ON THE GROUND TO COMPENSATE FOR JAMB OFFSET, AND TO INSURE THAT THE BOTTOM WHEELS ARE STRAIGHT AND PARALLEL.

5.) ALL DOOR FRAMES TO BE SQUARE (±1/8" WHEN MEASURED DIAGONALLY) PRIOR TO FINAL TIGHTENING OF BOLTS AND ERECTION INTO OPENING.

DIAGONAL STRAPPING INSTALLATION NOTES

1.) FIELD FASTEN STRAPPING TO EXTERIOR OF DOOR HEADER AS SHOWN USING TEK SCREWS SUPPLIED BY NORCO.

2.) RUN STRAPPING TO OPPOSITE CORNER OF THE DOOR (AT THE BOTTOM) AND FASTEN.

3.) APPLY PRESSURE OR WEIGHT TO STRAPPING BETWEEN HEADER AND ADJACENT GIRT TO PULL THE STRAPPING TIGHT.

4.) WHILE STRAPPING IS TIGHT, FASTEN iT TO THE REMAINING GIRTS.

5.) UNSCREW THE STRAPPING FROM THE HEADER ONLY AND REATTACH ONCE IT IS PULLED TIGHT. CUT–OFF ANY EXCESS.

NOTE: STAPPING IS HIGH–TENSILE STEEL. HOLES MAY NEED TO BE PREPUNCHED TO ALLOW TEK SCREWS TO PENETRATE.

NORCO Industrial Doors
Franksville, WI 53126
(262)835–2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

Revisions
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Date: 03/15/2023
Project No.: 11045
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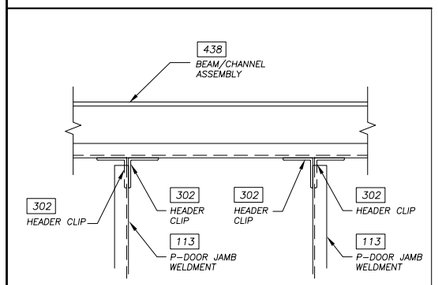
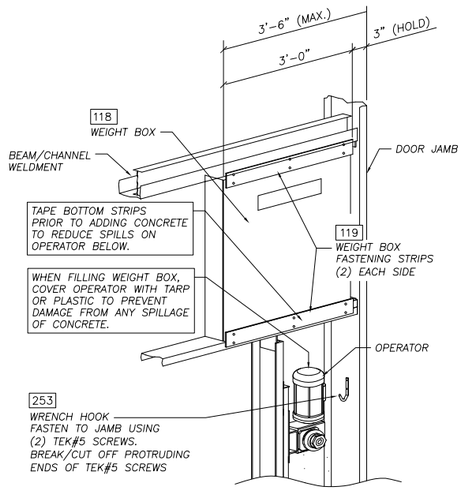


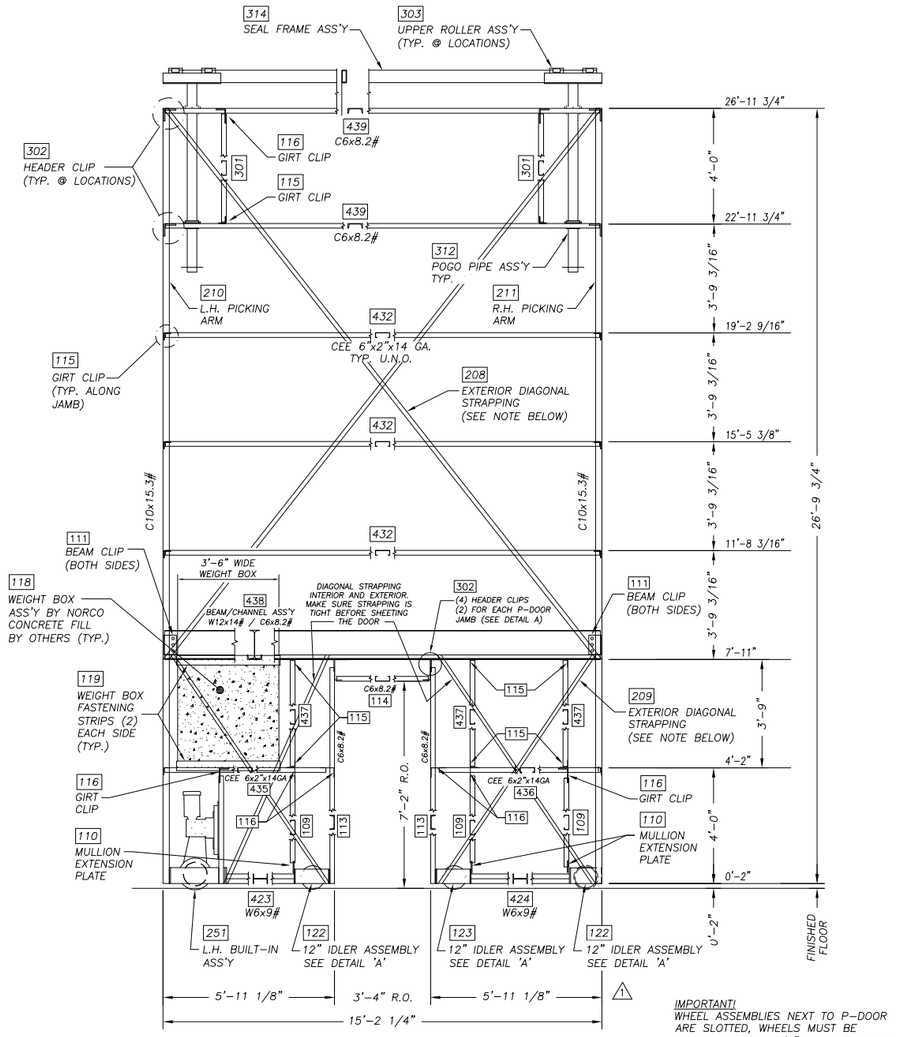
DETAIL A

WEIGHT BOX MUST BE FILLED WITH CONCRETE
TO AID TRACTION OF OPERATOR DOOR LEAF
(CONCRETE SUPPLIED BY CONTRACTOR)



TYP. WEIGHT BOX INSTALLATION DETAIL

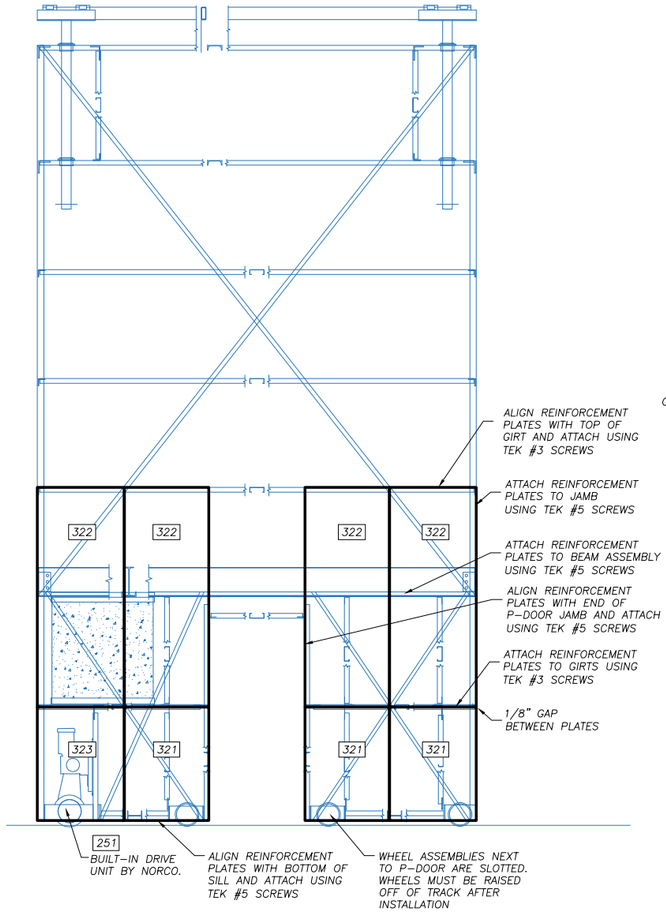
(R.H.) INTERIOR SIDE SHOWN



IMPORTANT!
WHEEL ASSEMBLIES NEXT TO P-DOOR ARE SLOTTED, WHEELS MUST BE RAISED APPROX. 1/8" UP OFF OF THE TRACK AFTER INSTALLATION .

DRIVE DOOR FRAMING

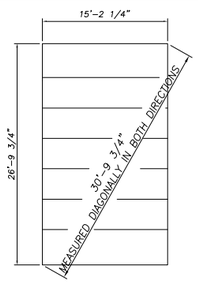
(DOORS 5)
AS VIEWED FROM EXTERIOR

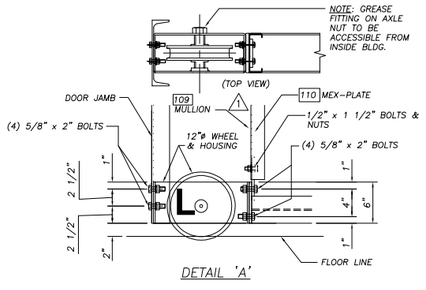


EXTERIOR REINFORCEMENT PLATE LOCATION DETAIL

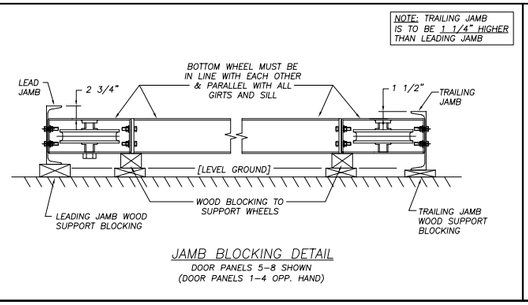
(FOR DOOR 5)
AS VIEWED FROM EXTERIOR
MOUNT REINFORCEMENT PLATES ON DOOR BEFORE LIFTING

Note:
Door panels must be square (±1/8") & tightened prior to lifting into place.





DETAIL 'A'



JAMB BLOCKING DETAIL

DOOR PANELS 5-8 SHOWN
(DOOR PANELS 1-4 OPP. HAND)

GENERAL NOTES

1.) ALL FRAMING AS VIEWED FROM OUTSIDE HANGAR

2.) ALL MEMBERS TO BE FASTENED WITH 1/2"ø x 1 1/2"Lg. BOLTS SUPPLIED BY NORCO. (UNLESS NOTED OTHERWISE)

3.) ALL SLOTTED HOLES ARE TO HAVE FLATWASHERS.

4.) BLOCK JAMBS WHEN ASSEMBLING DOORS ON THE GROUND TO COMPENSATE FOR JAMB OFFSET, AND TO INSURE THAT THE BOTTOM WHEELS ARE STRAIGHT AND PARALLEL.

5.) ALL DOOR FRAMES TO BE SQUARE (±1/8" WHEN MEASURED DIAGONALLY) PRIOR TO FINAL TIGHTENING OF BOLTS AND ERECTION INTO OPENING.

DIAGONAL STRAPPING INSTALLATION NOTES

1.) FIELD FASTEN STRAPPING TO EXTERIOR OF DOOR HEADER AS SHOWN USING TEK SCREWS SUPPLIED BY NORCO.

2.) RUN STRAPPING TO OPPOSITE CORNER OF THE DOOR (AT THE BOTTOM) AND FASTEN.

3.) APPLY PRESSURE OR WEIGHT TO STRAPPING BETWEEN HEADER AND ADJACENT GIRT TO PULL THE STRAPPING TIGHT.

4.) WHILE STRAPPING IS TIGHT, FASTEN IT TO THE REMAINING GIRTS.

5.) UNSCREW THE STRAPPING FROM THE HEADER ONLY AND REATTACH ONCE IT IS PULLED TIGHT. CUT-OFF ANY EXCESS.

NOTE: STAPPING IS HIGH-TENSILE STEEL. HOLES MAY NEED TO BE PREPUNCHED TO ALLOW TEK SCREWS TO PENETRATE.

NORCO Industrial Doors
Franksville, WI 53126
(262)835-2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

Revisions
1 04/20/2023 BKK REV PER R&R
2 08/03/2023 BJS FOR CONSTRUCTION

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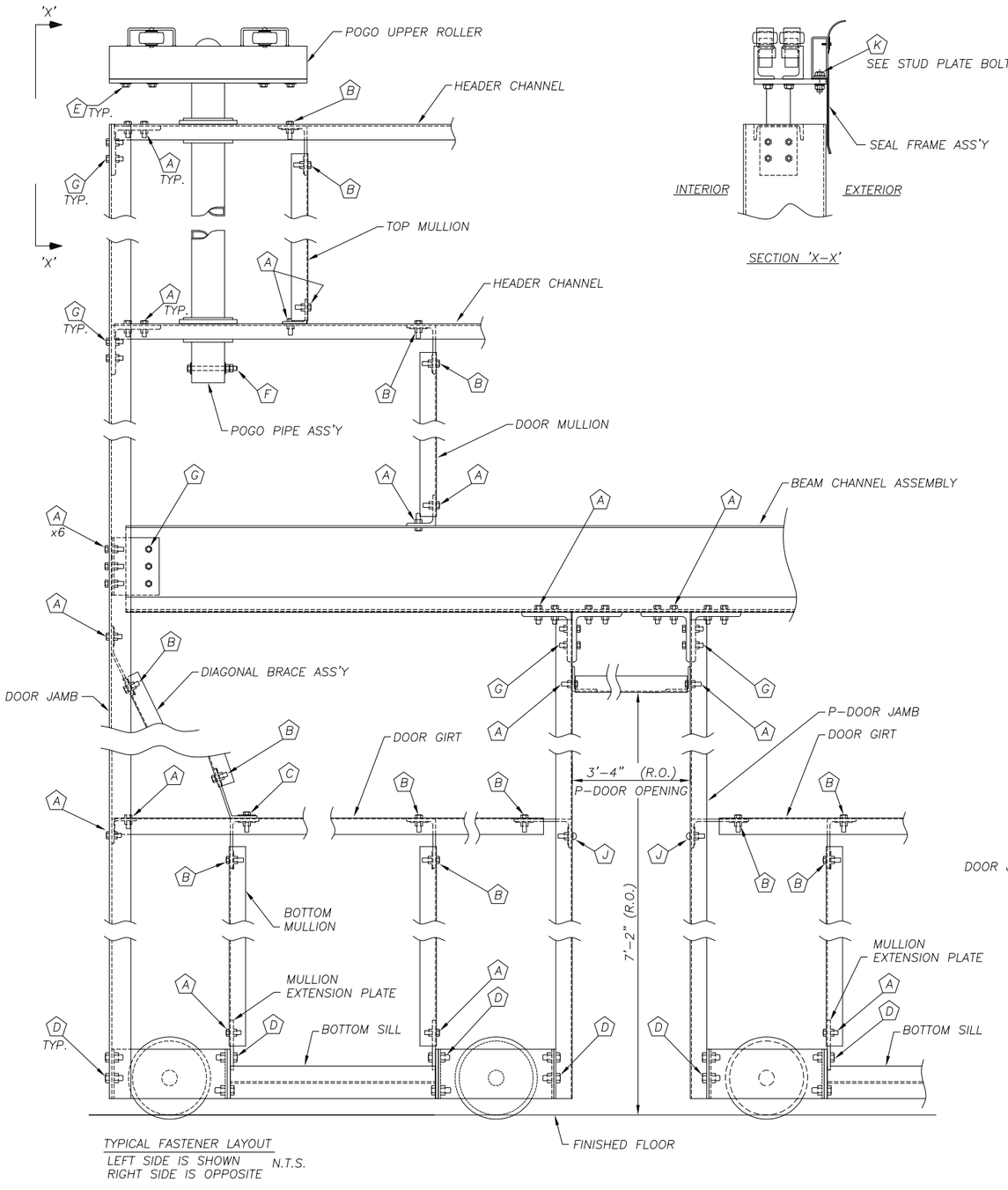
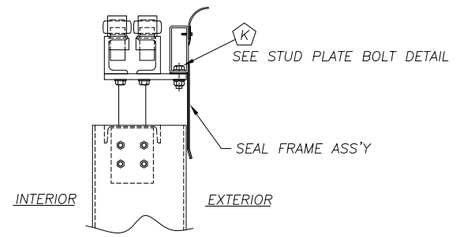
Scale: NONE
Checked: XXX
Date: 03/15/2023
Project No.: 11045
Sheet Number: 5A

GENERAL NOTES

1. ALL HIGH–STRENGTH BOLTS ARE TO BE SNUG–TIGHT AS SPECIFIED BY AISC (UNLESS NOTED OTHERWISE). BOLTS IN STANDARD HOLES DO NOT REQUIRE THE USE OF FLAT WASHERS PER ASTM A325, SECTION 5 (B).
2. FLAT WASHERS ARE REQUIRED AT ALL SLOTTED CONNECTIONS AND OVERSIZED HOLES.
   – ON A HOLE TO SLOT CONNECTION ONE WASHER IS REQUIRED ON THE SLOTTED SIDE.
   – ON A SLOT TO SLOT CONNECTION TWO WASHERS ARE REQUIRED, ONE ON EACH SIDE OF THE CONNECTION.
3. ALL DETAILS SHOWN MAY NOT APPLY TO ALL PROJECTS. REFER TO PROJECT LAYOUTS FOR PARTICULAR APPLICATIONS AND/OR REFERENCE.

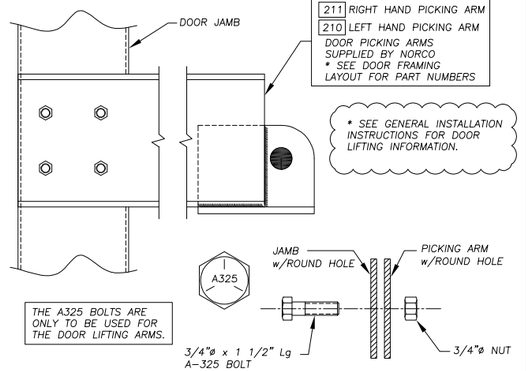


TYPICAL FASTENER LAYOUT
LEFT SIDE IS SHOWN N.T.S.
RIGHT SIDE IS OPPOSITE

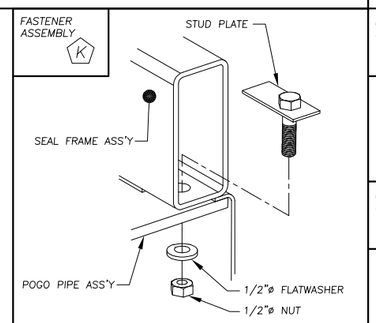


SECTION 'X–X'

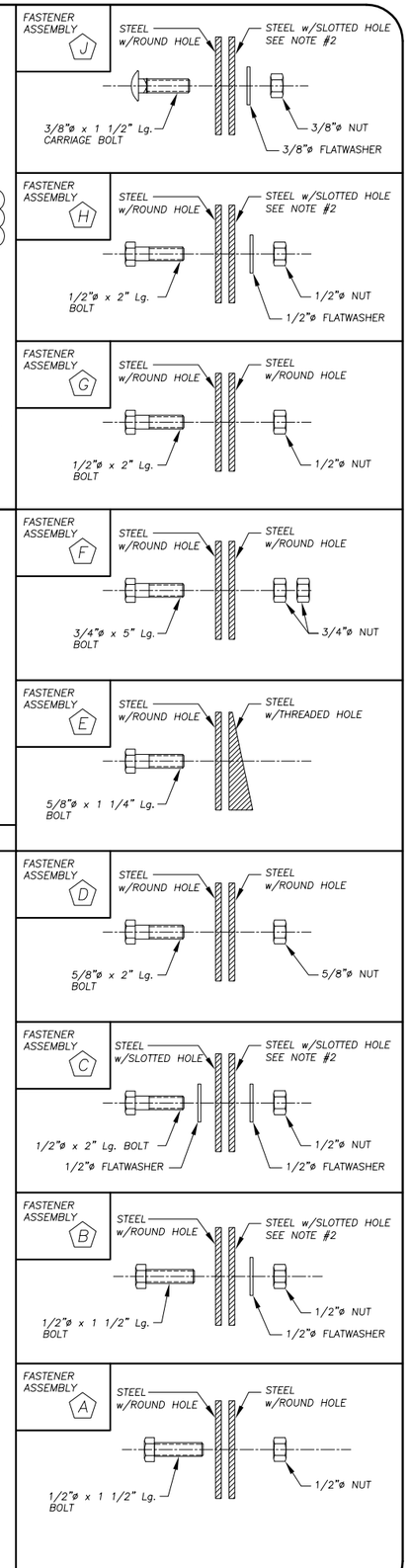
NOTE:
USE EXTRA 3/4" x 1-1/2" BOLTS TO FILL HOLES IN DOOR JAMBS THAT ARE EXPOSED TO THE OUTSIDE. BOLTS ARE BY NORCO (TYP.).

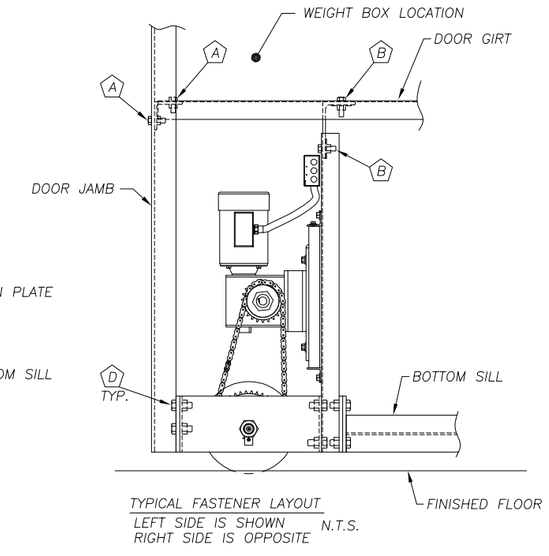


FASTENER REQUIREMENT FOR DOOR PICKING ARMS



STUD PLATE BOLT DETAIL





TYPICAL FASTENER LAYOUT
LEFT SIDE IS SHOWN N.T.S.
RIGHT SIDE IS OPPOSITE

Universal Door Systems
Franksville, WI 53126
(262)835–2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

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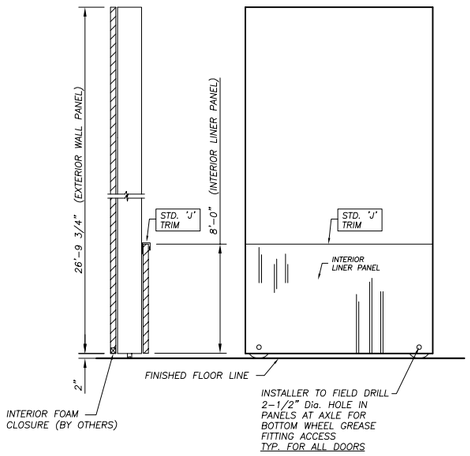
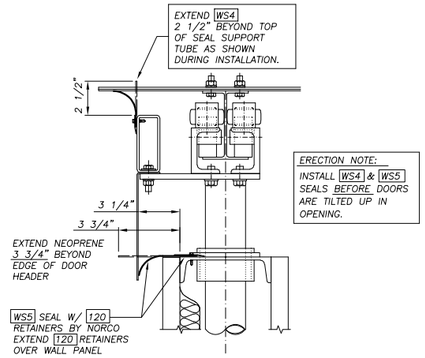


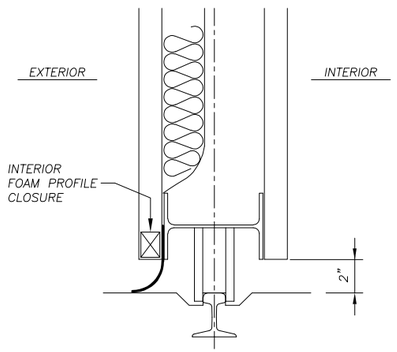
INTERIOR GREASE FITTING ACCESS HOLE DETAIL

DESIGN AND FABRICATION OF VERTICAL PANEL SUPPORTS IS NOT BY NORGO.



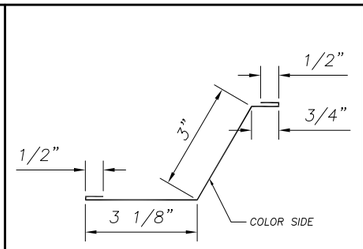
HEADER SEAL DETAIL

TYP. ALL DOORS

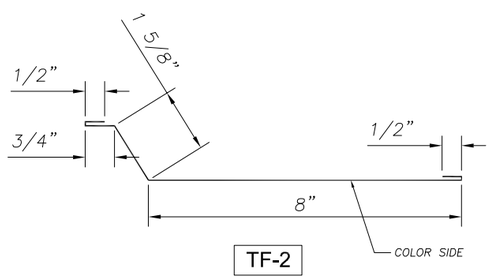


SILL BEAM SEAL DETAIL

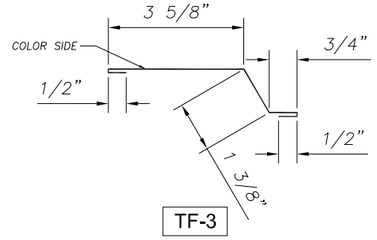
TYP. ALL DOORS



TF-1



TF-2



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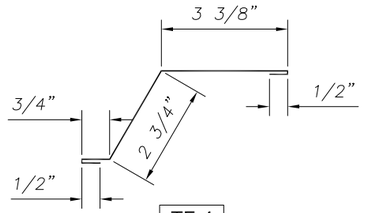


TF-4

USE WALL PANEL MANUFACTURER'S STANDARD TRIMS AROUND FRAMED OPENINGS AND AT TOP AND BOTTOM OF DOORS

TRIM FLASHING PROFILES

*ALL HEMS ARE CLOSED
*ALL BREAKS ARE 120° U.N.O.

TRIM FLASHING & SIDING LAYOUT GENERAL NOTES:

1.) ALL METAL WALL PANEL, TRIM FLASHING, FOAM PROFILE CLOSURES, INSULATION (IF ANY), & COLORED FASTENERS NOT BY NORCO.

2.) ALL TRIM FLASHING TO BE FASTENED 1'-0" O.C.

3) EXTERIOR METAL WALL PANEL PROFILE TO BE "A-PANEL" AS MFR'D. BY NUCORE.

4) INTERIOR METAL WALL PANEL PROFILE TO BE "R-PANEL" AS MFR'D. BY NUCORE.

BILL OF MATERIALS

EXTERIOR METAL WALL PANEL, 40 SHEETS AT 26'-9 3/4" Lg.
INTERIOR METAL WALL PANEL, 40 SHEETS AT 8'-0" Lg.

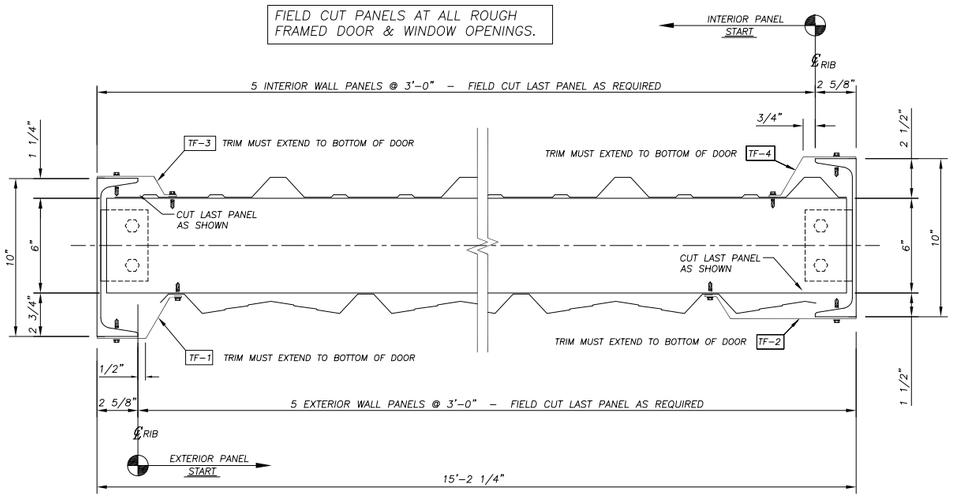
INTERIOR FOAM PROFILE CLOSURES, 40 PCS. (FOR EXTERIOR PANELS)

TRIM FLASHING PART NO. TF-1, 24 PCS. AT 10'-0" Lg.
TRIM FLASHING PART NO. TF-2, 24 PCS. AT 10'-0" Lg.
TRIM FLASHING PART NO. TF-3, 8 PCS. AT 10'-0" Lg.
TRIM FLASHING PART NO. TF-4, 8 PCS. AT 10'-10" Lg.

NOTE: EXACT PANEL AND TRIM QUANTITIES HAVE BEEN SHOWN. ANY OVERAGES OTHER THAN WHAT IS SHOWN ARE THE RESPONSIBILITY OF THE SUPPLIER.

NOTE: ATTACHED DETAILS ARE FURNISHED FOR DIMENSIONAL PURPOSES ONLY, AND ARE NOT INTENDED TO BE INSTALLATION GUIDELINES. REFER TO WALL PANELING MANUFACTURER'S SPECS. FOR APPROVED RECOMMENDED INSTALLATION INSTRUCTIONS. FINAL PERFORMANCE OF INSTALLATION IS THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

FIELD CUT PANELS AT ALL ROUGH FRAMED DOOR & WINDOW OPENINGS.

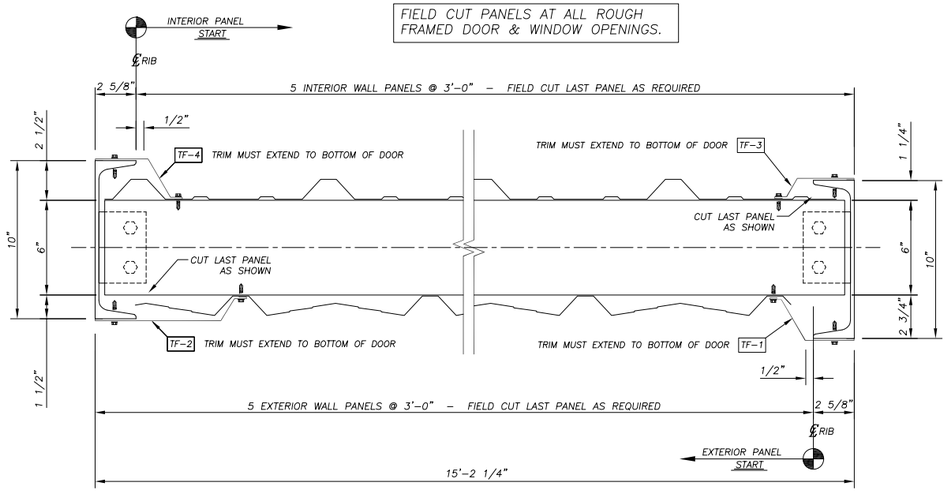


USE WALL PANEL MANUFACTURER'S STANDARD TRIMS AROUND FRAMED OPENINGS AND AT TOP AND BOTTOM OF DOORS

TRIM FLASHING & SIDING LAYOUT

DOORS 5 - 8

FIELD CUT PANELS AT ALL ROUGH FRAMED DOOR & WINDOW OPENINGS.



USE WALL PANEL MANUFACTURER'S STANDARD TRIMS AROUND FRAMED OPENINGS AND AT TOP AND BOTTOM OF DOORS

TRIM FLASHING & SIDING LAYOUT

DOORS 1 - 4

NORGO Industrial Doors
Franksville, WI 53126
(262)835-2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

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1 07/11/2023 BJS FOR CONSTRUCTION
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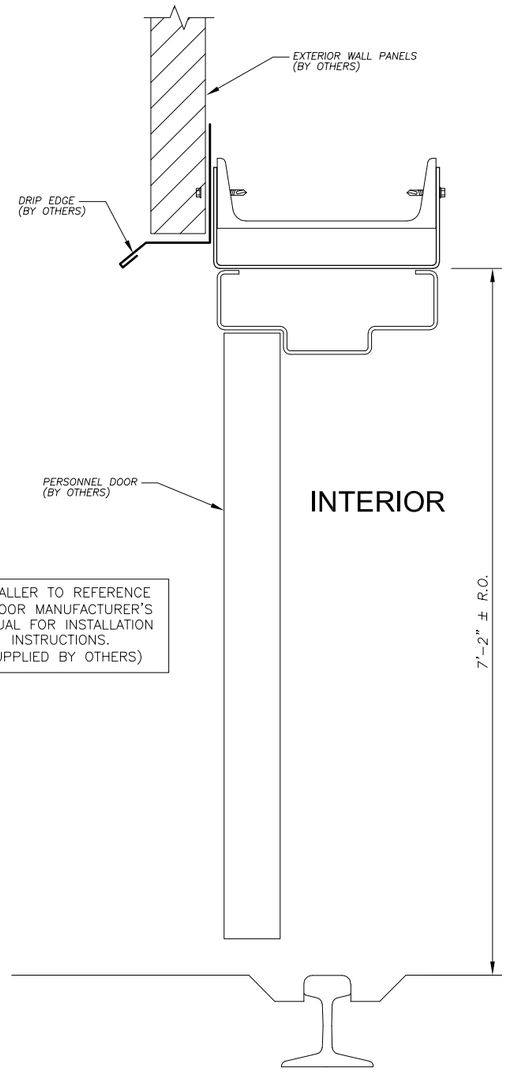
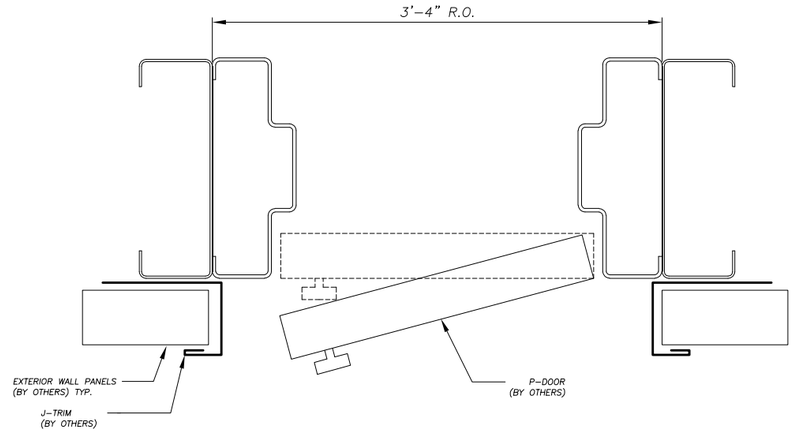
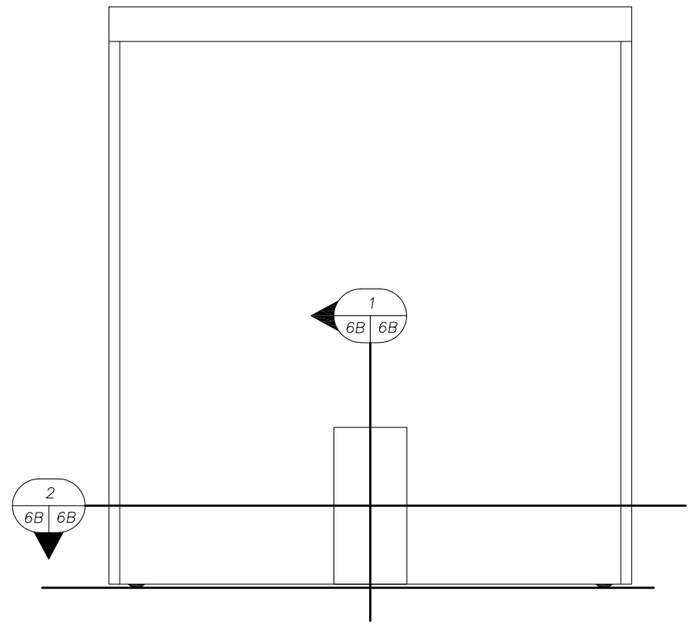


INSTALLER TO REFERENCE P-DOOR MANUFACTURER'S MANUAL FOR INSTALLATION INSTRUCTIONS. (SUPPLIED BY OTHERS)

1 / 6B | 6B SECTION THRU PERSONNEL DOOR



2 / 6B | 6B SECTION THRU PERSONNEL DOOR



DOOR ELEVATION VIEW

SHOWN FROM EXTERIOR

MIDCO Industrial Doors
Franksville, WI 53126
(262)835-2600

Customer: THE HAGERMAN GROUP

Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

Revisions

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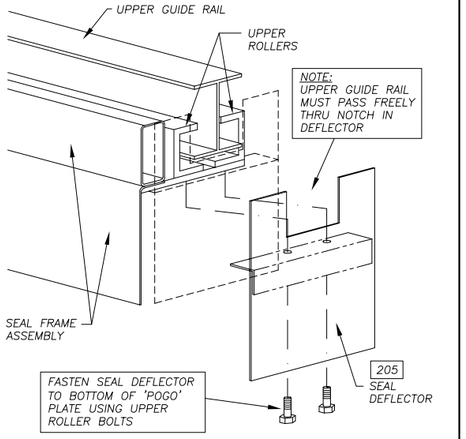
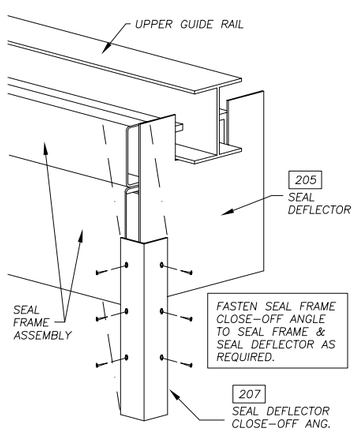
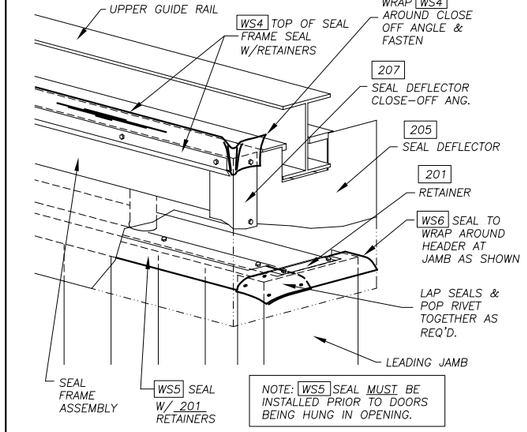
Sheet Number: 6A



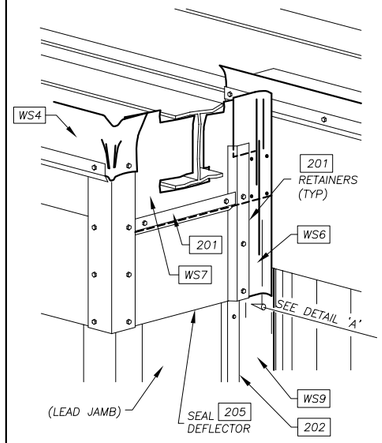
SEAL DEFLECTOR INSTALLATION STEP #1



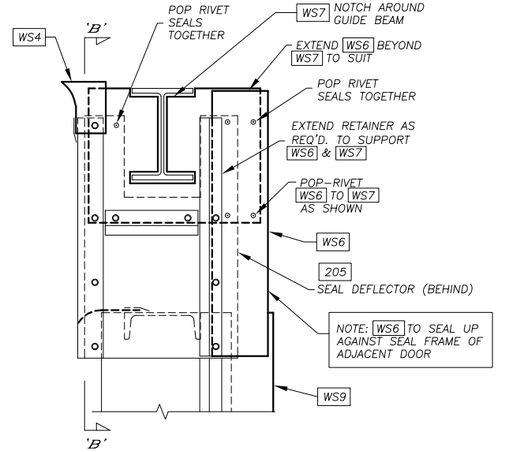
CLOSE-OFF ANGLE INSTALLATION STEP #2



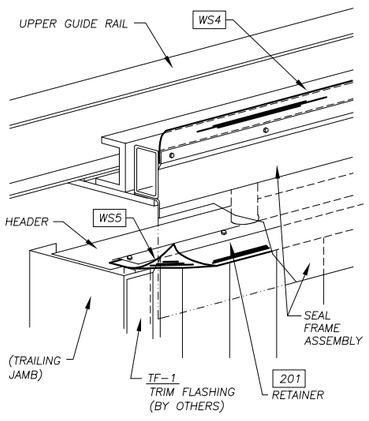
WS5 & WS4 SEAL DETAILS @ LEAD DOOR JAMB



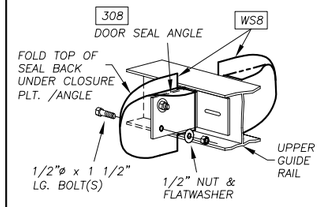
WS6 & WS7 SEAL DETAILS @ LEAD JAMBS

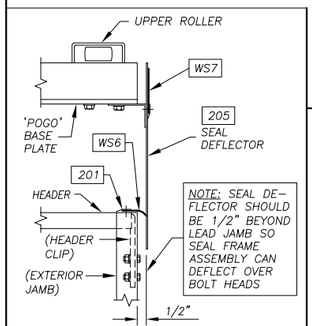


DETAIL 'A'

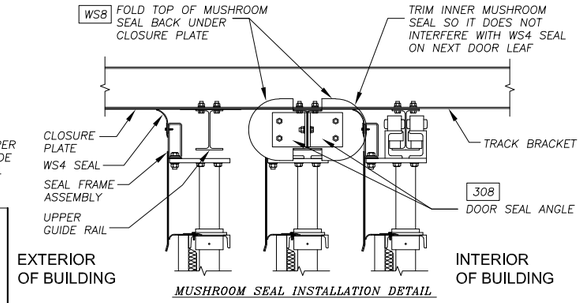


WS-5 SEAL DETAILS @ TRAILING JAMB





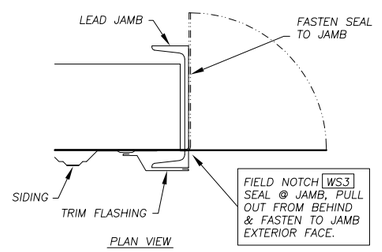
SECTION 'B-B'



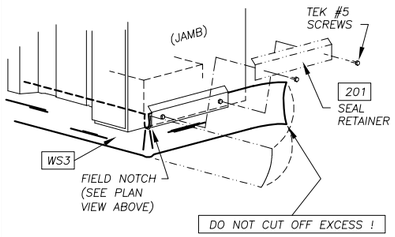
MUSHROOM SEAL INSTALLATION DETAIL

GENERAL NOTES

1. ALL DETAILS SHOWN MAY NOT APPLY TO ALL PROJECTS. REFER TO PROJECT LAYOUTS FOR PARTICULAR APPLICATIONS AND/OR REFERENCE.
2. DO NOT PAINT ANY NEOPRENE SEALS !
3. FIELD ADJUST ALL DOOR SEAL ANGLES WITH DOORS IN THE FULL CLOSED POSITION & FIELD WELD TO MAINTAIN LOCATION PRIOR TO SEALS BEING INSTALLED.
4. USE TEK #3 SCREWS (SUPPLIED BY NORCO) WHEN FASTENING SEALS & RETAINERS TO COLD-FORMED STEEL (12 GA. & LESS IN THICKNESS).
5. USE TEK #5 SCREWS (SUPPLIED BY NORCO) WHEN FASTENING SEALS & RETAINERS TO HOT-ROLLED STEEL (10 GA. & GREATER IN THICKNESS).
6. POP-RIVETS (WHERE INDICATED) BY OTHERS. ALL POP-RIVETS TO BE NON-CORROSIVE. ALL POP-RIVETS USED FOR NEOPRENE TO NEOPRENE CONNECTIONS MUST HAVE BACKING WASHERS
7. NEOPRENE SEALS ARE NOT TO 'DRAG' OR CONTACT SIDING OR FASTENERS.

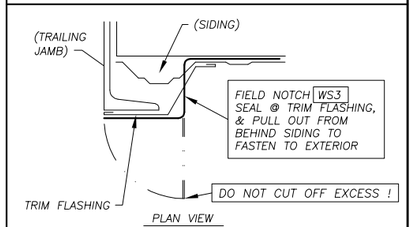


PLAN VIEW

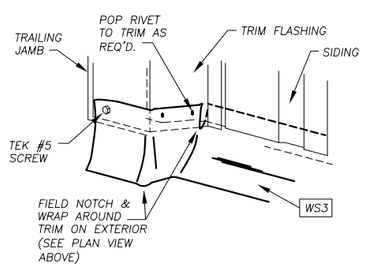


DETAIL 'F'

(BOTTOM SEAL DETAIL @ LEAD JAMB)

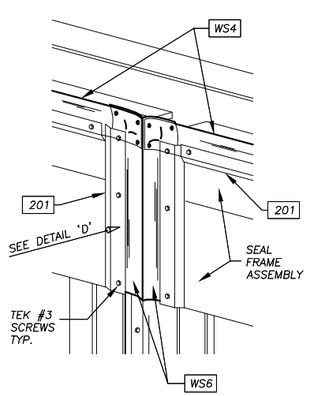


PLAN VIEW

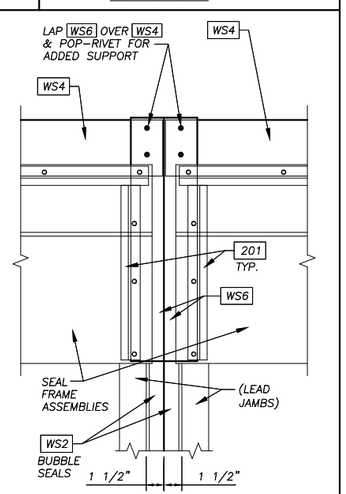


DETAIL 'E'

(BOT. SEAL DET. @ TRAILING JAMB)



TOP OF DOOR SEAL DETAILS @ CENTER OF OPENING



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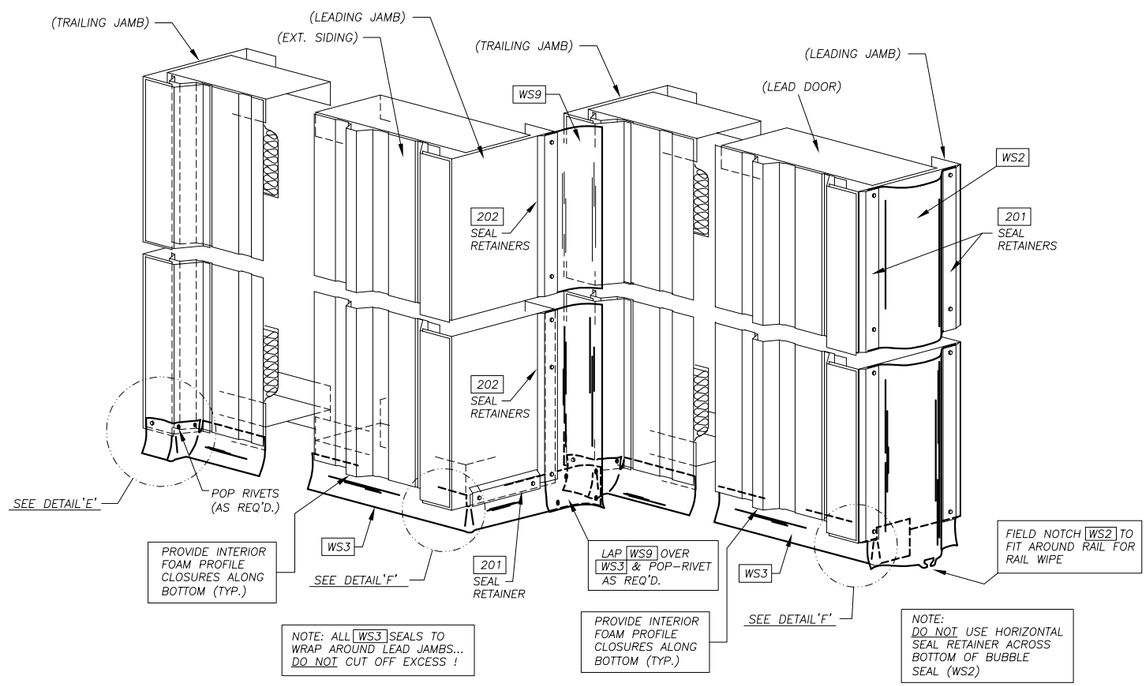

VERTICAL & SIDE SEAL DETAILS (TYPICAL)

NORCO Universal Door Systems
Franksville, WI 53126
(262)835-2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

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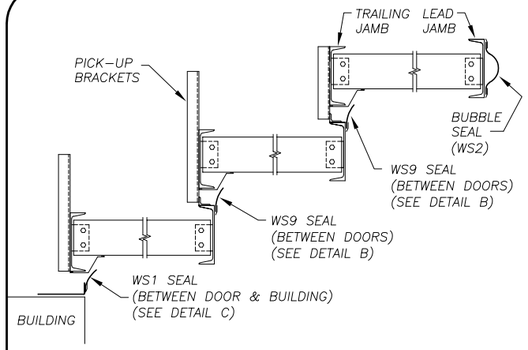
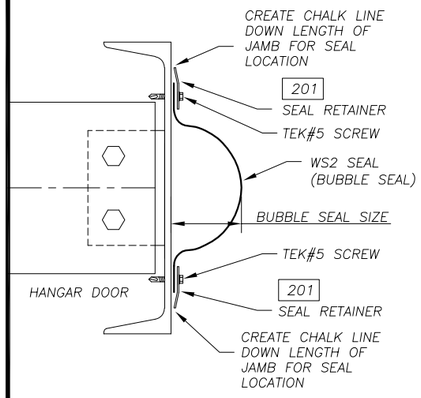


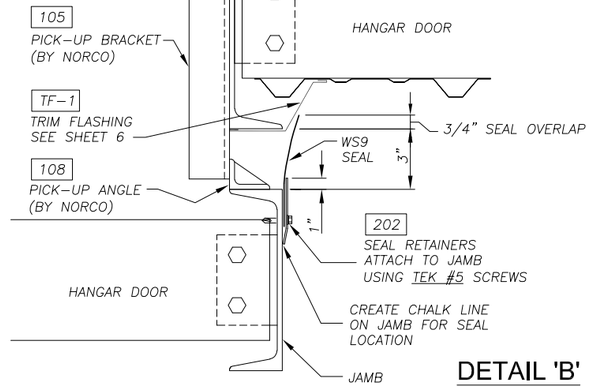
WS1, WS2 & WS9 SEAL LOCATIONS



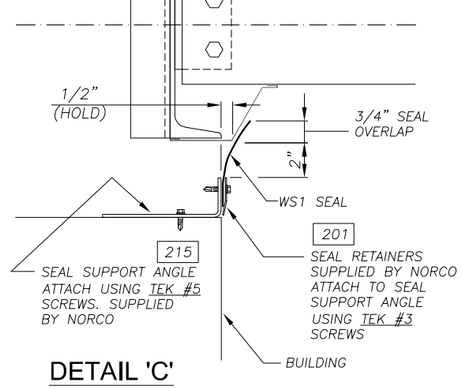
DETERMINE THE LOCATION AND SIZE OF THE BUBBLE SEAL USING DETAIL 'B' ON PAGE 4.

CREATE TWO CHALK LINES DOWN THE LENGTH OF THE JAMB FOR THE LOCATION OF THE SEAL, WHEN THE JAMB IS IN EITHER THE HORIZONTAL OR VERTICAL POSITION.

DETAIL 'A'



DETAIL 'B'

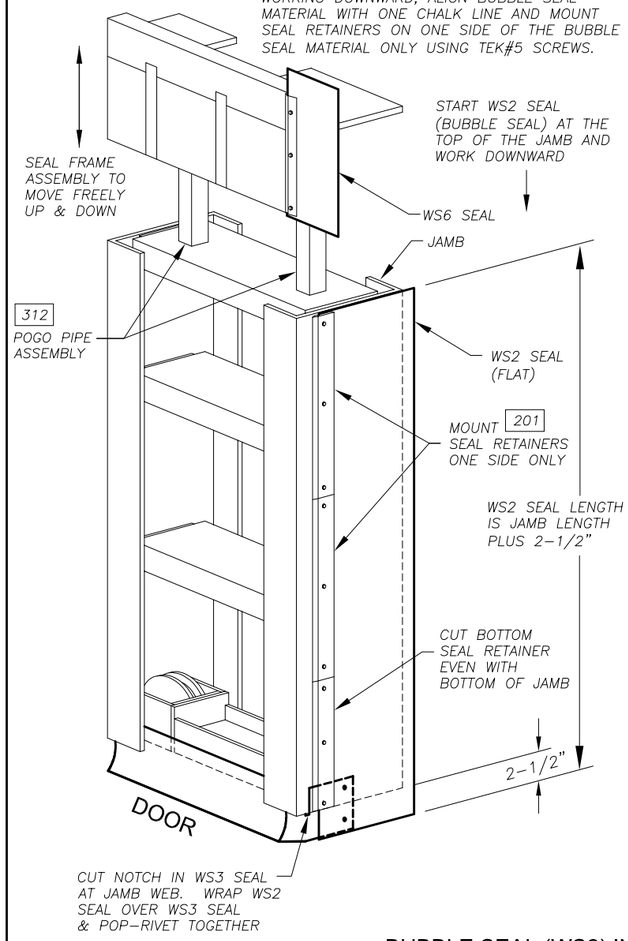


DETAIL 'C'

CREATE TWO CHALK LINES FOR THE LOCATION OF THE BUBBLE SEAL WHEN THE JAMB IS IN THE VERTICAL OR HORIZONTAL POSITION (SEE DETAIL A).

STEP 1

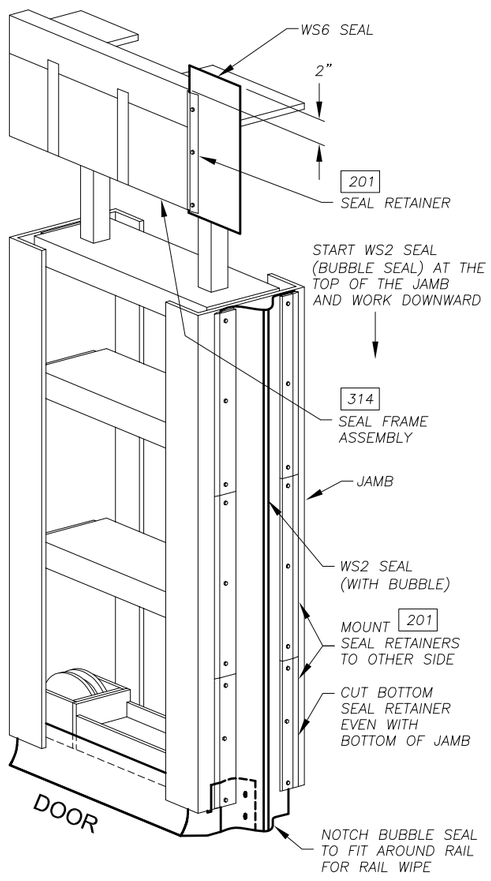
WHEN THE DOOR IS IN THE VERTICAL POSITION, STARTING AT THE TOP OF THE JAMB AND WORKING DOWNWARD, ALIGN BUBBLE SEAL MATERIAL WITH ONE CHALK LINE AND MOUNT SEAL RETAINERS ON ONE SIDE OF THE BUBBLE SEAL MATERIAL ONLY USING TEK#5 SCREWS.



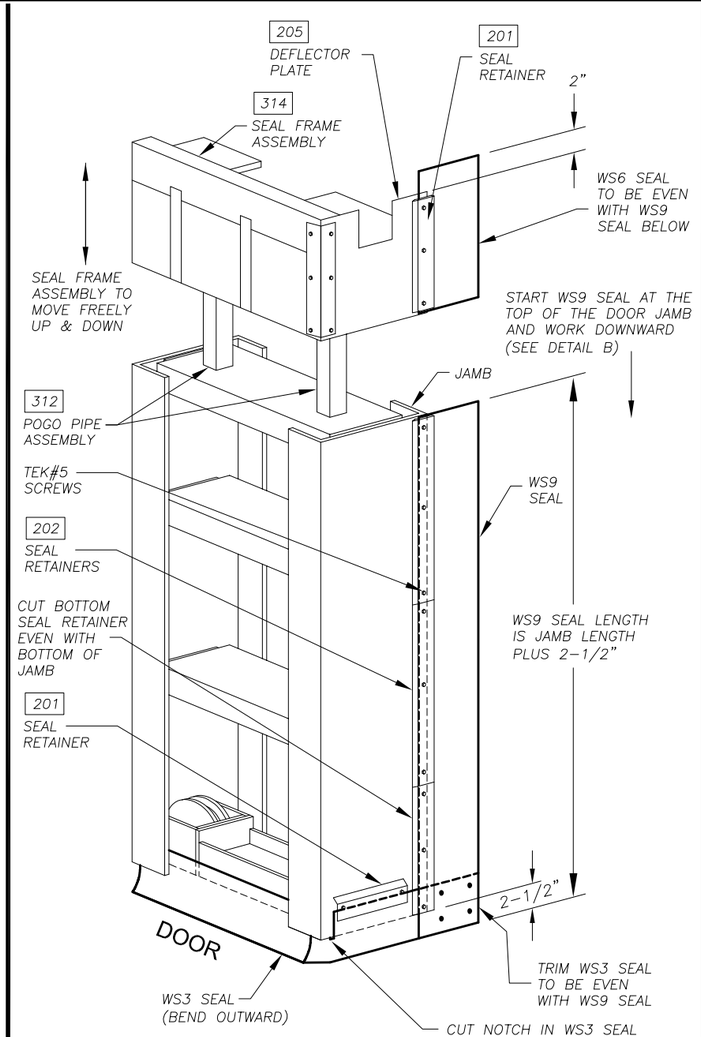
BUBBLE SEAL TO EXTEND PAST BOTTOM OF JAMB BY 2–1/2" AND SHOULD BE EVEN WITH BOTTOM SEAL (WS3)

STEP 2

STARTING AT THE TOP OF THE JAMB AND WORKING DOWNWARD, ALIGN THE OTHER SIDE OF THE BUBBLE SEAL MATERIAL WITH THE SECOND CHALK LINE AND FASTEN IN PLACE USING SEAL RETAINERS AND TEK#5 SCREWS.



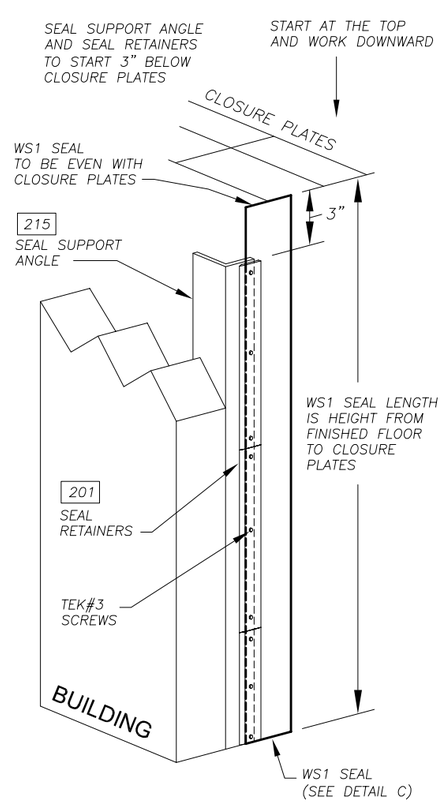
BUBBLE SEAL (WS2) INSTALLATION DETAIL FOR POGO DOORS
CENTER OF DOOR ON BI-PARTING DOOR SYSTEMS
END OF DOOR ON ONE WAY DOOR SYSTEMS



CREATE A CHALK LINE ON THE JAMB FOR THE LOCATION OF THE SEAL.

WS9 SEAL TO EXTEND PAST BOTTOM OF JAMB BY 2–1/2" AND SHOULD BE EVEN WITH BOTTOM SEAL (WS3)

WS9 SEAL DETAIL



CREATE A CHALK LINE ON THE SEAL SUPPORT ANGLE FOR THE LOCATION OF THE WS1 SEAL.

WS1 SEAL DETAIL

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Franksville, WI 53126
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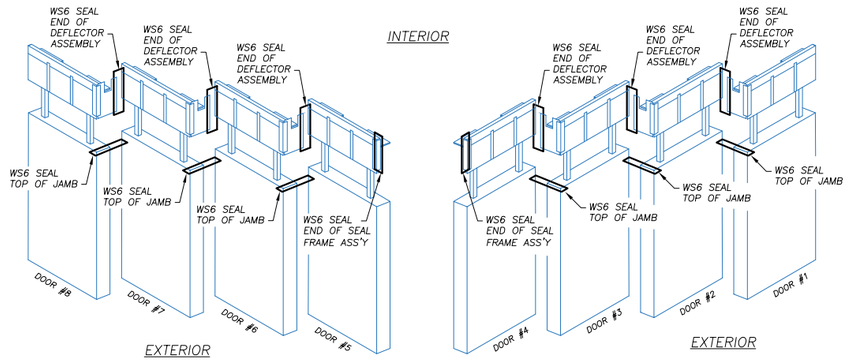
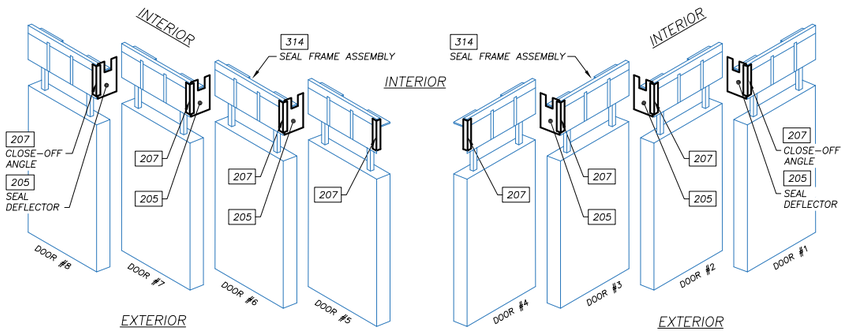
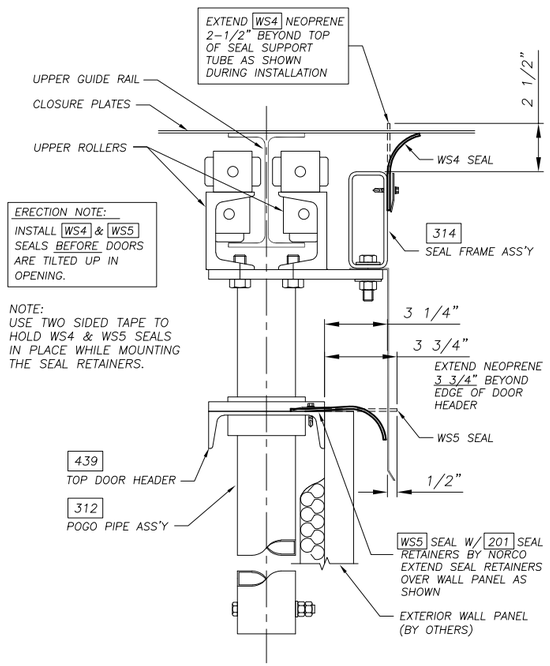
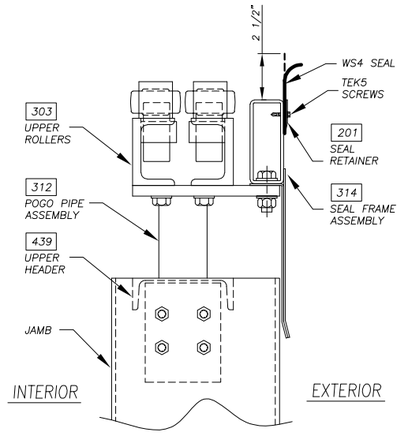


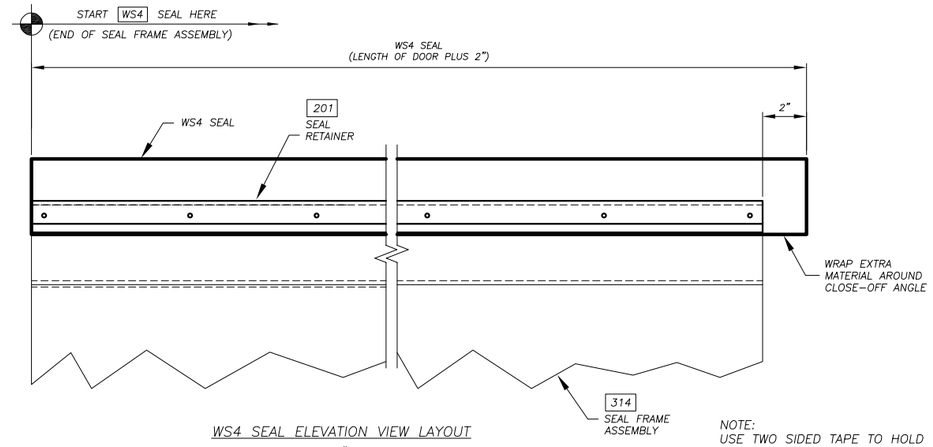
WS6 SEAL LOCATIONS



DEFLECTOR PLATE &
CLOSE-OFF ANGLE LOCATIONS



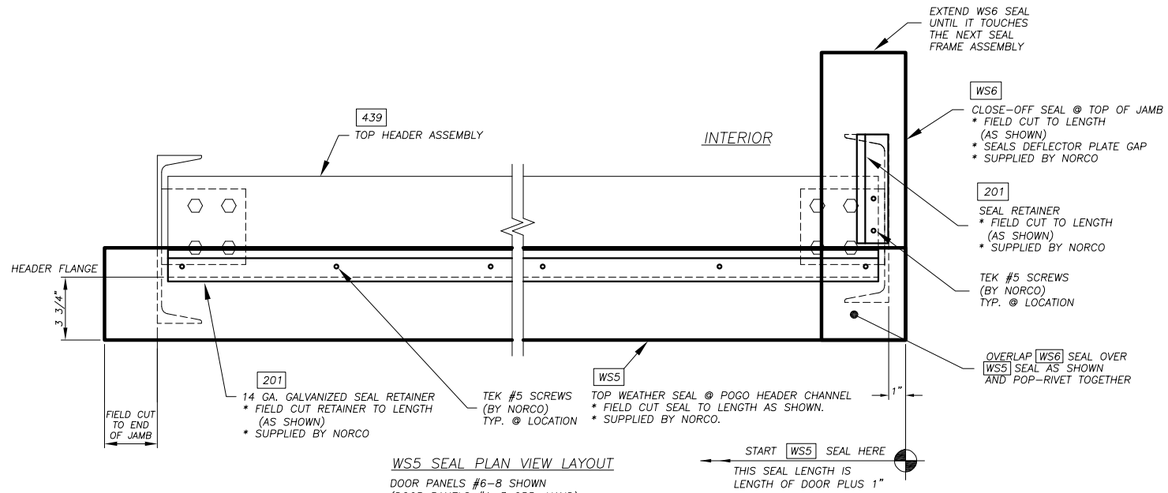




WS4 SEAL ELEVATION VIEW LAYOUT

DOOR PANELS #5-8 SHOWN
(DOOR PANELS #1-4 OPP. HAND)

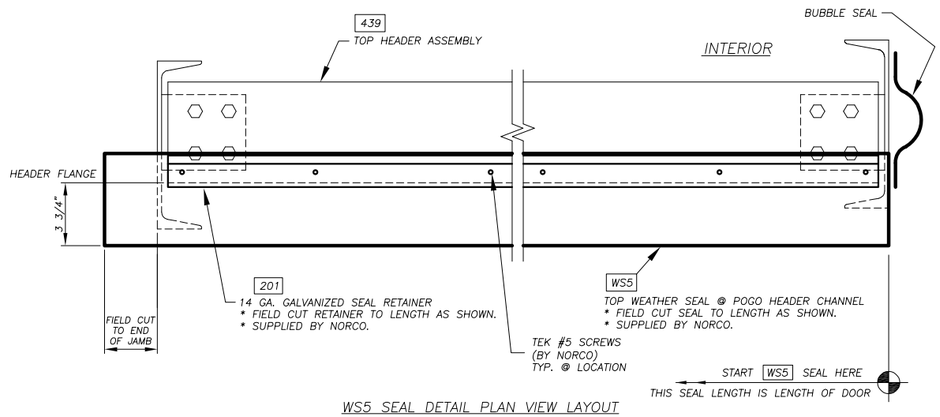
NOTE:
USE TWO SIDED TAPE TO HOLD THE WS4 SEAL IN PLACE WHILE MOUNTING THE SEAL RETAINERS.



WS5 SEAL PLAN VIEW LAYOUT

DOOR PANELS #6-8 SHOWN
(DOOR PANELS #1-3 OPP. HAND)

NOTE:
USE TWO SIDED TAPE TO HOLD THE WS5 SEAL IN PLACE WHILE MOUNTING THE SEAL RETAINERS.



WS5 SEAL DETAIL PLAN VIEW LAYOUT

DOOR PANEL #4 SHOWN
(DOOR PANEL #3 OPP. HAND)

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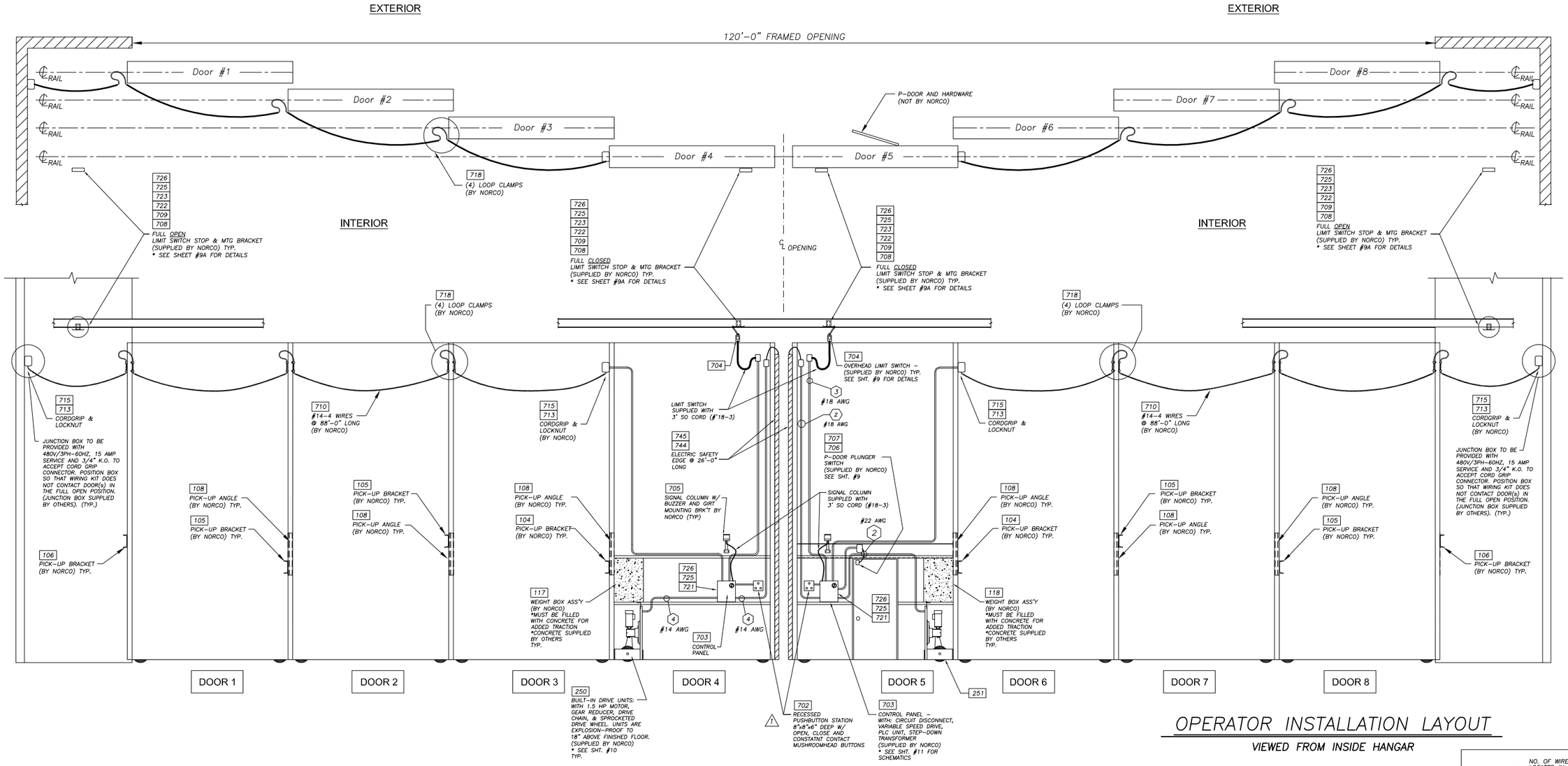
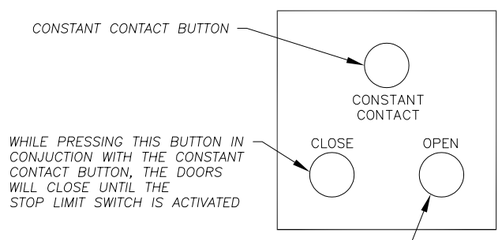


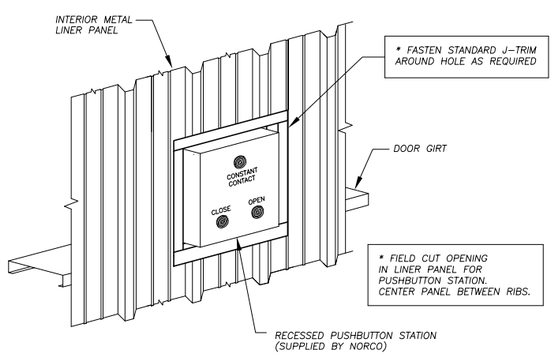
OPERATOR INSTALLATION LAYOUT

VIEWED FROM INSIDE HANGAR

2 NO. OF WIRES LOCATED IN CONDUIT
#14 AWG WIRE GAUGE
KEY



PUSHBUTTON DETAIL



RECESSED PUSH BUTTON STATION DETAIL

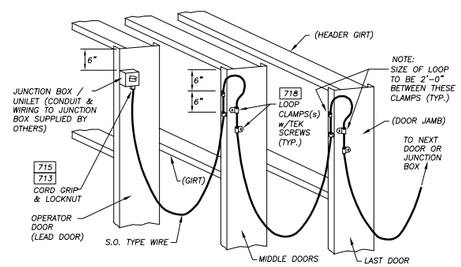
1.) LOCATE JUNCTION BOX AS CLOSE TO TOP OF DOOR AS POSSIBLE. (APPROX. 6")

2.) POSITION LOOP CLAMPS WITH WIRE ON FLANGE OF JAMB. CABLE MUST NOT HAVE ANY 'COIL TWIST' WHEN CLAMPED TO JAMB.

3.) LOOP WIRE AROUND TO BACKSIDE OF JAMB & CLAMP TO MIDDLE OF JAMB AS SHOWN IN DETAIL. (APPROX. 6" APART)

4.) CABLE MUST HANG FREELY WHEN DOORS ARE IN THE FULL OPENED POSITION.

5.) WHEN DOORS ARE FULLY CLOSED, S.O. CABLE MUST NOT BE TIGHT. A TIGHT S.O. CABLE WILL CAUSE EXCESSIVE WEAR AT THE LOOP CLAMPS.



B-WIRING KIT INSTALLATION DETAIL

GENERAL NOTES

1. INSTALLER IS TO FOLLOW ALL NATIONAL AND/OR LOCAL ELECTRICAL CODES, AS THEY APPLY, UPON INSTALLATION
2. ALL WIRES, CONDUIT, CONNECTORS & JUNCTION BOXES ARE SUPPLIED BY OTHERS UNLESS NOTED OTHERWISE
3. SIZE, QUANTITY & TYPE OF WIRES & CONDUIT THAT MAY BE INDICATED ARE PURELY SUGGESTION.
4. ALL ELECTRICAL COMPONENTS ARE TO BE INSTALLED PRIOR TO INSTALLATION OF CONDUIT & WIRE.
5. ANY & ALL ADJUSTMENTS TO ELECTRICAL COMPONENTS, TO INSURE PROPER OPERATION OF THE HANGAR DOOR SYSTEM, SHALL BE DONE BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFIED OTHERWISE.
6. THE VARIABLE SPEED CONTROLLERS MAY NOT FUNCTION PROPERLY IF THESE DOORS ARE RUNNING ON A TEMPORARY POWER SUPPLY. WHEN SETTING THE FINAL LIMITS FOR THE DOORS, MAKE SURE THE FINAL POWER SUPPLY IS CONNECTED.
7. FIELD INSTALLATION NOT BY NORCO
8. THE DOOR PICK-UP BRACKETS AND ANGLES MUST BE INSTALLED PRIOR TO INSTALLING OVERHEAD POWER CABLE. SEE SHEET #4.
9. DO NOT RUN ANY LOW VOLTAGE WIRES TOGETHER WITH HIGH VOLTAGE WIRES IN THE SAME CONDUIT. TIE-WRAP ALL LOW VOLTAGE CABLE TO THE EXTERIOR OF CONDUIT. TIE WRAPS SUPPLIED BY OTHERS
10. ELECTRICAL CONTRACTOR TO FIELD LOCATE & DRILL HOLES IN ALL PUSHBUTTON STATIONS AND CONTROL PANELS FOR CONDUIT INSTALLATION AS NEEDED.
11. SUPPLY VOLTAGE FLUCTUATIONS IN EXCESS OF PLUS OR MINUS 5% COULD CAUSE A DRIVE FAULT ERROR. RESET DRIVE BY TURNING POWER OFF FOR 15 SECONDS.
12. SUPPLY VOLTAGE FLUCTUATIONS OR VOLTAGE MONITORING ARE NOT THE RESPONSIBILITY OF NORCO MFG. AND ARE NOT CONSIDERED A WARRANTY ISSUE.

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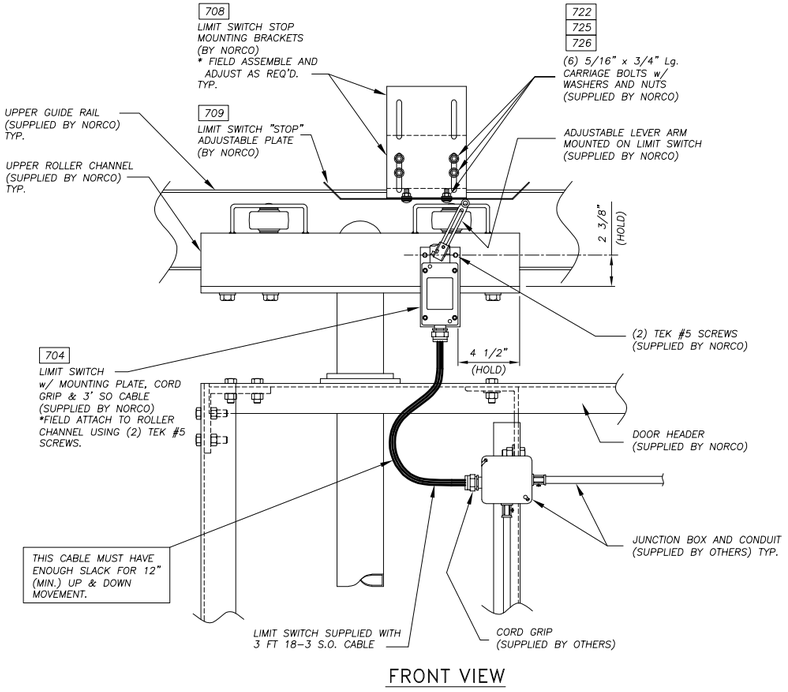
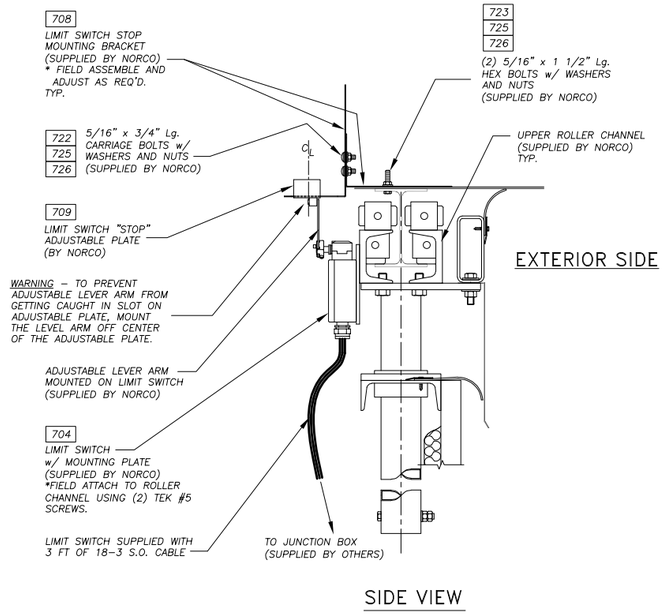
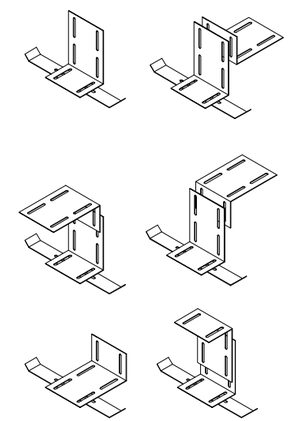


FRONT VIEW



SIDE VIEW



EXAMPLES OF LIMIT SWITCH STOP MOUNTING BRACKET ASSEMBLY FIELD ASSEMBLE AND ADJUST AS REQUIRED

⚠1

DETAIL REMOVED PER REVISION 1

LEVER ARM LIMIT SWITCH INSTALLATION

INSTALLING AND ADJUSTING THE LEVER ARM LIMIT SWITCHES

CAUTION!

THE LIMIT SWITCHES STOP THE DOOR SYSTEM. RUNNING THE DOOR SYSTEM WITHOUT THE LIMIT SWITCHES CAN CAUSE SEVERE INJURY AND/OR DAMAGE. USE EXTREME CAUTION WHEN INSTALLING OR ADJUSTING THE LIMIT SWITCHES.

FULL CLOSED LIMIT SWITCH INSTALLATION

BEFORE INSTALLING THE FULL CLOSED LIMIT SWITCH, CAREFULLY OPEN THE DOOR SYSTEM TO THE FULL OPEN POSITION. PRESS THE APPROPRIATE CLOSE BUTTON ON THE PENDANT OR CONTROL PANEL AND RUN THE DOOR SYSTEM SO IT GETS UP TO FULL OPERATING SPEED. ABOUT TEN FEET BEFORE THE DOOR SYSTEM IS CLOSED, RELEASE THE PUSH BUTTON AND TAKE NOTE OF HOW FAR THE DOOR SYSTEM TRAVELS WHILE COASTING TO A STOP. THIS GIVES YOU AN "APPROXIMATE CLOSE DISTANCE" THE DOOR SYSTEM WILL TRAVEL WHEN THE LIMIT SWITCH IS ACTIVATED.

CAREFULLY CLOSE THE DOOR SYSTEM, BUT LEAVE AN OPENING THE SAME DISTANCE AS THE "APPROXIMATE CLOSE DISTANCE" AND MOUNT THE LIMIT SWITCH MOUNTING BRACKETS AND THE LIMIT SWITCH "STOP" ADJUSTABLE PLATE TO THE UPPER GUIDE RAIL AND SLIDE THE "STOP" PLATE AWAY FROM THE LIMIT SWITCH UNTIL IT IS FULLY OVER (SEE DETAIL A).

MOUNT THE LIMIT SWITCH SO IT IS ON THE "STOP" PLATE BY A COUPLE OF INCHES (SEE DETAIL A), MAKING SURE THAT THE MOUNTING HARDWARE AND THE SLOT DO NOT INTERFERE WITH THE ROLLER ON THE LIMIT SWITCH LEVEL ARM.

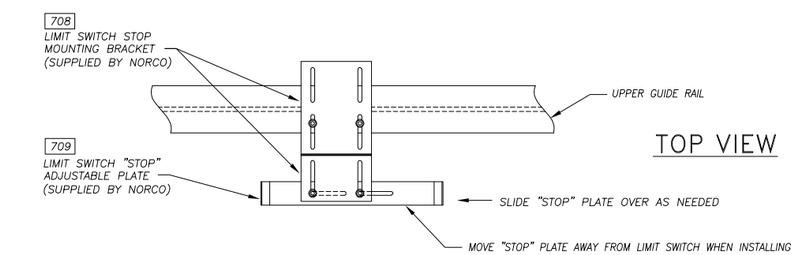
WHEN THE LIMIT SWITCH, MOUNTING BRACKETS AND "STOP" PLATE HAVE BEEN SECURELY INSTALLED, MAKE SURE TO MOVE DOORS, WHEN TESTING, FAR ENOUGH SO THE DOOR SYSTEM CAN REACH FULL SPEED WHEN CLOSING.

FULLY CLOSE THE DOOR SYSTEM AT FULL SPEED. WHEN THE LIMIT SWITCH ARM HITS THE "STOP" PLATE, POWER TO THE DRIVE MOTOR WILL BE SHUT OFF, CAUSING THE DOOR SYSTEM TO STOP. IF THE POWERED DOOR SYSTEM COASTS INTO AN ENDWALL OR OPPOSING DOOR SYSTEM, SLIDE THE "STOP" PLATE OVER TO ADJUST AS NEEDED.

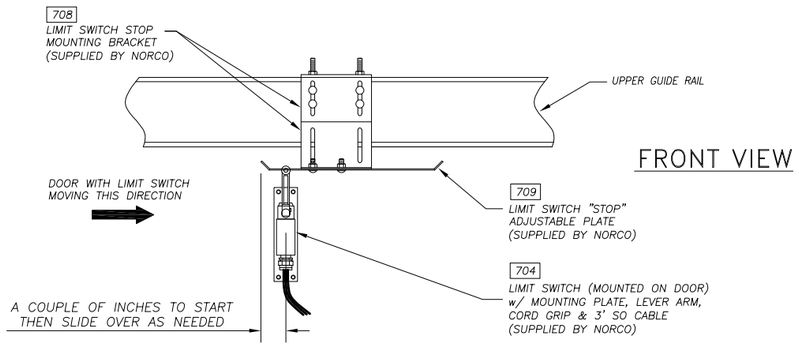
REVERSE PROCEDURE FOR INSTALLING THE FULL OPEN LIMIT SWITCH.

THE LIMIT SWITCH IS DESIGNED TO STOP THE DOOR SYSTEM. DO NOT USE THE DOOR SEAL ANGLES/PLATES ON THE UPPER GUIDE RAILS, END WALL OR OPPOSING DOOR SYSTEM TO STOP THE DOOR SYSTEM.

*IMPORTANT:
ONCE THE LIMIT SWITCHES ARE MOUNTED AND ADJUSTED, THE DOOR SEAL ANGLES ON THE UPPER GUIDE RAILS SHOULD BE CHECKED AND ADJUSTED AS NEEDED SO ALL DOORS CLOSE WHILE MAKING A GOOD SEAL (SEE PAGE 2).

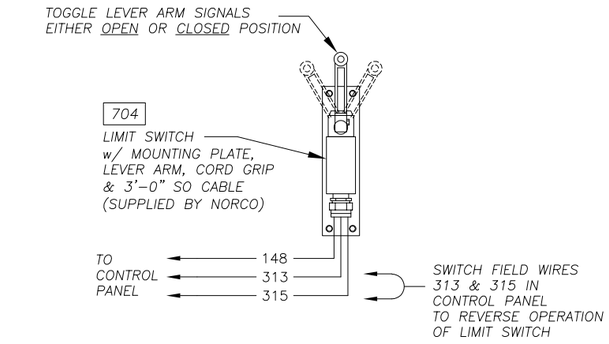


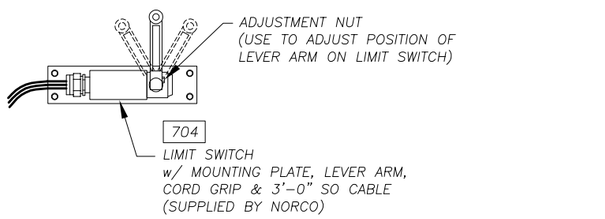
TOP VIEW



FRONT VIEW

DETAIL A





IMPORTANT:
IF THE LIMIT SWITCH IS WORKING INCORRECTLY OR WORKING BACKWARDS, SWITCH FIELD WIRES, 313 & 315 IN THE CONTROL PANEL.

ON BI-PARTING DOORS, THE FIELD WIRING ON ONE LIMIT SWITCH WILL NEED TO BE REVERSED BY SWITCHING FIELD WIRES 313 & 315.

WHEN THE DOOR SYSTEM IS FULLY CLOSED, IF THE "JOG" BUTTON IS NEEDED TO MOVE THE DOOR SYSTEM OFF OF THE LIMIT SWITCH STOP, TO OPEN THE DOOR SYSTEM, THE LIMIT SWITCH IS WORKING INCORRECTLY AND THE LIMIT SWITCH WIRING NEEDS TO BE REVERSED.

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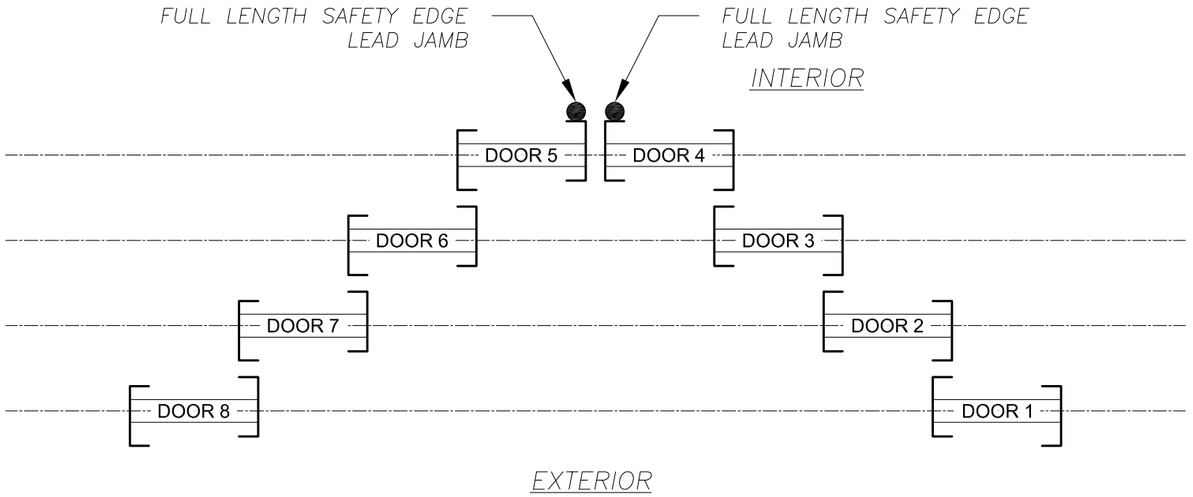
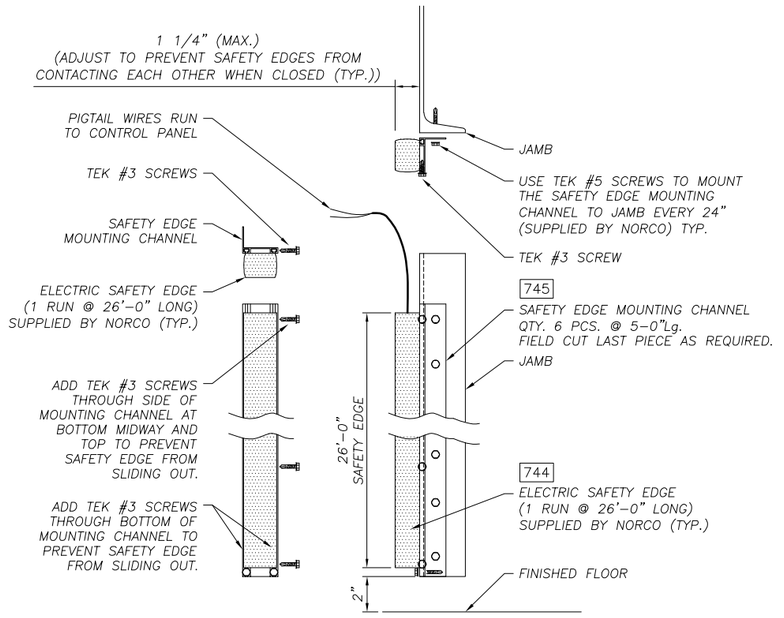
LEVER ARM LIMIT SWITCH MOUNTING & ADJUSTING

LEVER ARM LIMIT SWITCH DETAILS

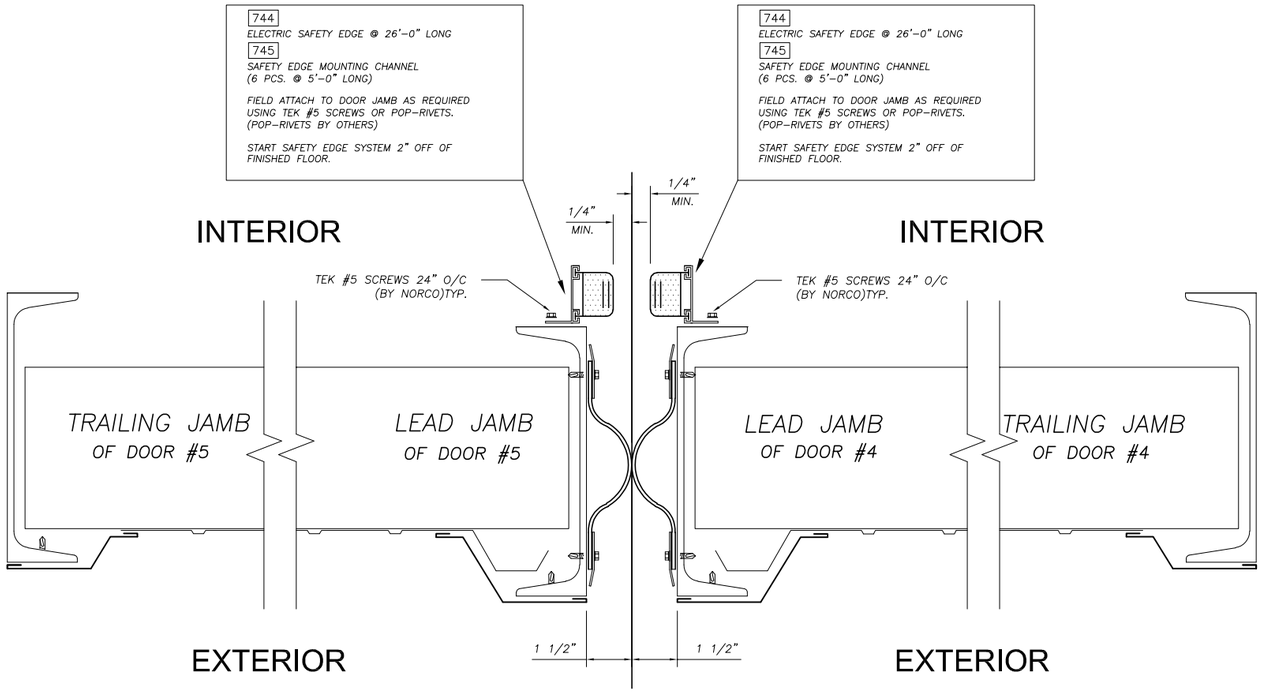


SAFETY EDGE LOCATION



SAFETY EDGE INTERIOR ELEVATION

DOOR 4 (SHOWN) & DOOR 5 (OPP. HAND)



ADJUST SAFETY EDGE SO IT DOES NOT IMPACT ANYTHING IN FULL CLOSED POSITION.

SAFETY EDGE INSTALLATION

DOORS 4 & 5

IMPORTANT!
THE ELECTRIC SAFETY IS SHIPPED, FOLDED, IN THE SHIPPING CONTAINER IS MEANT TO BE A TEMPORARY STATE TO SAVE ON SHIPPING COSTS. ELECTRIC SAFETY EDGES MUST BE STORED IN A FULLY EXTENDED POSITION ON A FLAT SURFACE. THE EDGE CAN SUFFER PERMANENT DAMAGE IF LEFT FOLDED AND VOID THE WARRANTY.

MAINTENANCE:
IT IS STRONGLY RECOMMENDED THAT THE END USER TEST THE SENSING EDGE AT LEAST ONCE PER MONTH. CHECK THE SENSING EDGE FOR LOSS OF SENSITIVITY, WATER DAMAGE OR CUTS AND PUNCTURES THAT COULD DAMAGE INTERNAL COMPONENTS. CHECK FOR SIGNS OF DAMAGE TO CABLES OR CONNECTION POINTS. WHEN THE SENSING EDGE IS COMPRESSED 1/2", ALONG ANY PORTION OF ITS LENGTH STARTING 2" FROM THE ENDS, IT WILL SEND AN ELECTRIC SIGNAL TO THE CONTROL PANEL. IF THIS DOES NOT OCCUR, CONTACT THE EQUIPMENT INSTALLER OR MILLER EDGE CUSTOMER SERVICE DEPARTMENT AT (610) 869-4422 FOR ASSISTANCE

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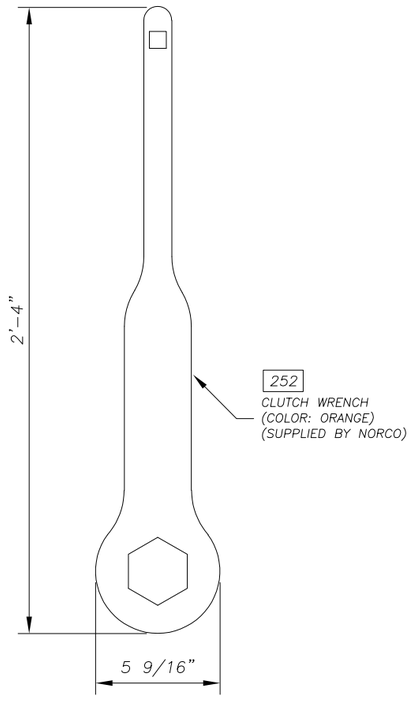
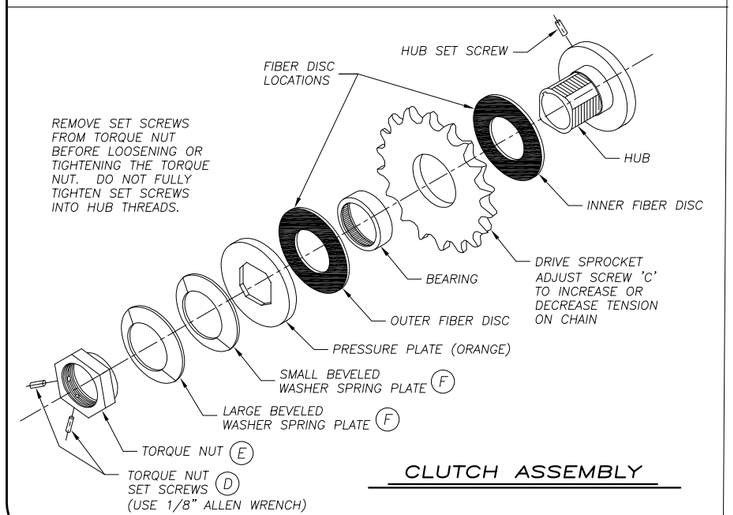
WARNING
THE SET SCREWS MUST BE REMOVED BEFORE ADJUSTING THE TORQUE NUT OR DAMAGE TO THE HUB THREADS WILL RESULT.

AFTER ADJUSTING THE TORQUE NUT, IF EITHER OF THE SET SCREW HOLES END UP OVER THE THREADED PORTION OF THE HUB, DO NOT INSTALL THE SET SCREW COMPLETELY. DAMAGE CAN RESULT TO THE HUB THREADS!
DO NOT TIGHTEN SET SCREWS INTO HUB THREADS.

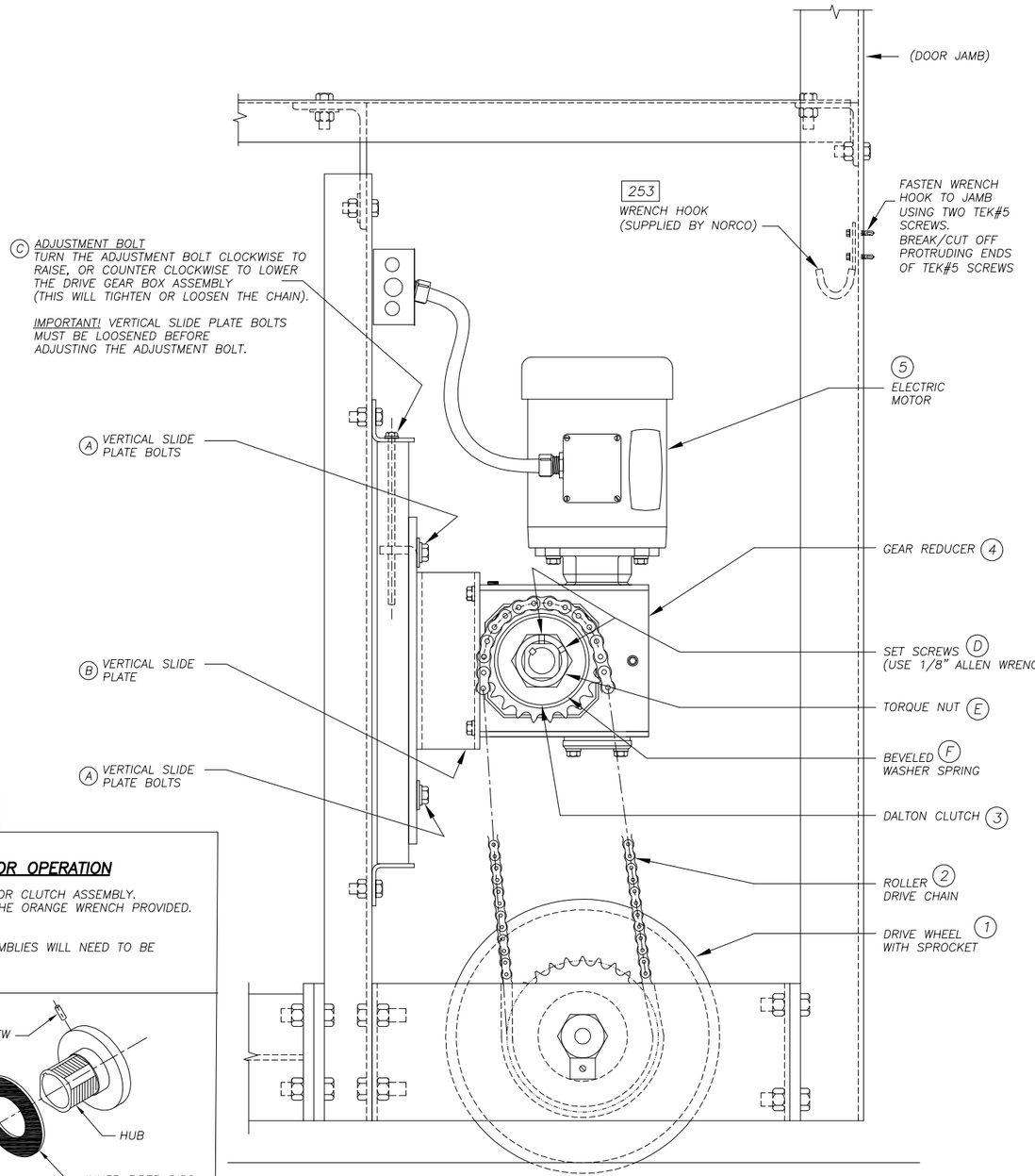


IN CASE OF POWER FAILURE OR FOR MANUAL DOOR OPERATION

1. REMOVE TWO SET SCREWS FROM TORQUE NUT ON THE OPERATOR CLUTCH ASSEMBLY.
2. LOOSEN THE TORQUE NUT ON THE CLUTCH ASSEMBLY USING THE ORANGE WRENCH PROVIDED.
3. MOVE DOOR LEAF, AS NEEDED.
4. REASSEMBLE IN REVERSE ORDER.
5. IF THE DOOR LEAF HAS DUAL OPERATORS, BOTH CLUTCH ASSEMBLIES WILL NEED TO BE LOOSENED.



CLUTCH ASSEMBLY



ELEVATION OF BUILT-IN ELECTRIC OPERATOR

* INTERIOR ELEVATION SHOWN
* RIGHT SIDE SHOWN, LEFT SIDE OPP. HAND

CLUTCH ADJUSTMENT:

STEP 1: REMOVE THE 2 SET-SCREWS ('D') LOCATED IN THE HEXAGON TORQUE NUT ('E')

STEP 2: TURN THE TORQUE NUT ('E') CLOCKWISE TO INCREASE THE TORQUE PRESSURE TO THE DRIVE SPROCKET.

STEP 3: RUN THE DOORS OPEN. IF THE DOORS STOP MOVING DURING THE OPEN CYCLE, THE TORQUE PRESSURE ON THE CLUTCH NEEDS TO BE INCREASED. REPEAT STEPS 1 & 2 UNTIL THE DOORS MOVE FULL OPEN OR FULL CLOSED WITHOUT SLIPPING.

STEP 4: ONCE THE DESIRED TORQUE IS ACHIEVED, REPLACE THE 2 SET-SCREWS INTO THE TORQUE NUT.
** DO NOT OVER TIGHTEN THESE SET-SCREWS ON THE THREADS. THIS MAY CAUSE THE THREADS TO BE DAMAGED.

FOR MANUAL DOOR OPERATION:

STEP 1: REMOVE THE 2 SET-SCREWS ('D') LOCATED IN THE HEXAGON TORQUE NUT ('E')

STEP 2: TURN THE TORQUE NUT ('E') COUNTER CLOCKWISE TO DECREASE THE TORQUE PRESSURE TO THE DRIVE SPROCKET.

STEP 3: MOVE THE DOORS OPEN.

STEP 4: ONCE THE POWER IS APPLIED, REPEAT THE "CLUTCH ADJUSTMENT" SECTION ABOVE.

IMPORTANT NOTES:

** DO NOT OVERTIGHTEN THE SET-SCREWS ON THE TORQUE NUT. THIS MAY CAUSE THE THREADS TO BE DAMAGED.

** THE CLUTCH SHOULD SLIP APPROXIMATELY 1/4 TURN BEFORE ENGAGEMENT AND DOOR MOVEMENT WHEN PROPERLY ADJUSTED.

** DO NOT COMPLETELY FLATTEN THE BEVELED WASHER SPRING ('F').

CHAIN TENSION ADJUSTMENT

STEP 1: LOOSEN THE 4 BOLTS ('A') ON THE VERTICAL SLIDE PLATE ('B')

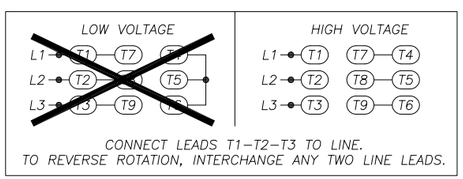
STEP 2: TURN THE ADJUSTMENT BOLT ('C') CLOCKWISE TO RAISE, OR COUNTER CLOCKWISE TO LOWER THE DRIVE GEAR BOX ASS'Y.

STEP 3: AFTER THE CHAIN TENSION HAS BEEN ADJUSTED TO 1/4" SLACK ON EACH SIDE, RETIGHTEN THE 4 BOLTS ('A')

ITEM	DESCRIPTION OF PARTS	REMARKS
1	12"ø WHEEL (FOR 25#/YD. RAIL) w/60A42 SPROCKET	
2	#60 ROLLER DRIVE CHAIN	
3	DALTON CLUTCH (Model: OSD-450D) w/ (60A23G) SPROCKET	1 1/8" BORE
4	GROVE GEAR REDUCER (BMQ 826-60-3 or 56C)	56C FRAME
5	1.5 h.p. ELECTRIC MOTOR, 1740 RPM, THREE PHASE	56C FRAME

IMPORTANT!
IF A DRIVEN DOOR CONTAINS DUAL OPERATORS, MAKE SURE THAT THE OPERATORS ARE BOTH ROTATING IN THE SAME DIRECTION AND NOT OPPOSING EACH OTHER.

SWITCH ANY TWO LINE WIRES TO REVERSE MOTOR DIRECTION (L1, L2 OR L3).



CONNECT LEADS T1-T2-T3 TO LINE.
TO REVERSE ROTATION, INTERCHANGE ANY TWO LINE LEADS.

NORCO Universal Door Systems
Franksville, WI 53126
(262)835-2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

Revisions
1 08/03/2023 BJS FOR CONSTRUCTION

Drawn: BKK
Scale: NONE
Checked: RSC
Date: 03/21/2023
Project No.: 11045
Sheet Number: 10

LIGHT/BUZZER STACK

THIS BUZZER WILL SOUND FOR 3 SECONDS BEFORE AND DURING DOOR MOVEMENT (PULSATING TONE)

THIS STROBE LIGHT WILL FLASH FOR 3 SECONDS BEFORE AND DURING DOOR MOVEMENT (PULSATING)

148B
341
343

480V–3PH–60HZ

L1 L2 L3 GND

OVERHEAD LIMIT SWITCH

WHEN IN THIS POSITION THE DOORS WILL STOP IN FULL CLOSED POSITION

WHEN IN THIS POSITION THE DOORS WILL STOP IN FULL OPEN POSITION

148
313
315

PERSONNEL DOOR SWITCH HANGAR DOORS WILL NOT OPERATE IF PLUNGER SWITCH IS NOT COMPRESSED. PERSONNEL DOOR MUST STAY CLOSED FOR THE HANGAR DOORS TO OPEN AND CLOSE.

131
138

PERSONNEL DOOR PLUNGER SWITCH (DOOR #5 ONLY)

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EMERGENCY OFF

POWER DISCONNECT SWITCH

TURNS INTERNAL CIRCUIT BREAKER OFF WHEN WORKING INSIDE PANEL

LEADING SAFETY EDGE

HMI – THIS PANEL IS USED FOR DIAGNOSTIC USE ONLY

SIMATIC HMI TOUCH

INTRINSICALLY SAFE FIELD WIRING ONLY IN THIS AREA

THIS SWITCH WILL DISABLE THE SAFETY EDGE.

IF THE SAFETY EDGE BECOMES DAMAGED, TURN THE KEY TO "OFF" TO DISABLE THE SAFETY EDGE SYSTEM UNTIL REPAIRS ARE COMPLETE.

IMPORTANT
WIRING FROM SAFETY EDGE TO CONTROL PANEL CANNOT BE ANY LARGER THAN 18GA

204
205

500ft. MAXIMUM LENGTH BELDEN CABLE 1030A RECOMMENDED

CONSTANT CONTACT PUSHBUTTON MUST BE PRESSED ALONG WITH EITHER OPEN OR CLOSE PUSHBUTTON FOR DOORS TO MOVE.

WHILE PRESSING THIS BUTTON, ALONG WITH THE "CONSTANT CONTACT" PUSHBUTTON, THE DOORS WILL CLOSE UNTIL ONE BUTTON IS RELEASED OR LIMIT SWITCH IS ACTIVATED.

WHILE PRESSING THIS BUTTON, ALONG WITH THE "CONSTANT CONTACT" PUSHBUTTON, THE DOORS WILL OPEN UNTIL ONE BUTTON IS RELEASED OR LIMIT SWITCH IS ACTIVATED.

CONSTANT CONTACT
GREEN
OPEN
YELLOW
CLOSE
GREEN

148
309
311

PUSH BUTTON STATION

ALARM STATE SEE SCREEN
RED

SAFETY EDGE
OFF ON

THE PILOT LIGHT WILL TURN ON WHEN THERE IS AN ALARM STATE OR PERSONNEL DOOR IS OPEN.

104A 105A 106A GND

NAMEPLATE
WARNING DECAL
SEE DECAL

1.5 HP MOTOR

NON–HAZARDOUS AREA

HAZARDOUS AREA

18" ABOVE FLOOR THESE ITEMS ARE ISOLATED USING A GALVANIC ISOLATOR

INTRINSICALLY SAFE EQUIPMENT/ SAFETY EDGE

INTRINSICALLY SAFE FIELD WIRING SHALL BE WIRED THROUGH ITS OWN CONDUIT. HIGH VOLTAGE WIRING MUST BE RAN SEPERATELY. SAFETY EDGE/PROXIMITY SENSOR FIELD WIRING SHOULD NOT EXCEED 500FT.

INSTALL IN ACCORDANCE WITH ARTICLE 504 OF THE NATIONAL ELECTRICAL CODE.

NORCO Universal Door Systems
Franksville, WI 53126
(262)835–2600

Customer: THE HAGERMAN GROUP
Location: FWA NEW CORPORATE HANGAR
FORT WAYNE, IN

Revisions
1 04/20/2023 BKK REV PER R&R
2 08/03/2023 BJS FOR CONSTRUCTION
3
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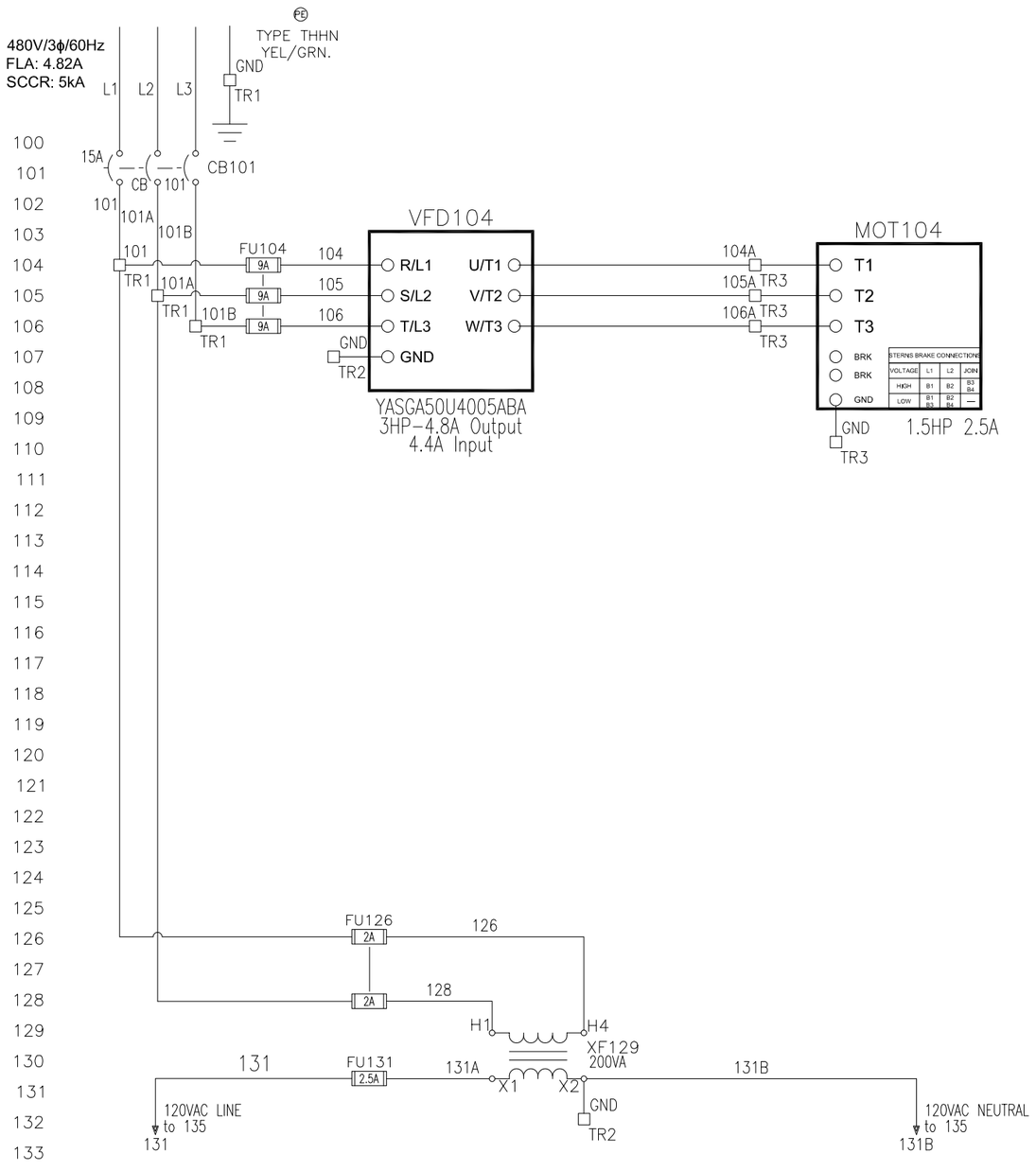
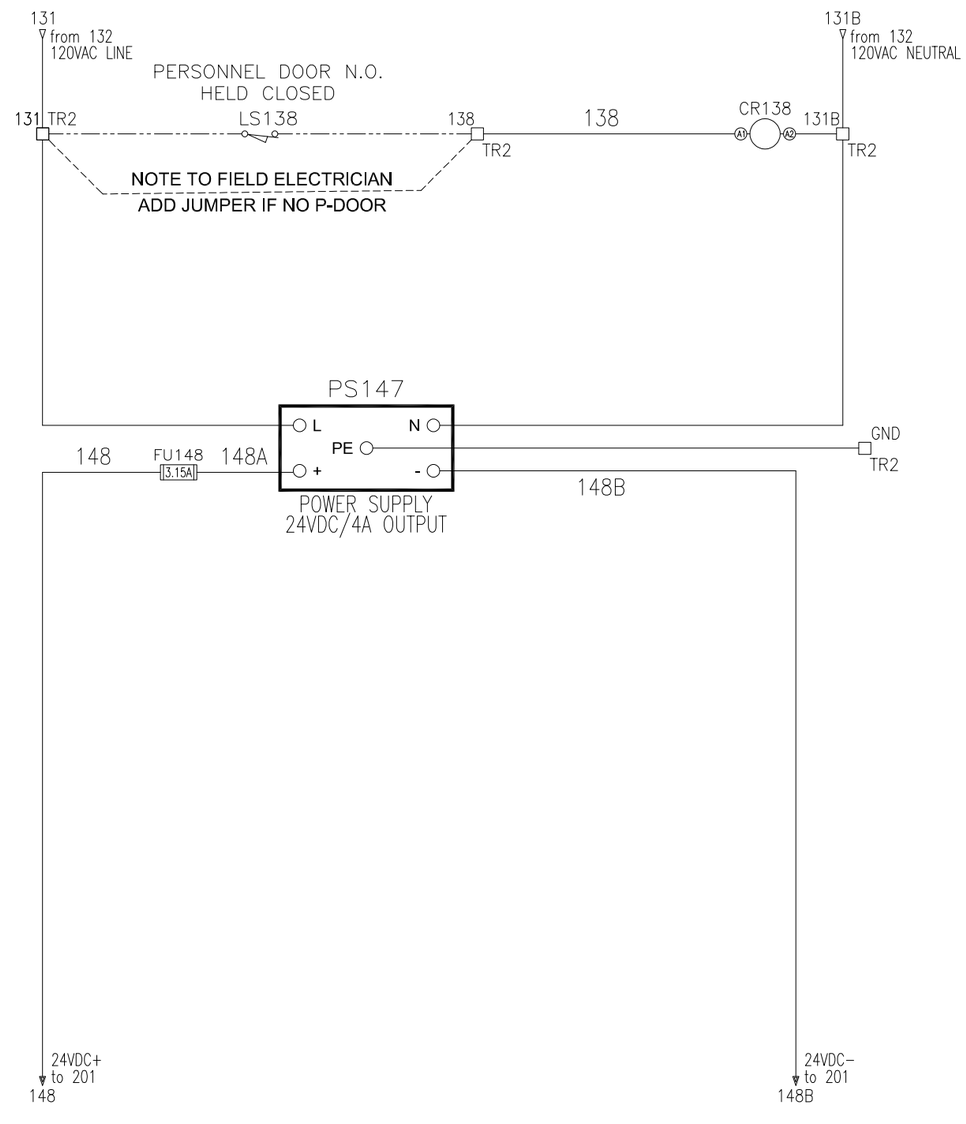
Date: 03/21/2023
Project No.: 11045
Sheet Number: 11


480V/3ϕ/60Hz
FLA: 4.82A
SCCR: 5kA
L1
L2
L3
TYPE THHN
YEL/GRN.
GND
TR1
15A
CB
101
CB101
101
101A
101B
FU104
9A
104
105
106
VFD104
R/L1
S/L2
T/L3
GND
U/T1
V/T2
W/T3
YASGA50U4005ABA
3HP-4.8A Output
4.4A Input
104A
105A
106A
TR3
MOT104
T1
T2
T3
BRK
BRK
GND
STERNS BRAKE CONNECTIONS
VOLTAGE
L1
L2
JOIN
HIGH
B1
B2
B3
B4
LOW
B1
B3
B2
B4
1.5HP 2.5A
FU126
2A
126
128
H1
H4
XF129
200VA
131
FU131
2.5A
131A
X1
X2
131B
120VAC LINE
to 135
120VAC NEUTRAL
to 135



11045-6020-0038

Universal Door Systems
Franksville, WI 53126
(262)835-2600

SCHEMATIC 11045-6020-0038
PROGRAM STD
480V/LIMIT SWITCH/SINGLE 1.5HP/P-DOOR

Revisions
1 08/02/2023 BJS FOR CONSTRUCTION
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Project No.:	11045
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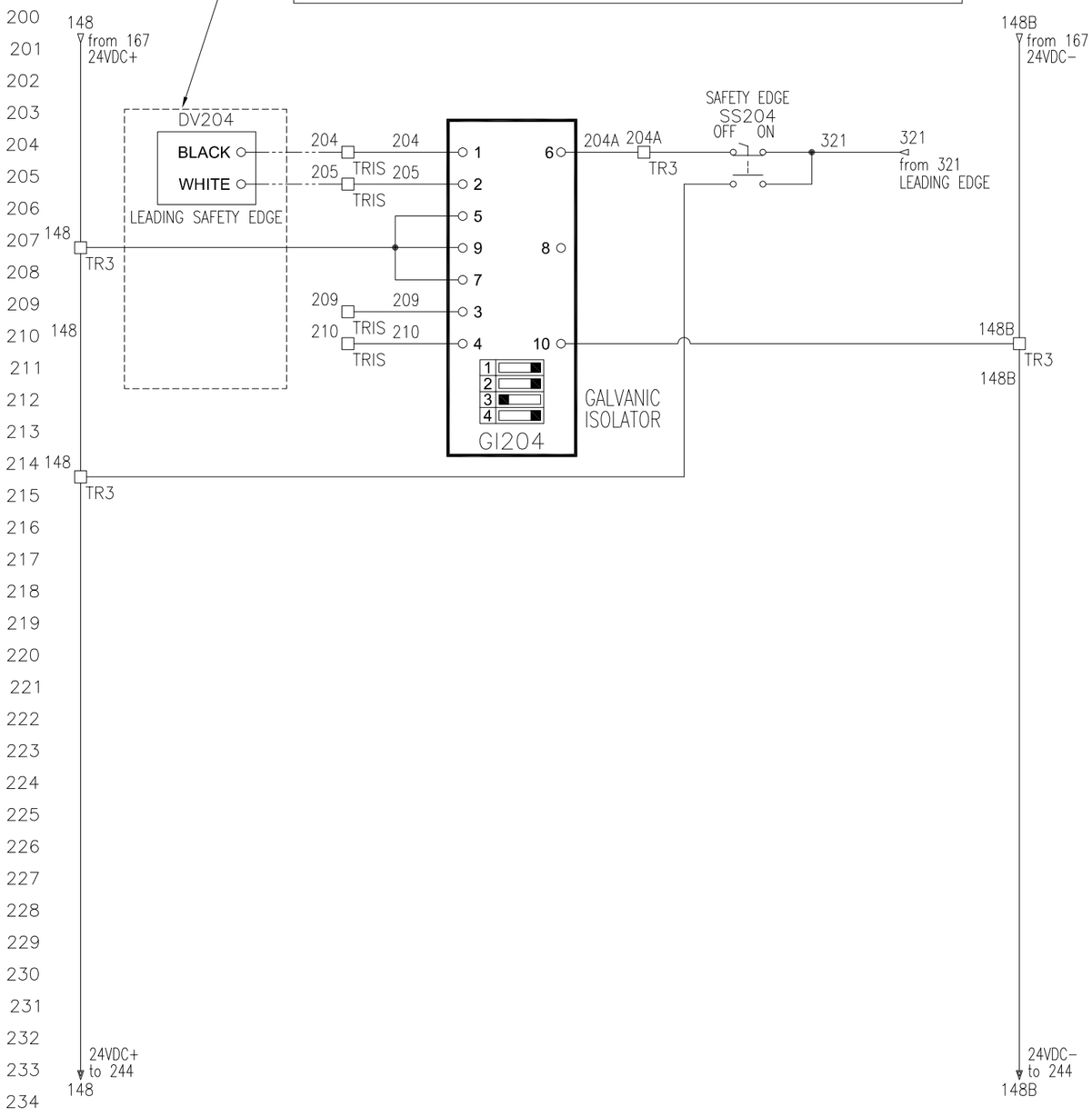
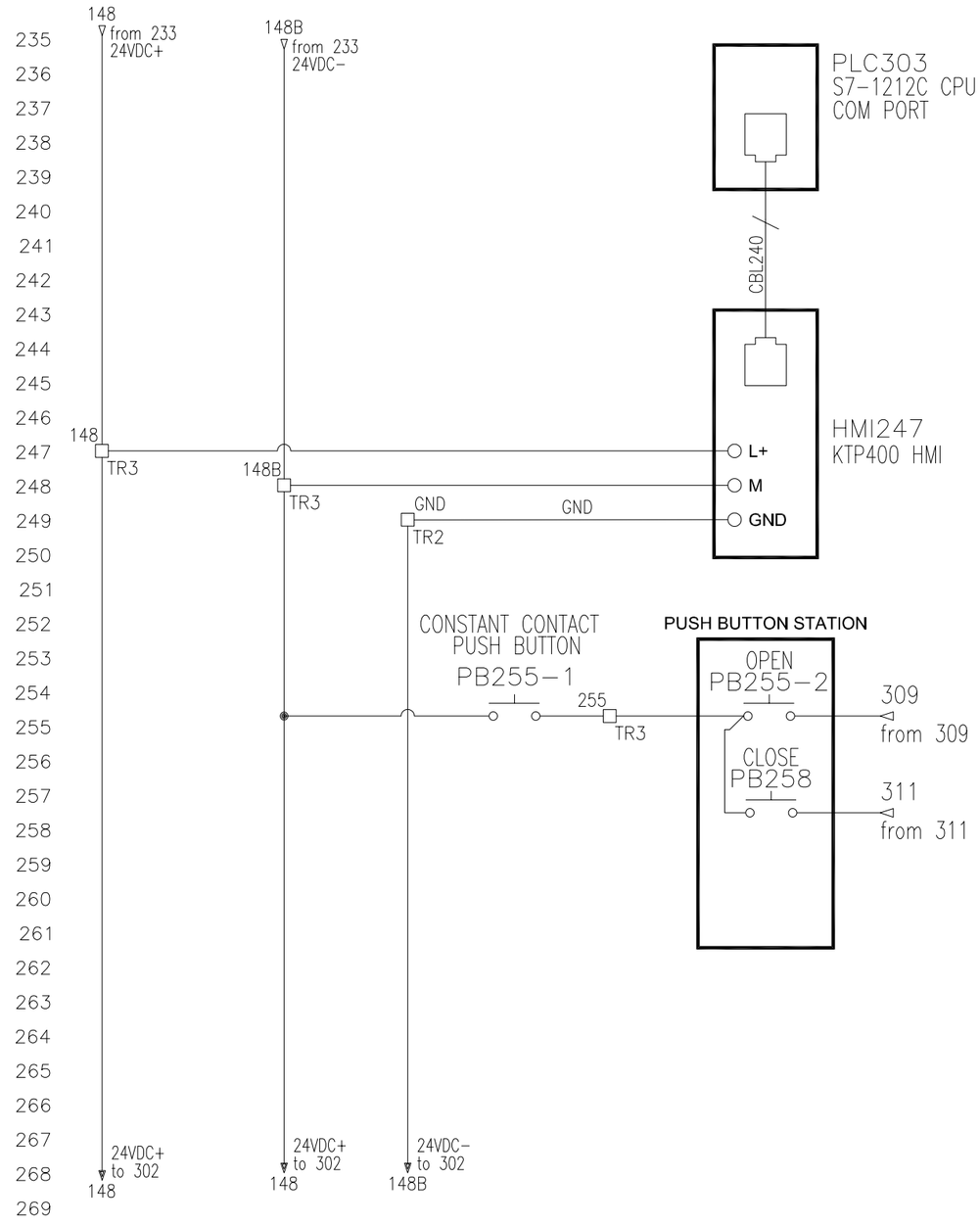
INTRINSICALLY SAFE EQUIPMENT/
SAFETY EDGE AND PROXIMITY SENSORS

INTRINSICALLY SAFE FIELD WIRING SHALL BE WIRED THROUGH ITS OWN CONDUIT.
HIGH VOLTAGE WIRING MUST BE RAN SEPERATELY.
SAFETY EDGE/PROXIMITY SENSOR FIELD WIRING SHOULD NOT EXCEED 500FT.

INSTALL IN ACCORDANCE WITH ARTICLE 504 OF
THE NATIONAL ELECTRICAL CODE.





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Franksville, WI 53126
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SCHEMATIC 11045-6020-0038
PROGRAM STD
480V/LIMIT SWITCH/SINGLE 1.5HP/P-DOOR

Revisions
1 08/02/2023 BJS FOR CONSTRUCTION

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Project No.:	11045
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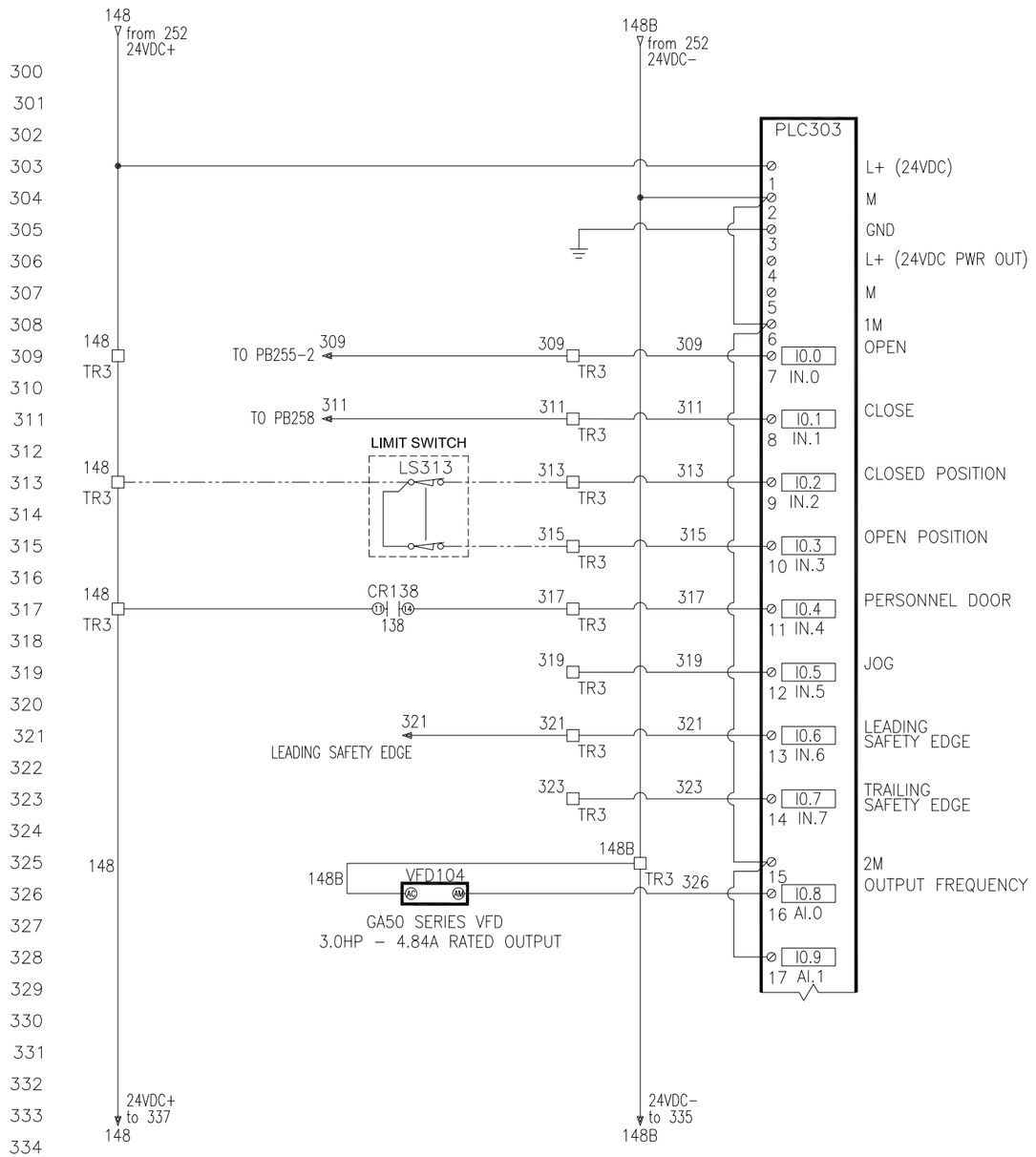

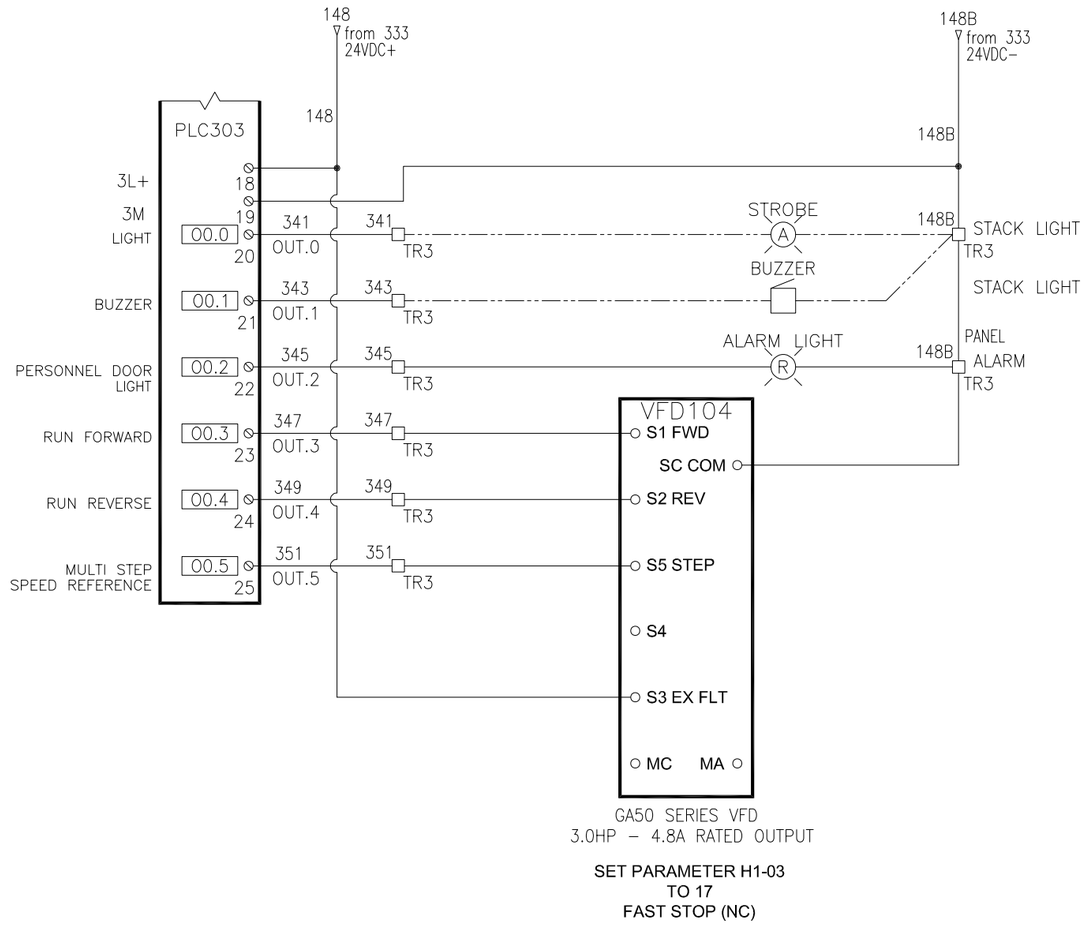

11045-6020-0038

Universal Door Systems
Franksville, WI 53126
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SCHEMATIC 11045-6020-0038
PROGRAM STD
480V/LIMIT SWITCH/SINGLE 1.5HP/P-DOOR

Revisions
1 08/02/2023 BJS FOR CONSTRUCTION
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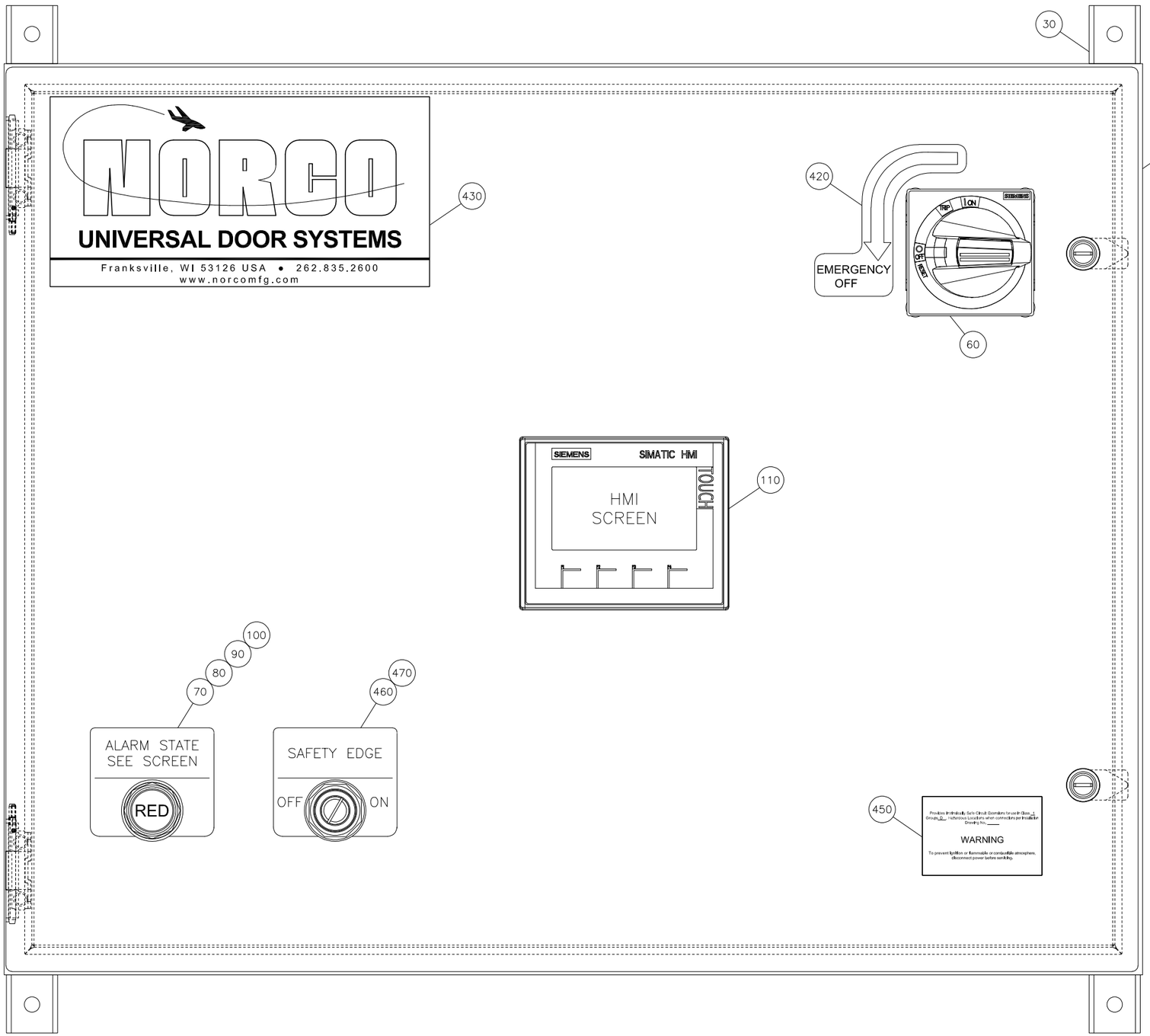

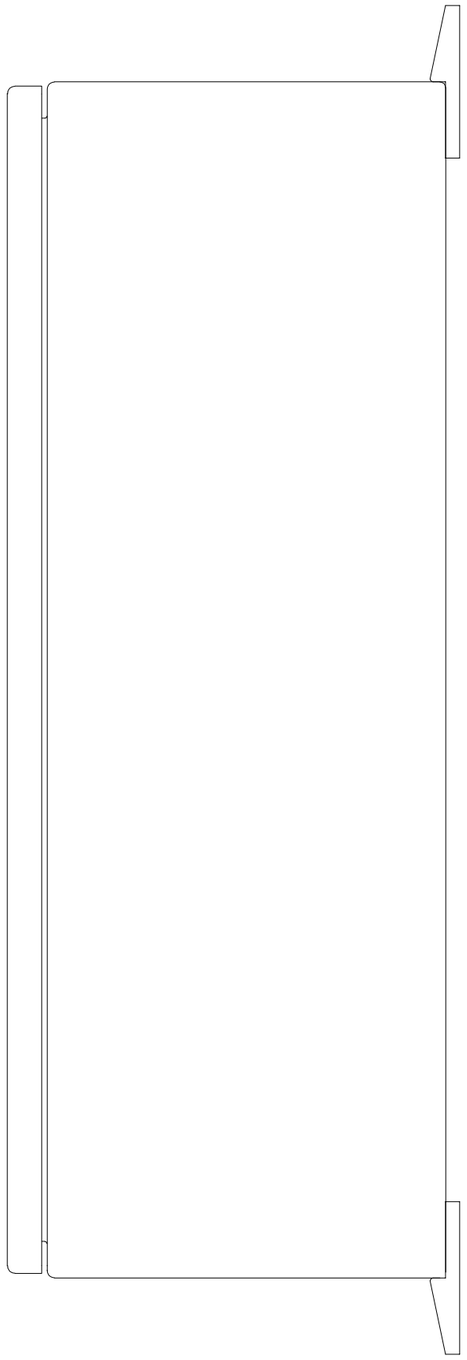

NORCO Universal Door Systems
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(262)835-2600

SCHEMATIC 11045-6020-0038
PROGRAM STD
480V/LIMIT SWITCH/SINGLE 1.5HP/P-DOOR

Revisions
1 08/02/2023 BJS FOR CONSTRUCTION

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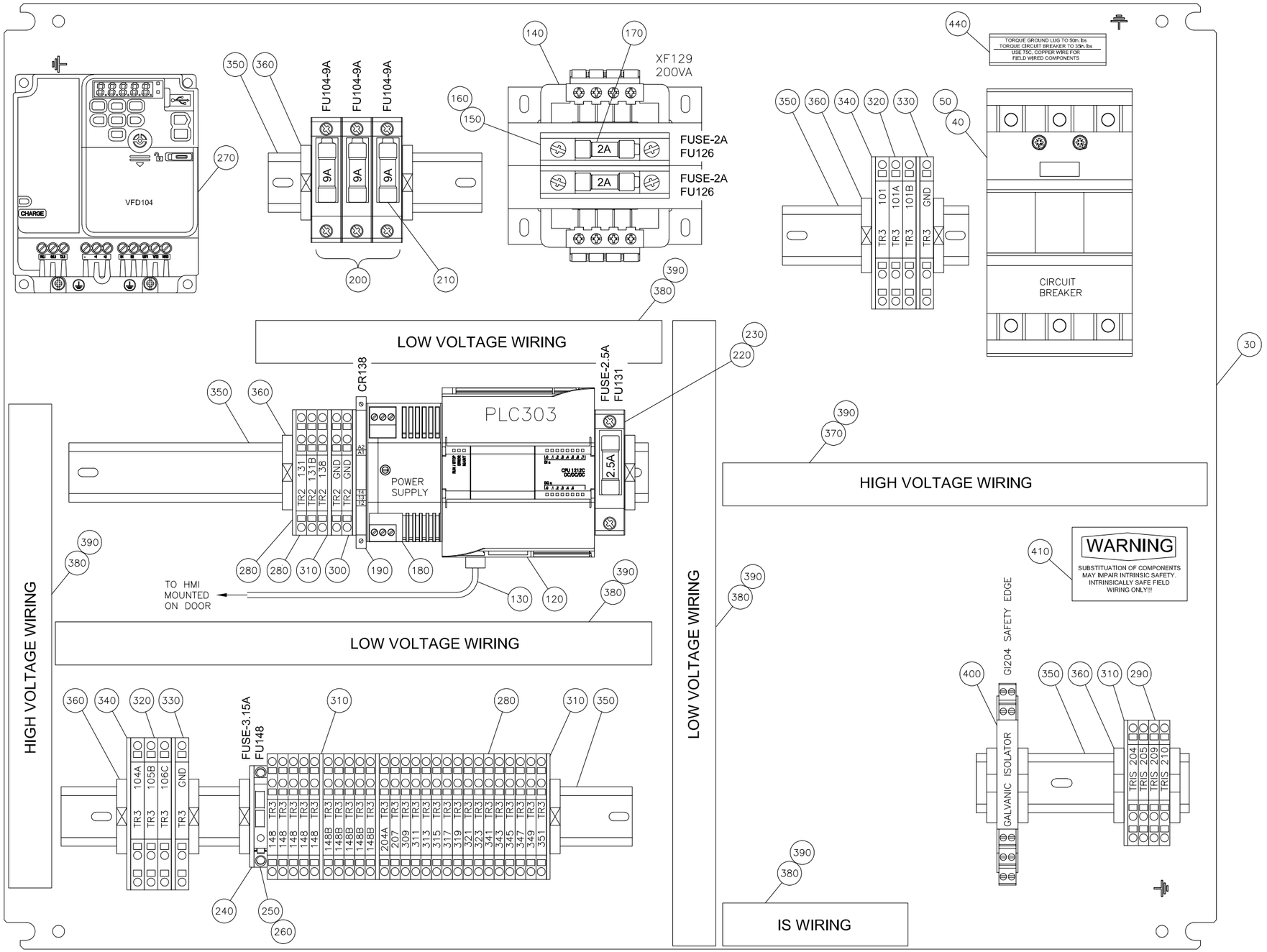
Project No.:	11045
Sheet Number:	E4

11045-6020-0038



11045-6020-0038

Universal Door Systems
Franksville, WI 53126
(262)835-2600

SCHEMATIC 11045-6020-0038
PROGRAM STD
480V/LIMIT SWITCH/SINGLE 1.5HP/P-DOOR

Revisions	
1	08/02/2023 BJS FOR CONSTRUCTION
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Mtl	Part	Description	Qty/Parent	UOM Code
10	NOR-6025-0013IP	NORCO 24x30x08 SUB-PANEL PRE DRILLED, RAL 9003 smooth, NEMA 4	1	EA
20	NOR-6025-0013	NORCO 24x30x08 ENCLOSURES FOR 3VA, RAL 7035 TEXTURED, NEMA 4	1	EA
30	EXM885-ESMF1	Exm Mounting Foot Kit Steel	1	EA
40	SIE3VA5195-4ED31-0AA0	CIRCUIT BREAKER	1	EA
50	SIE3VA9133-0JA11	CIRCUIT BREAKER LUG KIT	2	EA
60	SIE3VA9137-0FK35	CIRCUIT BREAKER - DOOR MOUNTED ROTARY YELLOW RED EMERGENCY STOP WITH DOOR INTERLOCK	1	EA
70	SIE3SU1550-0AA10-0AA0	ALARM LIGHT HOLDER FOR 3 MODULES, METAL	1	EA
80	SIE3SU1401-1BB20-1AA0	ALARM LIGHT LED Module	1	EA
90	SIE3SU1061-0JD20-0AA0	ALARM LIGHT Metal Flush Mount for LED module - with red lens	1	EA
100	SIE52NL02E-ALARM	ALARM LIGHT Legend Plate, "ALARM STATE, SEE SCREEN"	1	EA
110	SIE6AV2123-2DB03-0AX0	HMI, SIMATIC, KTP400 BASIC, BASIC PANEL, KEY AND TOUCH OPERATION	1	EA
120	SIE6ES7212-1AE40-0XB0	PLC - SIMATIC S7-1200, CPU 1212C	1	EA
130	BELA3L980-05-ORG-S	CABLE, Cat 6, UTP Patch, 5' Lg.	1	EA
140	SIEMT0200G	Transformer, 208/230/460, 50/60HZ	1	EA
150	SIEKCCFPX2R	Fuse Kit For Single Phase Control Transformer	1	EA
160	FERDFC-7	Fuse, Safety Cover	2	EA
170	FERATMR2	FUSE, Fast Acting, 2 Amp	2	EA
180	SIE6EP1332-5BA10	Power Supply	1	EA
190	SIE3RU2116-1DB1	Overload Relay for Motor Protection	2	EA
200	SIE3NW7533-0HG	Fuse Holder 3 Pole	1	EA
210	FERATDR12	Fuse, Time Delay, 12 Amp.	3	EA
220	SIE3NW7513-0HG	Fuse Holer, 1 Pole	1	EA
230	FERATMR2-1/2	Fuse, Fast Acting, 2-1/2 Amp	1	EA
240	WAG281-311	Fuse End Cover for 3.15 Amp Fuse	1	EA
250	WAG281-611	Fuse Holder for 3.15 Amp Fuse	1	EA
260	FERGSF3-15/100	Fuse, Slow Blow/Time Delay, 3.15A	1	EA
270	YASGA50U4007ABA	VFD, 3HP, 400V 3PH, Yaskawa	1	EA
280	SIE8WH2003-0AG00	Terminal Blocks, Small Gray	28	EA
290	SIE8WH2003-0AG01	Terminal Blocks, Small, Blue	4	EA
300	SIE8WH2003-0CG07	Terminal Blocks, Small, Grounding, Green-Yellow	2	EA
310	SIE8WH9003-2GA00	Terminal Block, End Cover, Small	6	EA
320	SIE8WH2003-0AH00	Terminal Blocks, Large, Gray	9	EA
330	SIE8WH2003-0CH07	Terminal Blocks, Large, Grounding, Green-Yellow	2	EA
340	SIE8WH9004-2GA00	Terminal Block, End Cover, Large	4	EA
350	SIE5ST1145	Din Rail - Slotted	35	IN
360	SIE8WH9150-0CA00	End Stop / Anchor	16	EA
370	HELSLHD1X1G4	1" x 1" High Density Wire Duct	11	IN
380	HELSLHD1X4G4	1" x 4" High Density Wire Duct	41	IN
390	HELTC1G4	Wiring Duct Cover	52	IN
400	AB937TH-DISAR-DC2AB	Galvonic Isolator, Allen Bradely	1	EA
410	NOR-WARNING	Label - Provides Intrinsically Safe Circuit Protection - Red/Black	1	EA
420	NOR-EMERGENCY OFF	Label - Circuit Breaker Disconnect Switch Emergency Off	1	EA
430	NOR-LOGO LABEL	Label - Norco Universal Door, 10" x 5"	1	EA
440	NOR-TGL	Label - Torque Ground Lug Information	1	EA
450	NOR-WARNING IS	Label - Intrinsically Safe Warning - Orange	1	EA
460	SIE52SC6AEA2	Keyed selector switch,2 position	4	EA
470	SIE52NL02E-SAFETY EDGE	Legend plate "SAFETY EDGE OVERRIDE OFF ON"	4	EA
480	SIE8WH8110-3AA05	Empty labels - Small	34	EA
490	SIE8WH8111-4AA05	Empty labels - Large	11	EA

Universal Door Systems
Franksville, WI 53126
(262)835-2600

SCHEMATIC 11045-6020-0038
PROGRAM STD
480V/LIMIT SWITCH/SINGLE 1.5HP/P-DOOR

Revisions
1 08/02/2023 BJS FOR CONSTRUCTION
2
3
4

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Date: 07/05/2023
Project No.: 11045
Sheet Number: E6

LIGHT/BUZZER STACK

THIS BUZZER WILL SOUND FOR 3 SECONDS BEFORE AND DURING DOOR MOVEMENT (PULSATING TONE)

THIS STROBE LIGHT WILL FLASH FOR 3 SECONDS BEFORE AND DURING DOOR MOVEMENT (PULSATING)

148B
341
343

480V-3PH-60HZ

L1 L2 L3 GND

OVERHEAD LIMIT SWITCH

WHEN IN THIS POSITION THE DOORS WILL STOP IN FULL CLOSED POSITION

WHEN IN THIS POSITION THE DOORS WILL STOP IN FULL OPEN POSITION

148
313
315

PERSONNEL DOOR SWITCH HANGAR DOORS WILL NOT OPERATE IF PLUNGER SWITCH IS NOT COMPRESSED. PERSONNEL DOOR MUST STAY CLOSED FOR THE HANGAR DOORS TO OPEN AND CLOSE.

131
138

PERSONNEL DOOR PLUNGER SWITCH (DOOR #5 ONLY)

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EMERGENCY OFF

POWER DISCONNECT SWITCH

TURNS INTERNAL CIRCUIT BREAKER OFF WHEN WORKING INSIDE PANEL

LEADING SAFETY EDGE

HMI - THIS PANEL IS USED FOR DIAGNOSTIC USE ONLY

SIEMENS SIMATIC HMI

INTRINSICALLY SAFE FIELD WIRING ONLY IN THIS AREA

CONSTANT CONTACT PUSHBUTTON MUST BE PRESSED ALONG WITH EITHER OPEN OR CLOSE PUSHBUTTON FOR DOORS TO MOVE.

WHILE PRESSING THIS BUTTON, ALONG WITH THE "CONSTANT CONTACT" PUSHBUTTON, THE DOORS WILL CLOSE UNTIL ONE BUTTON IS RELEASED OR LIMIT SWITCH IS ACTIVATED.

WHILE PRESSING THIS BUTTON, ALONG WITH THE "CONSTANT CONTACT" PUSHBUTTON, THE DOORS WILL OPEN UNTIL ONE BUTTON IS RELEASED OR LIMIT SWITCH IS ACTIVATED.

CONSTANT CONTACT
GREEN
OPEN
YELLOW
CLOSE
GREEN

148
309
311

PUSH BUTTON STATION

THIS SWITCH WILL DISABLE THE SAFETY EDGE.

IF THE SAFETY EDGE BECOMES DAMAGED, TURN THE KEY TO "OFF" TO DISABLE THE SAFETY EDGE SYSTEM UNTIL REPAIRS ARE COMPLETE.

ALARM STATE SEE SCREEN
RED

SAFETY EDGE
OFF ON

THE PILOT LIGHT WILL TURN ON WHEN THERE IS AN ALARM STATE OR PERSONNEL DOOR IS OPEN.

WARNING

IMPORTANT
WIRING FROM SAFETY EDGE TO CONTROL PANEL CANNOT BE ANY LARGER THAN 18GA

204
205

500ft. MAXIMUM LENGTH
BELDEN CABLE
1030A RECOMMENDED

INTRINSICALLY SAFE EQUIPMENT/ SAFETY EDGE

INTRINSICALLY SAFE FIELD WIRING SHALL BE WIRED THROUGH ITS OWN CONDUIT.
HIGH VOLTAGE WIRING MUST BE RAN SEPERATELY.
SAFETY EDGE/PROXIMITY SENSOR FIELD WIRING SHOULD NOT EXCEED 500FT.

INSTALL IN ACCORDANCE WITH ARTICLE 504 OF THE NATIONAL ELECTRICAL CODE.

104A
105A
106A
GND

NAMEPLATE
WARNING LOCAL
SEE LOCAL

1.5 HP MOTOR

NON-HAZARDOUS AREA

HAZARDOUS AREA

18" ABOVE FLOOR THESE ITEMS ARE ISOLATED USING A GALVANIC ISOLATOR

IMPORTANT!
IF A DRIVEN DOOR CONTAINS DUAL OPERATORS, MAKE SURE THAT THE OPERATORS ARE BOTH ROTATING IN THE SAME DIRECTION AND NOT OPPOSING EACH OTHER.

SWITCH ANY TWO LINE WIRES TO REVERSE MOTOR DIRECTION (L1, L2 OR L3).

LOW VOLTAGE	HIGH VOLTAGE
L1 – T1 T7 T4	L1 – T1 T7 T4
L2 – T2 T8 T5	L2 – T2 T8 T5
L3 – T3 T9 T6	L3 – T3 T9 T6

CONNECT LEADS T1-T2-T3 TO LINE.
TO REVERSE ROTATION, INTERCHANGE ANY TWO LINE LEADS.

11045-6020-0038

NORCO Universal Door Systems
Franksville, WI 53126
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SCHEMATIC 11045-6020-0038
PROGRAM STD
480V/LIMIT SWITCH/SINGLE 1.5HP/P-DOOR

Revisions

1	08/02/2023 BJS FOR CONSTRUCTION

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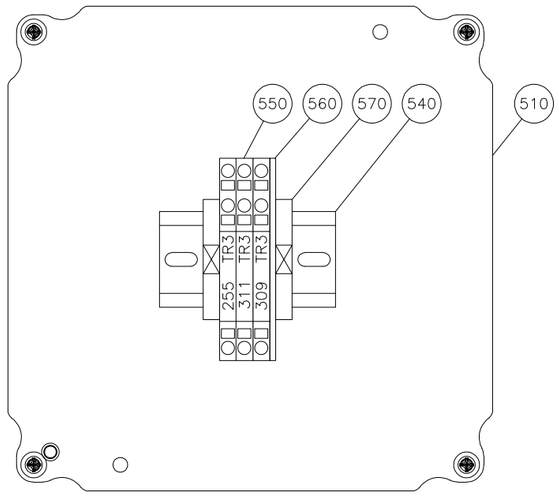
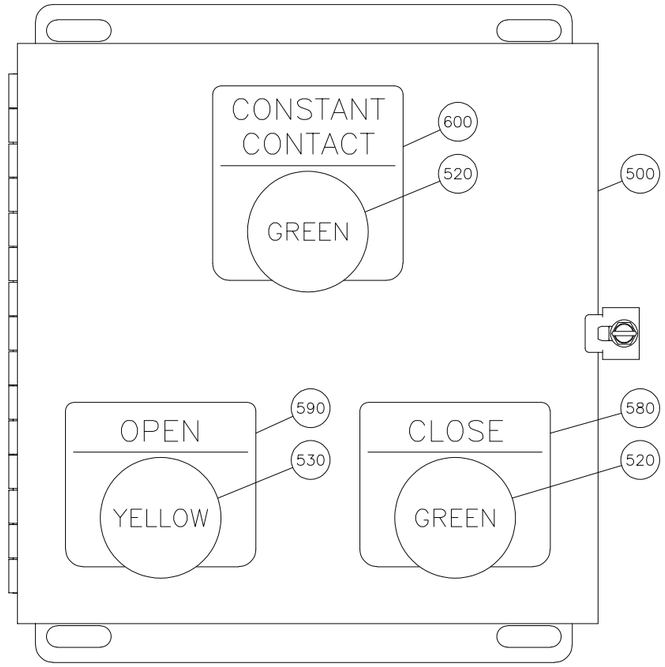
Sheet Number: E7





PUSH BUTTON STATION

REF.	DESCRIPTION – EXTERIOR COMPONENTS	PART NUMBER	QTY
500.	ELECTRICAL ENCLOSURE, 8"x8"x6"	SCE–8086CHNF	1
510.	ELECTRICAL PANEL, 7" x 7"	SCE–8P8	1
520.	PUSH BUTTON, GREEN	SIE52BM9W3K	2
530.	PUSH BUTTON, YELLOW	SIE52BM9W4K	1
540.	DIN RAIL	SIE5ST1145	3"
550.	TERMINAL BLOCKS, SMALL, GRAY	SIE8WH2003–0AG00	3
560.	END COVER, SMALL	SIE8WH9003–2GA00	1
570.	END STOP / ANCHOR	SIE8WH9150–0CA00	2
580.	LEGEND PLATE "CLOSE"	SIE52NL17	1
590.	LEGEND PLATE "OPEN"	SIE52NL18	1
600.	LEGEND PLATE "CONSTANT CONTACT"	?	1

11045-6020-0038

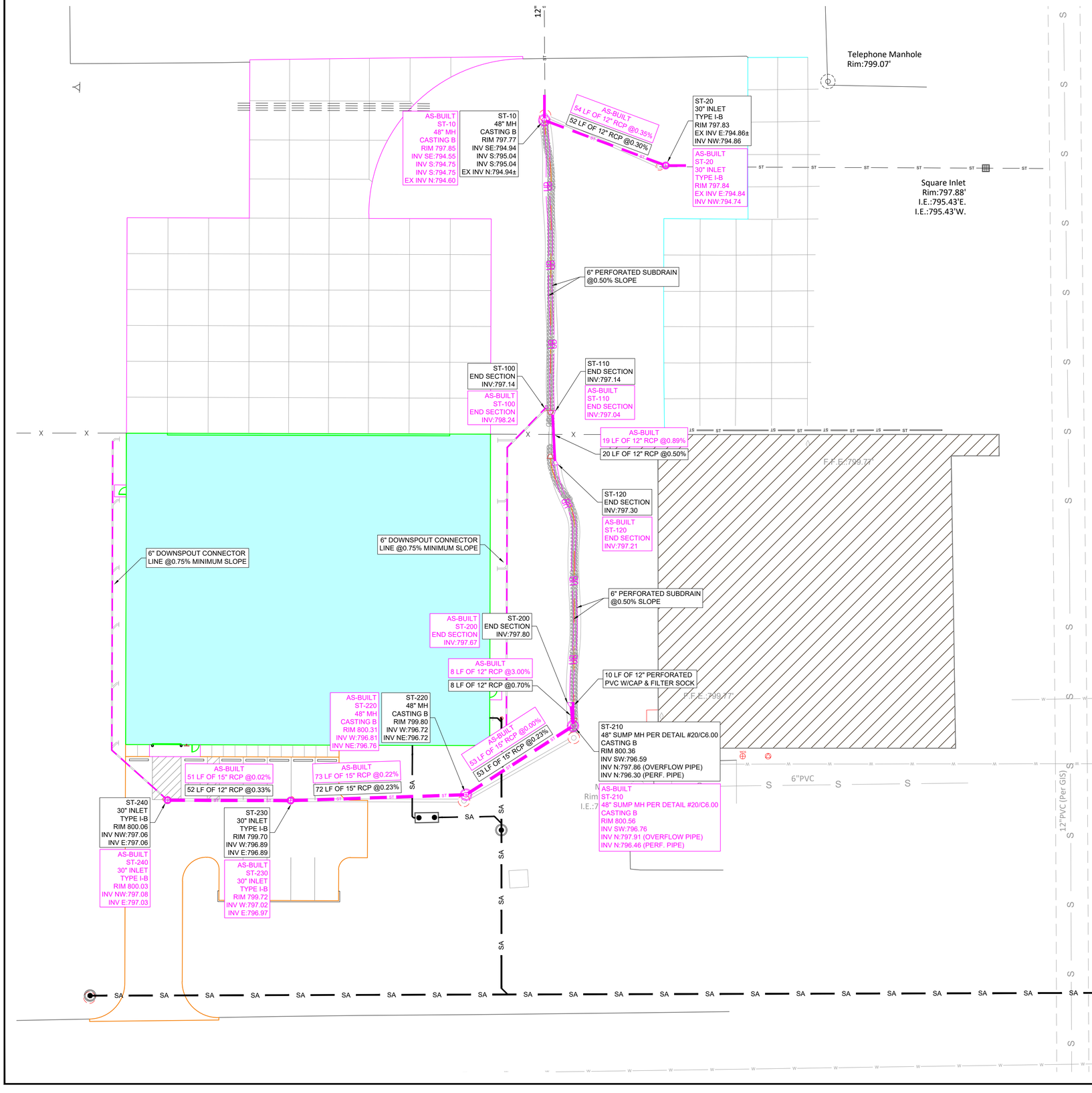
Universal Door Systems
Franksville, WI 53126
(262)835–2600

SCHEMATIC 11045–6020–0038
PROGRAM STD
480V/LIMIT SWITCH/SINGLE 1.5HP/P–DOOR

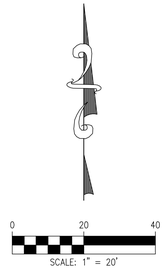
Revisions

1	08/02/2023 BJS FOR CONSTRUCTION

Drawn: BJS
Scale: NONE
Checked: RSC
Date: 07/05/2023
Project No.: 11045
Sheet Number: E8



Vicinity Map (n.t.s.)



Symbols & Lines Legend

- POWER POLE
- LIGHT POLE
- PARKING LIGHT POLE
- GUY ANCHOR
- ELECTRIC METER
- ELECTRIC TRANSFORMER
- ELECTRIC PEDESTAL
- LANDSCAPE LIGHT
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- GAS METER
- GAS VALVE
- TELEPHONE PEDESTAL
- TELEPHONE VAULT
- AIR CONDITIONING UNIT
- BOLLARD
- MAIL BOX
- PAPER BOX
- CLEAN-OUT
- SANITARY MANHOLE
- CONTROL MANHOLE
- SEPTIC INSPECTION PORT
- SEPTIC LID
- SEPTIC VENT PIPE
- DOSING TANK
- DISTRIBUTION BOX
- LIFT STATION
- GRINDER PUMP
- MONITORING WELL
- WELL
- SOIL BORING
- DOWNSPOUT
- ROUND INLET
- SQUARE INLET
- CURB INLET
- SIGN (AS NOTED)
- RIGHT-OF-WAY MONUMENT
- FLAG POLE
- HANDICAP PARKING
- CONTROL POINT
- BENCHMARK
- EVERGREEN SHRUB
- DECIDUOUS SHRUB
- EVERGREEN TREE
- DECIDUOUS TREE
- 000.0 EXISTING ELEVATION
- ASPHALT AREA
- CONCRETE AREA
- STONE AREA

Existing Lines

- W WATER LINE
- T TELEPHONE LINE
- ST STORM LINE
- SS SANITARY LINE
- G GAS LINE
- FIB FIBER OPTIC LINE
- E ELECTRIC LINE
- FM FORCE MAIN
- EXISTING CONTOUR
- WIRE FENCE
- TREE LINE
- OH EXISTING OVERHEAD LINE

"This drawing is not intended to be represented as a retracement or original boundary survey, a route survey, or a Surveyor Location Report."

AARON J. CARL REGISTERED No. 11400759 STATE OF INDIANA PROFESSIONAL ENGINEER

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By:	Remarks	No.	Date:

Storm Sewer As-Builts

FWA New Corporate Hangar
11408 West Perimeter Road
Fort Wayne, IN 46809

Attn: Lee Einenhiser
Allen County Airport Authority
510 West Washington Boulevard
Fort Wayne, IN 46802

Date: 10-13-2023

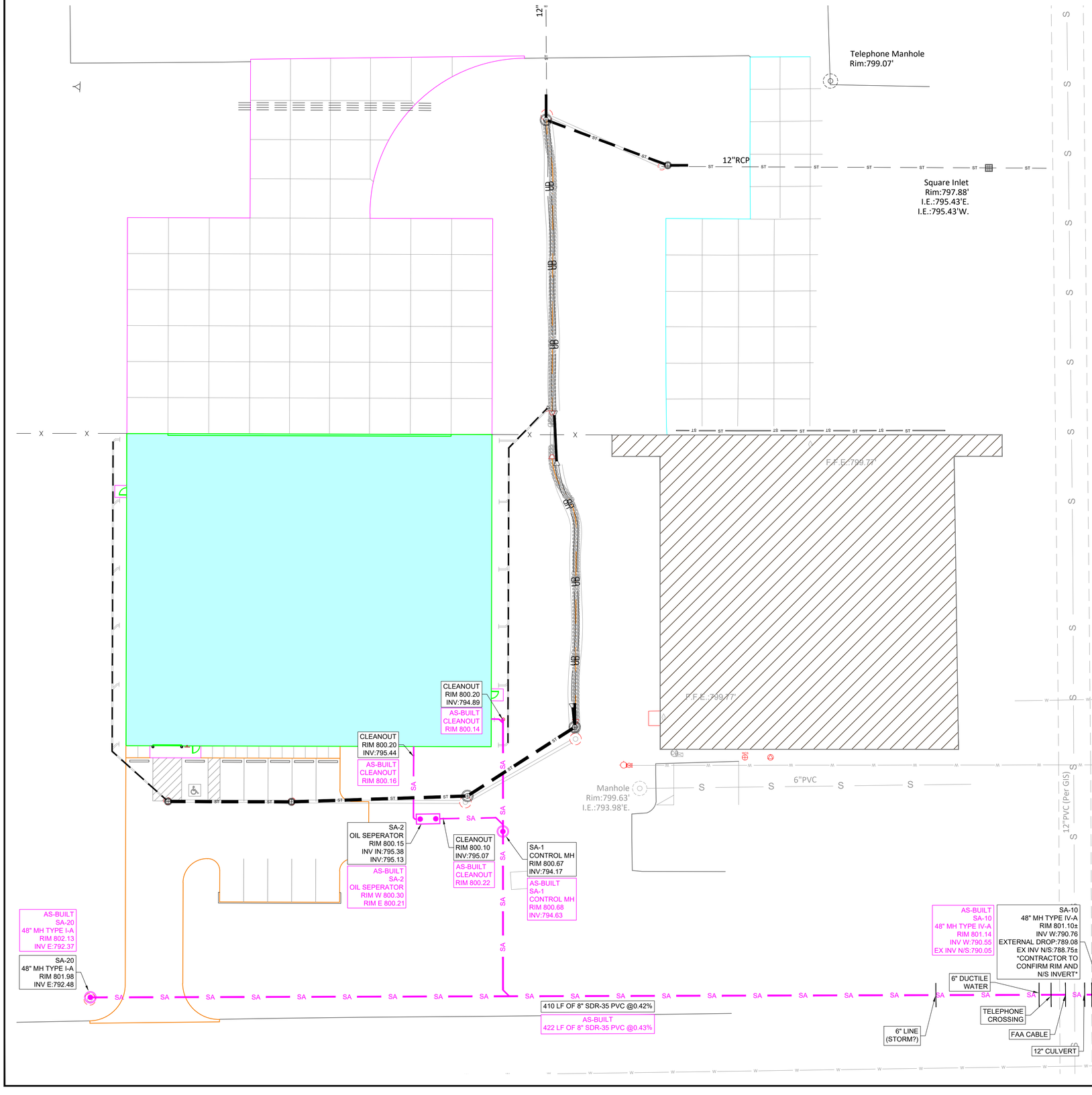
Drawn By: ZJE

Checked By: AJC

Job No.: 23057

Scale: as shown

Sheet No.: 1 of 1



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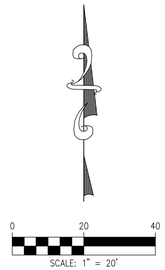

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PARKING LIGHT POLE	CONTROL MANHOLE	CONTROL POINT
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ELECTRIC PEDESTAL	DOSING TANK	
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Sheet No.:	1 of 1