ADDENDUM NO. 1

February 3, 2026

Perry Township Schools:
Southport High School Addition & Renovation Phase 1 (Activity Center Addition & Wrestling/Center Plant Renovation)
971 E. Banta Road
Indianapolis, IN 46227

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated January 6, 2026, by Lancer Associates Architecture. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-3, Specification 00 02 00b - Indiana NTB CMc1, Specification Section 00 70 00 – AIA 201-2017 - General Conditions, Specification Section 00 82 00b AIA 133-2019 Exhibit B – Insurance and Bonds, Specification Section 01 32 00 – Guideline Schedule, and attached Lancer Associates Architecture Addendum 1 dated January 30, 2026, consisting of Specification Sections: 02 46 00, 08 91 00, 27 15 43, 33 05 00, 33 31 00. Addendum Drawings: C000, S001, SD101Q, S100, S101R, S110, S201, S300, S400, S410, S501, S512, S541, S542.S544 A101Q, A101R, A121Q, A121R, A314, A402, A403, A502, A611, A721Q, A755 P-301, P-601, P-903, PP101, PP102, PR101 MH102, MR101, M-501, M-601, M-701, M-702 E-601, E-602, E-701, EF101, EF102, EF103, EL102, EL103, EP102, EP103, EP104 ,ER101, ES101 T101, T101Q, T101R, T201Q, T201R, T304, T407, T409, T410, and C-0.0, C-3.2, C-4.2, C-5.2, C-5.7, C-6.2, C-7.2, C-8.2, C-9.2, and C-9.3.

A. SPECIFICATION SECTION 00 02 00 – NOTICE TO QUALIFIED BIDDERS

1. Replace Sheet – Change of Bid Opening Location
   Perry Township Academic Center
   2115 E. Southport Road
   Indianapolis, IN 46227

B. SPECIFICATION SECTION 00 70 00c – GENERAL CONDITIONS

1. Insert the included AIA 201-2017 Owner General Conditions.

C. SPECIFICATION SECTION 00 82 00b – AIA 133-2019 EXHIBIT B – INSURANCE AND BONDS

1. Insert the included AIA 133-2019 Exhibit B Insurance and Bonds.

D. SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY

1. Paragraph 3.03 Bid Categories

A. **Bid Category No. 1 – Site Demo, Earthwork & Utilities**

Add the following Specification Sections:

33 05 00 Common Work Results for Utilities
33 31 00 Sanitary Sewers

Replace Clarification No. 6 with the following:

6. Provide all site water utilities to the first flange above finish floor or minimum 12".

Add the following Clarification:

14. Responsible for providing all site sanitary piping to 5' within the building exterior wall. Coordinate access including a stub up if required with the Bid Category No. 15 Mechanical and Plumbing Contractor.

B. **Bid Category No. 2 – General Trades**

Add the following Specification Sections:

02 46 00 Helical Piles
08 91 00 Louvers

Remove the following Specification Section:

06 16 43 Gypsum Sheathing

Add the following Clarifications:

14. Include within the submitted bid a 10'x10'x6" deep concrete pad with 6" turn down edges. Include #5 Bar 12" oc each way. This is to be on 6" stone base. Include providing and install of Gi11 Discus/Shotput aluminum circle with 2" angle profile.
15. In regard to Note A on Sheet SD101Q, include 80 mh of a skilled demo laborer for removing brick as required for steel install.

G. Bid Category No. 7 – Roofing

Remove the following Specification Section:

06 16 43 Gypsum Sheathing

Add the following Clarification:

4. Include cold weather adhesive and any necessary measures for winter roofing. Reference the included Guideline Schedule.

I. Bid Category No. 9 – Metal Studs, Drywall & Ceilings

Remove the following Specification Section:

07 42 15 Metal Siding System

Add the following Clarification:

10. Responsible for all gypsum sheathing. This includes the interior side of the parapet wall.

O. Bid Category No. 16 – Electrical and Technology

Add the following Clarification:

5. AES contact is Jeffery Bonds-Johnson. Jeffery.bonds@aes.com.

E. SPECIFICATION SECTION 01 32 00 – SCHEDULES AND REPORTS

Replace 01 32 00a Schedule and Reports – Date Correction.

Insert the included Guideline Schedule.

SECTION 00 02 00 - NOTICE TO PRE-QUALIFIED BIDDERS

NOTICE TO PRE-QUALIFIED TIER 1 BIDDERS

Notice is hereby given that sealed bids will be received for a Public CMc Project under IC 5-32:

By: The Skillman Corporation

For: Perry Township Schools - Southport High School
Addition & Renovation Phase 1 (Activity Center Addition & Wrestling/Center Plant Renovation)

At: *Perry Township Academic Center*
2115 E Southport Road
Indianapolis, IN 46227

Until: February 19, 2026 at 2:00 PM (local time)

Bid Opening: Bids will be publicly opened and read aloud at 2:00 PM (local time) at Perry Township Schools, 6548 Orinoco Ave, Indianapolis IN 46227

All work for the complete construction of the Project will be under one or more sub-contracts with the Construction Manager based on bids received from pre-qualified tier 1 bidders and on combinations awarded. Award of contracts will be in accordance with Indiana Public Bidding Laws. The Construction Manager will not self-perform any of the work on this project.

Construction shall be in full accordance with the Bidding Documents which are on file with the Owner and Construction Manager and may be examined by prospective bidders at the following locations:

Office of the Construction Manager
The Skillman Corporation
3834 S. Emerson Avenue, Building A
Indianapolis, IN 46203

The Skillman Plan Room
www.skillmanplanroom.com

Office of the Owner
Perry Township Schools
6548 Orinoco Ave.
Indianapolis, IN 46227

Pre-Qualified Bidders, sub-subcontractors and material suppliers must place an order on **www.skillmanplanroom.com** to be able to download documents electronically or request printed documents. There is no cost for downloading the bidding documents. Bidders desiring printed documents shall pay for the cost of printing, shipping and handling. Reprographic Services are provided by:

Eastern Engineering 9901 Allisonville Road, Fishers, IN 46038, Phone 317-598-0661.

A Pre-Bid Conference will be held on January 29, 2026, 3:00 PM local time, at Southport High School, 971 E. Banta Road, Indianapolis, IN 46227. Check in will be required after entering building. Attendance by bidders is optional, but recommended, to clarify or answer questions concerning the Drawings and Project Manual for the Project.

Bid security in the amount of ten percent (10%) of the Bid must accompany each Bid in accordance with the Instructions to Bidders.

The successful Bidders will be required to furnish Dual Obligee Performance and Payment Bonds for one hundred percent (100%) of their Contract amount prior to execution of Contracts.

Subcontractors submitting bids for the performance of Work as specified in this building Project should make such Bids to **The Skillman Corporation.** Contractors shall enter into a sub-contract with The Skillman Corporation as the Construction Manager CMc for the Owner.

The Owner and the Construction Manager reserve their rights to accept or reject any Bid (or combination of Bids) and to waive any irregularities in bidding. All Bids may be held for a period not to exceed **60** days before awarding contracts.

THE SKILLMAN CORPORATION

END OF SECTION 00 02 00

AIA® Document A201® – 2017

General Conditions of the Contract for Construction

for the following PROJECT:
(Name and location or address)

2025+ School Facilities Transformation Projects

THE OWNER:
(Name, legal status and address)

Perry Township Schools, Marion County, Indiana
6548 Orinoco Avenue
Indianapolis, Indiana 46227

THE ARCHITECT:
(Name, legal status and address)

Lancer Associates, Inc.
145 North East Street
Indianapolis, Indiana 46204

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

For guidance in modifying this document to include supplementary conditions, see AIA Document A503™, Guide for Supplementary Conditions.

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ARTICLE 1 GENERAL PROVISIONS

§ 1.1 Basic Definitions

§ 1.1.1 The Contract Documents

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive, or (4) a written order for a minor change in the Work issued by the Architect. The Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding or proposal requirements.

§ 1.1.2 The Contract

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants, or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 The Work

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 The Project

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by Separate Contractors.

§ 1.1.5 The Drawings

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.

§ 1.1.6 The Specifications

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 Instruments of Service

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 1.1.8 Initial Decision Maker

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2. The Initial Decision Maker shall not show partiality to the Owner or Contractor.

§ 1.2 Correlation and Intent of the Contract Documents

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results. To the extent that an inconsistency within a Contract Document or between the Contract Documents cannot be resolved by reference to the preceding sentence, the document or documents in question shall be construed to require the greater quantity, higher quality, and/or sooner completion of the Work or relevant portions thereof.

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§ 1.2.1.1 The invalidity of any provision of the Contract Documents shall not invalidate the Contract or its remaining provisions. If it is determined that any provision of the Contract Documents violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Contract Documents shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Contract.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 Capitalization

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles, or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 Interpretation

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 Ownership and Use of Drawings, Specifications, and Other Instruments of Service

§ 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and retain all common law, statutory, and other reserved rights in their Instruments of Service, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors, and suppliers are authorized to use and reproduce the Instruments of Service provided to them, subject to any protocols established pursuant to Sections 1.7 and 1.8, solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and suppliers may not use the Instruments of Service on other projects or for additions to the Project outside the scope of the Work without the specific written consent of the Owner, Architect, and the Architect's consultants.

§ 1.6 Notice

§ 1.6.1 Except as otherwise provided in Section 1.6.2, where the Contract Documents require one party to notify or give notice to the other party, such notice shall be provided in writing to the designated representative of the party to whom the notice is addressed and shall be deemed to have been duly served if delivered in person, by mail, by courier, or by electronic transmission if a method for electronic transmission is set forth in the Agreement.

§ 1.6.2 Notice of Claims as provided in Section 15.1.3 shall be provided in writing and shall be deemed to have been duly served only if delivered to the designated representative of the party to whom the notice is addressed by certified or registered mail, or by courier providing proof of delivery.

§ 1.7 Digital Data Use and Transmission

The parties shall agree upon protocols governing the transmission and use of Instruments of Service or any other information or documentation in digital form.

§ 1.8 Building Information Models Use and Reliance

Any use of, or reliance on, all or a portion of a building information model without agreement to protocols governing the use of, and reliance on, the information contained in the model shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

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ARTICLE 2 OWNER

§ 2.1 General

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 2.1.2 Pursuant to Indiana Law, no mechanic's lien may be recorded against the Project or the Owner.

§ 2.1.3 Notwithstanding anything to the contrary in the Agreement or in any document, attachment, plan, specification, or other instrument executed in connection herewith, under no circumstances shall any member, manager, shareholder, officer, director, partner, parent, affiliate, employee or agent of Owner other than Owner have any liability of any kind or nature under the Agreement, and in no event shall Contractor bring claims against or seek to hold any person or entity other than Owner liable for the satisfaction of any obligations owed or that may come to be owed under the terms of the Contract.

§ 2.2 Evidence of the Owner's Financial Arrangements

§ 2.2.1 Prior to commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. The Contractor shall have no obligation to commence the Work until the Owner provides such evidence. If commencement of the Work is delayed under this Section 2.2.1, the Contract Time shall be extended appropriately.

§ 2.2.2 After the Owner furnishes evidence of financial arrangements under this Section 2.2, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.3 Where the Owner has designated information furnished under this Section 2.2 as "confidential," the Contractor shall keep the information confidential and shall not disclose it to any other person. However, the Contractor may disclose "confidential" information, after seven (7) days' notice to the Owner, where disclosure is required by law, including a subpoena or other form of compulsory legal process issued by a court or governmental entity, or by court or arbitrator(s) order. The Contractor may also disclose "confidential" information to its employees, consultants, sureties, Subcontractors and their employees, Sub-subcontractors, and others who need to know the content of such information solely and exclusively for the Project and who agree to maintain the confidentiality of such information.

(Paragraph deleted)

§ 2.3 Information and Services Required of the Owner

§ 2.3.1 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.3.2 The Owner shall retain an architect lawfully licensed to practice architecture, or an entity lawfully practicing architecture, in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 2.3.3 If the employment of the Architect terminates, the Owner shall employ a successor to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 2.3.4 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to reasonably rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.3.5 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services in the Owner's possession and

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relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.3.6 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

§ 2.4 Owner's Right to Stop the Work

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3. If the Owner stops the Work as provided herein, the Contractor shall not be entitled to an extension of the Contract Time to complete the Work for the time during which the Work was stopped.

§ 2.5 Owner's Right to Carry Out the Work

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such default or neglect. The Architect may, pursuant to Section 9.5.1, withhold or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect, or failure. If current and future payments are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 15. The Contractor is not entitled to an adjustment of the Contract Time in connection with this Section 2.5.

ARTICLE 3 CONTRACTOR

§ 3.1 General

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of its obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

§ 3.1.4 Within ten (10) days after the Contractor executes the Agreement or such shorter time as required by the bidding documents, but not later than the start of Work on the Project, the Contractor shall deliver to the Owner: (i) a copy of Contractor's license; (ii) a copy of the Contractor's sales tax registration certificate; (iii) a copy of all applicable certifications or qualifications required by the Contract Documents or applicable law or regulation; (iv) a list of the Contractor's project staff; (v) all required certificates of insurance, including a Certification of Compliance for worker's compensation insurance; and (vi) all other information required by the Contract Documents. Along with execution of the Guaranteed Maximum Price Amendment, the Contractor shall deliver to the Owner all required payment and performance bonds.

§ 3.1.5 The relationship between the Owner and the Contractor is that of independent contractor. The Contract Documents shall not be construed to make the Contractor the agent, servant or employee of the Owner or to create any joint venture, partnership or other association between the Owner and the Contractor other than that of independent contractor.

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§ 3.2 Review of Contract Documents and Field Conditions by Contractor

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed, and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.3.4, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall submit Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner, subject to Section 15.1.7, as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities unless the Contractor recognized or should have recognized such error, inconsistency, omission or difference and knowingly failed to report it to the Architect or Owner.

§ 3.3 Supervision and Construction Procedures

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, jobsite safety, construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences, or procedures, the Contractor shall evaluate the jobsite safety thereof and shall be solely responsible for the jobsite safety of such means, methods, techniques, sequences, or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely notice to the Owner and Architect, and shall propose alternative means, methods, techniques, sequences, or procedures. The Architect shall evaluate the proposed alternative solely for conformance with the design intent for the completed construction. Unless the Architect objects to the Contractor's proposed alternative, the Contractor shall perform the Work using its alternative means, methods, techniques, sequences, or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 Labor and Materials

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other

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facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work approved by the Architect in accordance with Section 3.12.8 or ordered by the Architect in accordance with Section 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive. By making requests for substitutions, the Contractor: (i) represents that the Contractor has personally investigated the proposed substitute product or system and determined that it is equal or superior in all respects to that specified; (ii) represents that the Contractor will provide the same warranty for the substitution that the Contractor would for that specified; (iii) certifies that the cost data presented is complete and includes all related costs under this Contract except the Architect's redesign costs, and waives all claims for additional costs related to the substitution which subsequently become apparent; and (iv) will coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

§ 3.4.4 As required by Ind. Code § 5-16-8-2, the Contractor shall use only steel and foundry products made in the United States in the performance of the Work unless the Owner has determined, in writing, that the cost of steel or foundry products is considered to be unreasonable. For purposes hereof, the price of steel or foundry products of domestic origin will not be considered unreasonable if the price does not exceed the sum of the offered price of like steel or foundry products of foreign origin (including any applicable duty) plus a differential of 15% of the offered price of the steel or foundry products of foreign origin.

§ 3.4.5 In the event that any contractor, supplier, or other entity for which the Contractor is responsible asserts a verified statement, bond claim, or other payment claim against the Owner and/or the Project, the Contractor shall promptly resolve such claim and shall defend, indemnify and hold harmless the Owner and the Project from all losses, damages or costs incurred in connection therewith, except to the extent the claim arises as a result of the Owner's failure to timely make payments to the Contractor under the terms of the Contract. Should the Contractor fail to promptly resolve any such claim, the Contractor shall also be responsible for reasonable attorneys' fees and expenses incurred by the Owner, to the extent necessary to protect the Owner's interests with respect to such claim.

§ 3.5 Warranty

§ 3.5.1 The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. The warranty provided in this paragraph shall be in addition to and not in limitation of any other warranty required by the Contract Documents or otherwise prescribed by law.

§ 3.5.2 All material, equipment, or other special warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with Section 9.8.4.

§ 3.6 Taxes

§ 3.6.1 The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 3.6.2 Materials and equipment purchased as part of the Work that become a permanent part of the structure or facility being constructed are not subject to state gross retail or use tax, and the Contract Sum and the amount of any Change Orders shall not include such tax. The amount of any tax paid by the Contractor, other than the foregoing, shall be separately itemized on the Contractor's applications for payment and the Owner will have the right to contest

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such amounts. An exemption certificate will be furnished by the Owner upon request and must be filed with vendors by the Contractor for exemption from payment of the tax on exempt materials and equipment purchased.

§ 3.7 Permits, Fees, Notices and Compliance with Laws

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 Concealed or Unknown Conditions

If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 14 days after first observance of the conditions, and (ii) keep an accurate and detailed record which will indicate the actual cost of the work done under the alleged differing site condition and failure to keep such a record shall be a bar to any recovery by reason of such alleged differing site condition. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend that an equitable adjustment be made in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may submit a Claim as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take such action the Owner considers reasonably necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 Allowances

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. The Contractor shall identify each allowance item as a separate line item on the schedule of values. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

- **.1** allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- **.2** Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and
- **.3** whenever costs are anticipated by the Contractor to be more than or less than allowances, no adjustment to the Contract Sum shall be made without the Owner's prior written authorization by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

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§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 Superintendent

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the name and qualifications of a proposed superintendent. Within 14 days of receipt of the information, the Architect may notify the Contractor, stating whether the Owner or the Architect (1) has reasonable objection to the proposed superintendent or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 Contractor's Construction and Submittal Schedules

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall contain detail appropriate for the Project, including (1) the date of commencement of the Work, interim schedule milestone dates, and the date of Substantial Completion; (2) an apportionment of the Work by construction activity; and (3) the time required for completion of each portion of the Work. The schedule shall provide for the orderly progression of the Work to completion and shall not exceed time limits current under the Contract Documents. The schedule shall be revised at appropriate intervals as required by the conditions of the Work and Project.

§ 3.10.2 The Contractor, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, shall submit a submittal schedule for the Architect's approval. The Architect's approval shall not be unreasonably delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, or fails to provide submittals in accordance with the approved submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect. In no event shall the Architect's or Owner's approval of the Contractor's construction schedule be deemed to modify the Contract Time without a fully executed Change Order.

§ 3.11 Documents and Samples at the Site

The Contractor shall make available, at the Project site, the Contract Documents, including Change Orders, Construction Change Directives, and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and the approved Shop Drawings, Product Data, Samples, and similar required submittals. These shall be in electronic form or paper copy, available to the Architect and Owner, and delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

§ 3.12 Shop Drawings, Product Data and Samples

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules, and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier, or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment, or workmanship, and establish standards by which the Work will be judged.

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§ 3.12.4 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate how the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve, and submit to the Architect, Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents, in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of Separate Contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents. This provision shall control over any contrary language stamped or written on submittals during the Project.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples, or similar submittals, until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from the requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples, or similar submittals, unless the Contractor has specifically notified the Architect of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals, by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents or by applicable law for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures. The Contractor shall not be required to provide professional services in violation of applicable law.

§ 3.12.10.1 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Contractor by the Contract Documents or by applicable law, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall be entitled to rely upon the adequacy and accuracy of the performance and design criteria provided in the Contract Documents. The Contractor shall cause such services or certifications to be provided by an appropriately licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings, and other submittals prepared by such professional. Shop Drawings, and other submittals related to the Work, designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy and accuracy of the services, certifications, and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor the performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review and approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

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§ 3.12.10.2 If the Contract Documents require the Contractor's design professional to certify that the Work has been performed in accordance with the design criteria, the Contractor shall furnish such certifications to the Architect at the time and in the form specified by the Architect.

§ 3.12.10.3 The Owner is hereby granted a nonexclusive, irrevocable, royalty-free license to use the drawings, specifications, Shop Drawings and other submittals prepared by or on behalf of the Contractor pursuant to Section 3.12.10 for purposes of constructing, using, maintaining, altering and adding to the Project. The Contractor shall incorporate the requirements of this Section 3.12.10 into its contracts with its design professional and Subcontractors where applicable.

§ 3.13 Use of Site

§ 3.13.1 The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment. The Contractor shall ensure that the Work, at all times, is performed in a manner that affords reasonable access, both vehicular and pedestrian, to the site of the Work and all adjacent areas. The Work shall be performed, to the fullest extent reasonably possible, in such a manner that public areas adjacent to the site of the Work shall be free from all debris, building materials and equipment likely to cause hazardous conditions. Without limitation of any other provision of the Contract Documents, Contractor shall use its best efforts to minimize any interference with the occupancy or beneficial use of (1) any areas and building adjacent to the site of the Work or (2) the building in the event of partial occupancy, as more specifically described in Section 9.9.

§ 3.13.2 Only materials and equipment that are to be used in the Work shall be brought to and stored on the Project site by the Contractor. Equipment no longer required for the Work shall be promptly removed from the Project site. The Contractor shall be solely responsible for protecting construction materials and equipment stored at the Project site from weather, theft, damage and all other adversity.

§ 3.14 Cutting and Patching

§ 3.14.1 The Contractor shall be responsible for cutting, fitting, or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting, or patching shall be restored to the condition existing prior to the cutting, fitting, or patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or Separate Contractors by cutting, patching, or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter construction by the Owner or a Separate Contractor except with written consent of the Owner and of the Separate Contractor. Consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold, from the Owner or a Separate Contractor, its consent to cutting or otherwise altering the Work.

§ 3.15 Cleaning Up

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and the Owner shall be entitled to reimbursement from the Contractor.

§ 3.16 Access to Work

The Contractor shall provide the Owner and Architect with access to the Work in preparation and progress wherever located.

§ 3.17 Royalties, Patents and Copyrights

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall

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not be responsible for defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications, or other documents prepared by the Owner or Architect. However, if an infringement of a copyright or patent is discovered by, or made known to, the Contractor, the Contractor shall be responsible for the loss unless the information is promptly furnished to the Architect.

§ 3.18 Indemnification

§ 3.18.1 To the fullest extent permitted by law, the Contractor shall indemnify, defend, and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation, or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

§ 3.18.3 The duties and obligations of Section 3.18 shall survive completion or termination of the Contract.

ARTICLE 4 ARCHITECT

§ 4.1 General

§ 4.1.1 The Architect is the person or entity retained by the Owner pursuant to Section 2.3.2 and identified as such in the Agreement.

§ 4.1.2 Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner and Architect. Consent shall not be unreasonably withheld.

§ 4.2 Administration of the Contract

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction until the date the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and promptly report to the Owner (1) known deviations from the Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Contractor, and (3) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of, and will not be responsible for acts or omissions of, the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

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§ 4.2.4 Communications

The Owner and Contractor shall include the Architect in all communications that relate to or affect the Architect's services or professional responsibilities. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and suppliers shall be through the Contractor. Communications by and with Separate Contractors shall be through the Owner. The Contract Documents may specify other communication protocols.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.4.2 and 13.4.3, whether or not the Work is fabricated, installed or completed.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5, and 3.12. The Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may order minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more Project representatives to assist in carrying out the Architect's responsibilities at the site. The Owner shall notify the Contractor of any change in the duties, responsibilities and limitations of authority of the Project representatives.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either.

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

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ARTICLE 5 SUBCONTRACTORS

§ 5.1 Definitions

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a Separate Contractor or the subcontractors of a Separate Contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 Award of Subcontracts and Other Contracts for Portions of the Work

§ 5.2.1 The Contractor shall not substitute a Subcontractor, person, or entity for one previously selected if the Owner or Architect makes reasonable objection to such substitution.

(Paragraphs deleted)

§ 5.3 Subcontractual Relations

By appropriate written agreement, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work that the Contractor, by these Contract Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies, and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 Contingent Assignment of Subcontracts

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

.1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 or a termination of the Contract by the Owner for convenience pursuant to Section 14.4 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor; and

.2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity.

§ 5.4.4 Unless and until an assignment of the Subcontract to the Owner is effective as provided in this Section, nothing contained herein shall create any obligation on the part of the Owner to make any payments to any Subcontractor, and no payment by the Owner to any Subcontractor shall create any obligation to make any further payments to any Subcontractor.

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ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 Owner's Right to Perform Construction and to Award Separate Contracts

§ 6.1.1 The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and with Separate Contractors.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each Separate Contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with any Separate Contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to its construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, Separate Contractors, and the Owner until subsequently revised.

(Paragraph deleted)

§ 6.2 Mutual Responsibility

§ 6.2.1 The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a Separate Contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly notify the Architect of apparent discrepancies or defects in the construction or operations by the Owner or Separate Contractor that would render it unsuitable for proper execution and results of the Contractor's Work. Failure of the Contractor to notify the Architect of apparent discrepancies or defects prior to proceeding with the Work shall constitute an acknowledgment that the Owner's or Separate Contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work. The Contractor shall not be responsible for discrepancies or defects in the construction or operations by the Owner or Separate Contractor that are not apparent.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a Separate Contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a Separate Contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage that the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or Separate Contractor as provided in Section 10.2.5.

§ 6.2.5 The Owner and each Separate Contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 Owner's Right to Clean Up

If a dispute arises among the Contractor, Separate Contractors, and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 General

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner and Contractor. A Construction Change Directive may be issued by the Owner or Architect and may or may not be agreed to by the Contractor. An order for a minor change in the Work may be issued by the Owner or Architect.

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§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents. The Contractor shall proceed promptly with changes in the Work, unless otherwise provided in the Change Order, Construction Change Directive, or order for a minor change in the Work.

§ 7.2 Change Orders

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor, and Architect stating their agreement upon all of the following:

.1 The change in the Work;
.2 The amount of the adjustment, if any, in the Contract Sum; and
.3 The extent of the adjustment, if any, in the Contract Time.

§ 7.2.2 A fully executed Change Order, or a Construction Change Directive signed by the Contractor, shall constitute a final settlement of all known matters relating to or arising out of the change in the Work that is subject of the Change Order or Construction Change Directive, including but in no way limited to, all direct and indirect costs associated with such change and any and all adjustments to the Contract Sum and Contract Time.

§ 7.2.3 No course of conduct or dealing between the parties and no expressed or implied acceptance of alterations or additions to the Work shall be the basis of any claim for an increase in the Contract Sum or for a change in the Contract Time in the absence of a Change Order or Construction Change Directive.

§ 7.3 Construction Change Directives

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

.1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
.2 Unit prices stated in the Contract Documents or subsequently agreed upon;
.3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
.4 As provided in Section 7.3.4.

§ 7.3.4 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.4 shall be limited to the following:

.1 Costs of labor, including applicable payroll taxes, fringe benefits required by agreement or custom, workers' compensation insurance, and other employee costs approved by the Architect;
.2 Costs of materials, supplies, and equipment, including cost of transportation, whether incorporated or consumed;
.3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others;
.4 Costs of premiums for all bonds and insurance, permit fees, and sales, use, or similar taxes, directly related to the change; and
.5 Costs of supervision and field office personnel directly attributable to the change.

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§ 7.3.5 If the Contractor disagrees with the adjustment in the Contract Time, the Contractor may make a Claim in accordance with applicable provisions of Article 15.

§ 7.3.6 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.7 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 Minor Changes in the Work

The Architect may order minor changes in the Work that are consistent with the intent of the Contract Documents and do not involve an adjustment in the Contract Sum or an extension of the Contract Time. The Architect's order for minor changes shall be in writing. If the Contractor believes that the proposed minor change in the Work will affect the Contract Sum or Contract Time, the Contractor shall notify the Architect and shall not proceed to implement the change in the Work. If the Contractor performs the Work set forth in the Architect's order for a minor change without prior notice to the Architect that such change will affect the Contract Sum or Contract Time, the Contractor waives any adjustment to the Contract Sum or extension of the Contract Time.

ARTICLE 8 TIME

§ 8.1 Definitions

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 8.2 Progress and Completion

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, commence the Work prior to the effective date of insurance required to be furnished by the Contractor and Owner.

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§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.2.4 If the Owner determines that the Work has failed to progress or reach the level of completion required by the Contract Documents, and such failure is the fault of the Contractor or a Subcontractor, the Owner may, but is not obligated to, order the Contractor to take necessary corrective measures to expedite the progress of the Work, including, without limitation, (1) additional shifts or overtime; (2) additional manpower, equipment and facilities; and (3) similar measures (referred to collectively as "extraordinary measures"). If so ordered by the Owner, such extraordinary measures shall continue until the Work achieves the level of completion required by the Contract Documents. The Owner's right to require extraordinary measures is solely for the purposes of ensuring the Contractor's compliance with the construction schedule and shall not entitle the Contractor to an increase in the Contract Sum.

§ 8.3 Delays and Extensions of Time

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by (1) an act or neglect of the Owner or Architect, of an employee of either, or of a Separate Contractor; (2) by changes ordered in the Work; (3) by labor disputes, fire, unusual delay in deliveries, unavoidable casualties, adverse weather conditions documented in accordance with Section 15.1.6.2, or other causes beyond the Contractor's control and which are not due to any fault, neglect, act or omission on the part of the Contractor or its Subcontractors or suppliers; (4) by delay authorized by the Owner pending mediation and binding dispute resolution; or (5) by other causes that the Contractor asserts, and the Architect determines, justify delay, then the Contract Time shall be extended for such reasonable time as the Architect may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 Contract Sum

§ 9.1.1 The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.1.2 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed so that application of such unit prices to the actual quantities causes substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 9.2 Schedule of Values

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit a schedule of values to the Architect before the first Application for Payment, allocating the entire Contract Sum to the various portions of the Work. The schedule of values shall be prepared in the form, and supported by the data to substantiate its accuracy, required by the Architect. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment. Any changes to the schedule of values shall be submitted to the Architect and supported by such data to substantiate its accuracy as the Architect may require, and unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's subsequent Applications for Payment.

§ 9.3 Applications for Payment

§ 9.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2, for completed portions of the Work. The application shall be notarized, if required, and supported by all data substantiating the Contractor's right to payment that the Owner or Architect require, such as copies of requisitions, and releases and waivers of liens from Subcontractors and suppliers, and shall reflect retainage if provided for in the Contract Documents.

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§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage, and transportation to the site, for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information, and belief, be free and clear of liens, claims, security interests, or encumbrances, in favor of the Contractor, Subcontractors, suppliers, or other persons or entities that provided labor, materials, and equipment relating to the Work.

§ 9.3.4 At the discretion of the Contractor, funds retained by the Owner, as specified in the Agreement, shall be held by the Owner or placed in an escrow account with _____ as the escrow agent. The Owner shall not be required to pay interest on the amount of retainage. The escrow agreement must contain the following provisions: (a) the escrow agent shall invest all escrowed principal in obligations selected by the escrow agent; (b) the escrow agent shall hold the escrowed principal and income until receipt of notice from the Owner and the Contractor, specifying the part of the escrowed principal to be released from the escrow and the person to whom that portion is to be released; (c) after receipt of the notice, the escrow agent shall remit the designated part of escrowed principal and the same proportion of then escrowed income to the person specified in the notice; (d) the escrow agent shall be compensated for the agent's services; and (e) the Owner and Contractor may agree on a reasonable fee comparable with fees being charged for the handling of escrow accounts of similar size and duration and the fee shall be paid from the escrowed income.

§ 9.4 Certificates for Payment

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either (1) issue to the Owner a Certificate for Payment in the full amount of the Application for Payment, with a copy to the Contractor; or (2) issue to the Owner a Certificate for Payment for such amount as the Architect determines is properly due, and notify the Contractor and Owner of the Architect's reasons for withholding certification in part as provided in Section 9.5.1; or (3) withhold certification of the entire Application for Payment, and notify the Contractor and Owner of the Architect's reason for withholding certification in whole as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Contractor is entitled to payment in the amount certified. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion, and to specific qualifications expressed by the Architect. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

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§ 9.5 Decisions to Withhold Certification

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Owner may withhold payment in whole or in part, or the Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- **.1** defective Work not remedied;
- **.2** third party claims filed or reasonable evidence indicating probable filing of such claims, unless security acceptable to the Owner is provided by the Contractor;
- **.3** failure of the Contractor to make payments properly to Subcontractors or suppliers for labor, materials or equipment;
- **.4** reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- **.5** damage to the Owner or a Separate Contractor;
- **.6** reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- **.7** repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When either party disputes the Architect's decision regarding a Certificate for Payment under Section 9.5.1, in whole or in part, that party may submit a Claim in accordance with Article 15.

§ 9.5.3 When the reasons for withholding certification are removed, certification will be made for amounts previously withheld. The Owner shall not be deemed to be in default of the Contract by reason of withholding payment while any of the grounds set forth in Section 9.5.1 remain uncured.

§ 9.5.4 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or supplier to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Contractor shall reflect such payment on its next Application for Payment.

§ 9.6 Progress Payments

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors and suppliers to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay, or to see to the payment of money to, a Subcontractor or supplier, except as may otherwise be required by law.

§ 9.6.5 The Contractor's payments to suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

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§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors or provided by suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, create any fiduciary liability or tort liability on the part of the Contractor for breach of trust, or entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.6.8 Provided the Owner has fulfilled its payment obligations under the Contract Documents, the Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or supplier of any tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner shall notify the Contractor. If approved by the applicable court, when required, the Contractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

§ 9.6.9 As required by Ind. Code § 36-1-12-20(c), the cost for trench safety systems, if any, shall be paid for as a separate pay item or in the pay of the principal work with which safety systems are associated.

§ 9.7 Failure of Payment

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents, the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, upon seven additional days' notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately.

§ 9.8 Substantial Completion

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Owner and Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in the Certificate. Upon such acceptance, and consent of surety if any, the Owner shall make payment of retainage applying to the Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

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§ 9.8.6 The Contractor shall complete or correct all items included on the list prepared pursuant to Section 9.8.3, as such list may be supplemented from time to time by the Owner or Architect, within thirty (30) days from the date of Substantial Completion, or the Owner shall have the right, after three (3) days' written notice to the Contractor, to complete or correct such items at the Contractor's sole cost and expense.

§ 9.9 Partial Occupancy or Use

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor, and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents nor shall the Owner waive any rights under the Contract by such partial occupancy or use.

§ 9.10 Final Completion and Final Payment

§ 9.10.1 Upon receipt of the Contractor's notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection. When the Architect and Owner find the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect, (3) a written statement that the Contractor knows of no reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment, (5) documentation of any special warranties, such as manufacturers' warranties or specific Subcontractor warranties, and (6) if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts and releases and waivers of liens, claims, security interests, or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien, claim, security interest, or encumbrance. If a lien, claim, security interest, or encumbrance remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging the lien, claim, security interest, or encumbrance, including all costs and reasonable attorneys' fees. Final payment is further subject to the provisions of Ind. Code § 36-1-12-14(f) regarding final payment, payment by the escrow agent, and withholding for uncompleted minor items.

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the

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Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed, corrected, and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of the surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

- **.1** liens, Claims, security interests, or encumbrances arising out of the Contract and unsettled;
- **.2** failure of the Work to comply with the requirements of the Contract Documents;
- **.3** terms of special warranties required by the Contract Documents; or
- **.4** audits performed by the Owner, if permitted by the Contract Documents, after final payment.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor, or a supplier, shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 Safety of Persons and Property

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to

- **.1** employees on the Work and other persons who may be affected thereby;
- **.2** the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor; and
- **.3** other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with, and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, bearing on safety of persons or property or their protection from damage, injury, or loss.

§ 10.2.2.1 The provisions of Ind. Code § 36-1-12-20 and IOSHA regulations 29 CFR 1926, Subpart P, pertaining to trench safety systems are incorporated herein by this reference.

§ 10.2.3 The Contractor shall implement, erect, and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards; promulgating safety regulations; and notifying the owners and users of adjacent sites and utilities of the safeguards.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3. The Contractor may make a Claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to

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the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 Injury or Damage to Person or Property

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, notice of the injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 Hazardous Materials and Substances

§ 10.3.1 The Contractor is responsible for compliance with all requirements included in the Contract Documents and with all federal, state and local laws, statutes, ordinances, rules, regulations and lawful orders of public authorities regarding hazardous materials or substances. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and notify the Owner and Architect of the condition.

§ 10.3.2 Upon receipt of the Contractor's notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up. The term "rendered harmless" shall mean that levels are less than any permissible exposure limits set forth in OSHA regulations.

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss, or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Contractor, not the Owner shall be responsible under this Section 10.3 for hazardous materials or substances the Contractor brings to the site.

§ 10.3.5 The Contractor shall reimburse the Owner for the cost and expense the Owner incurs (1) for remediation of hazardous materials or substances the Contractor or its Subcontractors or suppliers bring to the site if that material or substance is spilled, leaked, released, discharged, abandoned, or negligently, recklessly,, or carelessly handled, or intentionally, willfully, or knowingly mishandled, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall reimburse the Contractor for all cost and expense thereby incurred.

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§ 10.4 Emergencies

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 Contractor's Insurance and Bonds

§ 11.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Contractor shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Owner, Architect, and Architect's consultants shall be named as additional insureds under the Contractor's commercial general liability policy or as otherwise described in the Contract Documents.

§ 11.1.2 The Contractor shall provide surety bonds of the types, for such penal sums, and subject to such terms and conditions as required by the Contract Documents. The Contractor shall purchase and maintain the required bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 11.1.3 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

§ 11.1.4 Notice of Cancellation or Expiration of Contractor's Required Insurance. Within three (3) business days of the date the Contractor becomes aware of an impending or actual cancellation or expiration of any insurance required by the Contract Documents, the Contractor shall provide notice to the Owner of such impending or actual cancellation or expiration. Upon receipt of notice from the Contractor, the Owner shall, unless the lapse in coverage arises from an act or omission of the Owner, have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by the Contractor. The furnishing of notice by the Contractor shall not relieve the Contractor of any contractual obligation to provide any required coverage.

§ 11.1.5 Notwithstanding anything to the contrary in the Contract, no agreement or provision contained herein to procure or provide insurance shall be deemed or construed to constitute a waiver of liability, an agreement to exculpate a party from the consequences of its own negligence, or limit the Owner's recourse to the proceeds of such insurance.

§ 11.2 Owner's Insurance

§ 11.2.1 The Owner shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Owner shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located.

§ 11.2.2 Failure to Purchase Required Property Insurance. If the Owner fails to purchase and maintain the required property insurance, with all of the coverages and in the amounts described in the Agreement or elsewhere in the Contract Documents, the Owner shall inform the Contractor in writing prior to commencement of the Work. Upon receipt of notice from the Owner, the Contractor may delay commencement of the Work and may obtain insurance that will protect the interests of the Contractor, Subcontractors, and Sub-Subcontractors in the Work. When the failure to provide coverage has been cured or resolved, the Contract Sum and Contract Time shall be equitably adjusted. In the event the Owner fails to procure coverage, the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent the loss to the Owner would have been covered by the insurance to have been procured by the Owner. The cost of the insurance shall be charged to the Owner by a Change Order. If the Owner does not provide written notice, and the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain the required insurance, the Owner shall reimburse the Contractor for all reasonable costs and damages attributable thereto.

§ 11.2.3 Notice of Cancellation or Expiration of Owner's Required Property Insurance. Within three (3) business days of the date the Owner becomes aware of an impending or actual cancellation or expiration of any property insurance required by the Contract Documents, the Owner shall provide notice to the Contractor of such impending or actual cancellation or expiration. Unless the lapse in coverage arises from an act or omission of the Contractor: (1) the

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Contractor, upon receipt of notice from the Owner, shall have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by either the Owner or the Contractor; (2) the Contract Time and Contract Sum shall be equitably adjusted; and (3) the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent any loss to the Owner would have been covered by the insurance had it not expired or been cancelled. If the Contractor purchases replacement coverage, the cost of the insurance shall be charged to the Owner by an appropriate Change Order. The furnishing of notice by the Owner shall not relieve the Owner of any contractual obligation to provide required insurance.

§ 11.3 Waivers of Subrogation

§ 11.3.1 The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents, and employees, each of the other; (2) the Architect and Architect's consultants; and (3) Separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees, for damages caused by fire, or other causes of loss, to the extent those losses are covered by property insurance required by the Agreement or other property insurance applicable to the Project, except such rights as they have to proceeds of such insurance. The Owner or Contractor, as appropriate, shall require similar written waivers in favor of the individuals and entities identified above from the Architect, Architect's consultants, Separate Contractors, subcontractors, and sub-subcontractors. The policies of insurance purchased and maintained by each person or entity agreeing to waive claims pursuant to this section 11.3.1 shall not prohibit this waiver of subrogation. This waiver of subrogation shall be effective as to a person or entity (1) even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, (2) even though that person or entity did not pay the insurance premium directly or indirectly, or (3) whether or not the person or entity had an insurable interest in the damaged property.

§ 11.3.2 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, to the extent permissible by such policies, the Owner waives all rights in accordance with the terms of Section 11.3.1 for damages caused by fire or other causes of loss covered by this separate property insurance.

§ 11.4 Loss of Use, Business Interruption, and Delay in Completion Insurance

The Owner, at the Owner's option, may purchase and maintain insurance that will protect the Owner against loss of use of the Owner's property, or the inability to conduct normal operations, due to fire or other causes of loss. The Owner waives all rights of action against the Contractor and Architect for loss of use of the Owner's property, due to fire or other hazards however caused.

§ 11.5 Adjustment and Settlement of Insured Loss

§ 11.5.1 A loss insured under the property insurance required by the Agreement shall be adjusted by the Owner and made payable to the Owner for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.5.2. The Owner shall pay the Architect and Contractor their just shares of insurance proceeds received by the Owner, and by appropriate agreements the Architect and Contractor shall make payments to their consultants and Subcontractors in similar manner.

§ 11.5.2 Prior to settlement of an insured loss, the Owner shall notify the Contractor of the terms of the proposed settlement as well as the proposed allocation of the insurance proceeds. The Contractor shall have 14 days from receipt of notice to object to the proposed settlement or allocation of the proceeds. If the Contractor does not object, the Owner shall settle the loss and the Contractor shall be bound by the settlement and allocation. Upon receipt, the Owner shall deposit the insurance proceeds in a separate account and make the appropriate distributions. Thereafter, if no other agreement is made or the Owner does not terminate the Contract for convenience, the Owner and Contractor shall execute a Change Order for reconstruction of the damaged or destroyed Work in the amount allocated for that purpose. If the Contractor timely objects to either the terms of the proposed settlement or the allocation of the proceeds, the Owner may proceed to settle the insured loss, and any dispute between the Owner and Contractor arising out of the settlement or allocation of the proceeds shall be resolved pursuant to Article 15. Pending resolution of any dispute, the Owner may issue a Construction Change Directive for the reconstruction of the damaged or destroyed Work.

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ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 Uncovering of Work

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an equitable adjustment to the Contract Sum and Contract Time as may be appropriate. If such Work is not in accordance with the Contract Documents, the costs of uncovering the Work, and the cost of correction, shall be at the Contractor's expense.

§ 12.2 Correction of Work

§ 12.2.1 Before Substantial Completion

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, discovered before Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 After Substantial Completion

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of notice from the Owner to do so, unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.5.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction of the Owner or Separate Contractors, whether completed or partially completed, caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to warranties other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.3 Acceptance of Nonconforming Work

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

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ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 Governing Law

The Contract shall be governed by the law of the place where the Project is located, excluding that jurisdiction's choice of law rules. If the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.

§ 13.1.1 Contractor and all Subcontractors are responsible to comply with Indiana Code as it pertains to public works projects. The following are notable requirements set forth in IC 5-16-13 and 4-13.6, but are not inclusive of all requirements.

.1 Each first tier Subcontractor must contribute in: (i) work performed by the Subcontractor's employees; (ii) materials supplied directly by the Subcontractor; (iii) services supplied directly by the Subcontractor's employees; or (iv) any combination of subdivisions (i) through (iii); at least fifteen percent (15%) of the Subcontractor's total contract price as determined at the time the contract is awarded.

.2 Contractor and all Subcontractors, regardless of tier, that are performing the constructing, altering, demolishing, or renovating of a public building or other structure must be qualified by the Indiana Department of Administration, and those contractors and subcontractors that are constructing, altering, or repairing highways, streets, or alleys must be qualified by INDOT.

(a) Contractors and Subcontractors, regardless of tier, performing work for local governmental entities awarded under Ind. Code 36-1-12 and whose contracts are less than $300,000 are not required to have been qualified by IDOA or INDOT.

(b) Suppliers of material are not required to be qualified by IDOA prior to doing work on public works projects. A "Supplier" is defined as "any person supplying materials, but no on site labor, to a Contractor or Subcontractor. IC 4-13.6-1-20.

.3 For public works by local governmental entities under Ind. Code 36-1-12, Contractor and its Subcontractors shall comply with requirements for drug testing of its employees set forth in Ind. Code 4-13-18 if estimated cost of public works Contract is at least $150,000.

.4 Contractor and all Subcontractors, regardless of tier, shall preserve its payroll and related records for three (3) years after completion of the project work and such records shall be open to inspection by the Indiana Department of Workforce Development.

.5 If Contractor or Subcontractor, regardless of tier, employs 10 or more employees, then such Contractor/Subcontractor shall provide access to a training program applicable to tasks to be performed in normal course of employee's employment. Contractor or Subcontractor may comply with this training requirement through one of following: (i) an apprenticeship program; (ii) a program offered by Ivy Tech Community College of Indiana or Vincennes University; (iii) a program established by or for Contractor/Subcontractor; (iv) a program offered by an entity sponsored by U. S. Department of Labor, Bureau of Apprenticeship and Training; (v) a program that results in award of an industry recognized portable certification; (vi) a program approved by Federal Highway Administration; or (vii) a program approved by INDOT.

.6 If Contractor or first tier Subcontractor employs more than 50 journeymen, such Contractor/first tier Subcontractor shall participate in an apprenticeship or training program that meets standards established by or has been approved by any of following: U.S. Department of Labor, Bureau of Apprenticeship and Training; Indiana Department of Labor; Federal Highway Administration; or INDOT.

§ 13.2 Successors and Assigns

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to covenants, agreements, and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate the assignment.

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§ 13.3 Rights and Remedies

§ 13.3.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

§ 13.3.2 No action or failure to act by the Owner, Architect, or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed upon in writing.

§ 13.4 Tests and Inspections

§ 13.4.1 Tests, inspections, and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules, and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

§ 13.4.2 If the Architect, Owner, or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection, or approval not included under Section 13.4.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection, or approval, by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.4.3, shall be at the Owner's expense.

§ 13.4.3 If procedures for testing, inspection, or approval under Sections 13.4.1 and 13.4.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Architect's services and expenses, shall be at the Contractor's expense.

§ 13.4.4 Required certificates of testing, inspection, or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.4.5 If the Architect is to observe tests, inspections, or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.4.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.5 Interest

Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at the rate the parties agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 Termination by the Contractor

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, for any of the following reasons:

- **.1** Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;
- **.2** An act of government, such as a declaration of national emergency, that requires all Work to be stopped;
- **.3** Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because, contrary to the provisions

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of the Contract Documents, the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or

.4 The Owner has failed to furnish to the Contractor reasonable evidence as required by Section 2.2.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, repeated suspensions, delays, or interruptions of the entire Work by the Owner as described in Section 14.3, constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' notice and opportunity to cure to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work properly executed, as well as the Construction Manager's Fee on Work properly executed, and direct costs incurred by reason of such termination.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, or their agents or employees or any other persons or entities performing portions of the Work because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' notice and opportunity to cure to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 Termination by the Owner for Cause

§ 14.2.1 The Owner may terminate the Contract if the Contractor

.1 repeatedly refuses or fails to prosecute the Work promptly and diligently or to supply enough properly skilled workers or proper materials;

.2 fails to make payment to Subcontractors or suppliers in accordance with the respective agreements between the Contractor and the Subcontractors or suppliers;

.3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority;

.4 shall institute proceedings or consents to proceedings requesting relief or arrangement under the Federal Bankruptcy Act or any similar or applicable federal or state law, or if a petition under any federal or state bankruptcy or insolvency law is filed against Contractor and such petition is not dismissed within 60 days from the date of filing;

.5 admits in writing its inability to pay its debts generally as they become due;

.6 makes a general assignment for the benefit of its creditors, or if a receiver, liquidator, trustee, or assignee is appointed on account of the Contractor's bankruptcy or insolvency, or if a receiver of all or any portion of the Contractor's properties is appointed; or

.7 abandons the Work; or

.8 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the reasons described in Section 14.2.1 exist, the Owner may, without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

.1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;

.2 Accept assignment of subcontracts pursuant to Section 5.4; and

.3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance,

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the Contractor shall pay the difference to the Owner. This obligation for payment shall survive termination of the Contract.

§ 14.3 Suspension by the Owner for Convenience

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work, in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay, or interruption under Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

.1 that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for which the Contractor is responsible; or

.2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 Termination by the Owner for Convenience

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of notice from the Owner of such termination for the Owner's convenience, the Contractor shall

.1 cease operations as directed by the Owner in the notice;

.2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and

.3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Owner shall pay the Contractor for Work properly executed; costs incurred by reason of the termination, including costs attributable to termination of Subcontracts; and the termination fee, if any, set forth in the Agreement.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 Claims

§ 15.1.1 Definition

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, a change in the Contract Time, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract, but does not include the Owner's termination of the Contract under Sections 14.2 or 14.4. The responsibility to substantiate Claims shall rest with the party making the Claim. This Section 15.1.1 does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract Documents. The making of any progress payment by the Owner shall not be construed as a waiver of any claim by the Owner against the Contractor, whether or not any such claim was known by the Owner before the making of such payment.

§ 15.1.2 Time Limits on Claims

The Owner and Contractor shall commence all Claims and causes of action against the other and arising out of or related to the Contract, whether in contract, tort, breach of warranty or otherwise, in accordance with the requirements of the binding dispute resolution method selected in the Agreement and within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all Claims and causes of action not commenced in accordance with this Section 15.1.2.

§ 15.1.3 Notice of Claims

§ 15.1.3.1 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party under this Section 15.1.3.1 shall be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

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§ 15.1.3.2 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party. In such event, no decision by the Initial Decision Maker is required.

§ 15.1.4 Continuing Contract Performance

§ 15.1.4.1 Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

§ 15.1.4.2 The Contract Sum and Contract Time shall be adjusted in accordance with the Initial Decision Maker's decision, subject to the right of either party to proceed in accordance with this Article 15. The Architect will issue Certificates for Payment in accordance with the decision of the Initial Decision Maker.

§ 15.1.5 Claims for Additional Cost

If the Contractor wishes to make a Claim for an increase in the Contract Sum, notice as provided in Section 15.1.3 shall be given before proceeding to execute the portion of the Work that is the subject of the Claim. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.6 Claims for Additional Time

§ 15.1.6.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, notice as provided in Section 15.1.3 shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.6.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated, and had an adverse effect on the scheduled construction.

§ 15.1.7 Waiver of Claims for Consequential Damages

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

.1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and

.2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit, except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.7 shall be deemed to preclude assessment of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 Initial Decision

§ 15.2.1 Claims asserted prior to the date of final payment, excluding those where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2 or arising under Sections 10.3, 10.4, and 11.5, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim. If an initial decision has not been rendered within 30 days after the Claim has been referred to the Initial Decision Maker, the party asserting the Claim may demand mediation and binding dispute resolution without a decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks

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sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of the request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished, or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of receipt of an initial decision, demand in writing that the other party file for mediation. If such a demand is made and the party receiving the demand fails to file for mediation within 30 days after receipt thereof, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

(Paragraph deleted)

§ 15.3 Mediation

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract, except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.7, shall be subject to mediation as a condition precedent to binding dispute resolution.

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 Either party may, within 30 days from the date that mediation has been concluded without resolution of the dispute or 60 days after mediation has been demanded without resolution of the dispute, demand in writing that the other party file for binding dispute resolution. If such a demand is made and the party receiving the demand fails to file for binding dispute resolution within 60 days after receipt thereof, then both parties waive their rights to binding dispute resolution proceedings with respect to the initial decision.

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§ 15.3.4 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 Arbitration

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. The Arbitration shall be conducted in the place where the Project is located, unless another location is mutually agreed upon. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement, shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 Consolidation or Joinder

§ 15.4.4.1 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as those of the Owner and Contractor under this Agreement.

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AIA® Document A133® – 2019 Exhibit B

Insurance and Bonds

This Insurance and Bonds Exhibit is part of the Agreement, between the Owner and the Construction Manager, dated the 26th day of January in the year 2026
(In words, indicate day, month and year.)

for the following **PROJECT**:
(Name and location or address)

2025+ School Facilities Transformation Projects

THE OWNER:
(Name, legal status, and address)

Perry Township Schools, Marion County, Indiana
6548 Orinoco Avenue
Indianapolis, Indiana 46227

THE CONSTRUCTION MANAGER:
(Name, legal status, and address)

The Skillman Corporation
3834 South Emerson Avenue, Bldg. A
Indianapolis, IN 46203

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This document is intended to be used in conjunction with AIA Document A201™–2017, General Conditions of the Contract for Construction. Article 11 of A201™–2017 contains additional insurance provisions.

TABLE OF ARTICLES

B.1 GENERAL

B.2 OWNER'S INSURANCE

B.3 CONSTRUCTION MANAGER'S INSURANCE AND BONDS

B.4 SPECIAL TERMS AND CONDITIONS

ARTICLE B.1 GENERAL

The Owner and Construction Manager shall purchase and maintain insurance, and provide bonds, as set forth in this Exhibit. As used in this Exhibit, the term General Conditions refers to AIA Document A201™–2017, General Conditions of the Contract for Construction.

ARTICLE B.2 OWNER'S INSURANCE

§ B.2.1 General

Prior to commencement of the Work, the Owner shall secure the insurance, and provide evidence of the coverage, required under this Article B.2 and, upon the Construction Manager's request, provide a copy of the property insurance policy or policies required by Section B.2.3. The copy of the policy or policies provided shall contain all applicable conditions, definitions, exclusions, and endorsements.

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§ B.2.2 Liability Insurance
The Owner shall be responsible for purchasing and maintaining the Owner's usual general liability insurance.

§ B.2.3 Required Property Insurance
§ B.2.3.1 Unless this obligation is placed on the Construction Manager pursuant to Section B.3.3.2.1, the Owner shall purchase and maintain, from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located, property insurance written on a builder's risk "all-risks" completed value or equivalent policy form and sufficient to cover the total value of the entire Project on a replacement cost basis. The Owner's property insurance coverage shall be no less than the amount of the initial Contract Sum, plus the value of subsequent Modifications and labor performed and materials or equipment supplied by others. The property insurance shall be maintained until Substantial Completion and thereafter as provided in Section B.2.3.1.3, unless otherwise provided in the Contract Documents or otherwise agreed in writing by the parties to this Agreement. This insurance shall include the interests of the Owner, Construction Manager, Subcontractors, and Sub-subcontractors in the Project as insureds. This insurance shall include the interests of mortgagees as loss payees.

§ B.2.3.1.1 Causes of Loss. The insurance required by this Section B.2.3.1 shall provide coverage for direct physical loss or damage, and shall not exclude the risks of fire, explosion, theft, vandalism, malicious mischief, collapse, earthquake, flood, or windstorm. The insurance shall also provide coverage for ensuing loss or resulting damage from error, omission, or deficiency in construction methods, design, specifications, workmanship, or materials. Sub-limits, if any, are as follows:
(Indicate below the cause of loss and any applicable sub-limit.)

Cause of Loss	Sub-Limit

§ B.2.3.1.2 Specific Required Coverages. The insurance required by this Section B.2.3.1 shall provide coverage for loss or damage to falsework and other temporary structures, and to building systems from testing and startup. The insurance shall also cover debris removal, including demolition occasioned by enforcement of any applicable legal requirements, and reasonable compensation for the Architect's and Construction Manager's services and expenses required as a result of such insured loss, including claim preparation expenses. Sub-limits, if any, are as follows:
(Indicate below type of coverage and any applicable sub-limit for specific required coverages.)

Coverage	Sub-Limit

§ B.2.3.1.3 Unless the parties agree otherwise, upon Substantial Completion, the Owner shall continue the insurance required by Section B.2.3.1 or, if necessary, replace the insurance policy required under Section B.2.3.1 with property insurance written for the total value of the Project that shall remain in effect until expiration of the period for correction of the Work set forth in Section 12.2.2 of the General Conditions.

§ B.2.3.1.4 Deductibles and Self-Insured Retentions. If the insurance required by this Section B.2.3 is subject to deductibles or self-insured retentions, the Owner shall be responsible for all loss not covered because of such deductibles or retentions.

§ B.2.3.2 Occupancy or Use Prior to Substantial Completion. The Owner's occupancy or use of any completed or partially completed portion of the Work prior to Substantial Completion shall not commence until the insurance company or companies providing the insurance under Section B.2.3.1 have consented in writing to the continuance of coverage. The Owner and the Construction Manager shall take no action with respect to partial occupancy or use that would cause cancellation, lapse, or reduction of insurance, unless they agree otherwise in writing.

§ B.2.3.3 Insurance for Existing Structures
If the Work involves remodeling an existing structure or constructing an addition to an existing structure, the Owner shall purchase and maintain, until the expiration of the period for correction of Work as set forth in Section 12.2.2 of the General Conditions, "all-risks" property insurance, on a replacement cost basis, protecting the existing structure against direct physical loss or damage from the causes of loss identified in Section B.2.3.1, notwithstanding the undertaking of the Work. The Owner shall be responsible for all co-insurance penalties.

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(Paragraphs deleted)

ARTICLE B.3 CONSTRUCTION MANAGER'S INSURANCE AND BONDS

§ B.3.1 General

§ B.3.1.1 Certificates of Insurance. The Construction Manager shall provide certificates of insurance acceptable to the Owner evidencing compliance with the requirements in this Article B.3 at the following times: (1) prior to commencement of the Work; (2) upon renewal or replacement of each required policy of insurance; and (3) upon the Owner's written request. An additional certificate evidencing continuation of commercial liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment and thereafter upon renewal or replacement of such coverage until the expiration of the periods required by Section B.3.2.1 and Section B.3.3.1. The certificates will show the Owner as an additional insured on the Construction Manager's Commercial General Liability and excess or umbrella liability policy or policies.

§ B.3.1.2 Deductibles and Self-Insured Retentions. The Construction Manager shall be responsible for any deductible or self- insured retentions applicable to any insurance required to be provided by the Construction Manager.

§ B.3.1.3 Additional Insured Obligations. To the fullest extent permitted by law, the Construction Manager shall cause the commercial general liability, automobile liability, and umbrella/excess coverage to include (1) the Owner, the Architect, and the Architect's consultants as additional insureds for claims caused in whole or in part by the Construction Manager's negligent acts or omissions during the Construction Manager's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Construction Manager's negligent acts or omissions for which loss occurs during completed operations. The additional insured coverage shall be primary and non-contributory to any of the Owner's general liability insurance policies and shall apply to both ongoing and completed operations. To the extent commercially available, the additional insured coverage shall be no less than that provided by Insurance Services Office, Inc. (ISO) forms CG 20 10 07 04, CG 20 37 07 04, and, with respect to the Architect and the Architect's consultants, CG 20 32 07 04. Coverage afforded the additional insureds shall not exclude claims asserted by the Construction Manager's employees. If the additional insureds have other insurance that is applicable to the loss, such other insurance will be on an excess or contingent basis and the amount of the Construction Manager's insurance company's liability under the insurance policy will not be reduced by the existence of such other insurance.

§ B.3.2 Construction Manager's Required Insurance Coverage

§ B.3.2.1 The Construction Manager shall purchase and maintain the following types and limits of insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located and having an A.M. Best financial strength rating not lower than 'A.'. The Construction Manager shall maintain the required insurance until the expiration of the period for correction of Work as set forth in Section 12.2.2 of the General Conditions, unless a different duration is stated below:

(If the Construction Manager is required to maintain insurance for a duration other than the expiration of the period for correction of Work, state the duration.)

Two (2) years after either ninety (90) days from date of substantial completion of the Work of the date of final payment, whichever is earlier.

§ B.3.2.2 Commercial General Liability

§ B.3.2.2.1 Commercial General Liability insurance for the Project written on an occurrence form with policy limits of not less than ($ 1,000,000) each occurrence, $2,000,000 job site aggregate, ($ 2,000,000) general aggregate, and ($ 2,000,000) aggregate for products-completed operations hazard, endorsed to have the job site aggregate apply to this Project only, and providing coverage for claims including

- **.1** damages because of bodily injury, sickness or disease, including occupational sickness or disease, and death of any person;
- **.2** personal injury and advertising injury ($1,000,000 minimum limits);
- **.3** damages because of physical damage to or destruction of tangible property, including the loss of use of such property;
- **.4** bodily injury or property damage arising out of completed operations; and
- **.5** the Construction Manager's indemnity obligations under Section 3.18 of the General Conditions.

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§ **B.3.2.2.2** The Construction Manager's Commercial General Liability policy under this Section B.3.2.2 shall not contain an exclusion or restriction of coverage for the following:

.1 Claims by one insured against another insured, if the exclusion or restriction is based solely on the fact that the claimant is an insured, and there would otherwise be coverage for the claim.

.2 Claims for property damage to the Construction Manager's Work arising out of the products-completed operations hazard where the damaged Work or the Work out of which the damage arises was performed by a Subcontractor.

.3 Claims for bodily injury other than to employees of the insured.

.4 Claims for indemnity under Section 3.18 of the General Conditions arising out of injury to employees of the insured.

.5 Claims or loss excluded under a prior work endorsement or other similar exclusionary language.

.6 Claims or loss due to physical damage under a prior injury endorsement or similar exclusionary language.

.7 Claims related to residential, multi-family, or other habitational projects, if the Work is to be performed on such a project.

.8 Claims related to roofing, if the Work involves roofing.

.9 Claims related to exterior insulation finish systems (EIFS), synthetic stucco or similar exterior coatings or surfaces, if the Work involves such coatings or surfaces.

.10 Claims related to earth subsidence or movement, where the Work involves such hazards.

.11 Claims related to explosion, collapse and underground hazards, where the Work involves such hazards.

§ **B.3.2.3** Automobile Liability covering vehicles owned, and non-owned vehicles used, by the Construction Manager, with policy limits of not less than ($ 1,000,000) per accident, for bodily injury, death of any person, and property damage arising out of the ownership, maintenance and use of those motor vehicles along with any other statutorily required automobile coverage.

§ **B.3.2.4** The Construction Manager may achieve the required limits and coverage for Commercial General Liability and Automobile Liability through a combination of primary and excess or umbrella liability insurance, provided such primary and excess or umbrella insurance policies result in the same or greater coverage as the coverages required under Section B.3.2.2 and B.3.2.3, and in no event shall any excess or umbrella liability insurance provide narrower coverage than the primary policy. The excess policy shall not require the exhaustion of the underlying limits only through the actual payment by the underlying insurers. The excess policy shall at a minimum be as follows: $10,000,000 over primary insurance.

§ **B.3.2.5** Workers' Compensation at statutory limits.

§ **B.3.2.6** Employers' Liability with policy limits not less than ($ 1,000,000) each accident, ($ 1,000,000) each employee, and ($ 1,000,000) policy limit.

§ **B.3.2.7** Jones Act, and the Longshore & Harbor Workers' Compensation Act, as required, if the Work involves hazards arising from work on or near navigable waterways, including vessels and docks

§ **B.3.2.8** If the Construction Manager is required to furnish professional services as part of the Work (including but not limited to any design-build or design-assist services), the Construction Manager shall procure Professional Liability insurance covering performance of the professional services, with policy limits of not less than ($ 1,000,000) per claim and ($ 2,000,000) in the aggregate.

§ **B.3.2.9** If the Work involves the transport, dissemination, use, or release of pollutants, the Construction Manager shall procure Pollution Liability insurance, with policy limits of not less than ($ 1,000,000) per claim and ($ 1,000,000) in the aggregate.

§ **B.3.2.10** Coverage under Sections B.3.2.8 and B.3.2.9 may be procured through a Combined Professional Liability and Pollution Liability insurance policy, with combined policy limits of not less than ($) per claim and ($) in the aggregate.

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§ B.3.2.11 Insurance for maritime liability risks associated with the operation of a vessel, if the Work requires such activities, with policy limits of not less than ($) per claim and ($) in the aggregate.

§ B.3.2.12 Insurance for the use or operation of manned or unmanned aircraft, if the Work requires such activities, with policy limits of not less than ($) per claim and ($) in the aggregate.

§ B.3.3 Construction Manager's Other Insurance Coverage

§ B.3.3.1 Insurance selected and described in this Section B.3.3 shall be purchased from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Construction Manager shall maintain the required insurance until the expiration of the period for correction of Work as set forth in Section 12.2.2 of the General Conditions, unless a different duration is stated below:
(If the Construction Manager is required to maintain any of the types of insurance selected below for a duration other than the expiration of the period for correction of Work, state the duration.)

Cyber Liability $500,000 occurrence and general aggregate limits.
Employee Theft/Crime Coverage of $250,000.
Pollution Liability coverage of $1,000,000.

§ B.3.3.2 The Construction Manager shall purchase and maintain the following types and limits of insurance in accordance with Section B.3.3.1.
(Select the types of insurance the Construction Manager is required to purchase and maintain by placing an X in the box(es) next to the description(s) of selected insurance. Where policy limits are provided, include the policy limit in the appropriate fill point.)

[ ] **§ B.3.3.2.1** Property insurance of the same type and scope satisfying the requirements identified in Section B.2.3, which, if selected in this Section B.3.3.2.1, relieves the Owner of the responsibility to purchase and maintain such insurance except insurance required by Section B.2.3.1.3 and Section B.2.3.3. The Construction Manager shall comply with all obligations of the Owner under Section B.2.3 except to the extent provided below. The Construction Manager shall disclose to the Owner the amount of any deductible, and the Owner shall be responsible for losses within the deductible. Upon request, the Construction Manager shall provide the Owner with a copy of the property insurance policy or policies required. The Owner shall adjust and settle the loss with the insurer and be the trustee of the proceeds of the property insurance in accordance with Article 11 of the General Conditions unless otherwise set forth below:
(Where the Construction Manager's obligation to provide property insurance differs from the Owner's obligations as described under Section B.2.3, indicate such differences in the space below. Additionally, if a party other than the Owner will be responsible for adjusting and settling a loss with the insurer and acting as the trustee of the proceeds of property insurance in accordance with Article 11 of the General Conditions, indicate the responsible party below.)

[ ] **§ B.3.3.2.2 Railroad Protective Liability Insurance,** with policy limits of not less than ($) per claim and ($) in the aggregate, for Work within fifty (50) feet of railroad property.

[ ] **§ B.3.3.2.3 Asbestos Abatement Liability Insurance,** with policy limits of not less than ($) per claim and ($) in the aggregate, for liability arising from the encapsulation, removal, handling, storage, transportation, and disposal of asbestos-containing materials.

[ ] **§ B.3.3.2.4** Insurance for physical damage to property while it is in storage and in transit to the construction site on an "all-risks" completed value form.

[ ] **§ B.3.3.2.5** Property insurance on an "all-risks" completed value form, covering property owned by the Construction Manager and used on the Project, including scaffolding and other equipment.

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[X] **§ B.3.3.2.6 Other Insurance**
(List below any other insurance coverage to be provided by the Construction Manager and any applicable limits.)

Coverage	Limits
Builder's Risk Difference of Conditions	As determined by the Construction Manager

§ B.3.3.3 Upon the Owner's request, Construction Manager shall provide a copy of the insurance policy or policies required by Section B.3.2. The copy of the policy or policies provided shall contain all applicable conditions, definitions, exclusions, and endorsements.

§ B.3.3.4 The Construction Manager shall obtain an endorsement to its Commercial General Liability policy waiving the carrier's rights to recover payments made pursuant to the policy from the additional insureds.

§ B.3.4 Performance Bond and Payment Bond
§ B.3.4.1 The Construction Manager shall furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder.

§ B.3.4.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Construction Manager shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

§ B.3.4.3 The Construction Manager shall furnish a Performance Bond and Labor and Material Payment Bond to the Owner. The Construction Manager shall use as a surety for the Performance Bond and Labor and Material Payment Bond one of the acceptable companies listed in "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reimbursing Companies", Department Circular 570, latest revision, Department of the Treasury. The Construction Manager shall use a surety company that can underwrite the entire amount of the Performance Bond and Labor and Material Payment Bond. Underwriting limitations for the acceptable companies are also contained in Circular 570. Said Performance Bond and Labor and Material Payment Bond shall be in amount at least equal to 100% of the Contract Price as security for: (1) the faithful performance of all provisions of the Contract and satisfactory completion of the work included thereunder; (2) the payment of all persons performing labor and furnishing materials in connection with the Contract; (3) the covering of all guarantees and warranties included herein; and (4) In addition to 1, 2, and 3 above, this Bond shall guarantee the Owner that all workmanship and materials performed and furnished as part of this Contract are in accordance with the Contract Documents and that the Construction Manager shall correct all defects due to faulty workmanship or materials.

§ B.3.4.4 The Performance Bond and Labor and Material Payment Bond shall be AIA Document A312 entitled 'Performance Bond' and Payment Bond', shall be executed by an acceptable surety company licensed to do business in the State of Indiana, and must state that it is for the benefit of the Subcontractors, laborers, material suppliers and those performing services as part of the Work.
(Table deleted)
§ B.3.4.5 The Performance Bond and Labor and Material Payment Bond must specify that: (1) a modification, omission, or addition to the terms and conditions of the Contract, Drawings, or Specifications; (2) a defect in the Contract; or (3) a defect in the proceedings preliminary to the letting and awarding of the Contract; does not discharge the surety.

ARTICLE B.4 SPECIAL TERMS AND CONDITIONS

Special terms and conditions that modify this Insurance and Bonds Exhibit, if any, are as follows:

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SECTION 01 32 00 - SCHEDULES AND REPORTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. The Work of this Section shall be included as a part of the Contract Documents of each Contractor on this Project. Where such Work applies to only one Contractor, it shall be defined as to which Contractor the Work belongs.

1.02 SUMMARY

A. This Section includes administrative and procedural requirements for schedules and reports required for proper performance of the Work, including:
   1. Construction schedule
   2. Submittal schedule
   3. Use of site plan

1.03 GUIDELINE SCHEDULE

A. A guideline schedule is forthcoming by Addendum showing milestone activities for the Project, as well as anticipated completion date.
   1. Prior to bidding Project, Contractor shall review the guideline schedule to determine if the intent of the schedule can be met.
   2. The guideline schedule is to be used for bidding reference only; however, the indicated completion date of all Work of the Project must be accomplished by all Contractors.
   3. June 1, 2026 – *May 28, 2028.*

1.04 CONSTRUCTION SCHEDULES

A. Within 15 days of the Pre-construction Meeting, each Contractor is to assemble all necessary information and dates concerning his activities, and those of his Subcontractors and Suppliers and submit such information in the form required by the Construction Manager. Each Contractor shall submit the following schedule information to the Construction Manager as a minimum:
   1. A bar chart schedule of all activities contained in the Contractor's Scope of Work. This schedule shall include activity descriptions and durations for all activities in workdays (as opposed to calendar day) for shop drawings, fabrication, delivery and installation of products, materials, and equipment. The activities on the schedule must be at a level of detail approved by the Construction Manager and agree with the terminology and building sequencing established by the Construction Manager.
   2. Identification of precedent relationships between the Contractor's activities and those of other Contractors based on a thorough review of the Contract Drawings and details showing interface between Contracts.

3. Graphic diagrams indicating the proposed direction of work whenever applicable or if requested by the Construction Manager.
4. Assumed crew size, equipment, production rates, and similar data used to arrive at adequate durations and sequences.
5. If a Contractor cannot provide a complete schedule of all of his activities within 15 days after Pre-construction Meeting, the Contractor may, after Construction Manager's written approval, provide a work plan for the first 60 days after award. The Contractor's final schedule shall be complete and submitted to the Construction Manager prior to the 45th day after the Pre-construction Meeting.

B. In collaboration with the various Contractors associated with the Work, the Construction Manager will compile all Contractor schedules and develop a project master construction schedule, which integrates activities of Architect, Construction Manager, Contractors, Subcontractors, and Suppliers and meets the time requirements. The sequence of all work activities shall be determined by the Construction Manager and reviewed by all Contractors. This schedule will become the project plan for construction.

C. Contractors' schedule activities may be re-sequenced and the schedule adjusted provided all Work is completed within the stated milestone dates and if the Construction Manager and affected Contractors are notified of the change within 5 calendar days of receipt of the schedule; otherwise, the project master construction schedule shall be deemed accepted by all parties and becomes a contractual requirement for each Contractor.

D. The project construction schedule will be provided by the Construction Manager, consistent with the guideline schedule and utilizing the Contractors' construction schedules provided by the separate Contractors.
1. Contractor shall provide the Construction Manager with information and data to prepare a working day construction schedule and sequence of events for each work activity included in his bid category within 15 days after the Pre-construction Meeting. The Contractor shall cooperate with the Construction Manager in establishing a final overall project schedule which meets the specified completion date.
2. After the project schedule has been established, Contractors shall work overtime, nights, and weekends, if necessary, to maintain their portion of the schedule.
    a. Overtime, night and weekend work will be at no additional cost to the Owner.
    b. Failure of the Contractor to maintain his portion of the schedule will be grounds for the Owner to withhold all or part of any payments which may become due to the Contractor for work completed.
3. The Contractor is responsible to expedite all approvals and deliveries of material so as not to delay job progress.
4. The Contractor shall begin all phases of his work as quickly as physically possible, but not to impede or jeopardize the work of other Contractors.

5. Phases of the work may be started prior to the scheduled start dates if coordinated with other Contractors, and, if approved through the Construction Manager.
6. The Contractor shall cooperate fully with the Construction Manager in the coordination of the work with all other Contractors and the convenience of the Owner as indicated in the Specifications.

E. Each Contractor's work shall be executed at such a rate as to ensure meeting the specified milestone dates for Substantial Completion. By execution of the Contract, a Contractor represents he has analyzed the Work, the materials and methods involved, the systems of the building, availability of qualified mechanics and unskilled labor, restrictions of the site, constraints imposed, his own work load and capacity to perform the Work and agrees that the specified dates are reasonable considering the existing conditions prevailing in the locality of the Work, including weather conditions, and other factors, with reasonable allowance for variations from average or ideal conditions.

F. The Construction Manager will utilize the project master construction schedule to plan, coordinate, and manage all construction activities of Contractors, Subcontractors, and Suppliers. All Contractors are to complete all Work in accordance with this schedule.

G. The Construction Manager will hold periodic progress meetings at the jobsite. Field supervisors from each Contractor working on the site are to attend all such meetings. Each Contractor is to provide services of responsible personnel to provide necessary scheduling and manpower information. Each Contractor shall be responsible to be familiar with the schedule, how it will affect or modify his operations including his coordination with the activities of other Contractors. Each Contractor shall prepare a short interval schedule generally covering a two-week period to coordinate with the activities of other Contractors. Each Contractor shall prepare a short interval schedule generally covering a two-week period to coordinate the detailed activities of subcontractors and suppliers. The short interval schedules shall be prepared on The Skillman Corporations' Look Ahead form at the end of this Section and be **submitted 24 hours prior to the job progress meetings**, or as required by the Construction Manager. The Construction Manager will update the project master construction schedule monthly and display the current schedule at the jobsite and prepare progress reports accordingly.

H. Whenever it becomes apparent that any activity completion date may not be met, the responsible Contractor(s) are to take some or all of the following actions at no additional cost to the Owner or Construction Manager.

1. Increase construction manpower to put the project back on schedule.
2. Increase number of working hours per shift, shifts per working day, working days per week, amount of construction equipment, or any combination, which will place the project back on schedule.
3. Reschedule activities to achieve maximum practical concurrency and place the project back on schedule.

I. If the Contractor fails to take any of the above actions, Owner or Construction Manager may take action to attempt to put the project back on schedule and deduct cost of such actions from monies due or to become due the Contractor in accordance with Subparagraph 2.4.1. of the amended General Conditions.

J. The Construction Manager will manage the project and will make every effort to complete the project within the schedule. Time extensions may be granted to various Contractors when delays that affect final completion date have been caused by inability of another Contractor to meet his time commitments; however, neither Owner nor Construction Manager will assume responsibility to any Contractor for compensation, damages, or other costs due to delays.

1.05 LIST OF SUBCONTRACTORS, SUPPLIERS, AND MANUFACTURERS

A. Each Contractor shall submit, through the Construction Manager, a list of subcontractors and manufacturer's participating on this Project. List shall be submitted within 48 hours after receipt of bids. The list shall be complete with names, street addresses, city, state, and zip code.

1.06 SUBMITTAL SCHEDULE

A. Within 15 days of the Pre-Construction Meeting, each Contractor shall submit their schedule of submittals.
1. Coordinate Submittal Schedule with the list of subcontracts, Schedule of Values, and the list of products as well as the Construction Schedule.
2. The contractor shall provide the following information:
   a. Scheduled date for the first submittal (due date).
   b. Name of the Subcontractor (under comments).
   c. Fabrication time.

B. Distribution: Following response to the initial submittal, print and distribute copies to the Construction Manager, Architect, Owner, subcontractors, and other parties required to comply with submittal dates indicated.
1. When revisions are made, distribute to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in construction activities.

C. Schedule Updating: Revise the schedule after each meeting or activity where revisions have been recognized or made. Issue the updated schedule concurrently with the report of each meeting.

1.07 PROJECT USE SITE PLAN

A. The Construction Manager, in cooperation with other Contractors on this Project, shall prepare a proposed project use site plan.

B. Contractor shall confine operations at the site to areas within the areas indicated and as approved on the use of the site plan, and as permitted by law, ordinances, and permits. Site shall not be unreasonably encumbered with materials, products, or construction equipment.

C. The Construction Manager in reviewing his use of the site shall include access to proposed building for construction purposes, storage of materials and products, parking, where possible, for employees, temporary facilities including offices, storage, and workshop sheds or portable trailers, and unloading space.

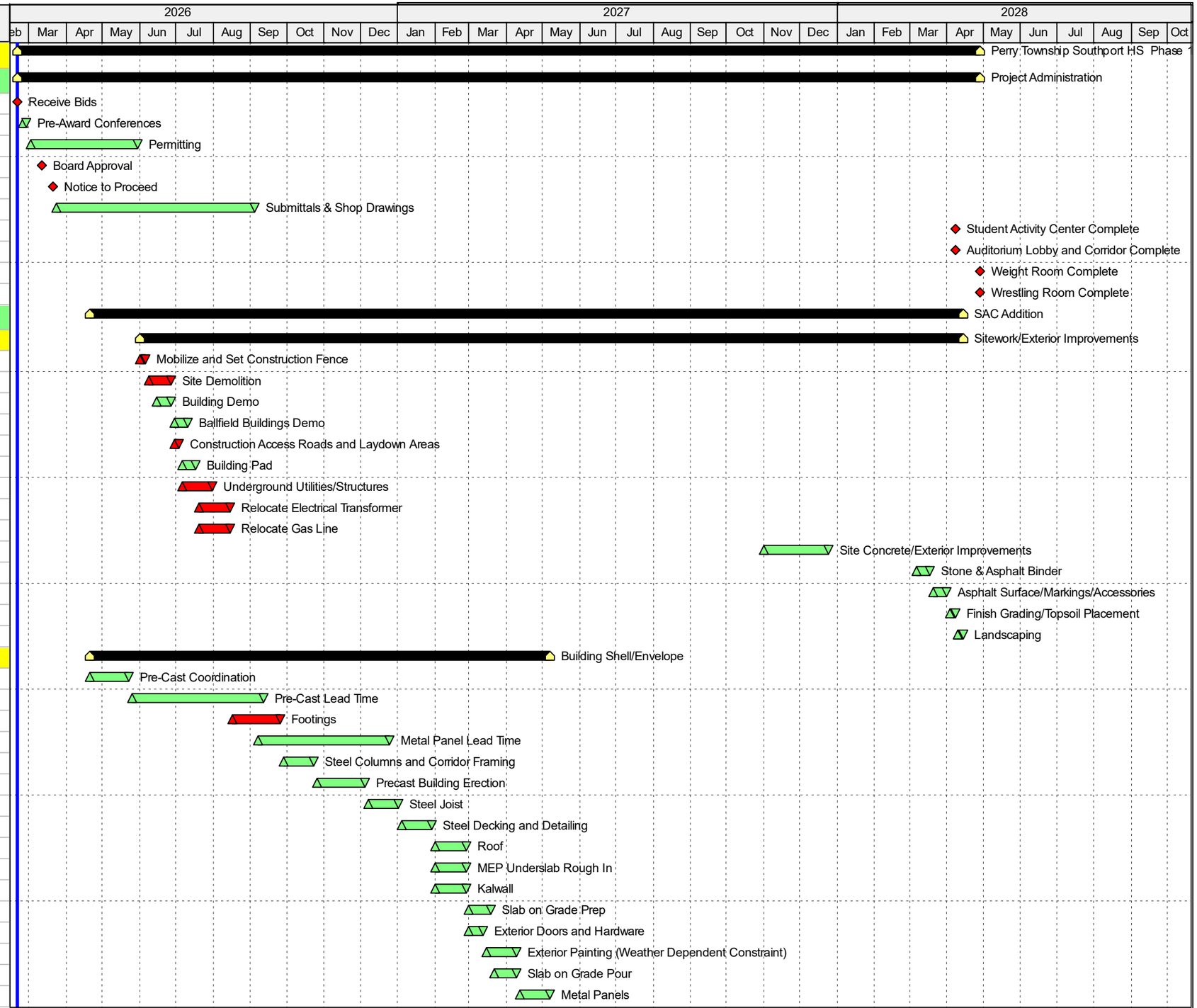
D. Where a temporary fence is to be provided, the Construction Manager shall show any additional area needed in the Contractor's use of the site beyond that which may be indicated on the Drawings.

E. The Construction Manager will indicate to the other Contractors after award of Contract which portions of the existing parking lot and nonpaved areas can be used for construction activities. Damage to existing parking lot or unpaved areas shall be paid for by the Contractor responsible for damage.

PART 2 - PRODUCTS, PART 3 - EXECUTION (Not Used)

END OF SECTION 01 32 00

Activity Name	Original Duration	Start	Finish
Perry Township Southport HS Phase 1 - S	572	19-Feb-26	28-Apr-28
Project Administration	572	19-Feb-26	28-Apr-28
Receive Bids	0	19-Feb-26*	
Pre-Award Conferences	3	24-Feb-26*	26-Feb-26
Permitting	90	02-Mar-26*	30-May-26
Board Approval	0	11-Mar-26*	
Notice to Proceed	0		20-Mar-26*
Submittals & Shop Drawings	120	23-Mar-26*	04-Sep-26
Student Activity Center Complete	0		07-Apr-28
Auditorium Lobby and Corridor Complete	0		07-Apr-28
Weight Room Complete	0		28-Apr-28
Wrestling Room Complete	0		28-Apr-28
SAC Addition	520	20-Apr-26	14-Apr-28
Sitework/Exterior Improvements	490	01-Jun-26	14-Apr-28
Mobilize and Set Construction Fence	5	01-Jun-26*	05-Jun-26
Site Demolition	15	08-Jun-26	26-Jun-26
Building Demo	10	15-Jun-26	26-Jun-26
Ballfield Buildings Demo	10	29-Jun-26	10-Jul-26
Construction Access Roads and Laydown Areas	5	29-Jun-26	03-Jul-26
Building Pad	10	06-Jul-26	17-Jul-26
Underground Utilities/Structures	20	06-Jul-26	31-Jul-26
Relocate Electrical Transformer	20	20-Jul-26	14-Aug-26
Relocate Gas Line	20	20-Jul-26	14-Aug-26
Site Concrete/Exterior Improvements	40	01-Nov-27*	24-Dec-27
Stone & Asphalt Binder	10	06-Mar-28*	17-Mar-28
Asphalt Surface/Markings/Accessories	10	20-Mar-28	31-Mar-28
Finish Grading/Topsoil Placement	5	03-Apr-28	07-Apr-28
Landscaping	5	10-Apr-28	14-Apr-28
Building Shell/Envelope	275	20-Apr-26	07-May-27
Pre-Cast Coordination	25	20-Apr-26*	22-May-26
Pre-Cast Lead Time	80	25-May-26	11-Sep-26
Footings	30	17-Aug-26	25-Sep-26
Metal Panel Lead Time	80	07-Sep-26	25-Dec-26
Steel Columns and Corridor Framing	20	28-Sep-26	23-Oct-26
Precast Building Erection	30	26-Oct-26	04-Dec-26
Steel Joist	20	07-Dec-26	01-Jan-27
Steel Decking and Detailing	20	04-Jan-27	29-Jan-27
Roof	20	01-Feb-27	26-Feb-27
MEP Underslab Rough In	20	01-Feb-27	26-Feb-27
Kalwall	20	01-Feb-27	26-Feb-27
Slab on Grade Prep	15	01-Mar-27	19-Mar-27
Exterior Doors and Hardware	10	01-Mar-27	12-Mar-27
Exterior Painting (Weather Dependent Constraint)	20	15-Mar-27*	09-Apr-27
Slab on Grade Pour	15	22-Mar-27	09-Apr-27
Metal Panels	20	12-Apr-27	07-May-27

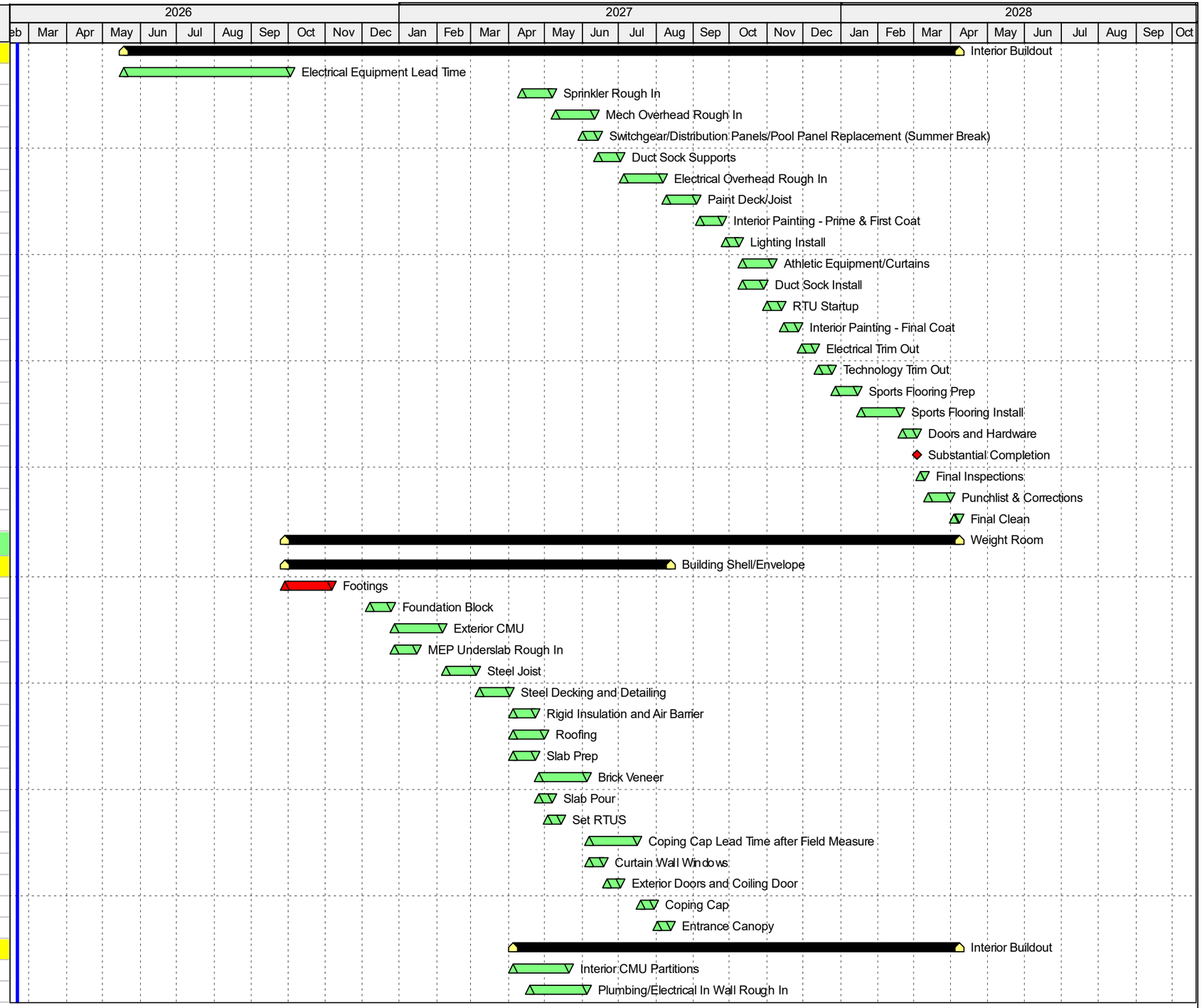


Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Perry Township Southport HS Phase 1 - SAC - 224730
Guideline Schedule - February 2, 2026

The SKILLMAN Corporation
AN EMPLOYEE-OWNED COMPANY

Activity Name	Original Duration	Start	Finish
Interior Buildout	495	18-May-26	07-Apr-28
Electrical Equipment Lead Time	100	18-May-26*	02-Oct-26
Sprinkler Rough In	20	12-Apr-27	07-May-27
Mech Overhead Rough In	25	10-May-27	11-Jun-27
Switchgear/Distribution Panels/Pool Panel Replacemen	10	01-Jun-27*	14-Jun-27
Duct Sock Supports	15	14-Jun-27	02-Jul-27
Electrical Overhead Rough In	25	05-Jul-27	06-Aug-27
Paint Deck/Joist	20	09-Aug-27	03-Sep-27
Interior Painting - Prime & First Coat	15	06-Sep-27	24-Sep-27
Lighting Install	10	27-Sep-27	08-Oct-27
Athletic Equipment/Curtains	20	11-Oct-27	05-Nov-27
Duct Sock Install	15	11-Oct-27	29-Oct-27
RTU Startup	10	01-Nov-27	12-Nov-27
Interior Painting - Final Coat	10	15-Nov-27	26-Nov-27
Electrical Trim Out	10	29-Nov-27	10-Dec-27
Technology Trim Out	10	13-Dec-27	24-Dec-27
Sports Flooring Prep	15	27-Dec-27	14-Jan-28
Sports Flooring Install	25	17-Jan-28	18-Feb-28
Doors and Hardware	10	21-Feb-28	03-Mar-28
Substantial Completion	0		03-Mar-28
Final Inspections	5	06-Mar-28	10-Mar-28
Punchlist & Corrections	15	13-Mar-28	31-Mar-28
Final Clean	5	03-Apr-28	07-Apr-28
Weight Room	400	28-Sep-26	07-Apr-28
Building Shell/Envelope	230	28-Sep-26	13-Aug-27
Footings	30	28-Sep-26	06-Nov-26
Foundation Block	15	07-Dec-26	25-Dec-26
Exterior CMU	30	28-Dec-26	05-Feb-27
MEP Underslab Rough In	15	28-Dec-26	15-Jan-27
Steel Joist	20	08-Feb-27	05-Mar-27
Steel Decking and Detailing	20	08-Mar-27	02-Apr-27
Rigid Insulation and Air Barrier	15	05-Apr-27	23-Apr-27
Roofing	20	05-Apr-27	30-Apr-27
Slab Prep	15	05-Apr-27	23-Apr-27
Brick Veneer	30	26-Apr-27	04-Jun-27
Slab Pour	10	26-Apr-27	07-May-27
Set RTUS	10	03-May-27	14-May-27
Coping Cap Lead Time after Field Measure	30	07-Jun-27	16-Jul-27
Curtain Wall Windows	10	07-Jun-27	18-Jun-27
Exterior Doors and Coiling Door	10	21-Jun-27	02-Jul-27
Coping Cap	10	19-Jul-27	30-Jul-27
Entrance Canopy	10	02-Aug-27	13-Aug-27
Interior Buildout	265	05-Apr-27	07-Apr-28
Interior CMU Partitions	35	05-Apr-27	21-May-27
Plumbing/Electrical In Wall Rough In	35	19-Apr-27	04-Jun-27

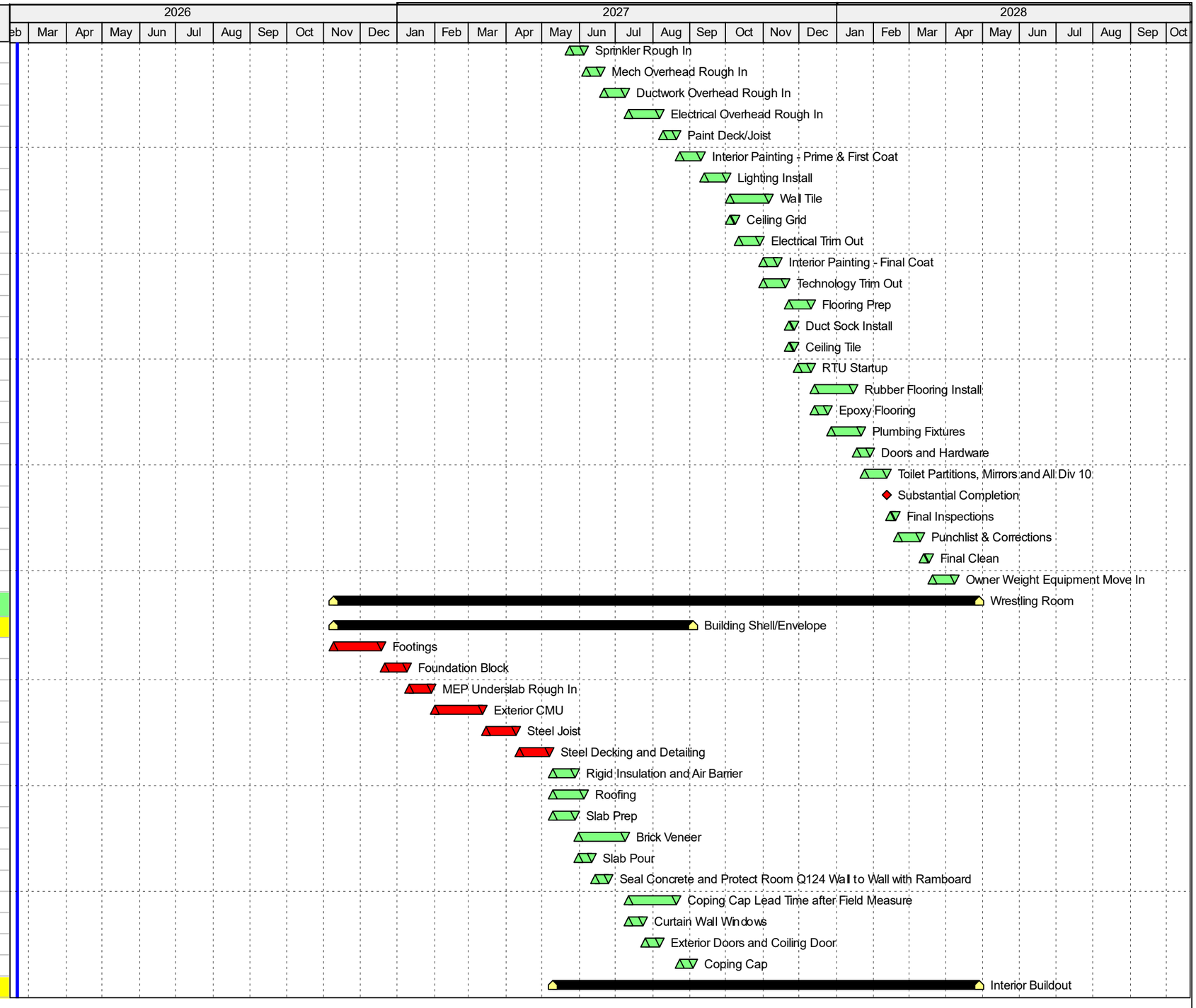


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The SKILLMAN Corporation
AN EMPLOYEE-OWNED COMPANY

Activity Name	Original Duration	Start	Finish
Sprinkler Rough In	10	24-May-27	04-Jun-27
Mech Overhead Rough In	10	07-Jun-27	18-Jun-27
Ductwork Overhead Rough In	15	21-Jun-27	09-Jul-27
Electrical Overhead Rough In	20	12-Jul-27	06-Aug-27
Paint Deck/Joist	10	09-Aug-27	20-Aug-27
Interior Painting - Prime & First Coat	15	23-Aug-27	10-Sep-27
Lighting Install	15	13-Sep-27	01-Oct-27
Wall Tile	25	04-Oct-27	05-Nov-27
Ceiling Grid	5	04-Oct-27	08-Oct-27
Electrical Trim Out	15	11-Oct-27	29-Oct-27
Interior Painting - Final Coat	10	01-Nov-27	12-Nov-27
Technology Trim Out	15	01-Nov-27	19-Nov-27
Flooring Prep	15	22-Nov-27	10-Dec-27
Duct Sock Install	5	22-Nov-27	26-Nov-27
Ceiling Tile	5	22-Nov-27	26-Nov-27
RTU Startup	10	29-Nov-27	10-Dec-27
Rubber Flooring Install	25	13-Dec-27	14-Jan-28
Epoxy Flooring	10	13-Dec-27	24-Dec-27
Plumbing Fixtures	20	27-Dec-27	21-Jan-28
Doors and Hardware	10	17-Jan-28	28-Jan-28
Toilet Partitions, Mirrors and All Div 10	15	24-Jan-28	11-Feb-28
Substantial Completion	0		11-Feb-28
Final Inspections	5	14-Feb-28	18-Feb-28
Punchlist & Corrections	15	21-Feb-28	10-Mar-28
Final Clean	5	13-Mar-28	17-Mar-28
Owner Weight Equipment Move In	15	20-Mar-28	07-Apr-28
Wrestling Room	385	09-Nov-26	28-Apr-28
Building Shell/Envelope	215	09-Nov-26	03-Sep-27
Footings	30	09-Nov-26	18-Dec-26
Foundation Block	15	21-Dec-26	08-Jan-27
MEP Underslab Rough In	15	11-Jan-27	29-Jan-27
Exterior CMU	30	01-Feb-27	12-Mar-27
Steel Joist	20	15-Mar-27	09-Apr-27
Steel Decking and Detailing	20	12-Apr-27	07-May-27
Rigid Insulation and Air Barrier	15	10-May-27	28-May-27
Roofing	20	10-May-27	04-Jun-27
Slab Prep	15	10-May-27	28-May-27
Brick Veneer	30	31-May-27	09-Jul-27
Slab Pour	10	31-May-27	11-Jun-27
Seal Concrete and Protect Room Q124 Wall to Wall with	10	14-Jun-27	25-Jun-27
Coping Cap Lead Time after Field Measure	30	12-Jul-27	20-Aug-27
Curtain Wall Windows	10	12-Jul-27	23-Jul-27
Exterior Doors and Coiling Door	10	26-Jul-27	06-Aug-27
Coping Cap	10	23-Aug-27	03-Sep-27
Interior Buildout	255	10-May-27	28-Apr-28

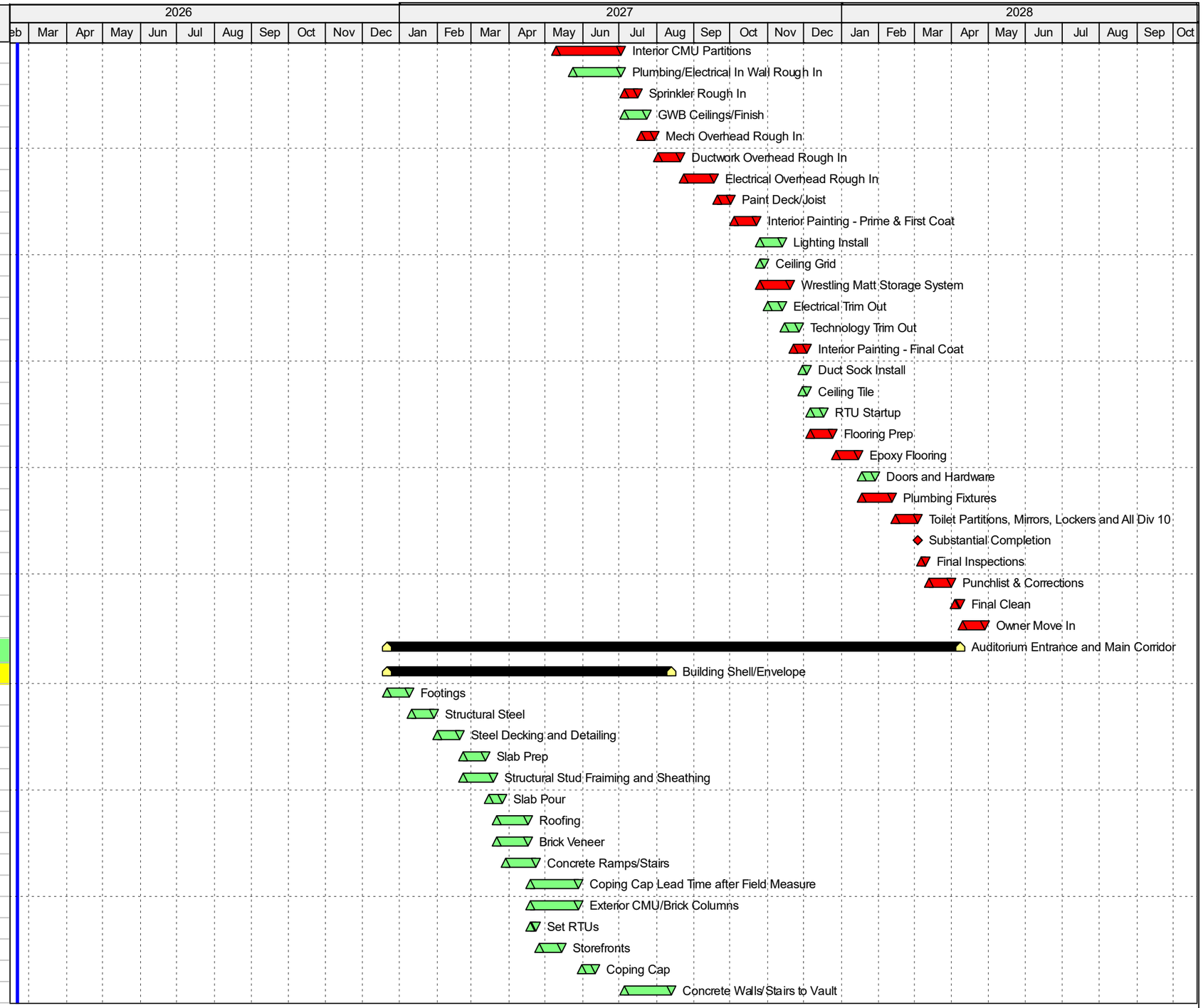


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Activity Name	Original Duration	Start	Finish
Interior CMU Partitions	40	10-May-27	02-Jul-27
Plumbing/Electrical In Wall Rough In	30	24-May-27	02-Jul-27
Sprinkler Rough In	10	05-Jul-27	16-Jul-27
GWB Ceilings/Finish	15	05-Jul-27	23-Jul-27
Mech Overhead Rough In	10	19-Jul-27	30-Jul-27
Ductwork Overhead Rough In	15	02-Aug-27	20-Aug-27
Electrical Overhead Rough In	20	23-Aug-27	17-Sep-27
Paint Deck/Joist	10	20-Sep-27	01-Oct-27
Interior Painting - Prime & First Coat	15	04-Oct-27	22-Oct-27
Lighting Install	15	25-Oct-27	12-Nov-27
Ceiling Grid	5	25-Oct-27	29-Oct-27
Wrestling Matt Storage System	20	25-Oct-27	19-Nov-27
Electrical Trim Out	10	01-Nov-27	12-Nov-27
Technology Trim Out	10	15-Nov-27	26-Nov-27
Interior Painting - Final Coat	10	22-Nov-27	03-Dec-27
Duct Sock Install	5	29-Nov-27	03-Dec-27
Ceiling Tile	5	29-Nov-27	03-Dec-27
RTU Startup	10	06-Dec-27	17-Dec-27
Flooring Prep	15	06-Dec-27	24-Dec-27
Epoxy Flooring	15	27-Dec-27	14-Jan-28
Doors and Hardware	10	17-Jan-28	28-Jan-28
Plumbing Fixtures	20	17-Jan-28	11-Feb-28
Toilet Partitions, Mirrors, Lockers and All Div 10	15	14-Feb-28	03-Mar-28
Substantial Completion	0		03-Mar-28
Final Inspections	5	06-Mar-28	10-Mar-28
Punchlist & Corrections	15	13-Mar-28	31-Mar-28
Final Clean	5	03-Apr-28	07-Apr-28
Owner Move In	15	10-Apr-28	28-Apr-28
Auditorium Entrance and Main Corridor	340	21-Dec-26	07-Apr-28
Building Shell/Envelope	170	21-Dec-26	13-Aug-27
Footings	15	21-Dec-26	08-Jan-27
Structural Steel	15	11-Jan-27	29-Jan-27
Steel Decking and Detailing	15	01-Feb-27	19-Feb-27
Slab Prep	15	22-Feb-27	12-Mar-27
Structural Stud Fraiming and Sheathing	20	22-Feb-27	19-Mar-27
Slab Pour	10	15-Mar-27	26-Mar-27
Roofing	20	22-Mar-27	16-Apr-27
Brick Veneer	20	22-Mar-27	16-Apr-27
Concrete Ramps/Stairs	20	29-Mar-27	23-Apr-27
Coping Cap Lead Time after Field Measure	30	19-Apr-27	28-May-27
Exterior CMU/Brick Columns	30	19-Apr-27	28-May-27
Set RTUs	5	19-Apr-27	23-Apr-27
Storefronts	15	26-Apr-27	14-May-27
Coping Cap	10	31-May-27	11-Jun-27
Concrete Walls/Stairs to Vault	30	05-Jul-27	13-Aug-27

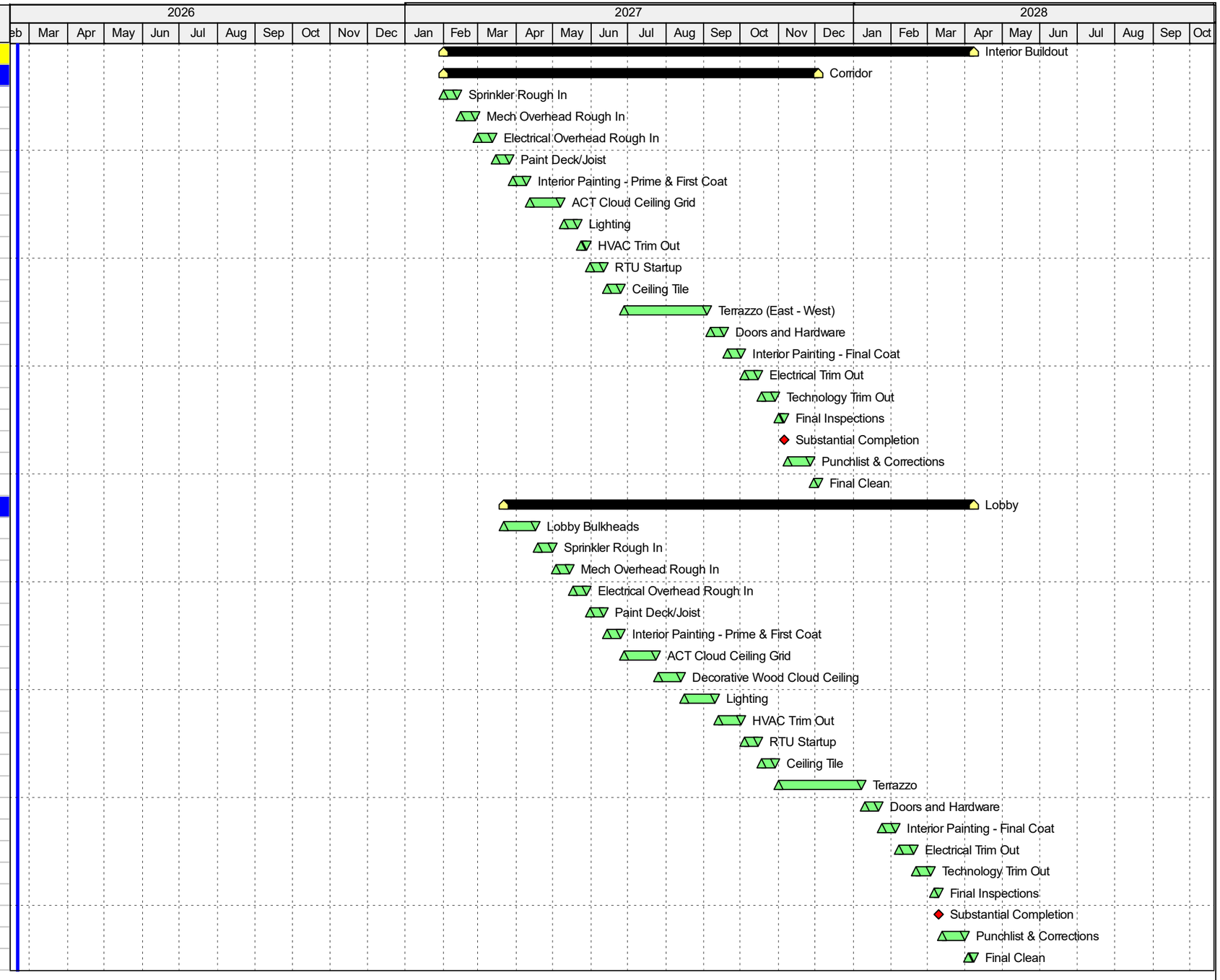


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The SKILLMAN Corporation
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Activity Name	Original Duration	Start	Finish
Interior Buildout	310	01-Feb-27	07-Apr-28
Corridor	220	01-Feb-27	03-Dec-27
Sprinkler Rough In	10	01-Feb-27	12-Feb-27
Mech Overhead Rough In	10	15-Feb-27	26-Feb-27
Electrical Overhead Rough In	10	01-Mar-27	12-Mar-27
Paint Deck/Joist	10	15-Mar-27	26-Mar-27
Interior Painting - Prime & First Coat	10	29-Mar-27	09-Apr-27
ACT Cloud Ceiling Grid	20	12-Apr-27	07-May-27
Lighting	10	10-May-27	21-May-27
HVAC Trim Out	5	24-May-27	28-May-27
RTU Startup	10	31-May-27	11-Jun-27
Ceiling Tile	10	14-Jun-27	25-Jun-27
Terrazzo (East - West)	50	28-Jun-27	03-Sep-27
Doors and Hardware	10	06-Sep-27	17-Sep-27
Interior Painting - Final Coat	10	20-Sep-27	01-Oct-27
Electrical Trim Out	10	04-Oct-27	15-Oct-27
Technology Trim Out	10	18-Oct-27	29-Oct-27
Final Inspections	5	01-Nov-27	05-Nov-27
Substantial Completion	0		05-Nov-27
Punchlist & Corrections	15	08-Nov-27	26-Nov-27
Final Clean	5	29-Nov-27	03-Dec-27
Lobby	275	22-Mar-27	07-Apr-28
Lobby Bulkheads	20	22-Mar-27	16-Apr-27
Sprinkler Rough In	10	19-Apr-27	30-Apr-27
Mech Overhead Rough In	10	03-May-27	14-May-27
Electrical Overhead Rough In	10	17-May-27	28-May-27
Paint Deck/Joist	10	31-May-27	11-Jun-27
Interior Painting - Prime & First Coat	10	14-Jun-27	25-Jun-27
ACT Cloud Ceiling Grid	20	28-Jun-27	23-Jul-27
Decorative Wood Cloud Ceiling	15	26-Jul-27	13-Aug-27
Lighting	20	16-Aug-27	10-Sep-27
HVAC Trim Out	15	13-Sep-27	01-Oct-27
RTU Startup	10	04-Oct-27	15-Oct-27
Ceiling Tile	10	18-Oct-27	29-Oct-27
Terrazzo	50	01-Nov-27	07-Jan-28
Doors and Hardware	10	10-Jan-28	21-Jan-28
Interior Painting - Final Coat	10	24-Jan-28	04-Feb-28
Electrical Trim Out	10	07-Feb-28	18-Feb-28
Technology Trim Out	10	21-Feb-28	03-Mar-28
Final Inspections	5	06-Mar-28	10-Mar-28
Substantial Completion	0		10-Mar-28
Punchlist & Corrections	15	13-Mar-28	31-Mar-28
Final Clean	5	03-Apr-28	07-Apr-28



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ADDENDUM NO. ONE

PROJECT:	**Perry Twp Schools: Southport High School, Phase 1**
PROJECT NUMBER:	**24173S**
DATE OF ADDENDUM:	**January 30, 2026**



THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND IS ISSUED IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING THE ADDENDUM ACKNOWLEDGMENT SECTION OF THE BID FORM.

QUESTIONS & ANSWERS:

1. Q: SF9 spans 2 floors. It needs to be curtain wall.
    a. A: LA/BZ: There is a structural tube -- behind the noted the spandrel panel to allow for storefront. A 6 1/2" profile is acceptable. See sheet A611.

2. Q: Window A and B cannot be 4 ½” storefront. It will need to be 6 ½” storefront
    a. A: LA/BZ: 6 1/2" deep profile is a acceptable. See sheet A611.

3. Q: SF13 is too tall. It also needs to be 6 ½” storefront.
    a. A: LA/BZ: 6 1/2" deep profile is a acceptable. See sheet A611.

4. Q: Sunshade clarification.
    a. A: LA/BZ: Intent is the sunshade to be integral to the window frame. Sunshade from AGS or Kawneer with a depth of 18” +/- is intent . Additional clarification to follow in addendum #02.

ADDITIONAL APPROVED MANUFACTURERS:

1. Section 07 42 13 Flat Metal Wall Panel
    a. Manufacturer: Add Alcotex as an acceptable manufacturer to paragraph 2.1 of section 07 42 13.
2. Section 11 66 23.56
    a. Manufacturer: Add Performance Sports to paragraph 2.2A of section 11 66 23.56.

SPECIFICATIONS:

1. Spec Section: 02 46 00
   Spec Title: Helical Piles

   Change: Add Section, complete, to the Specification Book.

2. Spec Section: 08 9100
   Spec Title: Louvers

   Change: Add Section, complete, to the Specification Book.

3. Spec Section: 27 15 43
   Spec Title: COMMUNICATIONS FACEPLATES AND CONNECTORS

   Change: Revised subsection verbiage
    - 2.2.C
    - 2.2.E
    - 2.2.F

4. Spec Section: 33 05 00
   Spec Title: Common Work Results for Utilities.

   Change: Add Section, complete, to the Specification Book.

5. Spec Section: 33 31 00
   Spec Title: Sanitary Sewers

   Change: Add Section, complete, to the Specification Book.

DRAWINGS:

1. Drawing Sheet Number: C-6.4
   Drawing Sheet Title: Site Plan

   Change:
   - Modify site plan for clarification at east and south entry of addition.

2. Drawing Sheet Number: C-7.4
   Drawing Sheet Title: Grading Plan

   Change:
   - Modify site grading at the south entry and egress ramp.

3. Drawing Sheet Number: C-8.4
   Drawing Sheet Title: Storm Layout Plan

   Change:
   - Add connection of fieldhouse downspouts to the storm sewer.

4. Drawing Sheet Number: C-8.6
   Drawing Sheet Title: Strom Layout Plan

   Change:
   - Modify information on the table.
     - Inverts
     - Northing and Easting.

5. Drawing Sheet Number: C-8.9
   Drawing Sheet Title: Phase 1 Strom Profiles

   Change:
   - Modify information on the profiles
     - Inverts

6. Drawing Sheet Number: C-8.10
   Drawing Sheet Title: Phase 1 Strom Profiles

   Change:
   - Modify information on the profiles
     - Inverts
7. Drawing Sheet Number: C-8.16
   Drawing Sheet Title: Storm Details

Change:

- Add detail for underground downspout connection.

8. Drawing Sheet Number: C-9.4
   Drawing Sheet Title: Utility Plan

   Change:
   - Modify utility routes

9. Drawing Sheet Number: C-9.5
   Drawing Sheet Title: Utility Plan
   Change:
   - Modify sanitary route to pump.

10. Drawing Sheet Number: S001
    Drawing Sheet Title: GENERAL NOTES & ABBREVIATIONS

    Change: Updated General notes.
    - Updated request shop drawing submittals.
    - Clarified proctor designation to Modified to match ASTM.

11. Drawing Sheet Number: SD101Q
    Drawing Sheet Title: UNIT Q DEMO PLAN

    Change: Updated plan notes.
    - Added plan notes regarding vault lid.

12. Drawing Sheet Number: S100
    Drawing Sheet Title: PHASE 1 – OVERALL FOUNDATION PLAN

    Change: Updated plan.
    - Added partial plan for retaining wall.

13. Drawing Sheet Number: S101R
    Drawing Sheet Title: UNIT R FOUNDATION PLAN

    Change: Updated plan dims.
    - Added plan dims at east entry.

14. Drawing Sheet Number: S110
    Drawing Sheet Title: PHASE 1 – OVERALL ROOF FRAMING PLAN

    Change: Updated plan.
    - Added plan for retaining wall at southwest entry.

15. Drawing Sheet Number: S201
    Drawing Sheet Title: FRAMING ELEVATIONS

    Change: Updated 3/S201.
    - Adjusted elevation marker.

16. Drawing Sheet Number: S300
    Drawing Sheet Title: BUILDING SECTIONS

    Change: Updated 1/S300.
    - Clarified entrance foundation.

17. Drawing Sheet Number: S400
    Drawing Sheet Title: ENLARGED FOUNDATION PLANS

    Change: Updated Plan Notes.
    - Adjusted Key Note Schedule.

18. Drawing Sheet Number: S410
    Drawing Sheet Title: ENLARGED FRAMING PLANS

    Change: Updated 1/S410.
    - Adjusted EOD dim.

19. Drawing Sheet Number: S501
    Drawing Sheet Title: FOUNDATION SECTIONS

    Change: Updated 1/S501.
    - Adjusted elevation marker.

20. Drawing Sheet Number: S512
    Drawing Sheet Title: FOUNDATION SCHEDULES, SECTIONS & DETAILS

    Change: Updated details, 1, 4, and 5.
    - Added dim to 5/S512.
    - Added SOG compacted fill.
    - Added thickened slab.

21. Drawing Sheet Number: S541
    Drawing Sheet Title: FRAMING SCHEDULES, SECTIONS & DETAILS

    Change: Updated details, 10, 11, 12, and 13.
    - Adjusted deck closure on 10/S541.
    - Added stiffener on 11/S541.
    - Added notes to 12/S541.
    - Added note for 13/S541.

22. Drawing Sheet Number: S542
    Drawing Sheet Title: FRAMING SCHEDULES, SECTIONS & DETAILS

    Change: Updated details, 2 and 5.
    - Added notes to 2/S542.
    - Added notes to 5/S542.

23. Drawing Sheet Number: S544
    Drawing Sheet Title: FRAMING SCHEDULES, SECTIONS & DETAILS

    Change: Updated details, 1 through 8.
    - Added notes to the details.

24. Drawing Sheet Number: S542
    Drawing Sheet Title: FRAMING SCHEDULES, SECTIONS & DETAILS

    Change: Updated details, 1 through 8.
    - Added notes to 2/S542.
    - Added notes to 5/S542.

25. Drawing Sheet Number: A101Q
    Drawing Sheet Title: FLOOR PLAN – FIRST FLOOR – UNIT Q

    Change:
    - Modify location of site retaining wall that parallel south entry
    - Modify egress ramp.

26. Drawing Sheet Number: A101R
    Drawing Sheet Title: FLOOR PLAN – FIRST FLOOR – UNIT R

    Change:
    - Modify location of plan notes for access control and (ADA) access paddles; location of plan notes 3 and 4.

27. Drawing Sheet Number: A121Q
    Drawing Sheet Title: REFLECTED CEILING PLAN FIRST FLOOR -UNIT Q

    Changes:
    - Revised ceiling design for Corridor Q103.
    - Revised wood ceiling panel ceiling tag to WCP-1.
    - Revised reflected ceiling plan note #13. Revision applies to all reflected ceiling plans.
    - Revised reflected ceiling plan note #14. Revision applies to all reflected ceiling plans.

28. Drawing Sheet Number: A121R
    Drawing Sheet Title: REFLECTED CEILING PLAN – FIRST FLOOR – UNIT R

    Changes:
    - Revised ceiling design for Corridor Q103.
    - Revised wood ceiling panel ceiling tag to WCP-1.
    - Revised reflected ceiling plan note #13. Revision applies to all reflected ceiling plans.
    - Revised reflected ceiling plan note #14. Revision applies to all reflected ceiling plans.

29. Drawing Sheet Number: A203
    Drawing Sheet Title: EXTERIOR ELEVATION

    Change:
    - Modify elevation 1 to reflect additional coordination with structural and civil.

30. Drawing Sheet Number: A314
    Drawing Sheet Title: WALL SECTION

    Change:
    - Modify wall section 1 to reflect additional coordination with structural and civil.

31. Drawing Sheet Number: A402
    Drawing Sheet Title: VERTICAL CIRCULATION

    Change:
    - Remove details 7 and 8 from sheet. Moved to A403.

32. Drawing Sheet Number: A403 (NEW SHEET)
    Drawing Sheet Title: VERTICAL CIRCULATION

    Change:
    - Add plan detail from sheet A402
    - Add Ramp Sections.
    - Add Railing details.

33. Drawing Sheet Number: A502
    Drawing Sheet Title: SECTION DETAILS.

    Change:
    - Modify detail 1

34. Drawing Sheet Number: A611
    Drawing Sheet Title: SECTION DETAILS.

    Changes:
    - Added notations at detail 1 and 2 and 16.
    - Added dimensions and notations at detail 12.

35. Drawing Sheet Number: A721Q
    Drawing Sheet Title: INTERIOR FINISH PLAN – FIRST FLOOR UNIT Q

    Changes:
    - Added finish plan note #14 – LOCKER ROOMS TO HAVE ACCENT PAINT PT-2 AND PT-4 PAINTED ON WALLS. REFER TO TYPICAL ELEVATION 7/A755. Note applies to all finish floor plan sheets.
    - Added finish plan note #15 – PAINT ALL EXPOSED PLUMBING BELOW CEILING PLAN TO MATCH ADJACENT WALL COLOR PER ROOM FINISH. Note applies to all finish floor plan sheets.

36. Drawing Sheet Number: A755
    Drawing Sheet Title: INTERIOR ELEVATIONS

    Changes:
    - Added elevation 6/A755 – DOUBLE TIER PLASTIC LOCKER.
    - Added elevation 7/A755 – INT. ELEV. TYP. LOCKER ROOM PAINT.
    - Revised elevation note #18. Revision applies to all elevation sheets.
    - Revised elevation note #19. Revision applies to all elevation sheets.
    - Revised elevation note #20. Revision applies to all elevation sheets.

37. Drawing Sheet Number: ES101
    Drawing Sheet Title: ELECTRICAL SITE PLAN

    Change: Added electrical connection and requirements for lift station.
    Change: Removed grounding connection plan note 10 from precast panel locations.

38. Drawing Sheet Number: EL102
    Drawing Sheet Title: ELECTRICAL LIGHTING FIRST FLOOR PLAN – UNIT Q

    Change: Added emergency egress light over door.
    Change: Updated light fixture locations.
    Change: Added light fixture types L15 and L15E.
    Change: Added plan note 3 for linear light fixtures.

39. Drawing Sheet Number: EL103
    Drawing Sheet Title: ELECTRICAL LIGHTING FIRST FLOOR PLAN – UNIT R

    Change: Updated light fixture locations.

40. Drawing Sheet Number: EP102
    Drawing Sheet Title: ELECTRICAL POWER FIRST FLOOR PLAN – UNIT Q

    Change: Added scoreboard receptacles in the wrestling room.
    Change: Updated ADO push button and door power supply locations in vestibule Q107.
    Change: Added power plan note 15.

41. Drawing Sheet Number: EP103
    Drawing Sheet Title: ELECTRICAL POWER FIRST FLOOR PLAN – UNIT R

    Change: Added monitor receptacles in the corridor.
    Change: Relocated receptacles in the SAC and the weight room.
    Change: Added receptacles and equipment connections in the laundry room. Added plan notes 16 and 17 for the laundry room equipment.

42. Drawing Sheet Number: EP104
    Drawing Sheet Title: ELECTRICAL POWER FIRST FLOOR PLAN – UNIT S

    Change: Added receptacle outside of the IDF room.

43. Drawing Sheet Number: ER101
    Drawing Sheet Title: ELECTRICAL ROOF PLAN

    Change: Added missing circuit information for rooftop unit convenience power.

44. Drawing Sheet Number: EF101
    Drawing Sheet Title: ELECTRICAL FIRE ALARM FIRST FLOOR PLAN – UNIT Q

    Change: Added addressable relay and plan note for the A/V rack in storage Q123.

45. Drawing Sheet Number: EF102
    Drawing Sheet Title: ELECTRICAL FIRE ALARM FIRST FLOOR PLAN – UNIT R

    Change: Added addressable relay and plan note for the A/V rack in the weight room.

46. Drawing Sheet Number: EF103
    Drawing Sheet Title: ELECTRICAL FIRE ALARM FIRST FLOOR PLAN – UNIT S

    Change: Added addressable relay and plan note for the A/V rack in the IDF.

47. Drawing Sheet Number: E-601
    Drawing Sheet Title: ELECTRICAL SCHEDULES

    Change: Increased size of disconnect DISC-CU-1 to 60A.
    Change: Added light fixture types L15 and L15E.

48. Drawing Sheet Number: E-602
    Drawing Sheet Title: ELECTRICAL PANELBOARD SCHEDULES

    Change: Added circuits to panelboard 1LNR1.
    Change: Added circuits to panelboard 1LNQ1.

49. Drawing Sheet Number: E-701
    Drawing Sheet Title: ELECTRICAL ONE-LINE DIAGRAMS

    Change: Added AIC ratings to new switchboards and distribution panels.

50. Drawing Sheet Number: PP101
    Drawing Sheet Title: PLUMBING FIRST FLOOR PLAN – UNIT Q

    Change: Modify Drawing PP101 in the Auditorium A105 area. ‘See Storm piping revisions near column lines D/25”

51. Drawing Sheet Number: PP102
    Drawing Sheet Title: PLUMBING FIRST FLOOR PLAN – UNIT R

    Change: DELETE AND REPLACE Drawing PP102 in its entirety.
    “See Gas piping addition at the Commercial Dryer and General Plan Note revisions ”

52. Drawing Sheet Number: PR101
    Drawing Sheet Title: PLUMBING ROOF PLAN

    Change: DELETE AND REPLACE Drawing PR101 in its entirety.

    “See Gas piping revisions”

53. Drawing Sheet Number: P-301
    Drawing Sheet Title: PLUMBING SECTIONS

    Change: DELETE AND REPLACE Drawing P-301 in its entirety.

    “See drawing 3 for Gas piping revision”

54. Drawing Sheet Number: P-601
    Drawing Sheet Title: PLUMBING SCHEDULES

    Change: MODIFY Drawing P-601 Water Softener Schedule.

    "See Water Softener Schedule for revisions

55. Drawing Sheet Number: P-903
    Drawing Sheet Title: GAS PIPING ISOMETRIC

    Change: "See gas piping revisions"

56. Drawing Sheet Number: MH102
    Drawing Sheet Title: MECHANICAL HVAC FIRST FLOOR PLAN - UNIT R

    Change: Upsized dryer vent.

57. Drawing Sheet Number: MR101
    Drawing Sheet Title: MECHANICAL ROOF PLAN - UNIT Q, R, S

    Change: Modified dryer vent on roof.

58. Drawing Sheet Number: M-501
    Drawing Sheet Title: MECHANICAL DETAILS

    Change: Modified dryer vent detail.

59. Drawing Sheet Number: M-601
    Drawing Sheet Title: MECHANICAL SCHEDULES

    Change: Modified RTU schedule, VAV schedule, and unit heater schedule notes.

60. Drawing Sheet Number: M-701
    Drawing Sheet Title: TEMPERATURE CONTROLS SCHEMATICS

    Change: Modified RTU-Q2, ELECTRIC CABINET UNIT HEATER, AND ELECTRIC PROPELLER UNIT HEATER CONTROLS.

61. Drawing Sheet Number: M-702
    Drawing Sheet Title: TEMPERATURE CONTROLS SCHEMATICS

    Change: Modified RTU'S controls.

62. Drawing Sheet Number: T101
    Drawing Sheet Title: FIRST FLOOR OVERALL DISTRIBUTION PLAN

    Change: Revised cable tray and conduit routing.

63. Drawing Sheet Number: T101Q
    Drawing Sheet Title: FIRST FLOOR OVERALL DISTRIBUTION PLAN – UNIT Q

    Change: Revised cable tray and conduit routing and heights in Q102, Q105, and Q124
    Change: Added junction boxes in conduit runs in Q105 and Q124
    Change: Added sheet notes #3 and #4

64. Drawing Sheet Number: T101R
    Drawing Sheet Title: FIRST FLOOR OVERALL DISTRIBUTION PLAN – UNIT R

    Change: Revised cable tray and conduit routing and heights in R112 and R120

65. Drawing Sheet Number: T201Q
    Drawing Sheet Title: FIRST FLOOR OVERALL TECHNOLOGY PLAN – UNIT Q

    Change: Removed AV Input in Q124

    Change: Removed paging speaker in Q111 and Q119
    Change: Relocated additional paging speaker in Q111 and Q119
    Change: Added sheet note #4 and callouts to Q124

66. Drawing Sheet Number: T201R
    Drawing Sheet Title: FIRST FLOOR OVERALL TECHNOLOGY PLAN – UNIT R

    Change: Removed surface mounted digital signage location from R120.
    Change: Added flush mounted digital signage location to R120
    Change: Added sheet note #5 and callouts to R112
    Change: Relocated Viewboard in R112

Change: Revised elevation of data outlet for AV rack in R112Revised cable tray and conduit routing and heights in R112 and R120

67. Drawing Sheet Number: T304
Drawing Sheet Title: AV DIAGRAMS

Change: Removed AV Input from wrestling room AV diagram

68. Drawing Sheet Number: T407
Drawing Sheet Title: AV ELEVATIONS

Change: Revised elevation of data outlet for AV rack and removed text in detail #1
Change: Revised location of Viewboard in detail #1

69. Drawing Sheet Number: T409
Drawing Sheet Title: DISTRIBUTION ELEVATIONS

Change: Revised detail #4 to include both 4” conduits shown on floor plans and revise height and routing.

70. Drawing Sheet Number: T410
Drawing Sheet Title: DISTRIBUTION ELEVATIONS

Change: Revised details #1 and #2 to reflect changes to conduits from sheets T101Q and T101R

Attachments:
(Specs) 02 46 00, 08 91 00, 27 15 43, 33 05 00, 33 31 00.

(Drawings)
C000,

S001, SD101Q, S100, S101R, S110, S201, S300, S400, S410, S501, S512, S541, S542.S544

A101Q, A101R, A121Q, A121R, A314, A402, A403, A502, A611, A721Q, A755

P-301, P-601, P-903, PP101, PP102, PR101

MH102, MR101, M-501, M-601, M-701, M-702

E-601, E-602, E-701, EF101, EF102, EF103, EL102, EL103, EP102, EP103, EP104 ,ER101, ES101

T101, T101Q, T101R, T201Q, T201R, T304, T407, T409, T410

END OF ADDENDUM NO. ONE

SECTION 02 4600 – HELICAL PILES

PART 1 - GENERAL

1.1 PURPOSE OF SPECIFICATION

A. The purpose of this specification is to detail the furnishing of all designs, materials, tools, equipment, labor and supervision, and installation techniques necessary to install Helical Piles as detailed on the project documents, including connection details. This shall include provisions for load testing that may be part of the scope of work.

1.2 SCOPE OF WORK

A. This work consists of furnishing all necessary engineering and design services (if required), supervision, labor, tools, materials, and equipment to perform all work necessary to install the Helical Piles per the specifications described herein, and as shown on the project documents. The Contractor shall install a Helical Pile that will develop the load capacities as detailed in the project documents. This may also include provisions for load testing to verify Helical Pile capacity and deflection, if part of the scope of work.

1.3 HELICAL PILE SUPPLIERS

A. Subject to compliance with requirements, provide helical pile systems manufactured by Maclean Dixie Helical Foundation Systems or equivalent. The manufacturer must supply a solid round corner square or hollow pipe helical pile with forged connections. The manufacture must supply a product that does not utilize a bolted or field welded connection to resist torsional forces.

1.4 RELATED DOCUMENTS

A. Related Sections include the following:

1. Division 01 Section “Unit Prices”

1.5 DEFINITIONS

A. Definition of terms are as follows:

1. Allowable Load – Mechanical (ALM): The maximum allowable load on a structural

element as specified by its manufacturer. ALM is usually limited to 50% of the rated ultimate mechanical capacity.

2. Allowable Load – Geotechnical (ALG): The maximum allowable load that may be transferred into a Helical Screw Pile Foundation as determined by the geotechnical properties of the soil. Usually determined by load test behavior or engineering analysis. ALG is typically limited to 30% to 50% of the Ultimate Geotechnical Capacity of the pile, but this may vary, depending on project parameters and other factors.
3. Bearing Stratum: The undisturbed soil layer at the helical pile location which provides a significant portion of the axial resistance of an installed helical pile bearing on one or more of the pile helices.
4. Coupling: Central steel shaft connection means formed as integral part of the plain extension shaft material. Couplings are internal or external sleeves, or hot upset forged sockets.
5. Coupling Bolt(s): High strength, structural steel fasteners used to connect Helical Pile segments together. Coupling bolts should only transfer axial forces.
6. Creep: The continuous deflection (movement) of a pile while subjected to a constant load.
7. Crowd: Axial compressive force applied to the helical anchor as needed to ensure that the anchor progresses into the ground a distance equal to the helix pitch (approximately 3 inches) for each revolution.
8. Dead Load: Loads resulting from the weight of the structure plus all material (equipment) permanently fastened thereto or supported thereby.
9. Design Load (DL): The maximum load that will be transferred to the pile. The Design Load is expressed in terms of magnitude and direction. Design Loads can be Tensile, Compressive or Lateral. Also known as Service Load and Working Load.
10. Effective Torsional Resistance: Effective Torsional Resistance is used to estimate Ultimate Geotechnical Capacity of a pile during construction. Helical Pile Foundations are typically installed to a predetermined specified installation torque.
11. Failure – Geotechnical: Unless otherwise noted, geotechnical failure is achieved when continuous deflection (movement) of a pile occurs while subjected to a constant load.
12. Foundation: An element that connects a structure to the earth. Loads are transferred from the structure, to the foundation, to the earth. These loads can be Compression, Tension, Lateral or Dynamic.
13. Geotechnical Capacity: The maximum load that can be resisted via the bearing of helices on the soil and skin friction or adhesion between the soil and shaft in which the pile is embedded.
14. Foundation Capacity: The bearing capacity of the helical pile (helices and skin friction) interaction with the specified bearing soil.
15. Helical Extension: Same as a Plain Extension, but with one or more helices welded to it. A helical extension may be utilized to increase the pile bearing capacity. May be used in areas of very weak soils or as an onsite modification when unexpected weak soils are encountered. The Helical Extension is attached directly above the Helical Lead section or sometimes above other helical extensions
16. Helical Lead Section: A central Shaft with one or more Helices welded to it. The first

component of a Helical Pile Foundation that enters the soil. Extensions are used in conjunction with the Helical Lead Section to achieve the specified depth and to enter competent soil.

17. Helical Pile: A bearing type foundation element consisting of a lead or starter section, helical extension (if so required by site conditions), plain extension section(s), and a pile cap or bracket. A.k.a. helical screw pile, screw pile, helical screw foundation, helical anchor. Their purpose is to transfer structural loads (tension and/or compression) to a load bearing stratum.
18. Helical Pile Contractor (contractor): Installer of the Helical Foundation System. The installer must be a Maclean Dixie Certified installer and purchase products and supplies from a Maclean Dixie Distributor.
19. Helix or Helices: Generally a rounded steel plate formed into a helical flight. When rotated in the ground, the helical shape provides thrust along its longitudinal axis thus aiding in the anchor installation, plus the plate transfers axial load to the soil through bearing after installation.
20. Helix Driver: A high torque hydraulic motor used to advance (rotate) a helical pile into the soil to the specified bearing depth. Depending on the capacity of the helix driver, it may be either hand held or machine operated.
21. Installation Torque: The resistance generated by a Helical Pile when installed into soil. The installation resistance is a function of the soil type, and size and shape of the various components of the Helical Pile.
22. Live Load: Loads resulting from vehicles, people, snow, ice, wind, and impact. Other forces resulting from earthquakes and other extraordinary conditions.
23. Load Test: Conducted in accordance with ASTM D1143-07 to determining capacity and relation of load to movement by applying incremental loads to the helical pile.
24. Pile Cap: Connection means by which structural loads are transferred to the Helical Pile. The type of connection varies depending upon the requirements of the project and type of Helical Pile material used.
25. Pitch: The distance between the upper and lower split edges of the helices. The distance a lead should travel in one rotation.
26. Plain Extension: A central shaft (with no helices) that is attached directly above the helical lead section. Extensions are coupled together and are used to extend the helical lead section to a required depth and into a soil stratum of suitable strength.
27. Project Documents: Documentation that is considered part of the official project record. This includes but not limited to project drawings, specifications, submittals, etc.
28. Proof Test: Load testing a Helical Pile Foundation by applying loads in predetermined increments, maintaining each load for a period of time and recording deflection at the beginning and end of each increment. Engineers, to determine Allowable Load, often apply the results of Proof Tests.
29. Rated or Ultimate Mechanical Capacity: The Ultimate Mechanical Capacity of a structural element as specified by its manufacturer. Determined by load tests and/or engineering analysis. Also referred to as Mechanical Strength.
30. Rated or Ultimate Torsional Strength: The maximum torque that can be safely applied to a Helical Screw Pile Foundation during installation.
31. Reveal: The distance from the ground surface to the upper end of the last installed extension of an anchor, measured along the anchor's longitudinal axis.
32. Safety Factor - Geotechnical (SFG): The ratio of the Ultimate Geotechnical Capacity

(UCG) of a Helical Screw Pile Foundation to the Design Load.

33. Safety Factor – Mechanical (SFM): The ratio of the Rated Ultimate Mechanical Capacity of a structural element to the Design Load.
34. Shaft: The central shaft of a Helical Pile used to transfer load from the structure to the helices. Shafts may be solid round corner square steel bar or hollow steel pipe sections. Shaft sizes typically range from 1.25” to 2.00” round corner square and from 2.875” to 10.75” diameter hollow round.
35. Specified Installation Torque: The Effective Torsional Resistance to be achieved - as specified by the project engineer of record.
36. Ultimate Pile Capacity – Geotechnical (UCG): The maximum load that can be applied to a Helical Pile Foundation prior to soil bearing failure. At this point no additional capacity can be justified.
37. Ultimate or Rated Pile Capacity – Mechanical (UCM): The manufacturers’ Rated Ultimate Mechanical Capacity of the Helical Pile Foundation.
38. Ultimate Pullout Resistance: Limit state based on the lesser of mechanical strength or Global Capacity of the helical anchor - defined as the point at which no additional axial tension load can be justified.

1.6 ALLOWABLE TOLERANCES

A. The centerline of Helical Piles shall not be more than 3 inches (76mm.) from indicated plan location.

B. Helical Pile plumbness shall be within 2 degrees of design alignment.

C. Top elevation of the Helical Piles shall be within +1 inch (25mm.) to -2 inches (-50mm.) of design vertical elevation.

1.7 QUALITY ASSURANCE

A. The Helical Pile Contractor (contractor) shall be experienced in placement of Helical Foundation systems and shall furnish all materials, labor and supervision to perform the specified work. The contractor shall be trained and certified by Maclean Dixie or a Maclean Dixie recognized Distributor in the proper methods to install Maclean Dixie Helical Products. The contractor’s current certification documents shall be included with the design submittal and to the Architect upon request.

B. The contractor shall employ an adequate number of skilled workers who are experienced in the necessary crafts and who are familiar with the specified requirements and methods needed for proper performance of the work required in this specification.

C. All Helical Piles shall be installed in the presence of the Owner’s Testing Agent. The Testing Agent shall have the right of access to any and all field installation records and test reports.

D. Helical Pile systems (lead, extensions, brackets) as specified herein shall be designed,

manufactured and tested to appropriate ASTM standards.

E. The design recommendation of the Helical Piles shall be performed by an experienced designer. The design recommendation shall be submitted with all assumptions, data and calculations to the Geotechnical Engineer of record for their approval (and seal if required). Only after the design recommendation is approved by the Geotechnical Engineer of record will it be considered the Helical Pile design.

1.8 DESIGN CRITERIA

A. The Helical Pile design or design recommendation shall be developed to meet specified loads and design criteria as indicated on the Structural Engineer of record's project drawings and notes. The calculations and drawings required from the contractor shall be submitted to the project Architect for review and acceptance in accordance to section 3.1 "Construction Submittals". The design shall be in accordance with Chapter 18 of IBC 2018.

B. Except where noted on the plans, all helical pile components shall be designed and installed to provide a maximum axial deflection of 0.5 inches and a minimum factor of safety as follows:

Compression	2
Tension	2
Lateral	2
Buckling	2

C. The Helical Pile design shall take into account pile spacing (typically 3 times the diameter of the largest helices measured center to center) , soil stratification and strain compatibility issues as are present for the project.

D. Helical Pile capacity in soil shall not be relied upon from the following soil layers as defined in the geotechnical reports:

1. Fill
2. Organic Laden Soils
3. Very Soft or Soft Clays
4. Very Loose to Loose Sands

E. The overall length and installed torque of a Helical Pile shall be specified such that the required in-soil capacity is developed by bearing on the helices in the specified strata(s).

F. Lateral load and Bending: Where the Helical Piles are subjected to lateral or base sheer loads as indicated on the project documents, the bending moment from said loads shall be determined using lateral load analysis software such as LPILE by Ensoft , Inc or an equivalent software. The required soil parameters for the required design shall be provided by the Geotechnical Engineer of record.

G. Critical Buckling Load: Where Helical Piles are installed into low strength soils (N<5) or the pile extrudes above the ground surface, the critical buckling load shall be determined using load analysis software such as LPILE by Ensoft , Inc or an equivalent software. The required soil parameters for the required design shall be provided by the Geotechnical Engineer of record.

H. Expansive Soils: Helical Piles used in areas where expansive soils are present may require the use of special construction methods to mitigate possible effects form soil shrinkage or swelling. Helical Pile shafts should be isolated from the concrete footing if said footing is in contact with the expansive soils.

I. Down-Drag/Negative Skin Friction: Helical Piles are slender shaft foundation elements and are not practically affected by down-drag/negative skin friction. If Helical Piles with central steel shafts >4" in diameter are used in areas where compressible or decomposing soils overlie bearing stratum, or where expansive or frozen soils can cause pile jacking, Helical Pile shafts should be provided with a no-bond zone along specified lengths to prevent load transfer that may adversely affect pile capacity. Alternatively, Helical piles can be provided with sufficient axial load capacity to resist down drag/negative skin friction forces.

J. The Helical Pile attachment (pile cap) shall distribute the design load to the concrete foundation such that the concrete bearing stress does not exceed those in the ACI Building Code and the stresses in the steel helices and welds does not exceed AISC allowable stresses for steel members.

K. Corrosion Protection: The Pile Foundation system shall be designed, fabricated and installed to meet a corrosion service life of at least 30 years. Consideration shall be given to the corrosion potential (aggressiveness) of the soils encountered at the project site. As a minimum, all lead and extension sections must be hot-dip galvanized in accordance with ASTM A123 and A153 (as appropriate) after fabrication.

1.9 GROUND CONDITION

A. The Owner's Geotechnical Report, including soil boring logs, a soil boring location plan and soil parameters shall be made available to the person or firm preparing the Helical Pile Design recommendation for the Geotechnical Engineer of record's review. This report shall be used as a basis for the Helical Pile design recommendation and ultimate design utilizing generally accepted engineering judgment and methods.

PART 2 - REFERERENCED CODES AND STANDARDS

2.0 REFERENCED CODES AND STANDARDS

A. Standards listed by reference, including revisions by issuing authority, form a part of this specification section to the extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title, or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation. In case of conflict, the particular requirements of this specification shall prevail. The latest publication as of the issue of this specification shall govern, unless indicated otherwise.

2.1 AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):

A. ASTM A29/A29M Steel Bars, Carbon and Alloy, Hot-Wrought and Cold Finished.

B. ASTM A36/A36M Structural Steel.
C. ASTM A53 Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless.
D. ASTM A153 Zinc Coating (Hot Dip) on Iron and Steel Hardware.
E. ASTM A252 Welded and Seamless Steel Pipe Piles.
F. ASTM A775 Electrostatic Epoxy Coating
G. ASTM A193/A193M Alloy-Steel and Stainless Steel Bolting Materials for High Temperature Service.
H. ASTM A320/A320M Alloy-Steel Bolting Materials for Low Temperature Service.
I. ASTM A325 Standard Specification for Structural Bolts, Steel, Heat Treated, 120/1OS ksi Minimum Tensile Strength.
J. ASTM ASOO Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
K. ASTM A513 Standard Specification for Electric Resistance Welded Carbon and Alloy Steel Mechanical Tubing.
L. ASTM A536 Standard Specifications for Ductile Iron Castings
M. ASTM A572 HSLA Columbium-Vanadium Steels of Structural Quality.
N. ASTM A618 Hot-Formed Welded and Seamless High-Strength Low-Alloy Structural Tubing.
O. ASTM A656 Hot-Rolled Structural Steel, High-Strength Low-Alloy Plate with Improved Formability.
P. ASTM A958 Standard Specification for Steel Castings, Carbon, and Alloy, with Tensile Requirements, Chemical Requirements Similar to Wrought Grades.
Q. ASTM A1018 Steel, Sheet and Strip, Heavy Thickness Coils, Hot Rolled, Carbon, Structural, High-Strength Low- Alloy, Columbium or Vanadium, and High-Strength Low-Alloy with Improved Formability.
R. ASTM D1143 Method of Testing Piles Under Static Axial Compressive Load.
S. ASTM D3689 Method of Testing Individual Piles Under Static Axial Tensile Load.
T. ASTM A123 / A123M - 09 Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
U. ASTM A500 / A500M - 10a Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
V. ASTM A576 - 90b (2006) Standard Specification for Steel Bars, Carbon, Hot-Wrought, Special Quality.

2.2 AMERICAN WELDING SOCIETY (AWS):

A. AWS D1.1 Structural Welding Code- Steel.
B. AWS D1.2 Structural Welding Code- Reinforcing Steel.

2.3 AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE):

A. ASCE 20-96 Standard Guidelines for the Design and Installation of Pile Foundations.

2.4 INTERNATIONAL CODE COUNCIL (ICC):

A. International Building Code IBC 2006

2.5 SOCIETY OF AUTOMOTIVE ENGINEERS (SAE):

A. SAE J429 Mechanical and Material Requirements for Externally Threaded Fasteners.

PART 3 - SUBMITTALS

3.0 SUBMITTALS

A. Construction Submittals.

1. The contractor shall prepare and submit to the project Architect for review and approval shop drawings, working drawings and design calculations for the Helical Piles intended for use at least 21 calendar days prior to planned start of construction (but also note Paragraph B.14). When required, all submittals shall be signed and sealed by a Registered Professional Engineer, preferably the project Geotechnical Engineer of record, currently licensed in the project State.

B. The submittal shall include the following:

1. Helical Pile number, location and pattern by assigned identification number
2. Helical Pile design load
3. Type and size of central steel shaft
4. Helix configuration (number and diameter of helix plates)
5. Minimum effective installation torque
6. Minimum overall length
7. Inclination of Helical Pile
8. Cut-off elevation
9. Helical Pile attachment to structure relative to grade beam, column pad, pile cap, etc.
10. Detail drawings for all helical pile components, including corrosion protection and pile top attachment. Include helical pile lead/starter and extension section identification (manufacturer's catalog numbers).

11. If required, the Contractor shall submit certified mill test reports for the central steel shaft, as the material is delivered, to the Architect for record purposes. The ultimate strength, yield strength, % elongation, and chemistry composition shall be provided.

12. The Contractor shall submit plans for pre-production (optional) and production testing for the· Helical Piles to the Architect for review and acceptance prior to beginning load tests. The purpose of the test is to determine the load versus displacement response of the Helical Pile and provide an estimation of ultimate capacity.

13. The Contractor shall submit to the Architect copies of calibration reports for each torque measuring system and all load test equipment to be used on the project. The calibration tests shall have been performed within forty five (45) working days of the date submitted. Helical Pile installation and testing shall not proceed until the Architect has received the calibration reports. These calibration reports shall include, but are not limited to, the following information:

a. Name of project and Contractor
b. Name of testing agency
c. Identification (serial number) of device calibrated
d. Description of calibrated testing equipment
e. Date of calibration
f. Calibration data

14. Work shall not begin until all the submittals have been received and approved by the Architect. The Contractor shall allow the Architect a reasonable time to review, comment, and return the submittal package after a complete set has been received. All costs associated with incomplete or unacceptable submittals shall be the responsibility of the Contractor.

3.2 INSTALLATION RECORDS

A. The Contractor shall provide the Architect copies of Helical Pile installation records within 24 hours after each installation is completed. Formal copies shall be submitted on a weekly basis. These installation records shall include, but are not limited to, the following information.

1. Name of project and Contractor.
2. Name of Contractor's supervisor during installation.
3. Date and time of installation.
4. Name and model of installation equipment.
5. Type of torque indicator used.
6. Location of Helical Pile by assigned identification number.
7. Actual Helical Pile type and configuration – including lead section (number and size of helices), number and type of extension sections (manufacturer's SKU numbers)
8. Helical Pile installation duration and observations.
9. Total length of installed Helical Pile.
10. Cut-off Elevation.
11. Inclination of Helical Pile.
12. Installation torque at one-foot intervals for the final 10 feet.
13. Comments pertaining to interruptions, obstructions, or other relevant information.
14. Rated load capacities.

3.3 TESTS REPORTS

A. The Contractor shall provide the Architect copies of field test reports within 24 hours after completion of the load tests. Formal copies shall be submitted within a reasonable amount of time following test completion. These test reports shall include, but are not limited to, the following information (note Section 6– Helical Pile Load Tests).

1. Name of project and Contractor.
2. Name of Contractor's supervisor during installation.
3. Name of the owner’s testing agency, if required.
4. Date, time, and duration of the test.
5. Location of Helical Pile by assigned identification number.
6. Type of test (i.e. tension or compression).
7. Description of calibrated testing equipment and test set-up.
8. Actual Helical Pile type and configuration – including lead section, number and type of extension sections (manufacturer's catalog numbers).
9. Steps and duration of each load increment.

10. Cumulative pile-head movement at each load step.
11. Comments pertaining to test procedure, equipment adjustments, or other relevant information.
12. Signed by the representative of the owner's testing agency, registered professional engineer (Geotechnical Engineer of record), or as required by local jurisdiction.

3.4 CLOSEOUT SUBMITTALS

A. Warranty: Warranty documents specified herein

1. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
2. Manufacturer's Warranty: Submit, for Owner's Acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights the Owner may have under Contract Document.

PART 4 - MATERIALS

4.0 MATERIALS

A. Helical Steel Plates.

1. The helices are high strength low alloy steel per ASTM A1018 grade 55, class 1 with a minimum 55 ksi (379 MPa) yield strength and 65 ksi (450 MPa) tensile strength. The helical plates are factory welded to the pile shaft.

B. Pile Leads and Extension:

1. Round Corner Square Shafts (RCS).

a. 1.25 inch (31.75mm) RCS shafts should be hot-wrought carbon steel conforming to ASTM A576, Grade 1045 with a minimum 60 ksi (413 MPa) yield strength and 34 ksi (234 MPa) tensile strength.
b. 1.5 inch (38 mm) RCS shafts should be hot-wrought carbon steel conforming to ASTM A576, Grade 10V45M with a minimum 70 ksi (482 MPa) yield strength and 100 ksi (689 MPa) tensile strength.
c. 1.75 inch (44.5mm) RCS shafts are steel conforming to ASTM A576, Grade 1530 with minimum 90 ksi (621 MPa) yield strength and 120 ksi (827 MPa) tensile strength.
d. 2.00 inch (50.8mm) RCS shafts are steel conforming to ASTM A576, Grade 1530 with minimum 90 ksi (621 MPa) yield strength and 120 ksi (827 MPa) tensile strength.

2. Pipe Shafts.

a. 2.875, 3.50, 4.50 inch (73, 88.9, 114.3 mm) pipe shafts conform to ASTM A500, Grade C with minimum yield strength of 50 ksi (345 MPa) and a minimum tensile strength of 62 ksi (427 MPa).
b. 8.625 inch (219.075mm) pipe shafts conform to ASTM A500, Grade C with minimum yield strength of 50 ksi (345 MPa) and a minimum tensile strength of

62 ksi (427 MPa).

3. Couplings.

    a. The coupling shall be made from cast steel conforming to ASTM A958, Grade SC 1045 with a minimum 40 ksi (276 MPa) yield strength and 80 ksi (551 MPa) tensile strength.

4. Coupling Bolts.

    a. The coupling bolts for lead and extension are 0.75 inch (19.1mm) or 0.875 inch (22.2mm) in diameter conforming to either ASTM A490 or ASTM A325, Type 1 and have a Class C hot-dipped zinc coating to ASTM A153 with threads excluded from shear plane.

PART 5 - EXECUTION

5.0 EXECUTION

A. Site Conditions.

1. Prior to commencing Helical Pile installation, the Contractor shall inspect the work of all other trades and verify that all said work is completed to the point where Helical Piles may commence without restriction.
2. The Contractor shall verify that all Helical Piles may be installed in accordance with all pertinent codes and regulations regarding such items as underground obstructions, right-of-way limitations, utilities, etc.
3. In the event of a discrepancy, the Contractor shall notify the Architect. The Contractor shall not proceed with Helical Pile installation in areas of discrepancies until said discrepancies have been resolved.
4. Do not cut any reinforcing steel in existing foundation elements without the prior written approval of the Structural Engineer of Record.

B. Installation Equipment.

1. Shall be rotary type, hydraulic power-driven torque motor with clockwise and counter-clockwise rotation capabilities. The torque motor shall be capable of continuous adjustment to revolutions per minute (RPM's) during installation. Percussion drilling equipment shall not be permitted. The torque motor shall have torque capacity sufficient to reach the torsional strength rating of the central steel shaft to be installed.

2. Equipment shall be capable of applying adequate down pressure (crowd) and torque simultaneously to suit project soil conditions and load requirements. The equipment shall be capable of continuous position adjustment to maintain proper Helical Pile alignment.

C. Installation Tooling

1. A continuous monitoring indicator shall be used during Helical Pile installation. The

torque indicator can be an integral part of the installation equipment or externally mounted in-line with the installation tooling. Shear pin torque indicators are not allowed.

2. Shall be capable of providing continuous measurement of applied torque throughout the installation.

3. Shall be capable of torque measurements in increments of at least 100 ft-lb

4. Shall be calibrated prior to pre-production testing or start of work. Indicators that measure torque as a function of hydraulic pressure shall be calibrated at normal operating temperature.

5. Shall be re-calibrated, if in the opinion of the Testing Agent and/or Contractor reasonable doubt exists as to the accuracy of the torque measurements.

D. Installation Procedures

1. Central Steel Shaft: (Lead and Extension Sections)

a. The Helical Pile installation technique shall be such that it is consistent with the geotechnical, logistical, environmental, and load carrying conditions of the project.

b. The lead section shall be positioned at the location as shown on the working drawings. Battered Helical Piles can be positioned perpendicular to the ground to assist in initial advancement into the soil before the required batter angle shall be established but avoid damage to the pile, such as bending the shaft. The Helical Pile sections shall be engaged and advanced into the soil in a smooth, continuous manner at a rate of rotation of 5 to 20 RPM's. Extension sections shall be provided to obtain the required minimum overall length and installation torque as shown on the working drawings. Connect sections together using coupling bolt(s) and nut torqued to 40 ft-lb.

c. Sufficient down pressure shall be applied to uniformly advance the Helical pitch the appropriate depth. The rate of rotation and magnitude of down pressure shall be adjusted for different soil conditions and depths.

E. Termination Criteria.

1. The torque as measured during the installation shall not exceed the torsional strength rating of the central steel shaft.

2. The minimum installation torque, embedment and minimum overall length criteria as shown on the working drawings shall be satisfied prior to terminating the Helical Pile installation.

3. If the torsional strength rating of the central steel shaft and/or installation equipment has been reached prior to achieving the minimum overall length required, the Contractor shall have the following options:

4. Terminate the installation at the depth obtained subject to the review and acceptance of the Owner's Geotechnical Engineer, or:

5. Remove the existing Helical Pile and install a new one with fewer and/or smaller diameter helices. The new helix configuration shall be subject to review and acceptance of the Owner's Geotechnical Engineer. If re-installing in the same location, the top-most helix of the new Helical Pile shall be terminated at least (3) three feet or 3 x the last helix diameter whichever is greater beyond the terminating depth of the original Helical Pile.

6. If the minimum installation torque as shown on the working drawings is not achieved at the minimum overall length, and there is no maximum length constraint, the Contractor shall have the following options:

7. Install the Helical Pile deeper using additional extension sections, or:

8. Remove the existing Helical Pile and install a new one with additional and/or larger diameter helix plates. The new helix configuration shall be subject to review and acceptance of the Owner's Geotechnical Engineer. If re- installing in the same location, the top-most helix of the new Helical Pile shall be terminated at least (3) three feet or 3 x the last helix diameter whichever is greater beyond the terminating depth of the original Helical Pile.

9. Lower the load capacity of the Helical Pile and install additional Helical Pile(s). The lowered capacity and additional Helical Pile location shall be subject to the review and acceptance of the Owner's Geotechnical Engineer and the Structural Engineer of Record.

10. If the Helical Pile is refused or deflected by a subsurface obstruction, the installation shall be terminated, and the pile removed. The obstruction shall be removed, if feasible, and the Helical Pile re-installed. If the obstruction can't be removed, the Helical Pile shall be installed at an adjacent location, subject to review and acceptance of the Owner's Geotechnical Engineer and the Structural Engineer of Record.

11. If the torsional strength rating of the central steel shaft and/or installation equipment has been reached prior to proper positioning of the last plain extension section relative to the final elevation, the Contractor may remove the last plain extension and replace it with a shorter length extension. If it is not feasible to remove the last plain extension, the Contractor may cut said extension shaft to the correct elevation. The Contractor shall not reverse (back-out) the Helical Pile to facilitate extension removal.

12. The average torque for the last three feet 3 x the last helix diameter whichever is greater of penetration shall be used as the basis of comparison with the minimum installation torque as shown on the working drawings. The average torque shall be defined as the average of the last three readings recorded at one-foot intervals.

PART 6 - LOAD TESTS

6.0 HELICAL PILE LOAD TESTS

A. Load Test Equipment.

1. The load test equipment shall be capable of increasing or decreasing the applied load incrementally. The incremental control shall allow for small adjustments, which may be necessary to maintain the applied load for a sustained, hold period.

2. The reaction system shall be designed so as to have sufficient strength and capacity to distribute the test loads to the ground. It should also be designed to minimize its movement under load and to prevent applying an eccentric load to the pile head. Test loads are normally higher than the design loads on the structure. The direction of the applied load shall be collinear with the Helical Pile at all times.

3. Dial gauge(s) shall be used to measure Helical Pile movement the dial gauge shall have an accuracy of at least +/- 0.001-in. and a minimum travel sufficient to measure all Helical Pile movements without requiring resetting the gauge. The dial gauge shall be positioned so its stem is parallel with the axis of the Helical Pile. The stem may rest on a smooth plate located at the pile head. Said plate shall be positioned perpendicular to the axis of the Helical Pile. The dial gauge shall be supported by a reference apparatus to provide an independent fixed reference point Said reference apparatus shall be independent of the reaction system and shall not be affected by any movement of the reaction system.

4. The load test equipment shall be re-calibrated, if in the opinion of the Testing Agent and/or Contractor reasonable doubt exists as to the accuracy of the load or deflection measurements.

B. Pre-Production Tests

1. Load tests shall be performed to verify the suitability and capacity of the proposed Helical Pile, and the proposed installation procedures prior to installation of production helical piles. One (1) sacrificial test helical pile shall be constructed immediately prior to the start of work on the production piles. The Owner's Geotechnical Engineer shall determine the pre-production test location. Additional purpose of pre-production tests is to empirically verify the ultimate capacity to the average installing torque of the Helical Pile for the project site.

2. Pre-production Helical Pile installation methods, procedures, equipment, and overall length shall be identical to the production Helical Piles to the extent practical except where approved otherwise by the Owner.

3. The Contractor shall submit for review and acceptance the proposed Helical Pile load testing procedure. The pre- production test proposal shall be in general conformance with ASTM 01143 and/or D-3689, and shall provide the minimum following information:

   a. Type and accuracy of load equipment
   b. Type and accuracy of load measuring equipment
   c. Type and accuracy of pile-head deflection equipment
   d. General description of load reaction system, including description of reaction anchors
   e. Calibration report for complete load equipment, including hydraulic jack, pump, pressure gauge, hoses, and fittings.

4. The test sequence shall be as shown in *Table 3* to the extent practical.

5. If the pre-production test fails to meet the design requirements, the Contractor shall modify the Helical Pile design and/or installation methods and retest the modified anchor.

C. Production Helical Pile Testing

1. The Contractor shall perform proof the Helical Pile proof test as selected by the Owner's Geotechnical Engineer. At the Contractor's suggestion, but with the Engineer's permission, tension tests may be performed in lieu of compression tests up to 1.00 DL for Helical Piles with sufficient structural tension capacity.

2. The test sequence shall be as shown in Table4 to the extent practical.

3. The acceptance criteria for production Helical Piles shall be per Section 6.5 Item 1.

4. If a production Helical Pile that is tested does not meet the acceptance criteria, the Contractor shall be directed to proof test another Helical Pile in the vicinity. For Helical Piles that do not meet the acceptance criteria and further construction of other foundations, the Contractor shall modify the design, the construction procedure, or both. These modifications include, but are not limited to, installing replacement Helical Piles, modifying the installation methods and equipment, increasing the minimum effective installation torque, changing the helix configuration, or changing the Helical Pile material (i.e., central steel shaft). Modifications that require changes to the structure shall have prior review and acceptance of the Architect. Any modifications of design or construction procedures shall be at the Contractor's expense.

D. Testing Program

1. The hydraulic jack shall be positioned at the beginning of the test such that the unloading and repositioning of the jack during the test shall not be required. The jack shall also be positioned co-axial with respect to the pile- head so as to minimize eccentric loading. The hydraulic jack shall be capable of applying a load not less than two times the proposed design load (DL) and must be capable applying load appropriate to the testing program. The stroke of the jack shall not be less than the theoretical elastic shortening of the total Helical Pile length at the maximum test load.

2. An alignment load (AL) shall be applied to the Helical Pile prior to setting the deflection measuring equipment to zero or a reference position. The AL shall be no more than 10% of the design load (i.e., 0.1 DL). After the AL is applied, the test set-up shall be inspected carefully to ensure it is safe to proceed.

3. Axial compression or tension load tests shall be conducted by loading the Helical Pile in step-wise fashion as shown in Table-3 or Table-4 (as appropriate) to the extent practical. Pile-head deflection shall be recorded at the beginning of each step and after the end of the hold time. The beginning of the hold time shall be defined as the moment when the load equipment achieves the required load step.

4. Test loads shall be applied until continuous jacking is required to maintain the load step or until the test load increment equals the specified maximum testing load (i.e., 2.0 DL), whichever occurs first. The observation period for this last load increment shall be 10 minutes. Displacement readings shall be recorded at 1, 2, 3, 4, 5 and 10 minutes (load increment maxima only).

5. The applied test load shall be removed in approximately equal decrements per the schedule in Table-3 or Table-4 (as appropriate). The hold time for these load decrements shall be 1 minute, except for the last decrement, which shall be held for

5 minutes.

Load Steps	Hold Time (minutes)
AL	1.0
0.20 DL	2.5
0.40 DL	2.5
0.60 DL	2.5
0.80 DL	2.5
1.0 DL	2.5
0.75 DL	1.0
0.50 DL	1.0
0.25 DL	1.0
AL	1.0
0.5 DL	1.0
1.0 DL	1.0
1.2 DL	2.5
1.4 DL	2.5
1.8 DL	2.5
1.8 DL	2.5
2.0 DL	10.0
1.5 DL	1.0
1.0 DL	1.0
0.5 DL	1.0
AL	5.0

Table 3-Steps for Pre-production Load Testing
AL=Alignment Load
DL= Design Load

Load Step	Hold Time (minutes)
AL	0.0
0.20 DL	2.5
0.40 DL	2.5
0.60 DL	2.5
0.80 DL	2.5
1.00 DL	10.0
0.60 DL	1.0
0.40 DL	1.0
0.20 DL	1.0
AL	5.0

Table 4-Steps for Production Load Testing
AL=Alignment Load
DL= Design Load

E. Acceptance Criteria for Helical Pile Verification Load Tests

1. Both of the following criteria must be met for approval:
   a. The Helical Pile shall sustain the compression and tension design capacities (1.0 DL with no more than 0.5 in. total vertical movement of the pile-head as measured relative to the top of the Helical Pile prior to the start of testing.
   b. Failure does not occur at the 2.0 DL maximum compression and tension test loads. The failure load shall be defined by one of the following definitions- whichever results in the lesser load:
      i. The point at which the movement of the Helical Pile tips exceeds the elastic compression/tension of the pile shaft by 0.08 B, where B is defined as the diameter of the largest helix. (Note that tension loads are limited to the minimum ultimate tensile strength of the coupling joint(s) of the central steel shaft. It is recommended to use the minimum ultimate tensile strengths as published by the pile supplier).
      ii. The point at which the slope of the load versus deflection (at end of increment) curves exceeds 0.50 inches/kip.
   c. The Contractor shall provide to the Architect copies of field test reports confirming Helical Pile configuration and construction details within 24 hours after completion of the load tests. Formal copies shall be submitted as per Section 3.3. This written documentation will either confirm the load capacity as required on the working drawings or propose changes based upon the results of the pre-production tests.
   d. When a Helical Pile fails to meet the acceptance criteria, modifications shall be made to the design, the construction procedures, or both. These modifications include, but are not limited to, lowering the Helical Pile load capacity, modifying the installation methods and equipment, increasing the minimum effective installation torque, changing the helix configuration, or changing the Helical Pile material (i.e., central steel shaft). Modifications that require changes to the structure shall have prior review and acceptance of the Architect. The cause for any modifications of design or construction procedures shall be decided to determine any additional cost implications.

PART 7 - UNIT PRICES

7.0 Unit Prices

A. Basis for Bids: Base bids on quantity & length of piles indicated.

1. Basis for Payment.
   a. From data obtained during pile installation, calculate actual total net length of piles used. Contract price per linear foot includes

labor, materials, tools, equipment, and incidentals and for performing work for furnishing, installing, cutting off and capping piles. This includes splicing and disposal of cutoffs.

b. Measurements will be based on effective length of piles in place, with lengths measured to nearest 12 inches. Additional payment for lengths in excess of that indicated, and credit for lengths less than that indicated, will be calculated at unit prices stated in the Contract, based on net addition or deduction to total length of piles.
c. Test piles that become part of completed foundation system will be considered as an integral part of the Work.
d. No payment will be made for rejected piles, including piles installed out of place, defective piles, or piles damaged during handling or installation.

END OF SECTION 024600

SECTION 08 9100 - LOUVERS

PART 1 GENERAL

1.1 SUMMARY

A. Section includes fixed louvers, frames and accessories.

1.2 SUBMITTALS

A. Section 01 3300 - Submittal Procedures: Submittal procedures.

B. Samples: Submit two 12 x 12 inch in size illustrating finish and color of exterior and interior surfaces.

1.3 FIELD MEASUREMENTS

A. Verify field measurements prior to fabrication.

1.4 COORDINATION

A. Section 01 3000 - Administrative Requirements: Coordination and project conditions.

B. Coordinate Work with the installation of flashings.

1.5 WARRANTY

A. Section 01 7000 - Execution Requirements: Product warranties and product bonds.

B. Furnish a twenty-year manufacturer's warranty for louvers.

C. Warranty: Include coverage for degradation of fluoropolymer finish.

PART 2 PRODUCTS

2.1 LOUVERS

A. Louvers at Window Frames: Provide 2-inch deep, Ruskin ELF211D or Architect Approved Equal. Dark bronze anodized finish.

B. Other Louvers: Provide 4-inch and 6-inch deep as indicated, drainable blade.

C. Manufacturers:

1. Airline Products Co.
2. Airolite.
3. Airstream.
4. American Warming and Ventilating Co.

5. Cesco Products.
6. Construction Specialties Inc.
7. Dowco Products Groups.
8. Greenheck Corp.
9. Industrial Louvers Inc.
10. Ruskin.

D. Louver Construction: Aluminum.

2.2 COMPONENTS

A. Aluminum: ASTM B221, 6063-T5 alloy; extruded shape; prefinished with shop applied fluoropolymer finish in colors selected by the Architect.

2.3 ACCESSORIES

A. Provide bird screens on all louvers.

B. Fasteners and Anchors: Stainless steel type.

C. Primer: As recommended by the Manufacturer.

D. Flashings: Of same material as louver frame. Sheet aluminum.

E. Sealants: Silicone type, manufactured by Dow Corning or Sonneborn.

2.4 FACTORY FINISHING

A. Exterior Aluminum Surfaces, Screen and Blank-Out Sheeting: Prepainted finish of color as selected by the Architect from full range.

PART 3 EXECUTION

3.1 EXAMINATION

A. Section 01 3000 - Administrative Requirements: Coordination and project conditions.

3.2 INSTALLATION

A. Install louver assembly in accordance with manufacturer’s instructions.

B. Install louvers level and plumb.

C. Install flashings and align louver assembly to ensure moisture shed from flashings and diversion of moisture to exterior.

D. Secure louvers in opening framing with concealed fasteners, removable for maintenance purposes.

E. Install perimeter sealant and backing rod in accordance with Section 07 9000.

3.3 CLEANING

A. Section 01 7000 - Execution Requirements - Final cleaning.

B. Strip protective finish coverings.

C. Clean surfaces and components.

END OF SECTION 08 9100

SECTION 27 15 43 – COMMUNICATIONS FACEPLATES AND CONNECTORS

PART 1 - GENERAL

1.1 DESCRIPTION

A. This section includes the minimum requirements for the installation, termination, and labeling of the faceplates and connectors as depicted on the Drawings and required by these specifications.

B. This section includes minimum requirements for the following:

1. Category 6 Jack Modules
2. Faceplates and Adaptors
3. Surface Mount Boxes

C. Related Sections include the following:

1. 27 05 28 - Pathways for Communications Systems
2. 27 11 16 - Communications Cabinets, Racks, Frames and Enclosures
3. 27 11 19 - Communications Termination Blocks and Patch Panels
4. 27 15 00.23 - Audio-Video Communications Horizontal Cabling
5. 27 15 13 - Communications Copper Horizontal Cabling

1.2 QUALITY ASSURANCE

A. All telecommunications and audio visual equipment and cabling shall be installed in a neat and workmanlike manner. All methods of construction that are not specifically described or indicated in the Contract Documents shall be subject to the approval of the Architect and Owners Representative. Equipment and materials shall be of the quality and manufacturer indicated. The equipment specified is based on the acceptable manufacturers listed. Where "Or equal” is stated, equipment shall be equivalent in every way to that of the equipment specified and subject to approval.

B. Materials and work specified herein shall comply with the requirements of the local Authority Having Jurisdiction. Refer to Section 27 05 00 for all applicable standards and codes.

1.3 SUBMITTALS

A. Contractor shall provide all submittals according to Section 27 05 00.

PART 2 - PRODUCTS

2.1 CATEGORY 6 JACK MODULES

A. Contractor shall provide the quantity of Category 6 jacks required by the contract drawings for the project. Provide jacks in faceplates in work areas as well as ER and TR locations as needed.

B. Physical Specifications:

1. Functional from -10 degrees F to 140 degrees F.
2. Tested in accordance with ANSI/TIA-568-C-2 for Category 6.
3. Modular RJ45 jacks that snap into user configurable faceplates meeting durability requirements specified in IEC 603-7.
4. IDC, RJ45 female type suitable for eight 22-26 AWG wires and be certified Category 6 compliant.
5. Wired in accordance with EIA/TIA T568B polarization sequence.
6. Jack color shall be Orange.

C. Acceptable Manufacturers:

1. Belden
2. Commscope
3. Hubbel
4. Leviton
5. Ortronics
6. Panduit

2.2 FACEPLATES

A. The faceplate shall be a one-piece, single or dual-gang flush-mount style that fits standard NEMA openings and accommodates low-voltage box eliminators for a flush mount.

B. It shall provide 1, 2, 3, 4, 6, 8, or 12 ports as required. The faceplate shall feature clear port ID windows.

C. It must be made of ~~**high-impact, fire-retardant plastic rated UL 94V-0, and be cULus Listed and compliant with ANSI/TIA-568-C.0 specifications.**~~ **stainless steel.**

D. Port counts, and configurations to be specified per schedules and details on contract drawings. Faceplate screws shall match faceplate color.

~~**E. Color shall be White unless otherwise noted. Confirm final color with architect based on location of installation.**~~

F. Contractor shall provide blanks **to match faceplate color** for all unused ports in all faceplates

G. Acceptable Manufacturers:

1. Belden
2. Commscope
3. Hubbel
4. Leviton
5. Ortronics
6. Panduit

2.3 SURFACE MOUNT BOX LOCATIONS

A. Contractor shall provide surface mount boxes only as shown on the T-Series drawings. Any other locations shall be clarified with the Owner before use.

B. Surface mount boxes shall be provided in one, two, or four outlet combinations as required for telecom outlet terminations. Provide boxes as required to fully cover and protect all telecommunications or audio visual connectors and terminations.

C. Boxes shall be plenum rated as required and mounted the manufacturer supplied in-ceiling support bracket for above ceiling installation.

D. Acceptable Manufacturers:

1. Belden
2. Commscope
3. Hubbel
4. Leviton
5. Ortronics
6. Panduit

PART 3 - EXECUTION

3.1 GENERAL

A. All cables shall be terminated with high density modular jacks that snap into a faceplate mounted on a wall outlet box or surface raceways.

B. Outlet boxes shall be secured to the building with mechanical fasteners. Adhesive fasteners are not allowed.

C. All openings not used shall be filled with appropriate blank inserts.

D. All locations including Audio Video connectors shall be labeled as to its purpose and/or destination. Confirm labeling with Architect and Owner before final installation.

3.2 FACEPLATES

A. Contractors shall provide and install all telecommunications faceplates, adaptors, and connectors as required to terminate all cabling.

3.3 INFORMATION OUTLET ROUGH-IN

A. Standard Information Outlets (single gang or double gang) shall be located at the same height as 120 volt AC outlets (normally 18" above finished floor).

B. Wall mounted telephones require a double gang box with a single gang plaster ring, positioned 46" A.F.F. to the center of the outlet box.

C. Information Outlets above countertops should be installed so that the center of the outlet box will be a minimum of 12" above the countertop.

1. A countertop with a backsplash may require different outlet box locations.

D. No Information Outlet will be installed such that workstations or devices served from it cannot be reasonably reached by a 16ft cord.

3.4 LABELING

A. Contractor shall complete labeling according to section 27 05 53.

END OF SECTION 27 15 43

SECTION 33 3100 – SANITARY SEWERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Installation of sanitary sewer mains, laterals, cleanouts, taps, manholes and related items.

1.3 ACTION SUBMITTALS

A. Product Certificates: Contractor shall submit the following certifications and documentation:

1. Producer name, location, and source/approval number of the precast reinforced sanitary manhole structures from the INDOT Certified Precast Concrete Producers list.

2. Manufacturer name, location and source/approval number of the PVC pipe and all plastic fittings from the INDOT plastic pipe and pipe liner sources list.

B. Product Data: For each type of product.

1. Contractor shall submit shop drawings, manufacturer information, details, material descriptions, and dimensions of individual components for the following:

a. Precast concrete sanitary manholes
b. Sanitary manhole castings
c. Plastic Pipe
d. Pipe Fittings
e. Granular Backfill
f. Gaskets
g. Tracer Wire

1.4 REGULATORY COMPLIANCE

A. The Contractor shall be responsible for ensuring all sanitary sewers and manholes are installed and tested in accordance with the approved IDEM Construction Permit Application.

1.5 PROJECT CONDITIONS

A. The Contractor shall field verify location, size, and elevation of the existing sanitary sewer system where proposed sanitary sewer systems are to be connected. Contractor shall report discrepancies to the Owner and Engineer immediately.

B. The Contractor shall field verify the location, size, and elevation of other existing utility conveyances including domestic water, sanitary sewer, natural gas, electric, and telecommunication cables/ducts prior to construction and immediately report conflicts with the proposed storm sewer systems to the Owner and Engineer.

C. Sanitary sewer pipe and structures shall comply with Citizens Energy Group Sanitary Standards (Current Edition) and all other responsible agencies in respect to design and quality of construction.

D. Sanitary sewer pipe material substitutions must be approved in writing by the Engineer.

PART 2 - PRODUCTS

2.1 TRACER WIRE

A. Provide green colored, 10-gauge solid copper insulated locating (tracer) wire taped to the top of all sanitary sewer mains and laterals.

2.2 POLYVINYL CHLORIDE (PVC) PIPE

A. Provide solid wall PVC pipe for gravity sanitary sewer mains and PVC wye fittings for sanitary laterals as follows:

1. For pipe sizes 15-inch and less which are less than 15 feet deep, provide SDR-35 PVC conforming to ASTM D3034.

2. For pipe sizes 15-inch and less which are 15 to 25 feet deep, provide SDR-26 PVC conforming to ASTM D3034.

3. For pipe sizes 15-inch and less which are within 10 feet of a water main or 50 feet of a water well, regardless of depth, provide SDR-21 PVC conforming to ASTM D3034.

B. PVC pipe joints shall be bell and spigot type with elastomeric seals per ASTM D3212 with gaskets conforming to ASTM F477.

2.3 PRECAST SANITARY MANHOLES

A. All sanitary manholes shall be precast concrete with integral concrete bases. Cast-in- place or separate precast concrete bases shall only be utilized as identified on the approved construction plans for installation of a doghouse manhole.

B. Precast concrete and steel for manholes and inlets shall be in accordance with ASTM C-478.

C. Castings shall be as shown on the detail sheet(s) for manufacturer, type, and model numbers.

D. Manhole steps shall be PS-1-PF by MA Industries, Peachtree Town, GA or approved equal.

E. A double row of Kent Seal #2 by Hamilton Kent Manufacturing Co., Kent, OH shall be used between adjacent manhole sections. Butyl wrap shall be provided on all exterior joints.

F. Openings for sanitary sewer pipe in new manholes shall be fitted with Kor-N-Seal boot assemblies with stainless steel tightening band by Dukor Co., Milford, NH or A-Lok X- Cel by A-Lok, Tullytown, PA (up to 18 feet deep).

1. Sanitary sewer pipe connections to existing manholes shall be made utilizing a CMA Waterstop by Fernco, Inc., Davidson, MI or approved equal.

2.4 SANITARY CLEANOUT COVER AND FRAME

A. Contractor shall provide Neenah R-1976, East Jordan Iron Works 1564A, or an approved equal for solid cleanout box cover and frame. Solid cover shall denote “sanitary cleanout” or “cleanout”.

2.5 CAST-IN-PLACE CONCRETE

A. Concrete used for cast-in-place bases on sanitary doghouse manholes shall be Class ‘A’ conforming to INDOT Standard Specifications Section 702.

2.6 MORTAR

A. Mortar for setting casting frames shall be composed of 1 part cement to 2 parts No. 23 fine aggregate by volume.

PART 3 - EXECUTION

3.1 GENERAL

A. Permits and Codes: The intent of this section of the specifications is that the Contractor's bid on the work covered herein shall be based upon the drawings and specifications but that the work shall comply with all applicable codes and regulations as amended by any waivers. The contractor shall furnish all bonds necessary to get permits for cuts and connections to existing sewers.

B. Contractor shall be responsible for confirming, coordinating, and scheduling all necessary inspections by Citizens Energy Group related to the sanitary sewer system installation.

C. Local Standards: The term "local standards" as used herein means the standards of design and construction of the Citizens Energy Group Sanitary Standards.

D. Existing Improvements: The Contractor shall maintain in operating condition all active utilities, sewers, and other drains encountered in the sewer installation. The Contractor shall repair to the satisfaction of the Owner any damage to existing active improvements.

E. Utilities: It shall be the responsibility of the Contractor to verity all existing utilities and conditions pertaining to his work. It shall also be the Contractor's responsibility to contact the owners of the various utilities before work is started. The Contractor shall notify in writing the Owner and Engineer of any changes, errors, or omissions found on these plans or in the field before work is started or resumed.

F. Workmanship: This work shall conform to all local, state, and national codes and to be approved by all local and state agencies having jurisdiction.

3.2 TRENCH EXCAVATION

A. Excavate storm sewer trenches to the widths and depths as indicated on the construction plans and details and in accordance Section 31 20 00 Earthwork.

3.3 STRUCTURE INSTALLATION

A. Contractor shall install precast concrete sanitary structures in accordance with Section 720 of the INDOT 2020 Standard Specifications.

1. Doghouse sanitary manholes shall be installed in accordance with the details shown in the construction plans. The portion of existing sanitary sewer mains within the limits of the doghouse manholes shall not be removed until the new sanitary sewer mains have been inspected, tested, and approved by Citizens Energy Group.

B. Excavation shall be to the established bottom of the structure foundations and shall result in a firm, smooth surface. If soft or yielding spots are encountered at this elevation, the Contractor shall remove the soft soil and backfill it with suitable granular backfill or crushed limestone aggregate materials tamped into place. If rock is encountered at the bottom elevation, the excavation shall be carried down 6 inches further and backfilled with an approved material tamped to the required elevation.

C. Inlet and outlet pipes shall extend through structure walls a sufficient distance to allow for connections to the outside and concrete/mortar carefully placed around them to prevent leakage around the pipe.

D. Frames for castings and bearing plates for manholes shall be set in full mortar beds and secured. Mortar shall be composed of 1 part cement to 2 parts No. 23 fine aggregate by volume. Castings shall be set to the finished pavement elevations so that subsequent adjustments are not necessary.

E. Where castings are adjacent to or are surrounded by cement concrete construction, each casting shall be entirely separated from the concrete by a preformed joint filler not less than 3/8" thick. Grates shall be places with the maximum dimension of the rectangular opening parallel to the direction of flow.

F. If a manhole is constructed within the pavement area, the total height of the casting specified plus the height of the adjusting rings shall be based on the adjacent pavement section depth.

G. If the completed structure is partially or completely under or at its nearest point is within 5 feet of pavement, sidewalks, curbs, gutters or buildings, the excavated space not occupied by the structure shall be backfilled with granular backfill material.

H. Manhole Inverts: construct manhole flow channels of concrete sewer pipe or brick, smoothly finished and of semicircular section conforming to the inside diameter of the connecting sewers. Make changes in size or grade gradually and changes indirection by true curves. Provide such channels for all connecting sewers at each manhole.

3.4 PIPE INSTALLATIONS

A. Contractor shall install sanitary sewer pipe in accordance with Citizens Energy Group Sanitary Standards & Specifications.

B. Excavate trenches in accordance with the details included in the construction plans and Section 31 20 00 Earthwork. Where pipe is to be place in fill sections, a portion of the fill shall be constructed and compacted in accordance with the specifications prior to pipe installation.

C. Sheet and brace trenches as necessary to protect workmen and adjacent structures. All trenching to comply with current Occupational Safety and Health Administration (OSHA) standards. Keep trenches free from water while construction is in progress. Under no circumstances shall pipe or appurtenances be laid in standing water. Conduct the discharge from trench de-watering to appropriately designed and sized dewatering bags or basins prior to discharging into storm sewer drains or natural drainage channels.

D. Install #8 compacted aggregate for bedding of flexible pipe in 6-inch lifts. Compaction shall be accomplished by hand or mechanical tamping or walking the granular material in.

E. Lay pipe to the lines and grades shown on the construction plans. All pipe shall be laid commencing from the lowest point, proceeding upstream, with the spigot ends pointing towards the direction of the flow. PVC pipe shall not be blocked for support. The practice of blocking pipe up to grade with bedding material then backfilling underneath the pipe is prohibited. The entire length of the bed section shall be at the proper grade before installing pipe.

F. Where PVC pipe is to be installed below the maximum ground water table, Contractor shall provide adequate weights to prevent floatation of the pipe.

G. Install PVC pipe on a firm, uniform foundation of bedding material under the entire lower quadrant of the barrel. No weight shall be supported by the pipe bell.

H. Pipe shall be carefully inserted into the bell in such that there will be no unevenness of any kind along the bottom half of the pipes and that there is a uniform joint space all around.

I. Contractor shall take special precautions when homing PVC pipe as to not over-seat past the home marks. Field cut pipes shall have the homing marks reestablished to ensure proper seating depths. Field cut pipes shall have the cut ends re-tapered, by grinding or filing, as close as possible, to the original taper provided by the manufacturer. When homing pipe with a spud-bar or other mechanical equipment, other than by hand, a piece of wood shall be placed between the pipe and tool to prevent damage to the bell end section.

J. All pipes which settle, or which are not in alignment, shall be taken up and re-laid at the Contractor's expense.

K. Backfilling: Pipe bedding and backfill shall be placed as shown in the plans. Contractor shall install initial backfill consisting of Class I material such as #8 aggregate a minimum of 12" above the top of PVC pipe. Contractor shall hand tamp or walk-in bedding and initial backfill. Contractor shall install Class II or clean sand granular backfill in 6-inch maximum lifts and mechanical compact to 95% modified proctor density when trenches are within 5 feet of sidewalks, pavement, curbs, or buildings. Compaction operations shall be completed taking care not to disturb the pipe.

3.5 DEWATERING

A. If necessary due to site conditions or excessive rainfall events, the Contractor shall dewater the site and/or excavations utilizing a system of pumps and re-useable dewatering bags. The Contractor shall not allow dewatering operations to discharge directly into storm sewers, storm inlets or manholes, ditches, or swales without an appropriately sized and selected dewatering bag. Under no circumstances shall dewatering operations associated with groundwater or precipitation be discharged into a sanitary sewer.

3.6 FIELD QUALITY CONTROL

A. Contractor shall perform all testing in the presence of the Engineer and Citizens Energy Group designated representatives.

B. Cleaning Flexible PVC Pipe: Contractor shall clean newly installed sanitary sewer pipe using a high-pressure water jet prior to conducting any testing.

C. Air Test for Flexible PVC Pipes: Contractor shall be responsible for performing air testing in between sanitary manholes in accordance with ASTM F1417-92.

D. Sanitary Manhole Vacuum Testing: Contractor shall be responsible for performing vacuum testing in accordance with ASTM C1244-93 “Standard Test Method for Concrete Sewer Manholes” by the negative air pressure (vacuum test). Vacuum testing shall be performed from the top of the casting down.

E. Deflection Testing for Flexible PVC Pipes: Contractor shall be responsible for performing deflection testing in accordance with the following requirements:

1. Perform testing on all PVC sanitary sewer pipe 8-inch and larger after the final backfill has been in place for at least 30 days.

2. Perform deflection testing using a mandrel pulled by hand. The mandrel (go/no- go) devise shall be cylindrical in shape and constructed with nine or ten evenly spaced arms or prongs.

3. No pipe shall exceed a vertical deflection of 5%. Contractor shall uncover, replace, and retest any pipe not passing the deflection test until a satisfactory result is achieved.

F. Television Inspection: Contractor shall be responsible for televising the sanitary sewer in accordance with the following requirements:

1. Televise all mainline sanitary sewers (manhole to manhole).

2. Perform television inspection in the presence of the Owner’s designated representative.

3. Clean all new sanitary sewers prior to television inspection so the image is clear and interior condition of the pipe is easily evaluated.

4. Correct all unacceptable conditions found during television inspection and re- televise until no unacceptable conditions are found.

5. Unacceptable conditions are those adversely impacting the ability of the system to function as designed or to be properly maintained including but not limited to the following:

a. Protruding taps

b. Cracked or faulty pipe

c. Misaligned or deformed pipe

d. Debris in line

e. Infiltration/exfiltration

f. Excessive gaps in joints

g. Bellies or sags with a depth greater than or equal to 10% of the pipe diameter (maximum of 3 inches) or a length greater than 25 feet.

6. Submit copy of the televising recording (USB format) to the Owner within 14 calendar days of the inspection.

END OF SECTION 33 3100

SECTION 330500 - COMMON WORK RESULTS FOR UTILITIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Piping joining materials.
2. Transition fittings.
3. Dielectric fittings.
4. Sleeves.
5. Identification devices.
6. Grout.
7. Flowable fill.
8. Piped utility demolition.
9. Piping system common requirements.
10. Equipment installation common requirements.
11. Painting.
12. Concrete bases.
13. Metal supports and anchorages.

1.2 DEFINITIONS

A. Exposed Installations: Exposed to view outdoors or subject to outdoor ambient temperatures and weather conditions.

B. Concealed Installations: Concealed from view and protected from weather conditions and physical contact by building occupants but subject to outdoor ambient temperatures. Examples include installations within unheated shelters.

C. ABS: Acrylonitrile-butadiene-styrene plastic.

D. CPVC: Chlorinated polyvinyl chloride plastic.

E. PE: Polyethylene plastic.

F. PVC: Polyvinyl chloride plastic.

1.3 ACTION SUBMITTALS

A. Product Data: For the following:

1. Dielectric fittings.
2. Identification devices.

1.4 INFORMATIONAL SUBMITTALS

A. Welding certificates.

1.5 QUALITY ASSURANCE

A. Steel Support Welding: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."

B. Steel Piping Welding: Qualify processes and operators according to ASME Boiler and Pressure Vessel Code: Section IX, "Welding and Brazing Qualifications."

1. Comply with provisions in ASME B31 Series, "Code for Pressure Piping."
2. Certify that each welder has passed AWS qualification tests for welding processes involved and that certification is current.

C. Comply with ASME A13.1 for lettering size, length of color field, colors, and viewing angles of identification devices.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver pipes and tubes with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe end damage and to prevent entrance of dirt, debris, and moisture.

B. Store plastic pipes protected from direct sunlight. Support to prevent sagging and bending.

1.7 COORDINATION

A. Coordinate installation of required supporting devices and set sleeves in poured-in-place concrete and other structural components as they are constructed.

B. Coordinate installation of identifying devices after completing covering and painting if devices are applied to surfaces.

C. Coordinate size and location of concrete bases. Formwork, reinforcement, and concrete requirements are specified in Section 033000 "Cast-in-Place Concrete."

PART 2 - PRODUCTS

2.1 PIPING JOINING MATERIALS

A. Pipe-Flange Gasket Materials: Suitable for chemical and thermal conditions of piping system contents.

1. ASME B16.21, nonmetallic, flat, asbestos free, 1/8-inch maximum thickness, unless otherwise indicated.

a. Full-Face Type: For flat-face, Class 125, cast-iron and cast-bronze flanges.
b. Narrow-Face Type: For raised-face, Class 250, cast-iron and steel flanges.

2. AWWA C110, rubber, flat face, 1/8 inch thick, unless otherwise indicated; and full-face or ring type, unless otherwise indicated.

B. Flange Bolts and Nuts: ASME B18.2.1, carbon steel, unless otherwise indicated.

C. Plastic, Pipe-Flange Gasket, Bolts, and Nuts: Type and material recommended by piping system manufacturer, unless otherwise indicated.

D. Solder Filler Metals: ASTM B32, lead-free alloys. Include water-flushable flux according to ASTM B813.

E. Brazing Filler Metals: AWS A5.8, BCuP Series, copper-phosphorus alloys for general-duty brazing, unless otherwise indicated; and AWS A5.8, BAg1, silver alloy for refrigerant piping, unless otherwise indicated.

F. Welding Filler Metals: Comply with AWS D10.12/D10.12M for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.

G. Solvent Cements for Joining Plastic Piping:

1. ABS Piping: ASTM D2235.
2. CPVC Piping: ASTM F493.
3. PVC Piping: ASTM D2564. Include primer according to ASTM F656.
4. PVC to ABS Piping Transition: ASTM D3138.

H. Fiberglass Pipe Adhesive: As furnished or recommended by pipe manufacturer.

2.2 TRANSITION FITTINGS

A. Transition Fittings, General: Same size as, and with pressure rating at least equal to and with ends compatible with, piping to be joined.

B. Transition Couplings NPS 1-1/2 and Smaller:

1. Underground Piping: Manufactured piping coupling or specified piping system fitting.
2. Aboveground Piping: Specified piping system fitting.

C. AWWA Transition Couplings NPS 2 and Larger:

1. Manufacturers: Subject to compliance with requirements, [**provide products by the following**] [**provide products by one of the following**] [**available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following**]:

a. Cascade Waterworks Mfg. Co.
b. Dresser Utility Solutions.
c. Ford Meter Box Company, Inc. (The).

d. JCM Industries, Inc.
e. Smith-Blair, a Xylem brand.
f. Viking Johnson.

2. Description: AWWA C219, metal sleeve-type coupling for underground pressure piping.

D. Plastic-to-Metal Transition Fittings:

1. Manufacturers: Subject to compliance with requirements, **available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following**:

a. Spears Manufacturing Company.

2. Description: **PVC**one-piece fitting with manufacturer's Schedule 80 equivalent dimensions; one end with threaded brass insert, and one solvent-cement-joint **or threaded** end.

E. Plastic-to-Metal Transition Unions:

1. Manufacturers: Subject to compliance with requirements, **available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following**:

a. Colonial Engineering, Inc.
b. NIBCO INC.
c. Spears Manufacturing Company.

2. Description: MSS SP-107, **PVC** four-part union. Include brass[**or stainless steel**] threaded end, solvent-cement-joint **or threaded** plastic end, rubber O-ring, and union nut.

F. Flexible Transition Couplings for Underground Nonpressure Drainage Piping:

1. Manufacturers: Subject to compliance with requirements, **available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following**:

a. Cascade Waterworks Mfg. Co.
b. Fernco Inc.
c. Mission Rubber Company, LLC; a division of MCP Industries.
d. Plastic Oddities.

2. Description: ASTM C1173 with elastomeric sleeve, ends same size as piping to be joined, and corrosion-resistant metal band on each end.

2.3 DIELECTRIC FITTINGS

A. Dielectric Fittings, General: Assembly of copper alloy and ferrous materials or ferrous material body with separating nonconductive insulating material suitable for system fluid, pressure, and temperature.

B. Dielectric Unions:

1. Manufacturers: Subject to compliance with requirements, **available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following**:

   a. Capitol Manufacturing Company.
   b. Epco Sales, Inc.
   c. GF Piping Systems: Georg Fischer LLC.
   d. HART Industrial Unions, LLC.
   e. WATTS; A Watts Water Technologies Company.
   f. Zurn Industries, LLC.

2. Description: Factory fabricated, union, NPS 2 and smaller.

   a. Pressure Rating: 150 psig **minimum** at 180 deg F.
   b. End Connections: Solder-joint copper alloy and threaded ferrous; threaded ferrous.

C. Dielectric Flanges:

1. Manufacturers: Subject to compliance with requirements, **available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following**:

   a. Capitol Manufacturing Company.
   b. Epco Sales, Inc.
   c. GF Piping Systems: Georg Fischer LLC.
   d. WATTS; A Watts Water Technologies Company.
   e. Zurn Industries, LLC.

2. Description: Factory-fabricated, bolted, companion-flange assembly, NPS 2-1/2 to NPS 4 and larger.

   a. Pressure Rating: 175 psig **minimum**.
   b. End Connections: Solder-joint copper alloy and threaded ferrous; threaded solder-joint copper alloy and threaded ferrous.

D. Dielectric-Flange Kits:

1. Manufacturers: Subject to compliance with requirements, **available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following**:

   a. Advance Products & Systems, LLC.
   b. CALPICO, Inc.
   c. GF Piping Systems: Georg Fischer LLC.
   d. GPT; a division of EnPRO Industries.

2. Description: Nonconducting materials for field assembly of companion flanges, NPS 2-1/2 and larger.

a. Pressure Rating: 150 psig **minimum**.
b. Gasket: Neoprene or phenolic.
c. Bolt Sleeves: Phenolic or polyethylene.
d. Washers: Phenolic with steel backing washers.

E. Dielectric Couplings:

1. Manufacturers: Subject to compliance with requirements, **available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following**:

a. CALPICO, Inc.
b. Lochinvar, LLC.

2. Description: Galvanized-steel coupling with inert and noncorrosive, thermoplastic lining, NPS 3 and smaller.

a. Pressure Rating: 300 psig at 225 deg F.
b. End Connections: Threaded.

F. Dielectric Nipples:

1. Manufacturers: Subject to compliance with requirements, **available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following**:

a. Elster Perfection; Honeywell.
b. Precision Plumbing Products.
c. Victaulic Company.

2. Description: Electroplated steel nipple with inert and noncorrosive, thermoplastic lining.

a. Pressure Rating: 300 psig **at** 225 deg F.
b. End Connections: Threaded or grooved.

2.4 SLEEVES

A. Mechanical sleeve seals for pipe penetrations are specified in Section 220500 "Common Work Results for Plumbing."

B. Galvanized-Steel Sheet Sleeves: 0.0239-inch minimum thickness; round tube closed with welded longitudinal joint.

C. Steel Pipe Sleeves: ASTM A53/A53M, Type E, Grade B, Schedule 40, galvanized, plain ends.

D. Cast-Iron Sleeves: Cast or fabricated "wall pipe" equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.

E. Molded PVC Sleeves: Permanent, with nailing flange for attaching to wooden forms.

F. PVC Pipe Sleeves: ASTM D1785, Schedule 40.

G. Molded PE Sleeves: Reusable, PE, tapered-cup shaped, and smooth outer surface with nailing flange for attaching to wooden forms.

2.5 IDENTIFICATION DEVICES

A. General: Products specified are for applications referenced in other utilities Sections. If more than single type is specified for listed applications, selection is Installer's option.

B. Equipment Nameplates: Metal permanently fastened to equipment with data engraved or stamped.

1. Data: Manufacturer, product name, model number, serial number, capacity, operating and power characteristics, labels of tested compliances, and essential data.
2. Location: Accessible and visible.

C. Stencils: Standard stencils prepared with letter sizes complying with recommendations in ASME A13.1. Minimum letter height is 1-1/4 inches for ducts, and 3/4 inch for access door signs and similar operational instructions.

1. Material: **Brass**.
2. Stencil Paint: Exterior, oil-based, alkyd-gloss black enamel, unless otherwise indicated. Paint may be in pressurized spray-can form.
3. Identification Paint: Exterior, oil-based, alkyd enamel in colors according to ASME A13.1, unless otherwise indicated.

D. Snap-on Plastic Pipe Markers: Manufacturer's standard preprinted, semirigid, snap-on type. Include color-coding according to ASME A13.1, unless otherwise indicated.

E. Pressure-Sensitive Pipe Markers: Manufacturer's standard preprinted, color-coded, pressure-sensitive-vinyl type with permanent adhesive.

F. Pipes with OD, Including Insulation, Less Than 6 Inches: Full-band pipe markers, extending 360 degrees around pipe at each location.

G. Pipes with OD, Including Insulation, 6 Inches and Larger: Either full-band or strip-type pipe markers, at least three times letter height and of length required for label.

H. Lettering:

1. Manufacturer's standard preprinted captions as selected by Architect.
2. Use piping system terms indicated and abbreviate only as necessary for each application length.

a. Arrows: Either integrally with piping system service lettering to accommodate both directions of flow, or as separate unit on each pipe marker to indicate direction of flow.

I. Plastic Tape: Manufacturer's standard color-coded, pressure-sensitive, self-adhesive vinyl tape, at least 3 mils thick.

1. Width: 1-1/2 inches on pipes with OD, including insulation, less than 6 inches; 2-1/2 inches for larger pipes.
2. Color: Comply with ASME A13.1, unless otherwise indicated.

J. Valve Tags: Stamped or engraved with 1/4-inch letters for piping system abbreviation and 1/2-inch sequenced numbers. Include 5/32-inch hole for fastener.

1. Material:

a. 0.032-inch- thick, [**polished brass**] [**or**] [**aluminum**].
b. 0.0375-inch- thick stainless steel.
c. 3/32-inch- thick plastic laminate with 2 black surfaces and a white inner layer.
d. Valve manufacturer's standard solid plastic.

2. Size: 1-1/2 inches in diameter, unless otherwise indicated.
3. Shape: As indicated for each piping system.

K. Valve Tag Fasteners: Brass, wire-link or beaded chain; or brass S-hooks.

L. Engraved Plastic-Laminate Signs: ASTM D709, Type I, cellulose, paper-base, phenolic-resin-laminate engraving stock; Grade ES-2, black surface, black phenolic core, with white melamine subcore, unless otherwise indicated. Fabricate in sizes required for message. Provide holes for mechanical fastening.

1. Engraving: Engraver's standard letter style, of sizes and with terms to match equipment identification.
2. Thickness:

a. 1/8 inch, unless otherwise indicated.
b. 1/16 inch, for units up to 20 sq. in. or 8 inches in length, and 1/8 inch for larger units.

3. Fasteners: Self-tapping, stainless steel screws or contact-type permanent adhesive.

M. Plastic Equipment Markers: Manufacturer's standard laminated plastic, in the following color codes:

1. Green: Cooling equipment and components.
2. Yellow: Heating equipment and components.
3. Brown: Energy reclamation equipment and components.
4. Blue: Equipment and components that do not meet criteria above.
5. Hazardous Equipment: Use colors and designs recommended by ASME A13.1.
6. Terminology: Match schedules as closely as possible. Include the following:

a. Name and plan number.
b. Equipment service.
c. Design capacity.
d. Other design parameters such as pressure drop, entering and leaving conditions, and speed.

7. Size: 2-1/2 by 4 inches for control devices, dampers, and valves; 4-1/2 by 6 inches for equipment.

N. Plasticized Tags: Preprinted or partially preprinted, accident-prevention tags, of plasticized card stock with mat finish suitable for writing.

1. Size: 3-1/4 by 5-5/8 inches.
2. Fasteners: Brass grommets and wire.
3. Nomenclature: Large-size primary caption such as DANGER, CAUTION, or DO NOT OPERATE.

O. Lettering and Graphics: Coordinate names, abbreviations, and other designations used in piped utility identification with corresponding designations indicated. Use numbers, letters, and terms indicated for proper identification, operation, and maintenance of piped utility systems and equipment.

1. Multiple Systems: Identify individual system number and service if multiple systems of same name are indicated.

2.6 GROUT

A. Description: ASTM C1107, Grade B, nonshrink and nonmetallic, dry hydraulic-cement grout.

1. Characteristics: Post hardening, volume adjusting, nonstaining, noncorrosive, nongaseous, and recommended for interior and exterior applications.
2. Design Mix: 5000-psi, 28-day compressive strength.
3. Packaging: Premixed and factory packaged.

2.7 FLOWABLE FILL

A. Description: Low-strength-concrete, flowable-slurry mix.

1. Cement: ASTM C150, Type I, portland.
2. Density: 145-lb/cu. ft..
3. Aggregates:

a. ASTM C33, natural sand, fine and crushed gravel or stone, coarse.
b. ASTM C33, natural sand, fine.

4. Admixture: ASTM C618, fly-ash mineral.
5. Water: Comply with ASTM C94/C94M.
6. Strength: 200 psig at 28 days.

PART 3 - EXECUTION

3.1 PIPED UTILITY DEMOLITION

A. Refer to Section 024119 "Selective Demolition" for general demolition requirements and procedures.

B. Disconnect, demolish, and remove piped utility systems, equipment, and components indicated to be removed.

1. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
2. Piping to Be Abandoned in Place: Drain piping. Fill abandoned piping with flowable fill, and cap or plug piping with same or compatible piping material.
3. Equipment to Be Removed: Disconnect and cap services and remove equipment.
4. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make operational.
5. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.

C. If pipe, insulation, or equipment to remain is damaged in appearance or is unserviceable, remove damaged or unserviceable portions and replace with new products of equal capacity and quality.

3.2 DIELECTRIC FITTING APPLICATIONS

A. Dry Piping Systems: Connect piping of dissimilar metals with the following:

1. NPS 2 and Smaller: Dielectric unions.
2. NPS 2-1/2 to NPS 12: Dielectric flanges.

B. Wet Piping Systems: Connect piping of dissimilar metals with the following:

1. NPS 2 and Smaller: Dielectric **couplings**.
2. NPS 2-1/2 to NPS 4: Dielectric nipples.
3. NPS 2-1/2 to NPS 8: Dielectric nipples **or dielectric flange kits**.
4. NPS 10 and NPS 12: Dielectric flange kits.

3.3 INSTALLATION OF PIPING

A. Install piping according to the following requirements and utilities Sections specifying piping systems.

B. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Indicated locations and arrangements were used to size pipe and calculate friction loss, expansion, pump sizing, and other design considerations. Install piping as indicated unless deviations to layout are approved on the Coordination Drawings.

C. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise.

D. Install piping to permit valve servicing.

E. Install piping at indicated slopes.

F. Install piping free of sags and bends.

G. Install fittings for changes in direction and branch connections.

H. Select system components with pressure rating equal to or greater than system operating pressure.

I. Sleeves are not required for core-drilled holes.

J. Permanent sleeves are not required for holes formed by removable PE sleeves.

K. Install sleeves for pipes passing through concrete and masonry walls and concrete floor and roof slabs.

1. Cut sleeves to length for mounting flush with both surfaces.

a. Exception: Extend sleeves installed in floors of equipment areas or other wet areas 2 inches above finished floor level.

2. Install sleeves in new walls and slabs as new walls and slabs are constructed.

a. Pipe Sleeves: **PVC**. For pipes smaller than NPS 6.
b. Steel Sheet Sleeves: For pipes NPS 6 and larger, penetrating gypsum-board partitions.

L. Verify final equipment locations for roughing-in.

M. Refer to equipment specifications in other Sections for roughing-in requirements.

3.4 PIPING JOINT CONSTRUCTION

A. Join pipe and fittings according to the following requirements and utilities Sections specifying piping systems.

B. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.

C. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.

D. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:

1. Apply appropriate tape or thread compound to external pipe threads unless dry seal threading is specified.

2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged. Do not use pipe sections that have cracked or open welds.

E. Welded Joints: Construct joints according to AWS D10.12/D10.12M, using qualified processes and welding operators according to Part 1 "Quality Assurance" Article.

F. Flanged Joints: Select appropriate gasket material, size, type, and thickness for service application. Install gasket concentrically positioned. Use suitable lubricants on bolt threads.

G. Grooved Joints: Assemble joints with grooved-end pipe coupling with coupling housing, gasket, lubricant, and bolts according to coupling and fitting manufacturer's written instructions.

H. Soldered Joints: Apply ASTM B813 water-flushable flux, unless otherwise indicated, to tube end. Construct joints according to ASTM B828 or CDA's "Copper Tube Handbook," using lead-free solder alloy (0.20 percent maximum lead content) complying with ASTM B32.

I. Brazed Joints: Construct joints according to AWS's "Brazing Handbook," "Pipe and Tube" Chapter, using copper-phosphorus brazing filler metal complying with AWS A5.8.

J. Pressure-Sealed Joints: Assemble joints for plain-end copper tube and mechanical pressure seal fitting with proprietary crimping tool to according to fitting manufacturer's written instructions.

K. Plastic Piping Solvent-Cemented Joints: Clean and dry joining surfaces. Join pipe and fittings according to the following:

1. Comply with ASTM F402 for safe-handling practice of cleaners, primers, and solvent cements.
2. ABS Piping: Join according to ASTM D2235 and ASTM D2661 appendixes.
3. CPVC Piping: Join according to ASTM D2846/D2846M Appendix.
4. PVC Pressure Piping: Join schedule number ASTM D1785, PVC pipe and PVC socket fittings according to ASTM D2672. Join other-than-schedule-number PVC pipe and socket fittings according to ASTM D2855.
5. PVC Nonpressure Piping: Join according to ASTM D2855.
6. PVC to ABS Nonpressure Transition Fittings: Join according to ASTM D3138Appendix.

L. Plastic Pressure Piping Gasketed Joints: Join according to ASTM D3139.

M. Plastic Nonpressure Piping Gasketed Joints: Join according to ASTM D3212.

N. Plastic Piping Heat-Fusion Joints: Clean and dry joining surfaces by wiping with clean cloth or paper towels. Join according to ASTM D2657.

1. Plain-End PE Pipe and Fittings: Use butt fusion.
2. Plain-End PE Pipe and Socket Fittings: Use socket fusion.

O. Bonded Joints: Prepare pipe ends and fittings, apply adhesive, and join according to pipe manufacturer's written instructions.

3.5 PIPING CONNECTIONS

A. Make connections according to the following, unless otherwise indicated:

1. Install unions, in piping NPS 2 and smaller, adjacent to each valve and at final connection to each piece of equipment.
2. Install flanges, in piping NPS 2-1/2 and larger, adjacent to flanged valves and at final connection to each piece of equipment.
3. Install dielectric fittings at connections of dissimilar metal pipes.

3.6 INSTALLATION OF EQUIPMENT

A. Install equipment level and plumb, unless otherwise indicated.

B. Install equipment to facilitate service, maintenance, and repair or replacement of components. Connect equipment for ease of disconnecting, with minimum interference with other installations. Extend grease fittings to an accessible location.

C. Install equipment to allow right of way to piping systems installed at required slope.

3.7 PAINTING

A. Painting of piped utility systems, equipment, and components is specified in Section 099113 "Exterior Painting," Section 099123 "Interior Painting," and Section 099600 "High-Performance Coatings."

B. Damage and Touchup: Repair marred and damaged factory-painted finishes with materials and procedures to match original factory finish.

3.8 IDENTIFICATION

A. Piping Systems: Install pipe markers on each system. Include arrows showing normal direction of flow.

1. Stenciled Markers: According to ASME A13.1.
2. Plastic markers, with application systems. Install on insulation segment if required for hot noninsulated piping.
3. Locate pipe markers on exposed piping according to the following:

    a. Near each valve and control device.
    b. Near each branch, excluding short takeoffs for equipment and terminal units. Mark each pipe at branch if flow pattern is not obvious.
    c. Near locations where pipes pass through walls or floors or enter inaccessible enclosures.
    d. At manholes and similar access points that permit view of concealed piping.
    e. Near major equipment items and other points of origination and termination.

B. Equipment: Install engraved plastic-laminate sign or equipment marker on or near each major item of equipment.

1. Lettering Size: Minimum 1/4 inch high for name of unit if viewing distance is less than 24 inches, 1/2 inch high for distances up to 72 inches, and proportionately larger lettering for greater distances. Provide secondary lettering two-thirds to three-fourths of size of principal lettering.
2. Text of Signs: Provide name of identified unit. Include text to distinguish among multiple units, inform user of operational requirements, indicate safety and emergency precautions, and warn of hazards and improper operations.

C. Adjusting: Relocate identifying devices that become visually blocked by work of this or other Divisions.

3.9 CONCRETE BASES

A. Concrete Bases: Anchor equipment to concrete base according to equipment manufacturer's written instructions and according to seismic codes at Project.

1. Construct concrete bases of dimensions indicated, but not less than 4 inches larger in both directions than supported unit.
2. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch centers around the full perimeter of base.
3. Install epoxy-coated anchor bolts for supported equipment that extend through concrete base, and anchor into structural concrete floor.
4. Place and secure anchorage devices. Use supported equipment manufacturer's setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
5. Install anchor bolts to elevations required for proper attachment to supported equipment.
6. Install anchor bolts according to anchor-bolt manufacturer's written instructions.
7. Use 3000-psi, 28-day compressive-strength concrete and reinforcement as specified in Section 033000 "Cast-in-Place Concrete."

3.10 ERECTION OF METAL SUPPORTS AND ANCHORAGES

A. Refer to Section 055000 "Metal Fabrications" for structural steel.

B. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor piped utility materials and equipment.

C. Field Welding: Comply with AWS D1.1/D1.1M.

3.11 GROUTING

A. Mix and install grout for equipment base bearing surfaces, pump and other equipment base plates, and anchors.

B. Clean surfaces that will come into contact with grout.

C. Provide forms as required for placement of grout.

D. Avoid air entrapment during placement of grout.

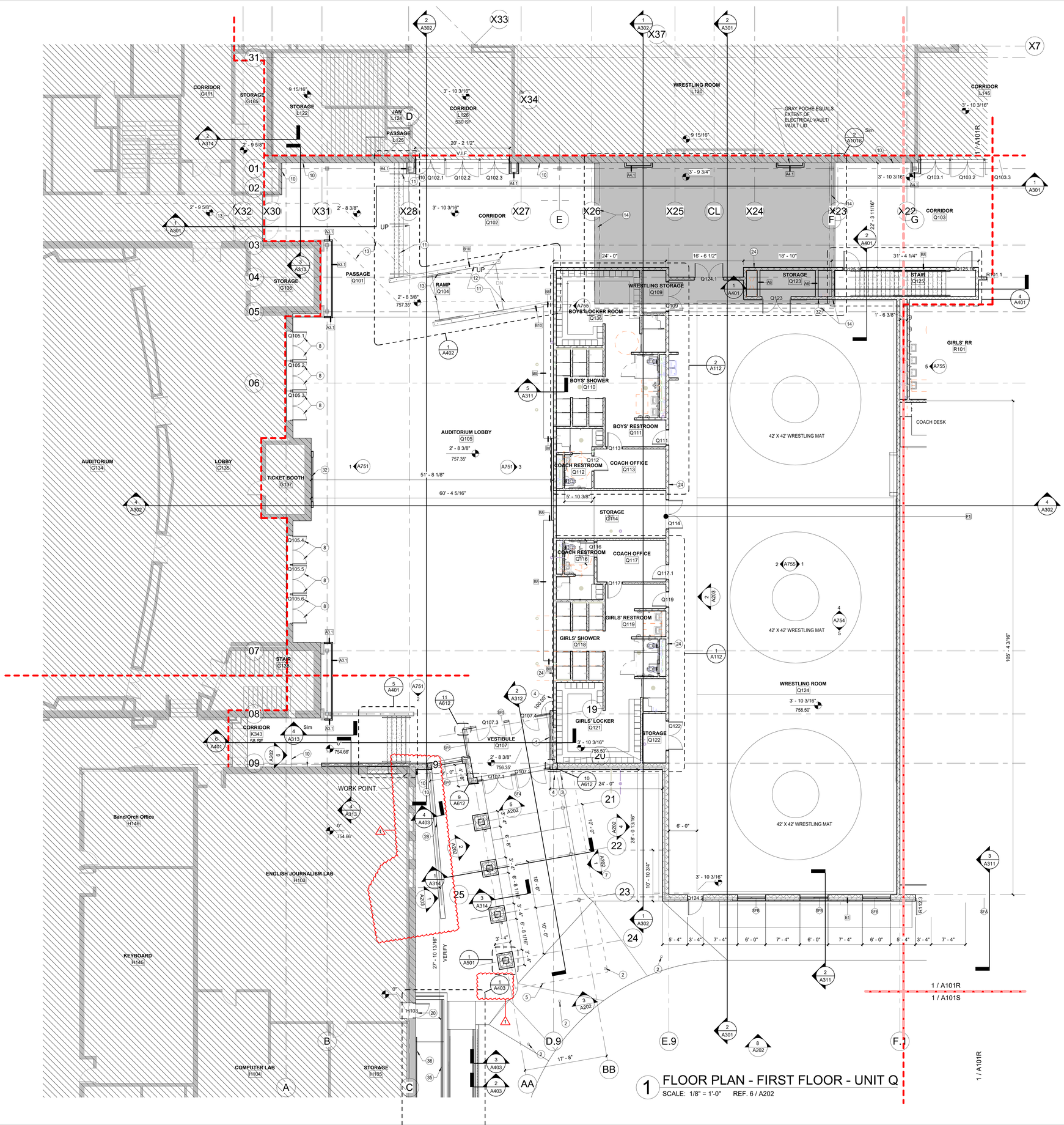
E. Place grout, completely filling equipment bases.

F. Place grout on concrete bases and provide smooth bearing surface for equipment.

G. Place grout around anchors.

H. Cure placed grout.

END OF SECTION



1 FLOOR PLAN - FIRST FLOOR - UNIT Q
SCALE: 1/8" = 1'-0" REF. 6 / A202

GENERAL NOTES

A. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS WITH GYPSUM BOARD FINISH.

B. PROVIDE BULL-NOSE FINISH ON ALL OUTSIDE CORNERS OF CMU WALLS

C. SEE ELEVATIONS FOR EXTERIOR MASONRY TYPE AND SIZES

D. PROVIDE SOLID SURFACE WINDOW SILLS @ ALL STOREFRONT GLAZING SILLS ABOVE FINISHED FLOOR HEIGHT. WINDOW SILL TO EXTEND 1" PAST FINISHED WALL SURFACE, TYP. UNLESS NOTED OTHERWISE

E. VIF ALL DIMENSIONS FOR WINDOWS AND CASEWORK

F. INTERIOR DIMENSIONS ARE TAKEN TO THE FACE OF MASONRY OR STUDS

G. FOR ALL RESTROOM FACILITIES WITH GYPSUM WALL FINISH REPLACE 5/8" TYPE "X" GYPSUM BOARD WITH 5/8" MOISTURE RESISTANT GYPSUM BOARD, SEE SPECS FOR DETAILS

H. WHERE COLUMNS ARE NOT INDICATED TO BE WRAPPED, PAINT P-1

I. WALLS TO GO UP TO DECK UNLESS NOTED OTHERWISE

J. PROVIDE WINDOW SHADES AT ALL EXTERIOR PUNCHED OPENINGS AND WHERE INDICATED ON PLANS

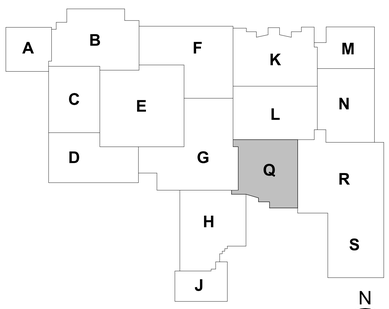
OUT OF SCOPE

PLAN NOTES - FLOOR PLAN

1 SIDEWALK, SEE CIVIL.
2 STEEL BOLLARD, PAINTED. 42" TALL.
3 ACCESS CONTROL READER. SEE SPECS AND TECH DRAWINGS.
4 ADA ACCESS PADDLE. SEE SPECFICIATIONS FOR ADDITIONAL INFORMATION.
5 LINE OF CANOPY ABOVE.
7 ELECTRICAL TRANSFORMER, SEE ELECTRICAL.
8 NEW DOOR AND FRAME.
10 EXPANSION JOINT.
11 ALUMINUM HANDRAIL
12 ALUMINUM RAMP HANDRAIL. SEE DETAIL ON A40X
13 LINE OF UTILITY TUNNEL BELOW. FIELD VERIFY LOCATION
14 LINE OF UTILITY VAULT BELOW.
16 FOUR (4) LANE WALKING TRACK
17 REGULATION BASKETBALL AND VOLLEYBALL COURT
18 AREA FOR TILT UP BLEACHER STORAGE
19 RESTROOM WITH ROLL IN SHOWER AND ADJUSTABLE HEIGHT ADULT CHANGING TABLE SIMILAR TO KOALA KARE MODEL KB3000-AHL.
20 NEW DOOR AND FRAME CUT INTO EXISTING WALL.
21 GROUT AND REINFORCE WALL FOR IMPACT FROM MEDICINE BALLS.
22 CONCRETE RAMP
23 PROVIDE THICKENED SLAB FOR EXTENT OF ROOM. SEE STRUCTURAL.
24 SEMI-RECESSED FIRE EXTINGUISHER CABINET.
25 ALIGN BOTTOM OF RAMP WITH FACE OF WALL
26 ALIGN FACES OF WALL WITH EXISTING FACE OF WALL
27 VOLLEYBALL INSERTS
28 CONCRETE RETAINING WALL WITH STEEL HANDRAIL.
29 SEAL PENETRATIONS AND REPAIR CONRETE AROUND PENETRATIONS IN FOUNDATION WALL. FULL HEIGHT OF WALL.
30 FLUID-APPLIED WATERPROOFING WITH PROTECTION BOARD. FROM FOOTING TO TOP OF FOUNDATION WALL.
31 IN FILL WALL TO MATCH ADJACENT.
32 TV MONITOR, SEE TECHNOLOGY
33 LOCATION FOR KEYED CONTROLS FOR ATHLETIC EQUIPMENT. SEE ELECTRICAL DRAWINGS.
34 GAS METER - REFER TO P SERIES DRAWINGS
35 GALVANIZED STEEL HANDRAIL, FIELD PAINTED, COLOR TBD. SEE DETAIL 3 ON A403
36 WALL MOUNTED GALVANIZED STEEL HANDRAIL, FIELD PAINTED, COLOR TBD.

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227



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REVISIONS:

#	Date	Desc.
1	01/30/2026	Addendum #01

100% CONSTRUCTION DOCUMENTS

PROJECT:	#24173S
DATE:	01-06-2026
DRAWN BY:	BJZ, EL

FLOOR PLAN - FIRST FLOOR - UNIT Q

A101Q

PLOT DATE/TIME: 1/30/2026 2:45:54 PM

GENERAL NOTES

A. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS WITH GYPSUM BOARD FINISH.

B. PROVIDE BULL-NOSE FINISH ON ALL OUTSIDE CORNERS OF CMU WALLS

C. SEE ELEVATIONS FOR EXTERIOR MASONRY TYPE AND SIZES

D. PROVIDE SOLID SURFACE WINDOW SILLS @ ALL STOREFRONT GLAZING SILLS ABOVE FINISHED FLOOR HEIGHT. WINDOW SILL TO EXTEND 1" PAST FINISHED WALL SURFACE, TYP. UNLESS NOTED OTHERWISE

E. VIF ALL DIMENSIONS FOR WINDOWS AND CASEWORK

F. INTERIOR DIMENSIONS ARE TAKEN TO THE FACE OF MASONRY OR STUDS

G. FOR ALL RESTROOM FACILITIES WITH GYPSUM WALL FINISH REPLACE 5/8" TYPE "X" GYPSUM BOARD WITH 5/8" MOISTURE RESISTANT GYPSUM BOARD, SEE SPECS FOR DETAILS

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J. PROVIDE WINDOW SHADES AT ALL EXTERIOR PUNCHED OPENINGS AND WHERE INDICATED ON PLANS

OUT OF SCOPE

PLAN NOTES - FLOOR PLAN

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29 SEAL PENETRATIONS AND REPAIR CONRETE AROUND PENETRATIONS IN FOUNDATION WALL. FULL HEIGHT OF WALL.
30 FLUID-APPLIED WATERPROOFING WITH PROTECTION BOARD. FROM FOOTING TO TOP OF FOUNDATION WALL.
31 IN FILL WALL TO MATCH ADJACENT.
32 TV MONITOR, SEE TECHNOLOGY
33 LOCATION FOR KEYED CONTROLS FOR ATHLETIC EQUIPMENT. SEE ELECTRICAL DRAWINGS.
34 GAS METER - REFER TO P SERIES DRAWINGS
35 GALVANIZED STEEL HANDRAIL, FIELD PAINTED, COLOR TBD. SEE DETAIL 3 ON A403
36 WALL MOUNTED GALVANIZED STEEL HANDRAIL, FIELD PAINTED, COLOR TBD.

1 FLOOR PLAN - FIRST FLOOR - UNIT R
SCALE: 1/8" = 1'-0" REF. 6 / A202

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

TERYL L CRIPE REGISTERED NO 8800139 STATE OF INDIANA

REVISIONS:

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1	01/30/2026	Addendum #01

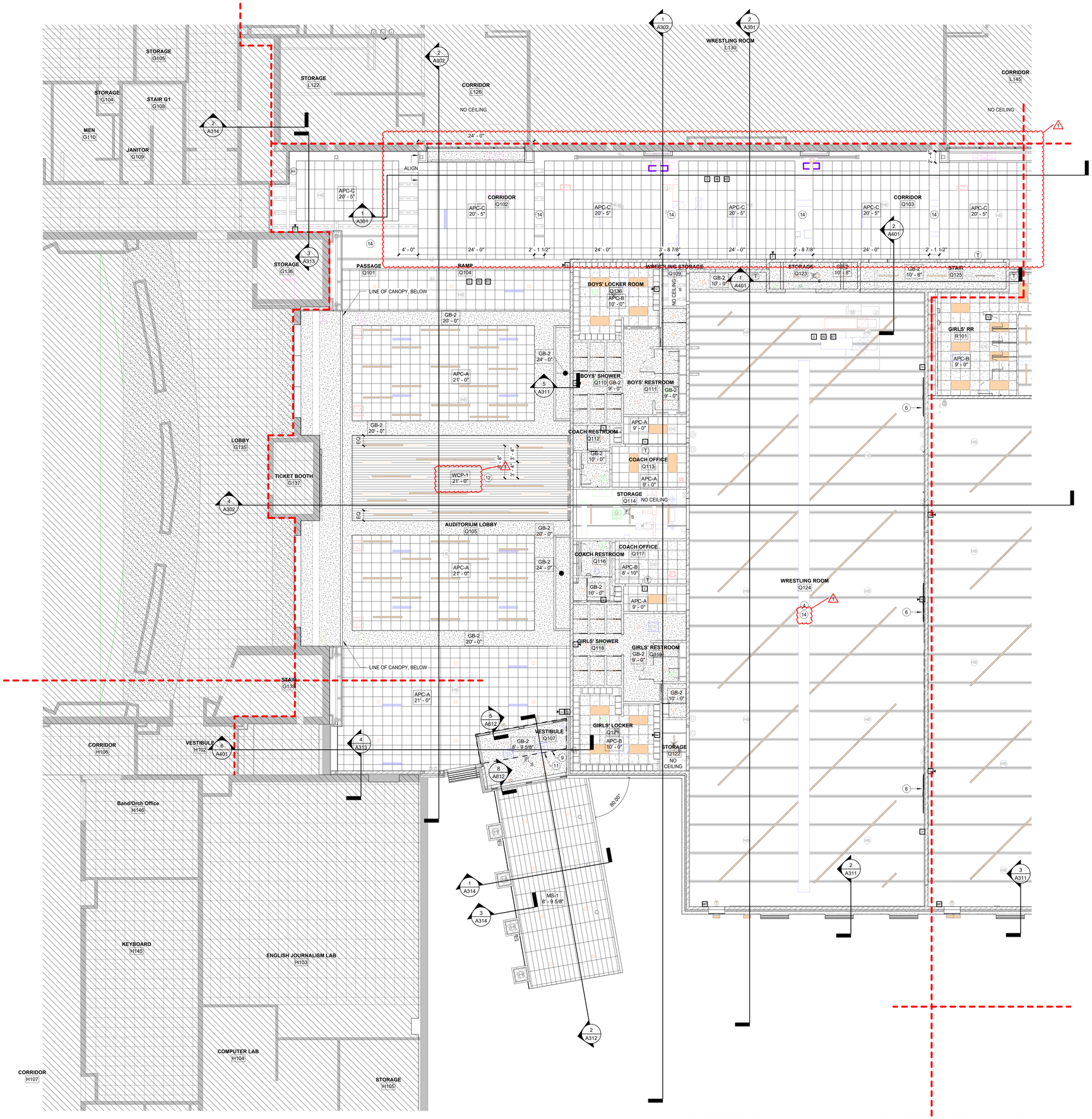
100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: BJZ, EL

FLOOR PLAN - FIRST FLOOR - UNIT R

A101R

PLOT DATE/TIME: 1/30/2026 2:41:40 PM



GENERAL NOTES

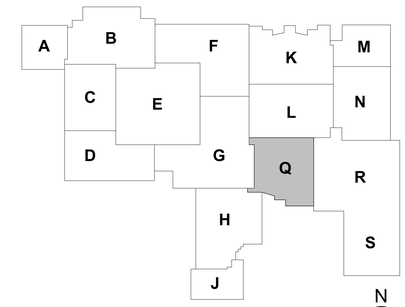
1. ALL INTERIOR CEILINGS AT 9'-4" UNLESS NOTED OTHERWISE.

TYPICAL CEILING TYPES

- 2x2 ACOUSTICAL CEILING TILE TYPE A (APC-A)
- 2x2 ACOUSTICAL CEILING TILE TYPE B (APC-B)
- 2x4 ACOUSTICAL CEILING TILE TYPE C (APC-C)
- WOOD CEILING (WCP-1)
- GYPSUM BOARD CEILING
- METAL SOFFIT (MS-1)
- EXPOSED STRUCTURE, PAINT EXPOSED STRUCTURE WHERE INDICATED
- OUT OF SCOPE

PLAN NOTES - RCP

1 TOP ROLL GYM DIVIDER CURTAIN
2 ROOF STRUCTURE MOUNTED FORWARD-FOLDING MOTORIZED BASKETBALL HOOP SYSTEM WITH HEIGHT ADJUSTER
3 ROOF STRUCTURE MOUNTED BATTING CAGES
4 ACOUSTICAL DECK, SEE STRUCTURAL SERIES DRAWINGS.
5 ROOF STRUCTURE MOUNTED WRESTLING MAT HOIST. 3 MAT CAPACITY.
6 WALL MOUNTED ELECTRONIC SCOREBOARD. 6'-0" H x 10'-0" W x 6" D. FONT SIZE +/- 10".
7 GYPSUM BULKHEAD
8 PROVIDE LID TO ROOM WITH 3/4" DECKING ON 6" COLD FORMED METAL FRAMING. PAINT DECKING.
9 LINE OF WALL ABOVE. SEE SECTION.
10 PAINT EXPOSED DECK, STRUCTURAL AND MECHANICAL ELEMENTS PT-3. REFER TO FINISH LEGEND.
11 CEILING APC-A ABOVE NOTED CEILING. SEE SECTION
12 SUSPENDED WOOD SLAT CEILING PANELS, WCP-1. REFER TO FINISH LEGEND.
13 PAINT EXPOSED DECK AND MECHANICAL ELEMENTS PT-1. PAINT EXPOSED STRUCTURE PT-2. REFER TO FINISH LEGEND.
14 PAINT EXPOSED DECK, STRUCTURAL AND MECHANICAL ELEMENTS PT-1. REFER TO FINISH LEGEND.



1 REFLECTED CEILING PLAN - UNIT FIRST FLOOR - UNIT Q

SCALE: 1/8" = 1'-0" REF. 6 / A202

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227



REVISIONS:

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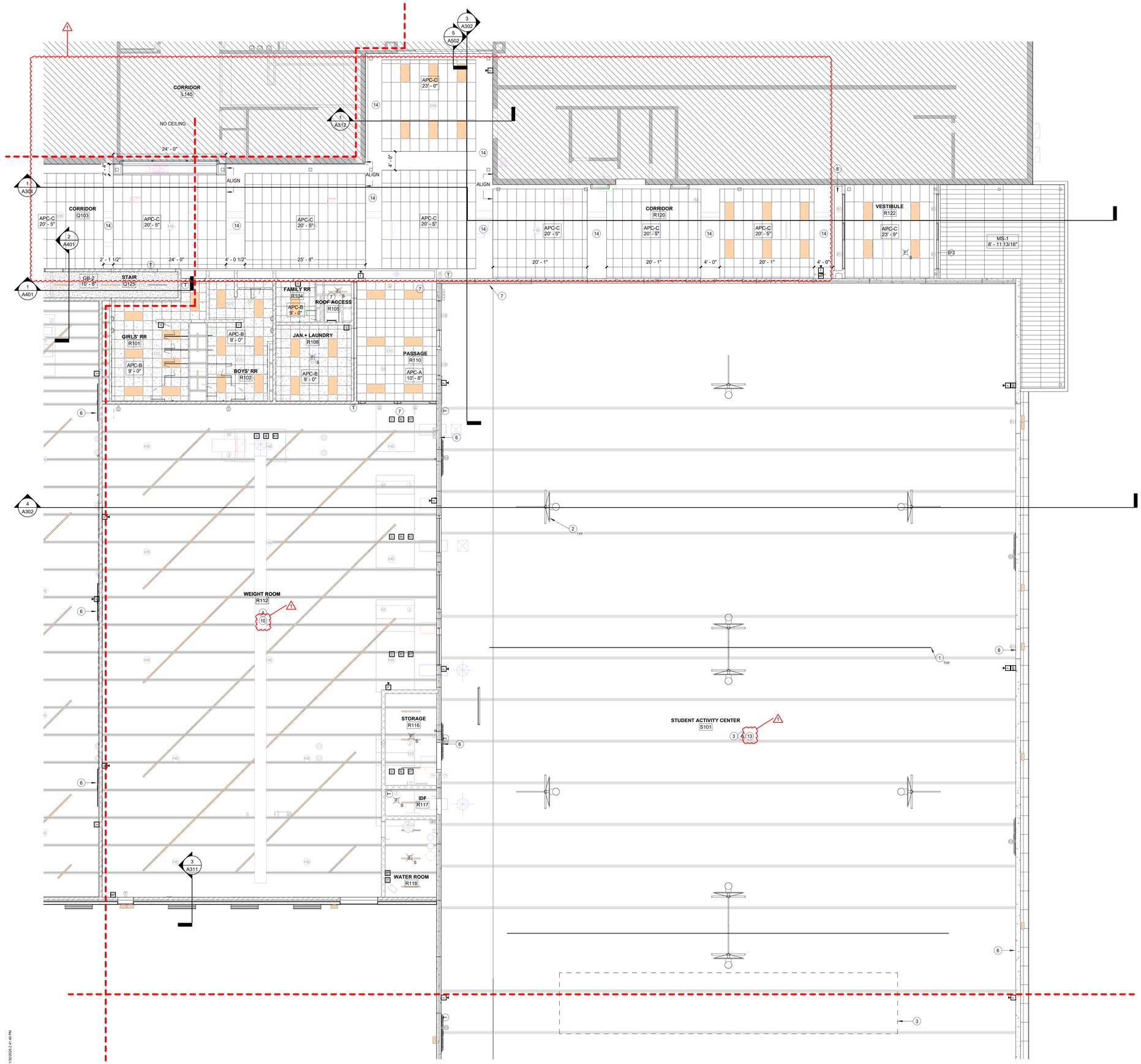
100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: AD, BJZ

REFLECTED CEILING PLAN - FIRST FLOOR - UNIT Q

A121Q

PLOT DATE/TIME: 1/30/2026 2:41:45 PM



GENERAL NOTES

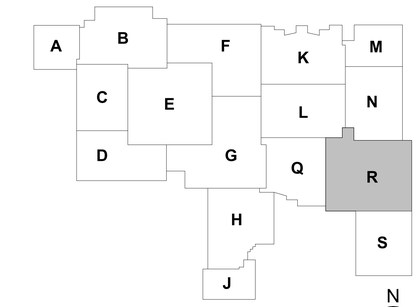
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- 2x4 ACOUSTICAL CEILING TILE TYPE C (APC-C)
- WOOD CEILING (WCP-1)
- GYPSUM BOARD CEILING
- METAL SOFFIT (MS-1)
- EXPOSED STRUCTURE, PAINT EXPOSED STRUCTURE WHERE INDICATED
- OUT OF SCOPE

PLAN NOTES - RCP

1 TOP ROLL GYM DIVIDER CURTAIN
2 ROOF STRUCTURE MOUNTED FORWARD-FOLDING MOTORIZED BASKETBALL HOOP SYSTEM
WITH HEIGHT ADJUSTER
3 ROOF STRUCTURE MOUNTED BATTING CAGES
4 ACOUSTICAL DECK, SEE STRUCTURAL SERIES DRAWINGS.
5 ROOF STRUCTURE MOUNTED WRESTLING MAT HOIST. 3 MAT CAPACITY.
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9 LINE OF WALL ABOVE. SEE SECTION.
10 PAINT EXPOSED DECK, STRUCTURAL AND MECHANICAL ELEMENTS PT-3. REFER TO FINISH LEGEND.
11 CEILING APC-A ABOVE NOTED CEILING. SEE SECTION
12 SUSPENDED WOOD SLAT CEILING PANELS, WCP-1. REFER TO FINISH LEGEND
13 PAINT EXPOSED DECK AND MECHANICAL ELEMENTS PT-1. PAINT EXPOSED STRUCTURE PT-2. REFER TO FINISH LEGEND.
14 PAINT EXPOSED DECK, STRUCTURAL AND MECHANICAL ELEMENTS PT-1. REFER TO FINISH LEGEND.



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1 REFLECTED CEILING PLAN - UNIT FIRST FLOOR - UNIT R
SCALE: 1/8" = 1'-0" REF. 6 / A202

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

TERRY L. KEITH REGISTERED No 880133 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:

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100% CONSTRUCTION DOCUMENTS

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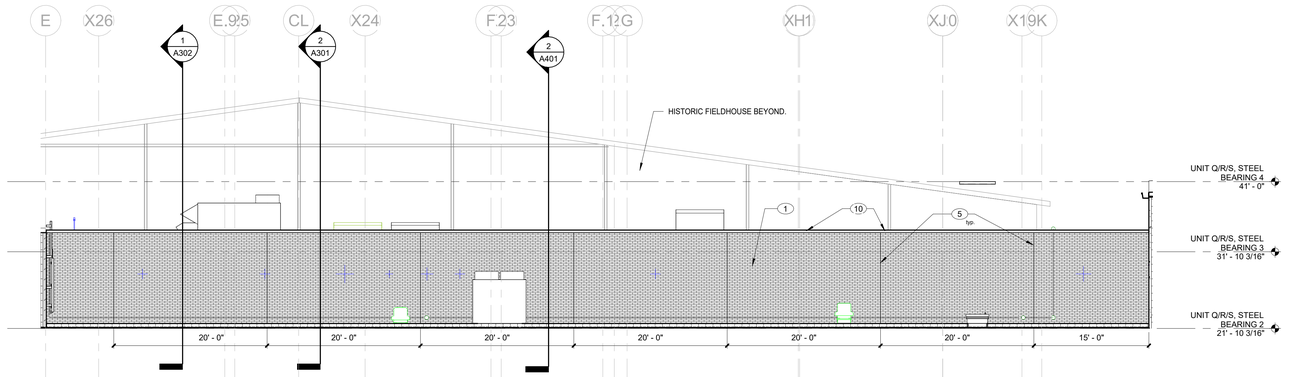
REFLECTED CEILING PLAN - FIRST FLOOR - UNIT R

A121R

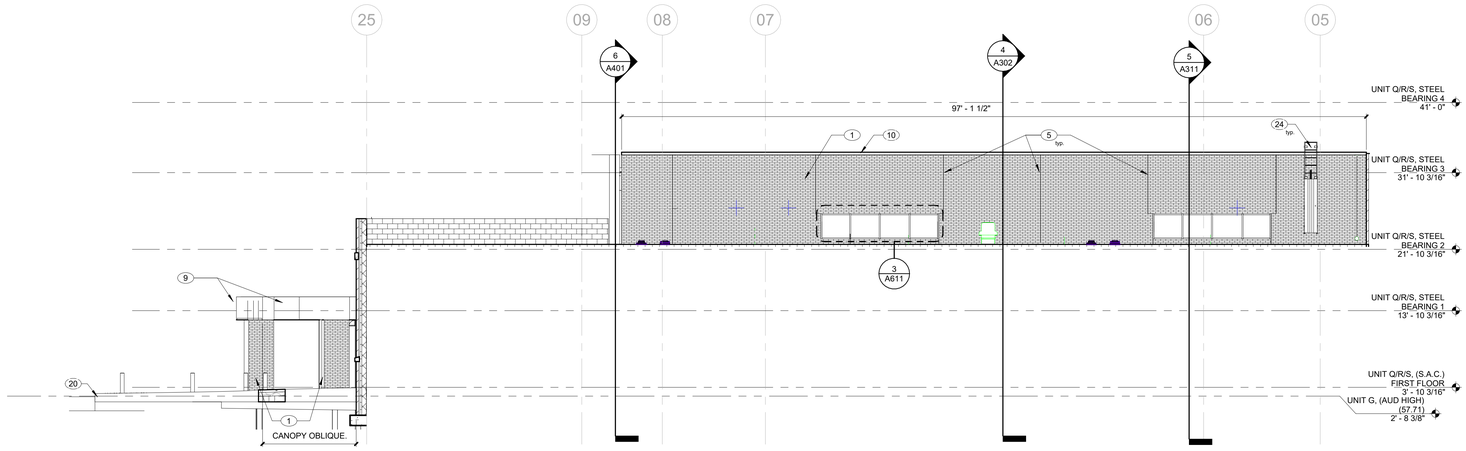
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ELEVATION NOTES - EXTERIOR

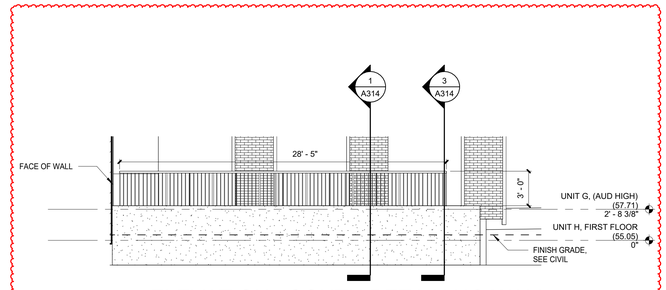
1	MODULAR FACE BRICK TO MATCH OR COMPLIMENT EXISTING
2	INDIANA LIMESTONE TRIM PROFILE A AND A1. SMOOTH CUT FULL RANGE. PROFILE A AT WINDOW SILLS. PROFILE A1 UNDEER BRICK VENEER.
3	INDIANA LIMESTONE TRIM PROFILE B. SMOOTH CUT FULL RANGE
4	12" THICK INSULATED CONCRETE PANEL. PANEL WIDTH AS NOTED. SEE ENLARGED ELEVATIONS FOR DETAIL.
5	BRICK CONTROL JOINT
6	1/2" PRECAST PANEL JOINT, CAULK TO MATCH ADJANCENT PAINT COLOR.
7	3/4"x 3/4" DEEP PANEL REVEAL.
8	NOT USED
9	PREFINISHED METAL PANEl
10	METAL ROOF EDGE
11	PREFINISHED METAL DOWNSPOUT
12	PREFINISHED ALUM. GUTTER
13	PREFINISHED METALSCUPPER HEAD
14	DUCTWORK BLOCK OUT IN PRECAST PANEL. SEE MECHANICAL.
15	PREFINISHED ALUM. STOREFRONT WITH 1" INSULATED GLAZING UNIT,.
16	TRANSLUCENT WALL PANEL SYSTEM. BASIS OF DESIGN ' KALWALL'.
17	8'-0" X 10'-0" COILING OVERHEAD DOOR
18	INSULATED HOLLOW METAL DOOR AND FRAME, PAINTED
19	PREFINISHED ALUM. SUN SHADE DEVICE. 18" DEPTH. SECURED WITH SCHEDULED OPENING WITH OUTRIGGERS.
20	FINISHED GRADE, SEE CIVIL
21	PAINT PANEL COLOR 'A'. FLOATED FINISH
22	PAINT PANEL COLOR 'B'.
23	PAINT PANEL COLOR 'C'.
24	WALL MOUNTED ROOF ACCESS LADDER.
26	RETAINING WALL. SEE STRUCTURAL
27	STEEL HANDRAIL WITH VERTICAL POST AT MAX 4'-0". SHOP PRIMED AND FIELD PAINTED.
28	PREFINISHED METAL LETTERS 30" TALL. ARIAL FONT. SECURE TO FACE OF BUILDING.
29	HIGH SCHOOL LOGO PAINTED ON FACE OF WALL. SIZE AS INDICATED.
30	LIGHT FIXUTRE, SEE ELECTRICAL
31	PAINTED STEEL COLUMN



3 Elevation Ph1 South (Clerestory)
SCALE: 1/8" = 1'-0"



2 Elevation Ph 1 East (Clerestory)
SCALE: 1/8" = 1'-0" REF. 1 / A101Q



1 ELEVATION - SOUTH RETAINING WALL
SCALE: 3/16" = 1'-0" REF. 1 / A101Q

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227



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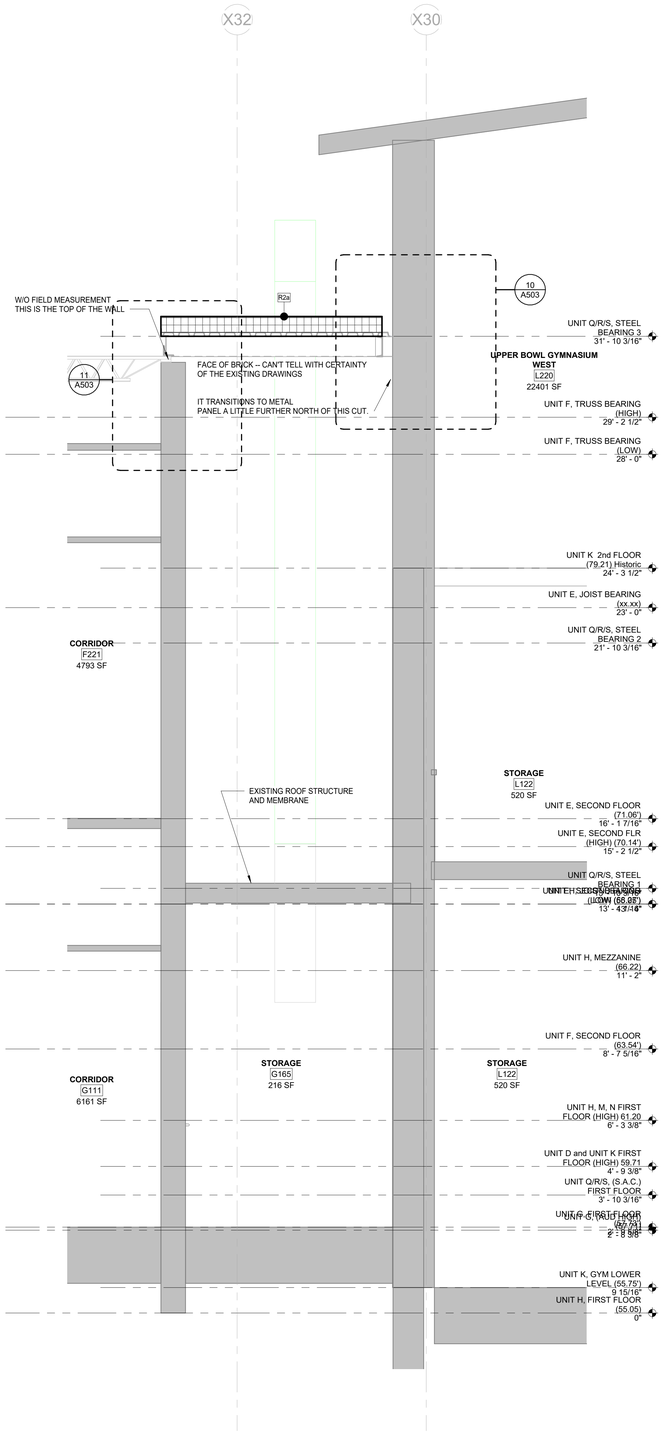
100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: BJZ

EXTERIOR ELEVATIONS

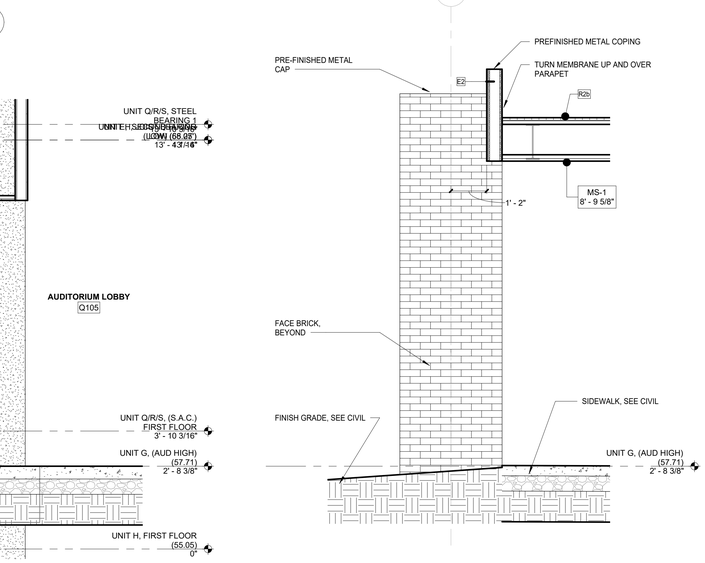
A203

PLOT DATE/TIME: 1/30/2026 2:41:00 PM



2 WALL SECTION @ OVERBUILD
SCALE: 1/2" = 1'-0" REF. 1 / A101Q

1 WALL SECTION @ S. CANOPY
SCALE: 1/2" = 1'-0" REF. 1 / A101Q



4 AUD. LOBBY @ EXISTING
SCALE: 1/2" = 1'-0" REF. 4 / A302

3 WALL SECTION @ S. CANOPY
SCALE: 1/2" = 1'-0" REF. 1 / A101Q

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

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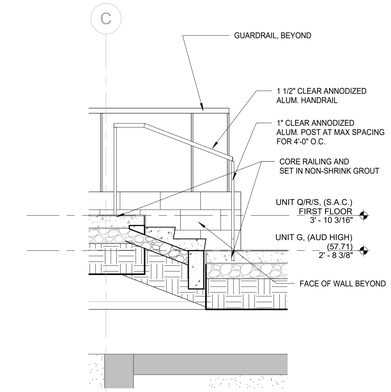
100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: BJZ

WALL SECTION

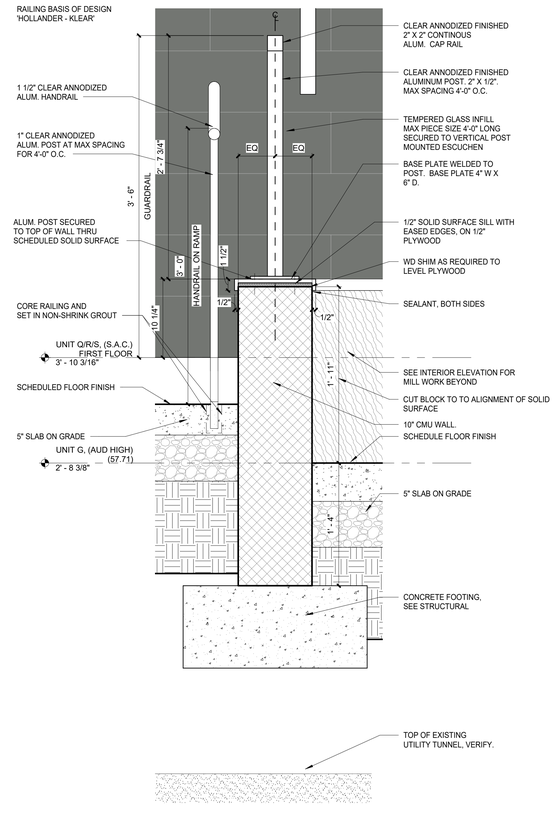
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PLOT DATE/TIME: 1/30/2026 2:41:51 PM



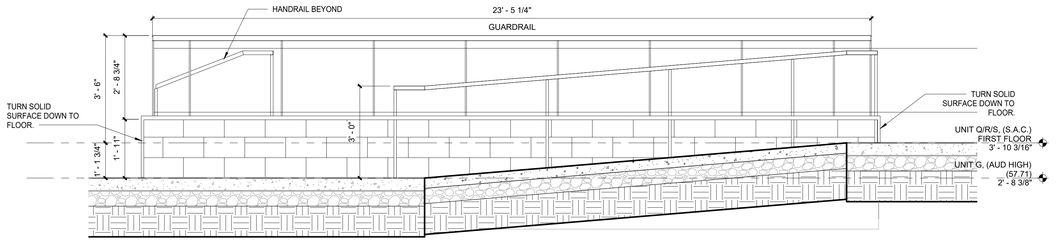
5 WallSection 23_Ph01Ramp Q104

SCALE: 1/2" = 1'-0" REF. 1 / A402



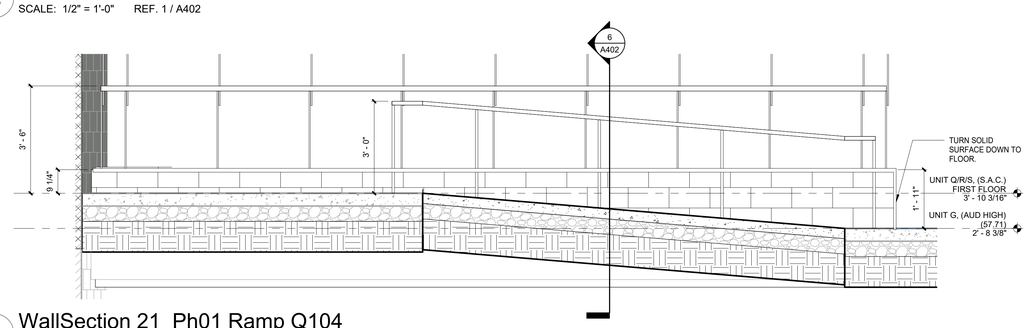
6 GuardRail Detail at Ramp 104

SCALE: 1 1/2" = 1'-0" REF. 1 / A402



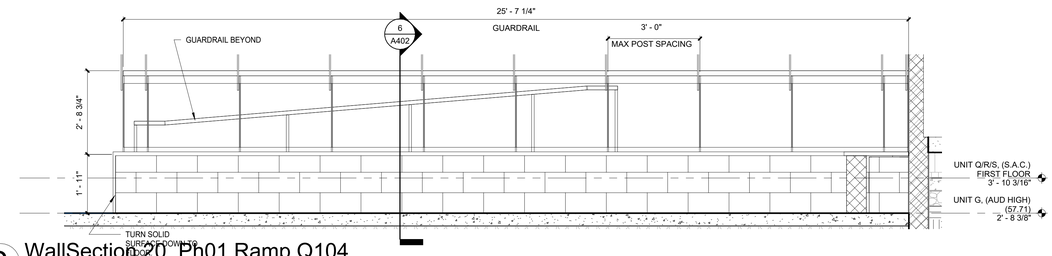
4 WallSection 22_Ph01 Ramp Q104

SCALE: 1/2" = 1'-0" REF. 1 / A402



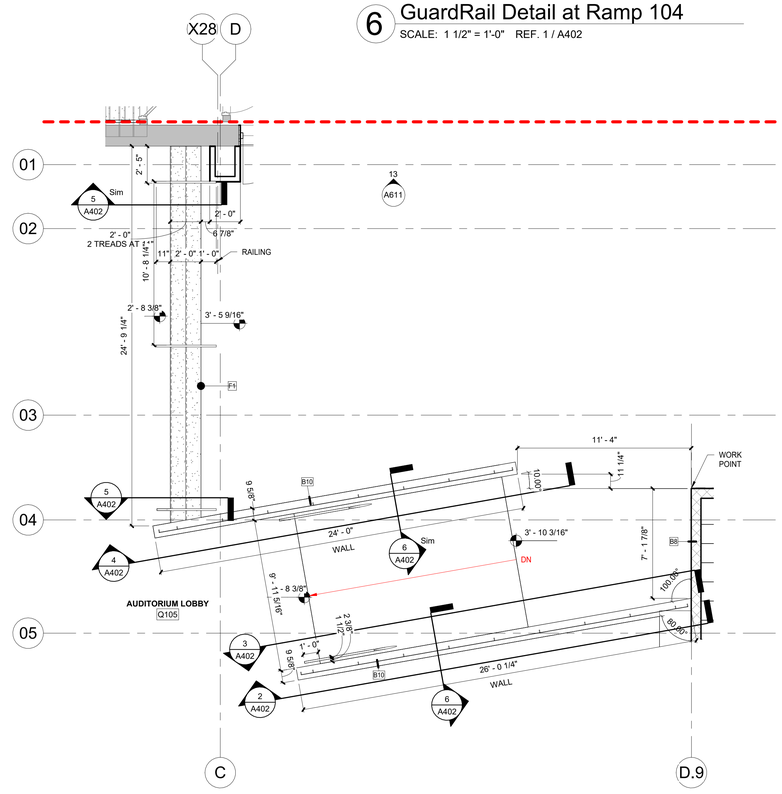
3 WallSection 21_Ph01 Ramp Q104

SCALE: 1/2" = 1'-0" REF. 1 / A402



2 WallSection 20_Ph01 Ramp Q104

SCALE: 1/2" = 1'-0" REF. 1 / A402



1 FLOOR PLAN - RAMP - UNIT Q

SCALE: 1/4" = 1'-0" REF. 1 / A101Q

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

JERY L CRIPE REGISTERED No 8800139 STATE OF INDIANA

REVISIONS:

#	Date	Desc.
1	01/30/2026	Addendum #01

100% CONSTRUCTION DOCUMENTS

PROJECT:	#24173S
DATE:	01-06-2026
DRAWN BY:	BJZ

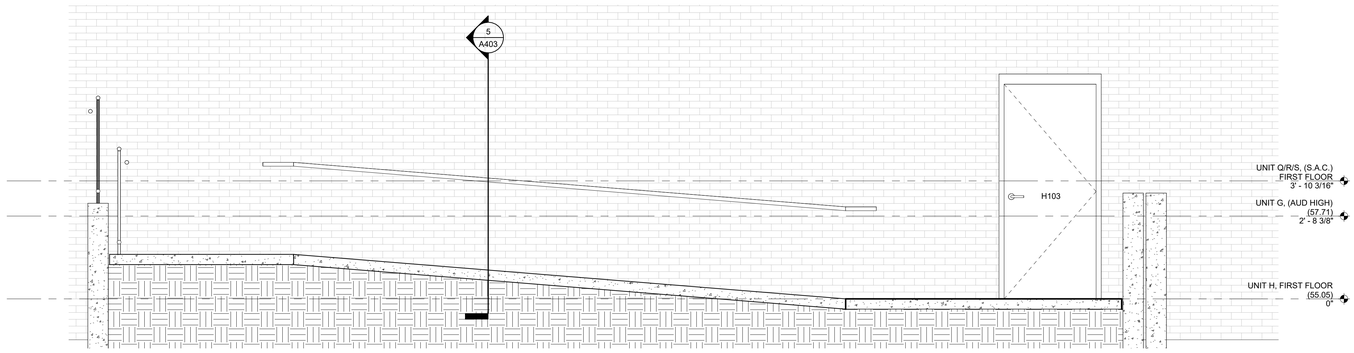
VERTICAL CIRCULATION

A402

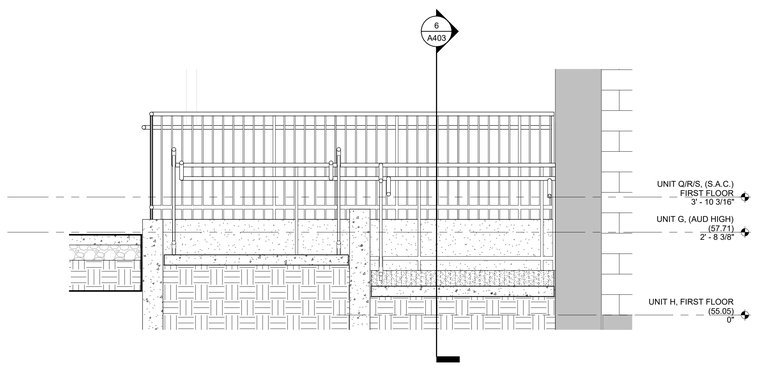
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PLAN NOTES - ENLARGED PLAN

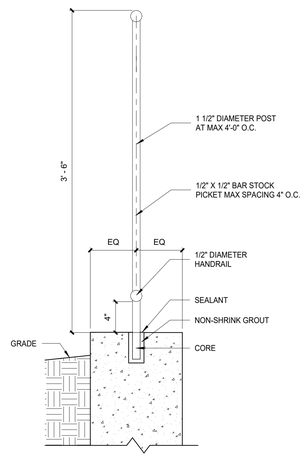
1	24" X 36" MIRROR
2	SOAP DISPENSER. OWNER SUPPLIED CONTRACTOR INSTALLED.
3	PAPER TOWEL DISPENSER. OWNER SUPPLIED CONTRACTOR INSTALLED.
4	TOILET PAPER DISPENSER. OWNER SUPPLIED CONTRACTOR INSTALLED.
5	SANITARY NAPKIN DISPOSAL. OWNER SUPPLIED CONTRACTOR INSTALLED.
6	GRAB BAR
9	TOILET PARTITION
10	URINAL PARTITION
13	30" X 60" MIRROR
14	FOLDING SHOWER SEAT
15	ROLL IN SHOWER
18	SHOWER CURTAIN ROD
19	ROBE HOOK
21	15"X15" TWO TIER PLASTIC LOCKER WITH SLOPED TOP WITH CONCRETE BENCH.
22	CONCRETE BENCH. SEE 1/A501.
23	24"x24" ACCESS PANEL
24	ROOF ACCESS LADDER
25	12"w X 18"d X 5'-0"h SINGLE TIER LOCKER
26	MOP BASIN
27	SERVICE SINK
28	STORAGE SHELVES
30	GALVANIZED STEEL HANDRAIL, FIELD PAINTED, COLOR TBD. SEE DETAIL 3 ON A403
31	WALL MOUNTED GALVANIZED STEEL HANDRAIL, FIELD PAINTED, COLOR TBD.



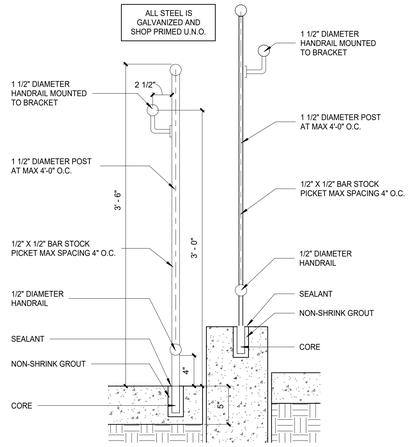
6 N-S SECTION @ UNIT H RAMP
SCALE: 1/2" = 1'-0" REF. 1 / A403



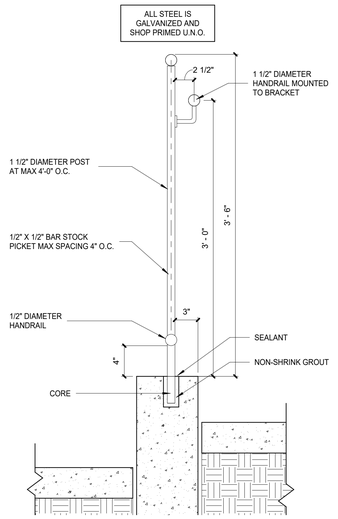
5 E-W SECTION @ UNIT H RAMP
SCALE: 1/2" = 1'-0" REF. 1 / A403



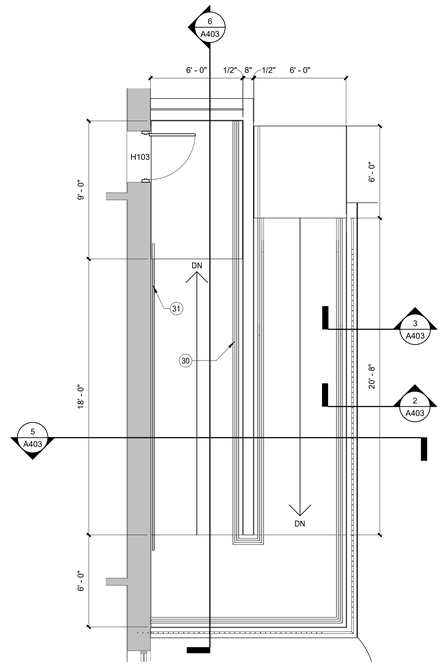
4 RAILING DETAIL @ RETAINING WALL
SCALE: 1 1/2" = 1'-0" REF. 1 / A101Q



3 RAILING DETAIL @ RAMP
SCALE: 1 1/2" = 1'-0" REF. 1 / A101Q



2 RAILING DETAIL @ RAMP RETAINING WALL
SCALE: 1 1/2" = 1'-0" REF. 1 / A101Q



1 UNIT H RAMP - ENLARGED PLAN
SCALE: 1/4" = 1'-0" REF. 1 / A101Q

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
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SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227



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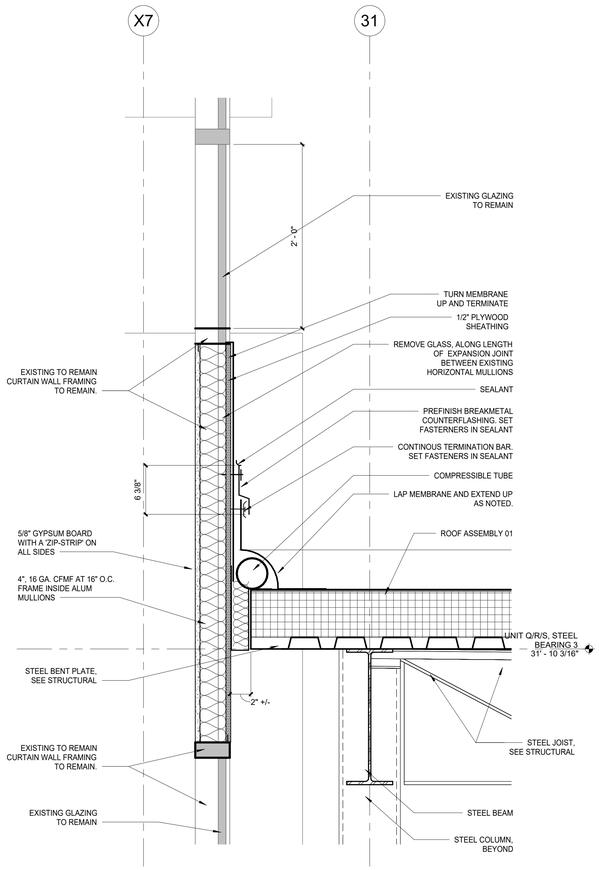
100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
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VERTICAL CIRCULATION

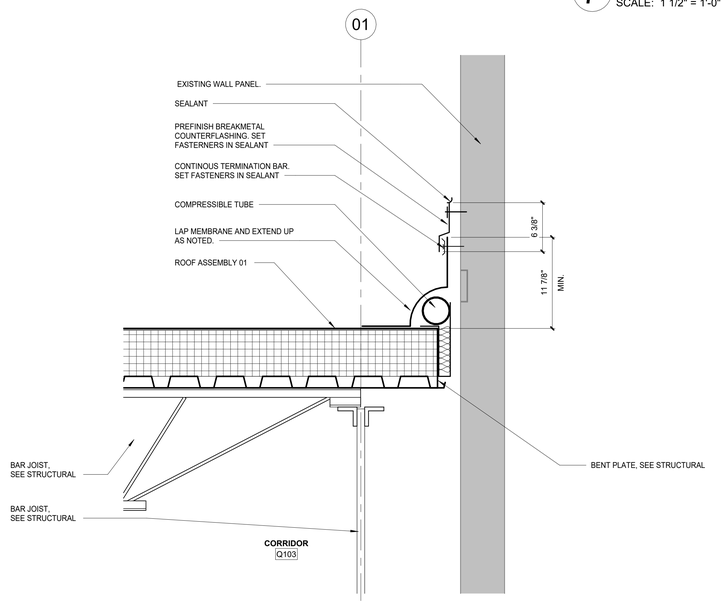
A403

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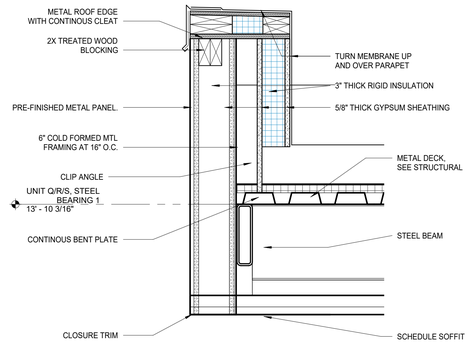
5 ROOF AGAINST CURTAINWALL

SCALE: 1 1/2" = 1'-0" REF. 1 / A121R



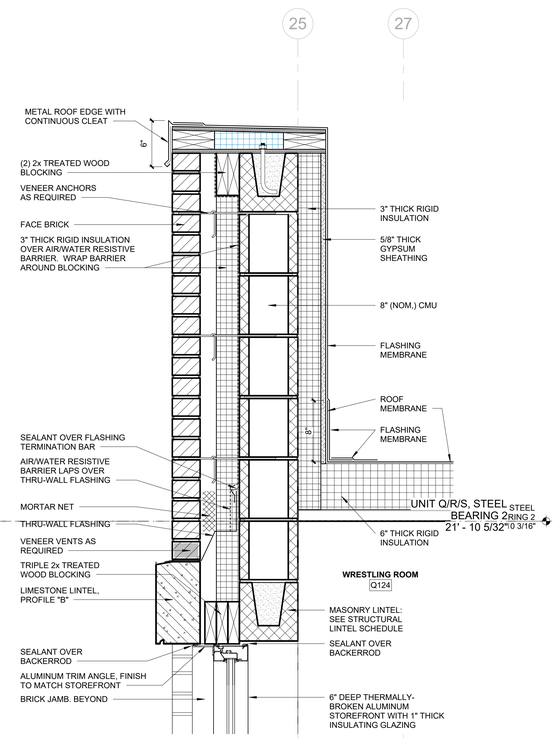
4 ROOF EXPANSION JOINT AGAINST METAL PANELS

SCALE: 1 1/2" = 1'-0" REF. 2 / A301



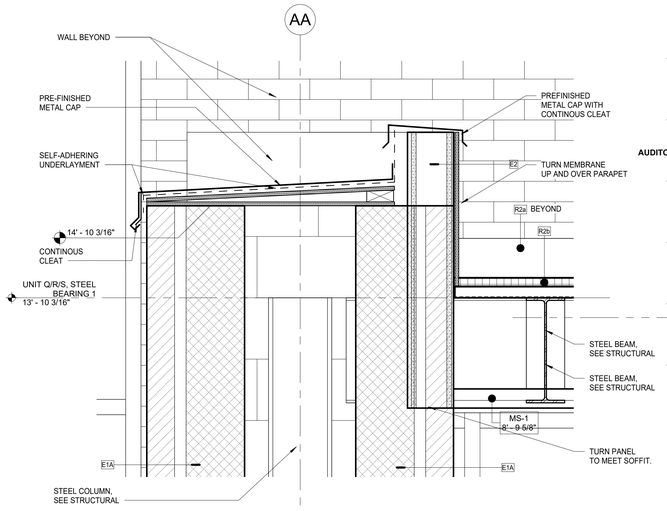
7 ENTRY CANOPY PARAPET

SCALE: 1 1/2" = 1'-0" REF. 1 / A301



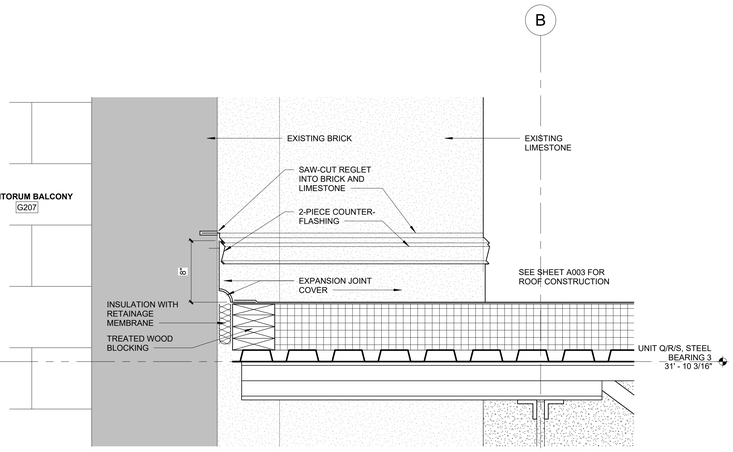
6 PARAPET AND WINDOW HEAD AT GRID "18"

SCALE: 1 1/2" = 1'-0" REF. 1 / A311



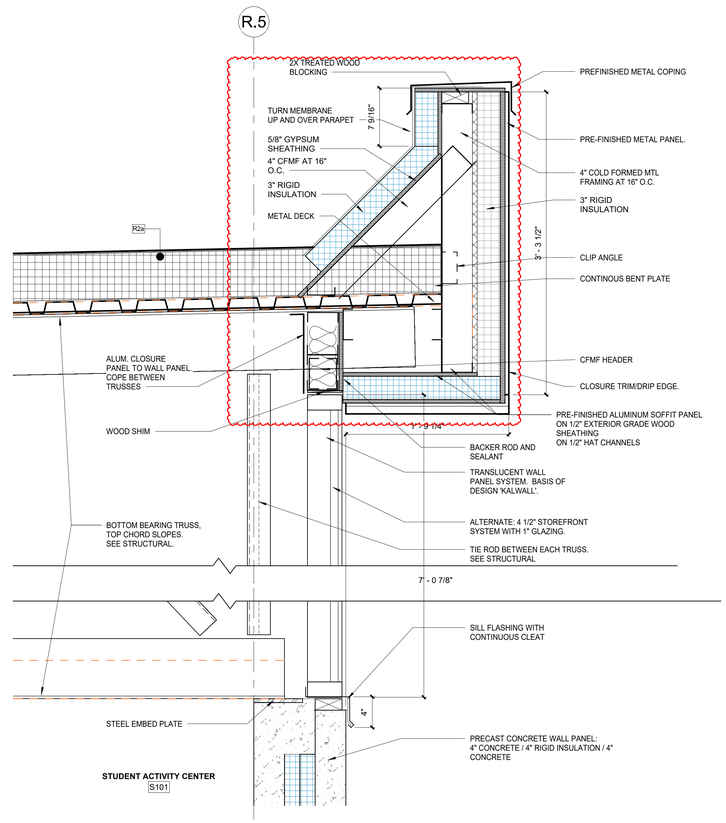
3 SECTION DETAIL AT SOUTH CANOPY.

SCALE: 1 1/2" = 1'-0" REF. 1 / A314



2 ROOF/AUDITORIUM WALL

SCALE: 1 1/2" = 1'-0" REF. 1 / A141



1 PARAPET DETAIL AT "K"

SCALE: 1 1/2" = 1'-0" REF. 4 / A311

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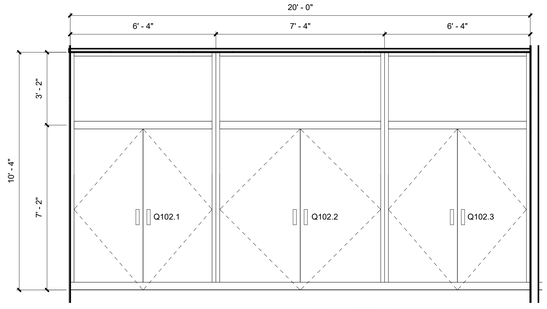
100% CONSTRUCTION DOCUMENTS

PROJECT:	#2417SS
DATE:	01-06-2026
DRAWN BY:	BJZ

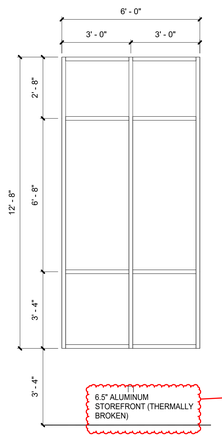
SECTION DETAILS

A502

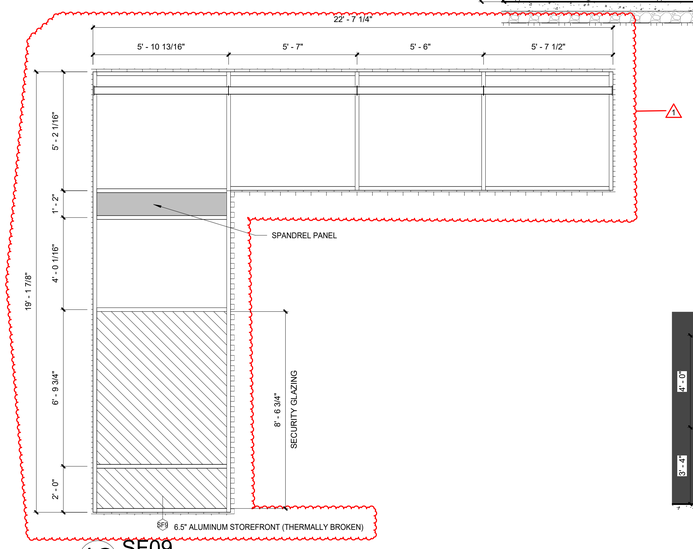
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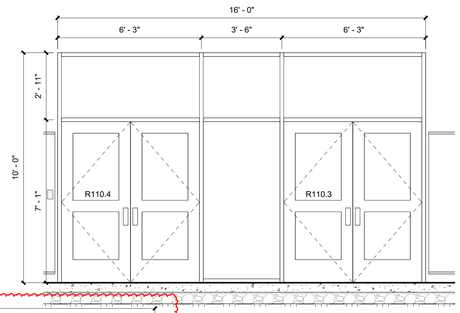
13 SF10
SCALE: 3/8" = 1'-0"



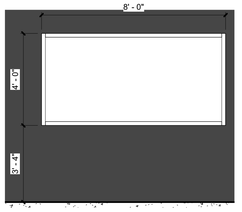
16 SF13
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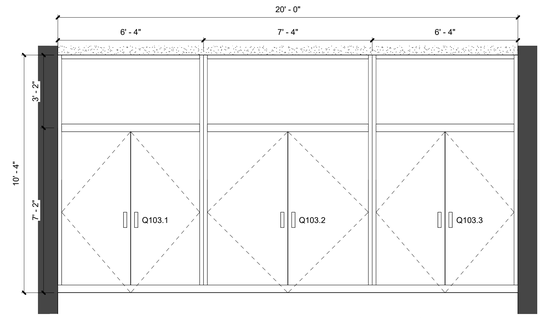
12 SF09
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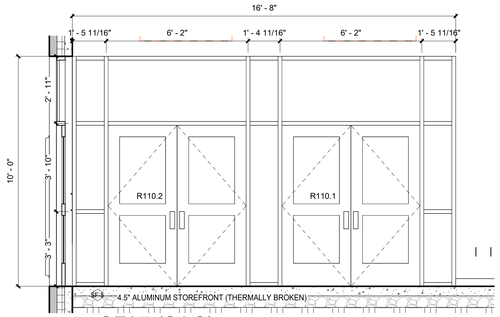
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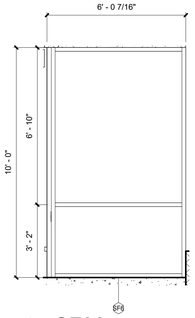
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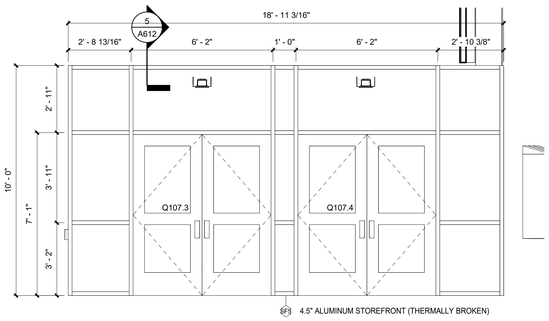
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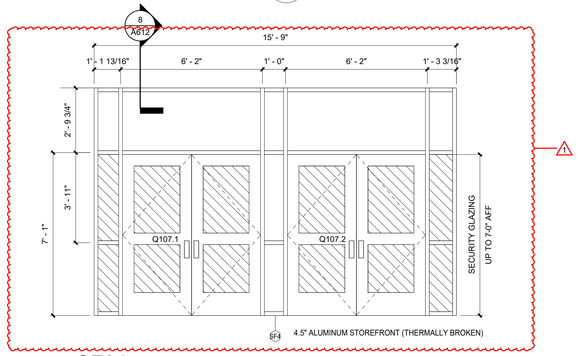
10 SF07 (SAC)
SCALE: 3/8" = 1'-0"



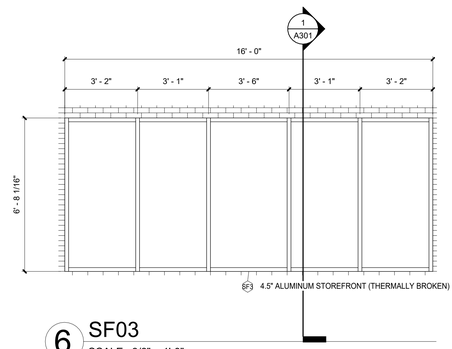
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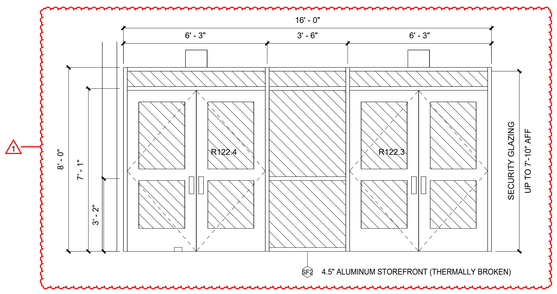
8 SF05
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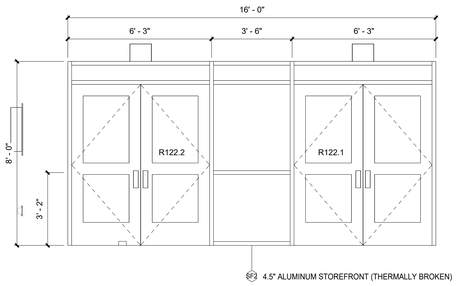
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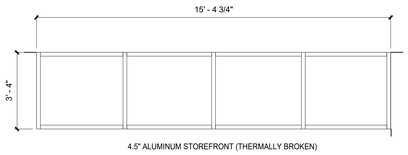
6 SF03
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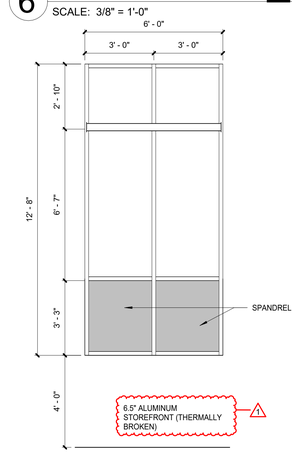
5 SF02
SCALE: 3/8" = 1'-0"



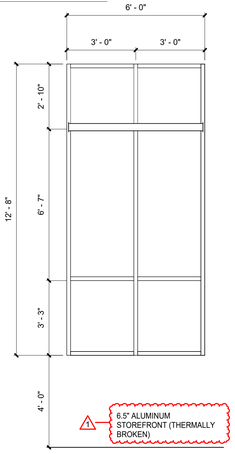
4 SF01
SCALE: 3/8" = 1'-0"



3 WINDOW C
SCALE: 3/8" = 1'-0"



2 WINDOW B
SCALE: 3/8" = 1'-0"



1 WINDOW A
SCALE: 3/8" = 1'-0"

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971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

JERRY L. CLEVELAND
REGISTERED
No. 880633
STATE OF
INDIANA
ARCHITECT

REVISIONS:

#	Date	Desc.
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100% CONSTRUCTION DOCUMENTS

PROJECT:	#24173S
DATE:	01-06-2026
DRAWN BY:	BJZ

WINDOW SCHEDULE

A611

PLOT DATE/TIME: 1/30/2026 2:42:04 PM

FLOOR FINISH HATCH LEGEND

WOM-1	TER-1	RAF-1
EPX-1	TER-2	RAF-2
RUB-1	TER-3	RAF-3

GENERAL FINISH PLAN NOTES

A. PRIOR TO INSTALLATION OF NEW FINISHES CONTRACTOR SHALL INSPECT ALL SUBSTRATES. IF A SUBSTRATE IS DEEMED UNACCEPTABLE, THE CONTRACTOR SHALL REPAIR AS NECESSARY FOR SUBSTRATE TO ACCEPT NEW MATERIALS.

B. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REPAIR ALL EXISTING WALLS, SLAB, AND CEILINGS TO A CONDITION SUITABLE FOR ACCEPTING NEW FINISHES AS PER MANUFACTURER'S RECOMMENDED INSTALLATION METHODS. MINIMUM LEVEL 4 FINISH ON EXISTING AND NEW WALLS, UNLESS NOTED OTHERWISE.

C. ALL FLOORING TRANSITIONS TO COMPLY WITH ADA GUIDELINES AND TO OCCUR UNDER CENTOR OF DOORWAYS, AND OR AT CENTERLINE OF WALL. UNLESS INDICATED DIFFERENTLY ON FINISH PLANS.

D. CONTRACTOR TO PROVIDE PROTECTION AS NEEDED DURING CONSTRUCTION, IF ANY TO PRESERVE NEW FINISHES WHILE COMPLETING CONSTRUCTION.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFACTION OF DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS INDICATED ON THE FINISH PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND DESIGNERS.

F. ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH MATERIAL, UNLESS INDICATED OTHERWISE ON PLANS.

G. WHERE WALLS ARE INDICATED TO RECEIVE PAINT FINISH, PAINT ALL PRIMED GRILLES, FIRE EXTINGUISHER CABINERS, AND OTHER ITEMS EMBEDDED IN WALL CONSTRUCTION TO MATCH SURFACE ON WHICH THEY OCCUR UNLESS NOTED OTHERWISE.

H. CONTRACTOR TO PROVIDE DRYWALL REVEAL JOINT WHERE DRYWALL MEETS DISSIMILAR MATERIALS.

I. CONTRACTOR TO PROVIDE SCHLUTER EDGE WHERE TILE MEETS DISSIMILAR MATERIALS.

J. REFER TO FINISH LEGEND FOR INTERIOR FINISH INFORMATION.

K. DO NOT INSTALL GYPSUM BOARD BEHIND TILE BACKER BOARD LOCATIONS.

L. IF ONLY PAINT IS INDICATED AS THE FINISH, REFER TO ARCHITECTURAL FLOOR PLANS FOR SUBSTRATE INFORMATION.

M. REFER TO INTERIOR TRANSITION DETALS SHEET A731 FOR TRANSITION STRIP PRODUCT DETAILS.

N. ALL MECHANICAL CLOSETS TO HAVE A SEALED CONCRETE FLOOR FINISH. PROVIDE RESILIENT REDUCER TO MATCH RB-1 UNDER CENTER OF DOORWAY.

O. ALL WALLS AND CEILINGS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.

P. WHERE WINDOW SILLS ARE LOCATED, SILL TO BE SOLID SURFACE SS-1.

Q. ALL HM DOOR FRAMES, NEW AND EXISTING, IN THEIR ENTIRETY ARE TO BE PAINTED PT-3 UNLESS NOTED OTHERWISE.

R. REFERENCE ELEVATIONS FOR CUSTOM WALL GRAPHICS, MURALS OR CHANGE IN WALL FINISHES

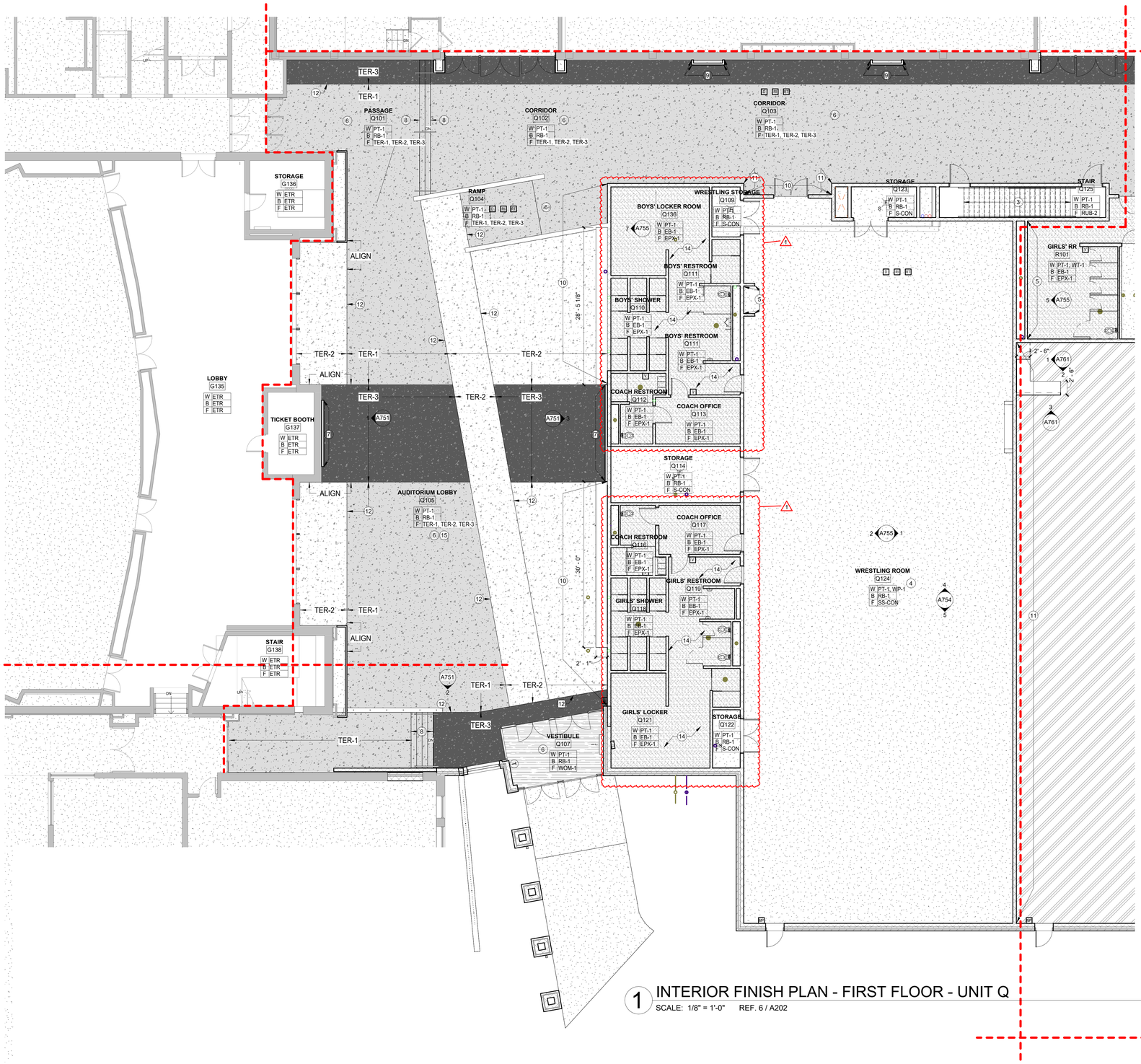
S. WHERE ALL SS-CON FINISH OCCURS, SURFACE IS TO BE CLEANED, PATCHED, AND PREPPED FOR STAIN AND SEAL.

T. ALL PAINT IN RESTROOMS AND LOCKER ROOMS TO BE EPOXY PAINT.

U. STAIR RAILINGS AND STRINGERS TO BE PAINTED PT-3 UNLESS NOTED OTHERWISE.

V. ALL COLUMNS TO BE PAINTED PT-3, UNLESS NOTED OTHERWISE.

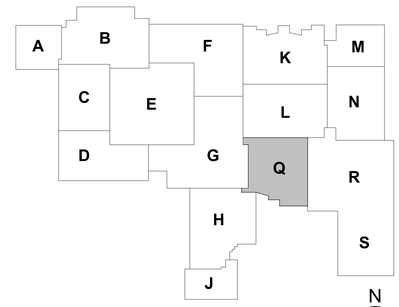
W. WHERE TERRAZZO WALL BASE IS SPECIFIED, FINISH TO MATCH ADJACENT TERRAZZO FLOORING COLOR/MIX.



PLAN NOTES - FINISH PLAN

1 EPOXY PAINT ON ALL WALLS
2 RUBBER FLOORING RUB-1 THROUGHOUT. INLAID CUSTOM RUBBER SCHOOL LOGO AT ENTRANCE - ASSUME 4 COLORS. LOCATIONS OF STATIONS TO BE DETERMINED, COORDINATE WITH OWNER.
3 RUBBER STAIRTREAD/RISER, RUB-2. REFER TO FINISH LEGEND.
4 OWNER PROVIDED WRESTLING MATS (X3)
5 WALL TILE WT-1 AT THIS LOCATION. INSTALL FROM TOP OF WALL BASE TO CEILING
6 EXISTING AND/OR NEW BRICK MASONRY FINISH DOES NOT RECEIVE PAINT.
7 WOOD SLAT PANELS WCP-1
8 PRE-CAST TERRAZZO STAIRTREAD/RISER. REFER TO DETAIL SHEET A731
9 PAINT PT-3. CORNER GUARD CG-2 ON GYP. CORNERS
10 ACCENT PAINT, PT-3 AT THIS LOCATION. REFER TO FINISH LEGEND.
11 ACCENT PAINT, PT-2 AT THIS LOCATION. REFER TO FINISH LEGEND.
12 PROVIDE ZINC STRIP FOR TERRAZZO.
13 CUSTOM SCHOOL LOGO CENTERED ON EACH COURT - ASSUME 4 COLORS. FINAL DESIGN TO BE COORDINATED WITH OWNER.
14 LOCKER ROOMS TO HAVE ACCENT PAINT PT-2 AND PT-4 PAINTED ON WALLS. REFER TO TYPICAL ELEVATION 7/A755.
15 PAINT ALL EXPOSED PLUMBING BELOW CEILING PLAN TO MATCH ADJACENT WALL COLOR PER ROOM FINISH.

1 INTERIOR FINISH PLAN - FIRST FLOOR - UNIT Q
SCALE: 1/8" = 1'-0" REF. 6 / A202



N
TRUE NORTH

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227



REVISIONS:		
#	Date	Desc.
1	01/30/2026	Addendum #01

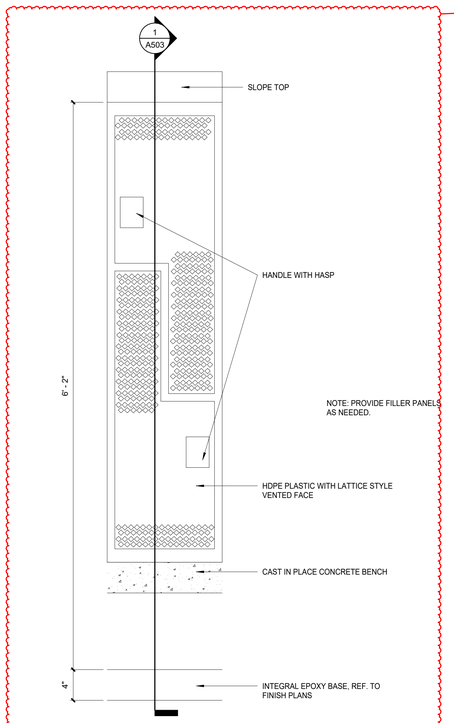
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PROJECT:	#24173S
DATE:	01-06-2026
DRAWN BY:	Author

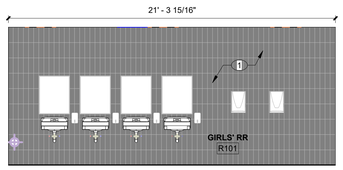
INTERIOR FINISH PLAN - FIRST FLOOR - UNIT Q

A721Q

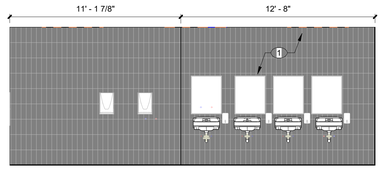
PLOT DATE/TIME: 1/30/2026 2:42:08 PM



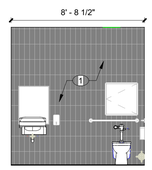
6 DOUBLE TIER PLASTIC LOCKER
SCALE: 1 1/2" = 1'-0"



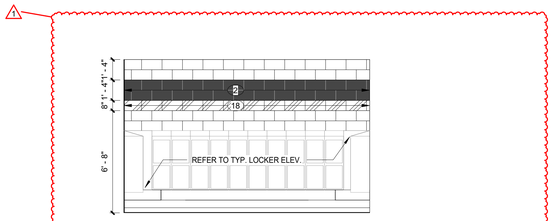
5 INT. ELEV. - GIRLS' RR R101
SCALE: 1/4" = 1'-0" REF. 1 / A101Q



4 INT. ELEV. - BOYS' RR R102
SCALE: 1/4" = 1'-0" REF. 1 / A111



3 INT. ELEV. - RR Q155
SCALE: 1/4" = 1'-0" REF. 1 / A111



7 INT. ELEV. - TYP. LOCKER ROOM PAINT
SCALE: 1/4" = 1'-0" REF. 1 / A101Q

GENERAL NOTES

A. CONTRACTOR TO PROVIDE SCHLUTER EDGE WHERE TILE MEETS DISSIMILAR MATERIALS. REFER TO FINISH MATERIAL LEGEND AND INTERIOR ELEVATIONS FOR FURTHER DETAILS. LS

B. DO NOT INSTALL GYPSUM BOARD BEHIND TILE BACKER BOARD LOCATIONS.

C. CONTRACTOR TO PROVIDE DRYWALL REVEAL JOINT WHERE DRYWALL MEETS DISSIMILAR MATERIALS.

E. IF ONLY PAINT IS INDICATED AS THE FINISH, REFER TO ARCHITECTURAL FLOOR PLANS FOR SUBSTRATE INFORMATION.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFACTION OF DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS INDICATED ON THE FINISH PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND DESIGNERS.

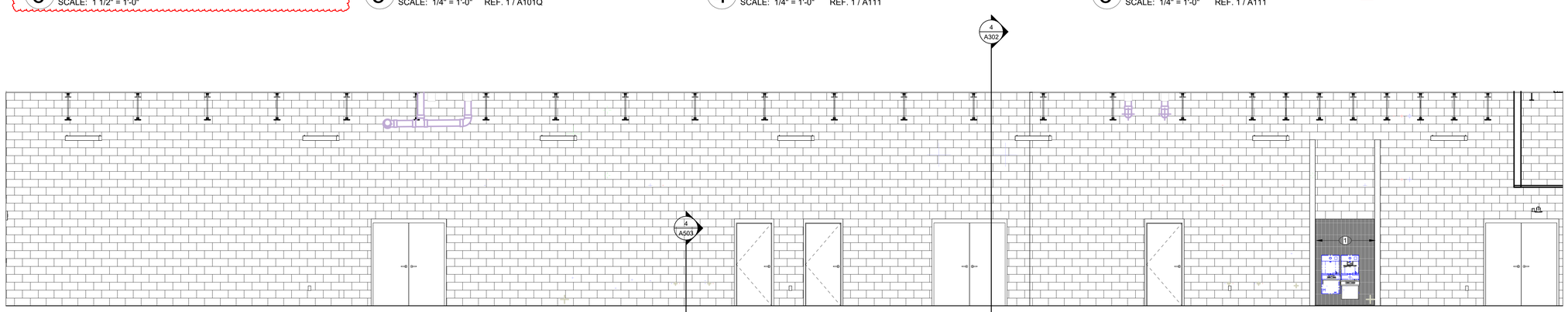
G. ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH MATERIAL, UNLESS INDICATED OTHERWISE ON PLANS.

H. ALL EXPOSED METAL SURFACES, SUCH AS GRILLES, FIRE EXTINGUISHER CABINETS, ETC., THAT ARE NOTED TO BE PAINTED ARE TO BE PAINTED MATCH WALL COLOR.

I. ALL WALLS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.

ELEVATION NOTES - INTERIOR

1 WALL TILE, WT-1 AT THIS LOCATION. REFER TO FINISH LEGEND.
2 ACCENT PAINT, PT-3 AT THIS LOCATION. REFER TO FINISH LEGEND.
3 WOOD SLAT PANELS SYSTEM: WCP-1 (CEILING), WWP-1 (WALL)
4 OWNER PROVIDED TV MONITOR
5 SOLID SURFACE SS-1. REFER TO FINISH LEGEND.
6 CUSTOM PAINTED GRAPHIC ON PRECAST PANEL ASSUME TWO COLORS.
7 18"HIGH X 1" DEEP 3D ACRYLIC LETTERING - TITLE TO BE DETERMINED BY OWNER
8 ACOUSTICAL WALL PANELS AWP-1 (TYP.)
9 PAINTED GRAPHIC - ASSUME UP TO 4 COLORS. DESIGN TO BE DETERMINED AND APPROVED BY OWNER VIA SHOP DRAWING PRIOR TO INSTALLATION
10 PLASTIC LAMINATE PL-2 ON BENCH FACE
11 ACCENT PAINT, PT-2 AT THIS LOCATION. REFER TO FINISH LEGEND.
12 CUSTOM VINYL GRAPHIC ON CMU, WC-1. REFER TO FINISH LEGEND.
13 22" HIGH X 1/2" DEEP PVC LETTERS TO SPELL 'CARDINALS'.
14 HIGH PRESSURE PLASTIC LAMINATE, PL-1 FABRICATED PANELS. USE MANF. TRIM. REFER TO INTERIOR DETAIL 11/A731.
15 CUSTOM PAINTED GRAPHIC ON CMU. FINAL DESIGN, FONT, AND HEIGHT TO BE COORDIANTED WITH OWNER.
16 WALL PADDING, WP-2. INCLUDE CUSTOM GRAPHIC. OWNER TO COORDINATE/APPROVE GRAPHIC DIRECTLY WITH VENDOR PRIOR TO MANUFACTURING
17 WALL PADDING WP-1 (TYP.)
18 ACCENT PAINT PT-4 AT THIS LOCATION. REFER TO FINISH LEGEND.
19 PLASTIC LAMINATE PL-3. REFER TO FINISH LEGEND.
20 PAINT STRUCTURE PT-2 (TYP.)



2 INT. ELEV. - WRESTLING Q124 WEST
SCALE: 1/4" = 1'-0" REF. 1 / A101Q

1 INT. ELEV. - WRESTLING Q124 EAST
SCALE: 1/4" = 1'-0" REF. 1 / A101Q

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

JERRY L. CRISP REGISTERED NO. 880033 STATE OF INDIANA

REVISIONS:

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1	01/30/2026	Addendum #01

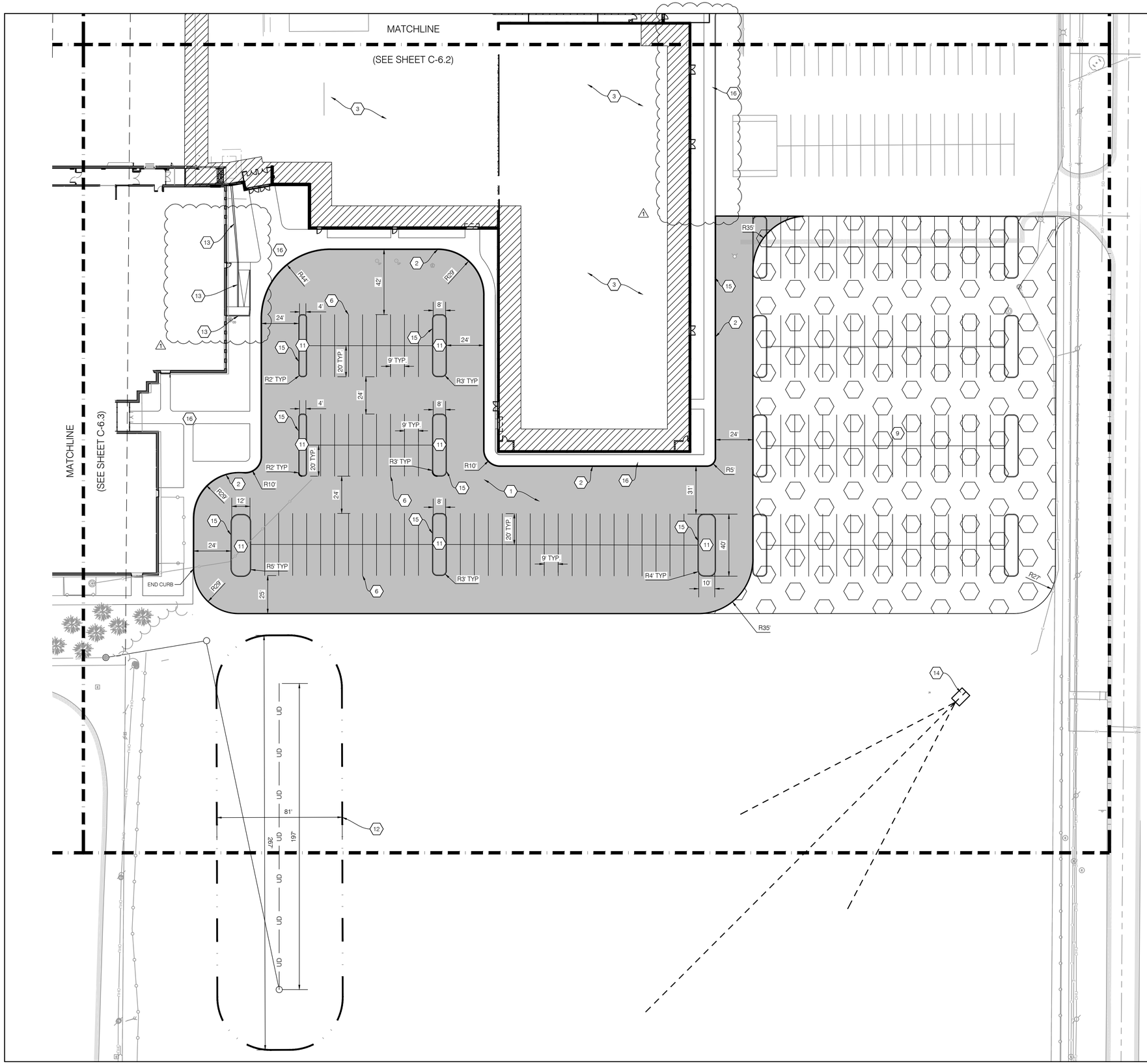
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PROJECT: #24173S
DATE: 01-06-2026
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INTERIOR ELEVATIONS

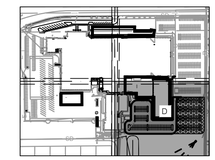
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PLOT DATE/TIME: 1/30/2026 2:42:12 PM



SITE PLAN LEGEND

1. FULL DEPTH HMA PAVEMENT, SEE SITE DETAIL SHEET C-6.5
2. CONCRETE CURB, SEE SITE DETAIL SHEET C-6.5
3. BUILDING, SEE ARCHITECTURAL PLANS
4. STOP SIGN, SEE SITE DETAIL SHEET C-6.5
5. ADA SIGN, SEE SITE DETAIL SHEET C-6.5
6. LINE, PAINT, SOLID, WHITE, 4 IN.
7. LINE, PAINT, SOLID, YELLOW, 4 IN.
8. LINE, PAINT, SOLID, BLUE, 4 IN.
9. ALTERNATE - SEE ARCHITECTURAL PLANS
10. ADA SYMBOL, SEE SITE DETAIL SHEET C-6.5
11. LANDSCAPE ISLAND
12. DRY DETENTION POND
13. RETAINING WALL, SEE ARCHITECTURAL PLANS
14. SHOTPUT
15. ROLL CURB
16. CONCRETE SIDEWALK



GRAPHIC SCALE
0' 30' 60' 90'
(IN FEET)

N
TRUE NORTH

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145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

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SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

ROBERT SANTOS REGISTERED No. 12300688 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:
#	DATE	DESC.
1	01/30/2026	ADDENDUM #1

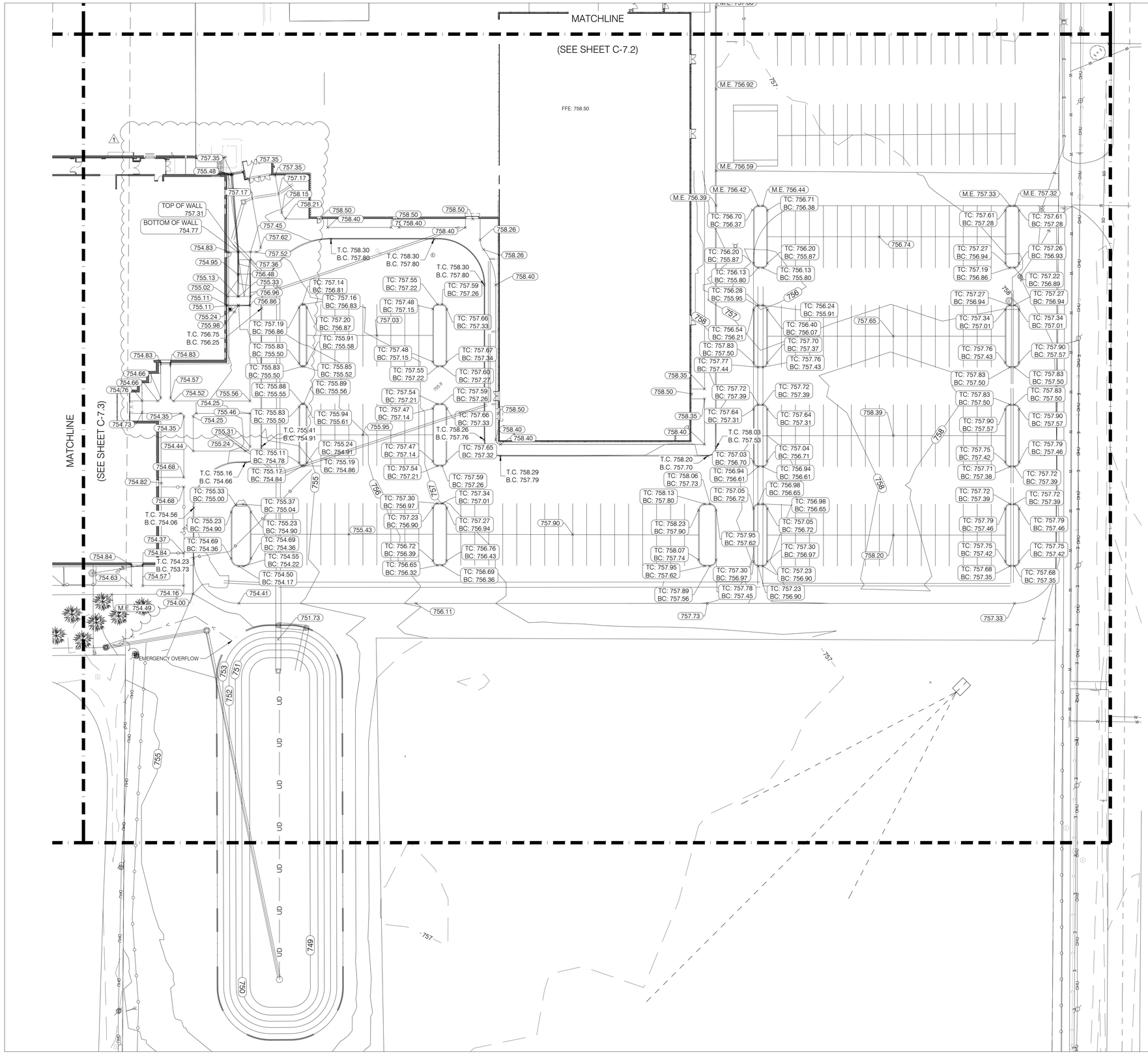
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PROJECT: 2025.150
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SITE PLAN

C-6.4

PLOT DATE/TIME



LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

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ROBERT SANTOS
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PROFESSIONAL ENGINEER

REVISIONS:

#	DATE	DESC.
1	01/30/2026	ADDENDUM #1

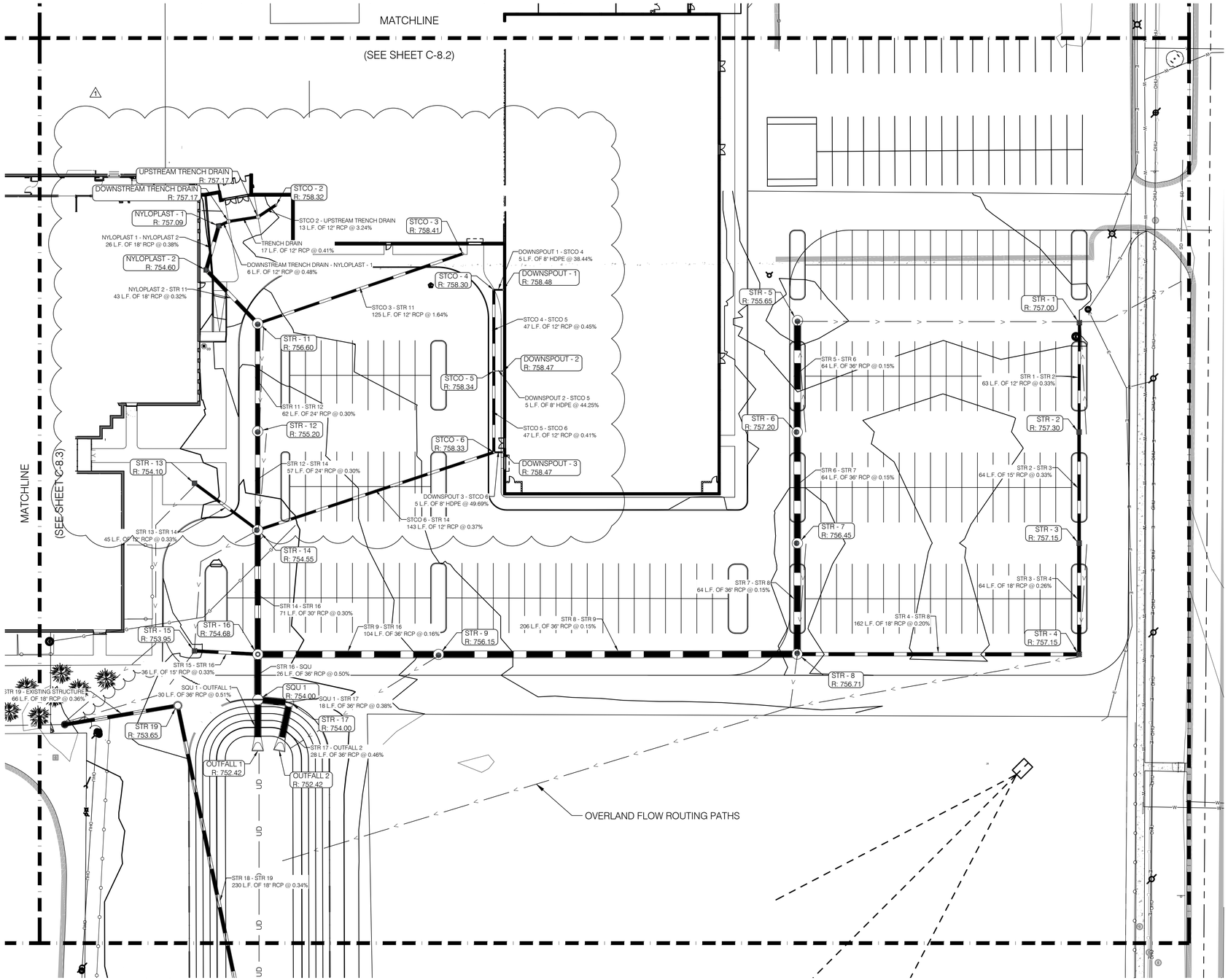
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PROJECT:	2025.150
DATE:	01/06/2026
DRAWN BY:	KIS

GRADING PLAN

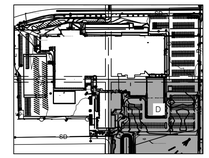
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PLOT DATE/TIME:



STORMWATER GENERAL NOTES:

1. WHERE CONNECTIONS ARE MADE TO EXISTING OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THE MINIMUM STANDARDS OUTLINED IN CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEM.
2. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.
3. INLET CASTINGS SHALL HAVE THE WORDS "NO DUMPING, DRAINS TO STREAM" CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM 1" IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.
4. THE BENCHWALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A "U" SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/2-INCH PER FOOT SLOPE TO THE MANHOLE WALL.
5. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT REGARDING ANY EXISTING TREES OR INFRASTRUCTURE THAT CONFLICT WITH PROPOSED STORM SEWER INSTALLATION.
6. ALL STORM SEWER MANHOLE COVERS SHALL HAVE THE WORDS "STORM SEWER" CAST IN RECESSED LETTERS TWO (2) INCHES IN HEIGHT.



GRAPHIC SCALE
0' 30' 60' 90'
(IN FEET)

N
TRUE NORTH

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INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

ROBERT SANTOS
REGISTERED
No. 12300688
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS:
DATE DESC.
1 01/30/2026 ADDENDUM #1

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PROJECT: 2025.150
DATE: 01/06/2026
DRAWN BY: KIS

STORM LAYOUT PLAN

C-8.4

PLOT DATE/TIME: January 30, 2026

PHASE ONE STRUCTURE DATA TABLE

STRUCTURE TABLE

STRUCTURE NAME:	NORTHING:	EASTING:	DESCRIPTION:	DETAILS:	PIPES IN:	PIPES OUT:
DOWNSPOUT - 1	1610998.3853	194586.1177	ROOF DRAIN	RIM = 758.48 INV OUT = 755.48		DOWNSPOUT 1 - STCO 4, 8" PROPOSED STORM INV OUT =755.48
DOWNSPOUT - 2	1610951.6526	194586.1177	ROOF DRAIN	RIM = 758.47 INV OUT = 755.48		DOWNSPOUT 2 - STCO 5, 8" PROPOSED STORM INV OUT =755.48
DOWNSPOUT - 3	1610904.9200	194586.1177	ROOF DRAIN	RIM = 758.47 INV OUT = 755.48		DOWNSPOUT 3 - STCO 6, 8" PROPOSED STORM INV OUT =755.48
DOWNSTREAM TRENCH DRAIN	1611037.7007	194428.3611	TRENCH DRAIN	RIM = 757.17 INV IN = 753.53 INV OUT = 753.43	TRENCH DRAIN, 12" RCP INV IN =753.53	DOWNSTREAM TRENCH DRAIN - NYLOPLAST - 1, 12" RCP INV OUT =753.43
EXISTING STRUCTURE 1	1610748.3740	194334.1439	EXISTING INLET	RIM = 753.54 INV IN = 746.66	STR 19 - EXISTING STRUCTURE, 18" RCP INV IN =746.66	
NYLOPLAST - 1	1611035.1464	194422.6773	18" DRAIN BASIN	RIM = 757.09 INV IN = 753.40 INV OUT = 752.80	DOWNSTREAM TRENCH DRAIN - NYLOPLAST - 1, 12" RCP INV IN =753.40	NYLOPLAST 1 - NYLOPLAST 2, 18" RCP INV OUT =752.80
NYLOPLAST - 2	1611009.8080	194415.4107	18" DRAIN BASIN	RIM = 754.60 INV IN = 752.70 INV OUT = 752.60	NYLOPLAST 1 - NYLOPLAST 2, 18" RCP INV IN =752.70	NYLOPLAST 2 - STR 11, 18" RCP INV OUT =752.60
OUTFALL 1	1610733.1508	194445.0669	FLARED END SECTION	RIM = 752.42 INV IN = 749.00	SQU 1 - OUTFALL 1, 36" RCP INV IN =749.00	
OUTFALL 2	1610733.2192	194457.4639	FLARED END SECTION	RIM = 752.42 INV IN = 748.95	STR 17 - OUTFALL 2, 36" RCP INV IN =748.95	
SQU 1	1610762.6887	194445.1318	BMP STRUCTURE	RIM = 754.00 INV IN = 749.15 INV OUT = 749.15 INV OUT = 749.15	STR 16 - SQU, 36" RCP INV IN =749.15	SQU 1 - OUTFALL 1, 36" RCP INV OUT =749.15 SQU 1 - STR 17, 36" RCP INV OUT =749.15
STCO - 2	1611047.2093	194455.6279	STORM CLEANOUT	RIM = 758.32 INV OUT = 754.11		STCO 2 - UPSTREAM TRENCH DRAIN, 12" RCP INV OUT =754.11
STCO - 3	1611019.1398	194563.0135	STORM CLEANOUT	RIM = 758.41 INV OUT = 755.00		STCO 3 - STR 11, 12" RCP INV OUT =755.00
STCO - 4	1610998.3853	194580.7844	STORM CLEANOUT	RIM = 758.30 INV OUT = 753.00		STCO 4 - STCO 5, 12" RCP INV OUT =753.00
STCO - 5	1610951.6526	194580.7844	STORM CLEANOUT	RIM = 758.34 INV IN = 752.79 INV IN = 753.12 INV OUT = 752.69	STCO 4 - STCO 5, 12" RCP INV IN =752.79 DOWNSPOUT 2 - STCO 5, 8" PROPOSED STORM INV IN =753.12	STCO 5 - STCO 6, 12" RCP INV OUT =752.69
STCO - 6	1610904.9200	194580.7844	STORM CLEANOUT	RIM = 758.33 INV IN = 752.50 INV IN = 752.83 INV OUT = 752.40	STCO 5 - STCO 6, 12" RCP INV IN =752.50 DOWNSPOUT 3 - STCO 6, 8" PROPOSED STORM INV IN =752.83	STCO 6 - STR 14, 12" RCP INV OUT =752.40
STR - 1	1610979.4613	194917.4654	TYPE "A" INLET - R-3472	RIM = 757.00 INV OUT = 754.00		STR 1 - STR 2, 12" RCP INV OUT =754.00
STR - 2	1610916.5959	194917.2683	TYPE "A" INLET - R-3472	RIM = 757.30 INV IN = 753.79 INV OUT = 753.69	STR 1 - STR 2, 12" RCP INV IN =753.79	STR 2 - STR 3, 15" RCP INV OUT =753.69
STR - 3	1610852.6918	194917.3018	TYPE "A" INLET - R-3472	RIM = 757.15 INV IN = 753.48 INV OUT = 753.13	STR 2 - STR 3, 15" RCP INV IN =753.48	STR 3 - STR 4, 18" RCP INV OUT =753.13
STR - 4	1610788.7056	194917.3289	TYPE "A" INLET - R-3472	RIM = 757.15 INV IN = 752.96 INV OUT = 752.61	STR 3 - STR 4, 18" RCP INV IN =752.96	STR 4 - STR 8, 18" RCP INV OUT =752.61
STR - 5	1610980.6948	194755.3807	TYPE "J" MH - R-3010	RIM = 755.65 INV OUT = 750.58		STR 5 - STR 6, 36" RCP INV OUT =750.58
STR - 6	1610916.5600	194755.2657	TYPE "J" MH - R-3010	RIM = 757.20 INV IN = 750.48 INV OUT = 750.38	STR 5 - STR 6, 36" RCP INV IN =750.48	STR 6 - STR 7, 36" RCP INV OUT =750.38
STR - 7	1610852.6441	194755.3289	TYPE "J" MH - R-3010	RIM = 756.45 INV IN = 750.28 INV OUT = 750.18	STR 6 - STR 7, 36" RCP INV IN =750.28	STR 7 - STR 8, 36" RCP INV OUT =750.18
STR - 8	1610788.8513	194755.1992	TYPE "J" MH - R-3010	RIM = 756.71 INV IN = 752.29 INV IN = 750.08 INV OUT = 749.98	STR 4 - STR 8, 18" RCP INV IN =752.29 STR 7 - STR 8, 36" RCP INV IN =750.08	STR 8 - STR 9, 36" RCP INV OUT =749.98
STR - 9	1610788.6790	194549.0120	TYPE "J" MH - R-3010	RIM = 756.15 INV IN = 749.67 INV OUT = 749.57	STR 8 - STR 9, 36" RCP INV IN =749.67	STR 9 - STR 16, 36" RCP INV OUT =749.57
STR - 11	1610978.9900	194445.0492	TYPE "J" MH - R-3010	RIM = 756.60 INV IN = 752.46 INV IN = 752.96 INV OUT = 751.86	NYLOPLAST 2 - STR 11, 18" RCP INV IN =752.46 STCO 3 - STR 11, 12" RCP INV IN =752.96	STR 11 - STR 12, 24" RCP INV OUT =751.86
STR - 12	1610917.0500	194445.0492	TYPE "J" MH - R-3010	RIM = 755.20 INV IN = 751.67 INV OUT = 751.57	STR 11 - STR 12, 24" RCP INV IN =751.67	STR 12 - STR 14, 24" RCP INV OUT =751.57
STR - 13	1610887.1440	194408.7305	TYPE "A" INLET - R-3501-N	RIM = 754.10 INV OUT = 752.02		STR 13 - STR 14, 12" RCP INV OUT =752.02
STR - 14	1610860.1739	194445.0492	TYPE "J" MH - R-3010	RIM = 754.55 INV IN = 751.40 INV IN = 751.87 INV IN = 751.87 INV OUT = 750.87	STR 12 - STR 14, 24" RCP INV IN =751.40 STR 13 - STR 14, 12" RCP INV IN =751.87 STCO 6 - STR 14, 12" RCP INV IN =751.87	STR 14 - STR 16, 30" RCP INV OUT =750.87
STR - 15	1610790.7117	194408.7305	TYPE "A" INLET - R-3472	RIM = 753.95 INV OUT = 751.75		STR 15 - STR 16, 15" RCP INV OUT =751.75
STR - 16	1610788.7518	194445.1053	TYPE "J" MH - R-1772	RIM = 754.68 INV IN = 751.63 INV IN = 750.66 INV IN = 749.40 INV OUT = 749.28	STR 15 - STR 16, 15" RCP INV IN =751.63 STR 14 - STR 16, 30" RCP INV IN =750.66 STR 9 - STR 16, 36" RCP INV IN =749.40	STR 16 - SQU, 36" RCP INV OUT =749.28
STR - 17	1610760.9271	194463.2520	TYPE "C" MH	RIM = 754.00 INV IN = 749.08 INV OUT = 749.08	SQU 1 - STR 17, 36" RCP INV IN =749.08	STR 17 - OUTFALL 2, 36" RCP INV OUT =749.08
STR - 18	1610534.5514	194445.8268	TYPE "C" MH	RIM = 753.35 INV OUT = 747.67		STR 18 - STR 19, 18" RCP INV OUT =747.67
STR 19	1610759.2568	194399.0714	TYPE "C" MH	RIM = 753.65 INV IN = 746.90 INV OUT = 746.90	STR 18 - STR 19, 18" RCP INV IN =746.90	STR 19 - EXISTING STRUCTURE, 18" RCP INV OUT =746.90
UPSTREAM TRENCH DRAIN	1611040.2812	194445.2012	TRENCH DRAIN	RIM = 757.17 INV IN = 753.70 INV OUT = 753.60	STCO 2 - UPSTREAM TRENCH DRAIN, 12" RCP INV IN =753.70	TRENCH DRAIN, 12" RCP INV OUT =753.60

N

TRUE NORTH

PLOT DATE/TIME: January 30, 2026

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SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

ROBERT SANLOS
REGISTERED
No. 12300688
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS:
1 DATE 01/30/2026 DESC. ADDENDUM #1

100% CONSTRUCTION DOCUMENTS

PROJECT: 2025.150
DATE: 01/06/2026
DRAWN BY: KIS

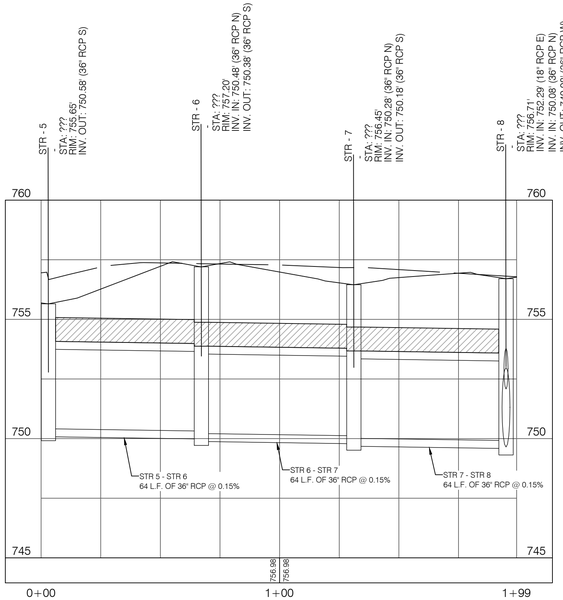
STORM LAYOUT PLAN

C-8.6

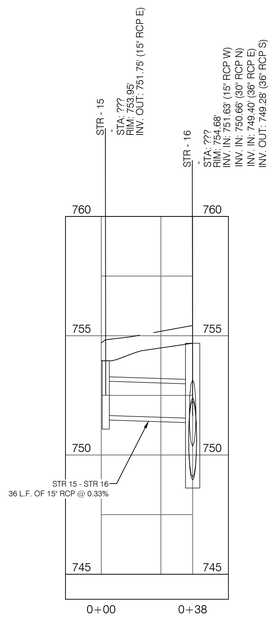
STORM SEWER GENERAL NOTES

1. GRANULAR BACKFILL REQUIRED WITHIN 5' OF EDGE OF PAVEMENT ON ALL PAVEMENT. GRANULAR BACKFILL MATERIAL TO BE BACKFILL TYPE 7 UNLESS OTHERWISE STATED BY COUNTY STANDARDS.

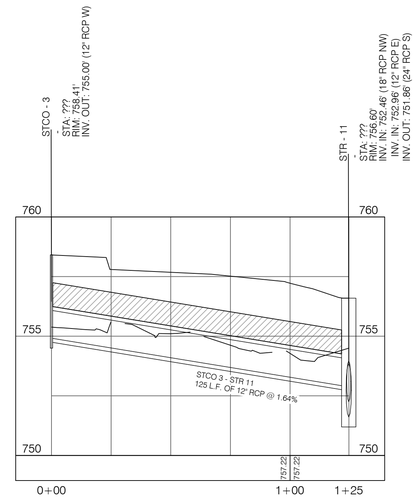
GRANULAR BACKFILL -



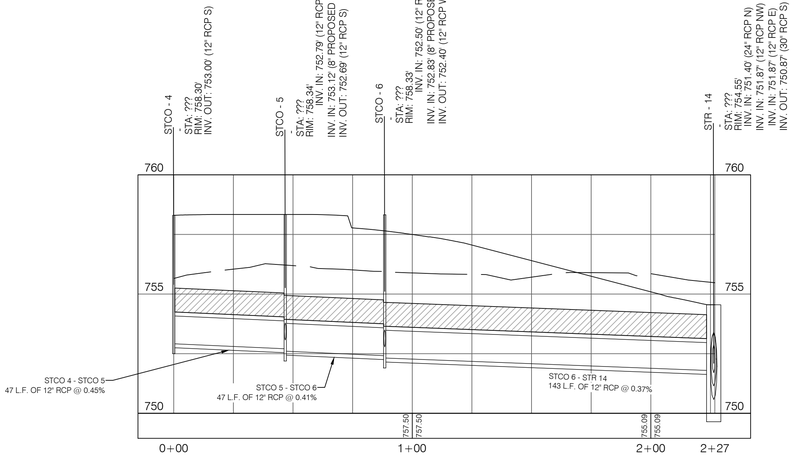
PROPOSED STORM
LINE "STR 5 - STR 8"
H: 1" = 30' ı V: 1" = 3'



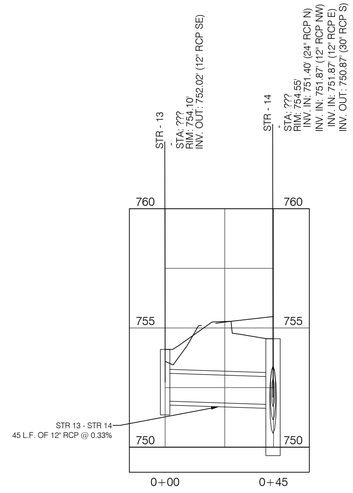
PROPOSED STORM
LINE "STR 15 - STR 16"
H: 1" = 30' ı V: 1" = 3'



PROPOSED STORM
LINE "STCO - STR 11"
H: 1" = 30' ı V: 1" = 3'



PROPOSED STORM
LINE "STCO - STR 14"
H: 1" = 30' ı V: 1" = 3'



PROPOSED STORM
LINE "STR 13 - STR 14"
H: 1" = 30' ı V: 1" = 3'

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

ROBERT SANTOS
REGISTERED
No. 12300688
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

#	DATE	DESC.
1	01/30/2026	ADDENDUM #1

100% CONSTRUCTION DOCUMENTS

PROJECT: 2025.150
DATE: 01/06/2026
DRAWN BY: KIS

PHASE 1
STORM
PROFILES

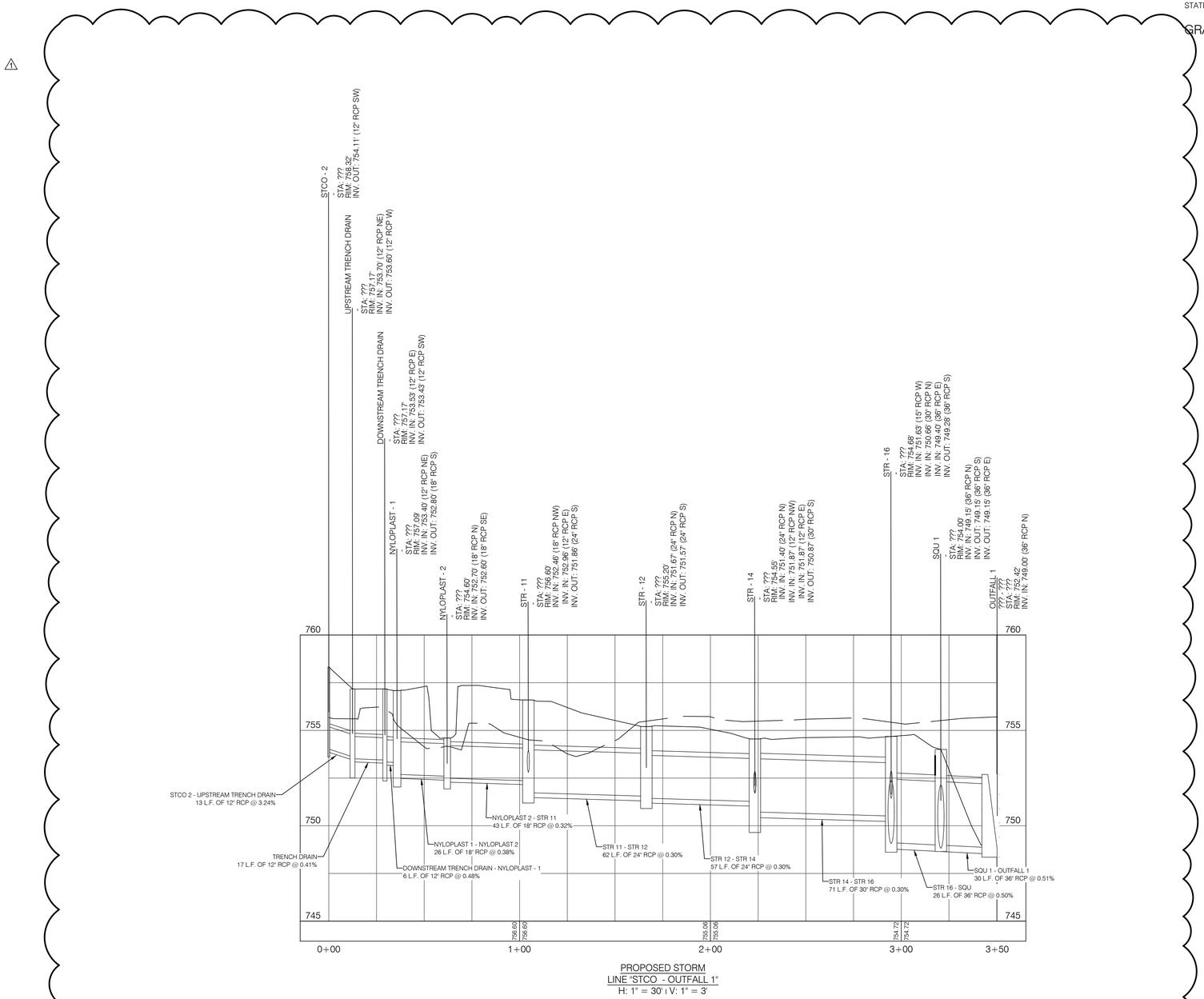
C-8.9

PLOT DATE/TIME:

STORM SEWER GENERAL NOTES

1. GRANULAR BACKFILL REQUIRED WITHIN 5' OF EDGE OF PAVEMENT ON ALL PAVEMENT. GRANULAR BACKFILL MATERIAL TO BE BACKFILL TYPE 7 UNLESS OTHERWISE STATED BY COUNTY STANDARDS.

GRANULAR BACKFILL -



PROPOSED STORM
LINE "STCO - OUTFALL 1"
H: 1" = 30' I V: 1" = 3'

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS

SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION

971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

ROBERT SANTOS
REGISTERED
No. 12300688
STATE OF INDIANA
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REVISIONS:		
#	DATE:	DESC:
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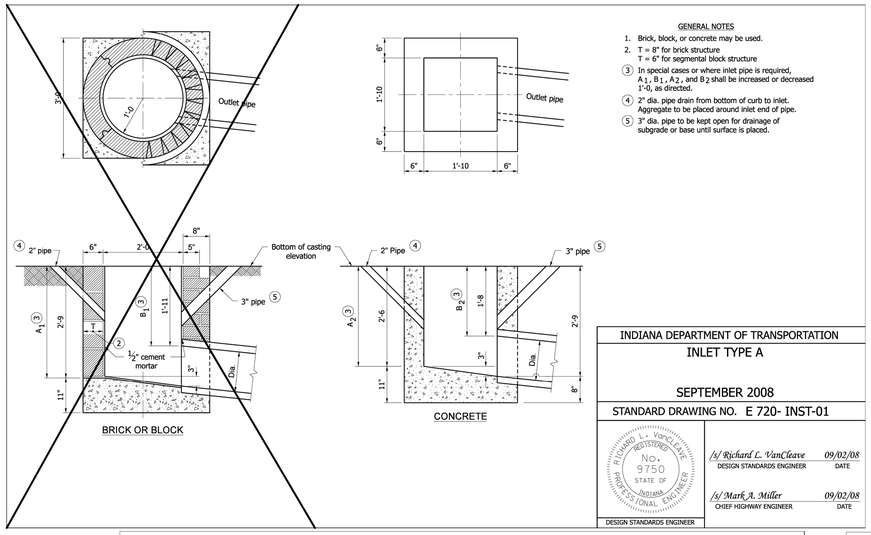
100% CONSTRUCTION DOCUMENTS

PROJECT:	2025.150
DATE:	01/06/2026
DRAWN BY:	KIS

PHASE 1
STORM
PROFILES

C-8.10

PLOT DATE/TIME:



GENERAL NOTES

1. Brick, block, or concrete may be used.
2. T = 8" for brick structure
   T = 6" for segmental block structure
3. In special cases or where inlet pipe is required, A_1, B_1, A_2, and B_2 shall be increased or decreased 1'-0, as directed.
4. 2" dia. pipe drain from bottom of curb to inlet. Aggregate to be placed around inlet end of pipe.
5. 3" dia. pipe to be kept open for drainage of subgrade or base until surface is placed.

INDIANA DEPARTMENT OF TRANSPORTATION

INLET TYPE A

SEPTEMBER 2008

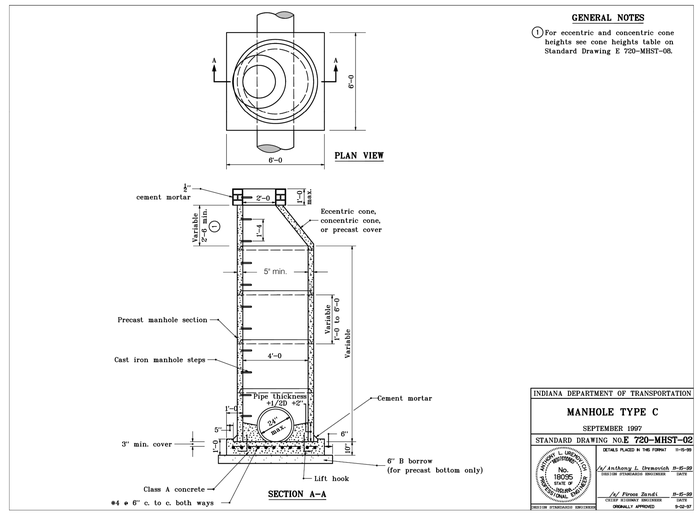
STANDARD DRAWING NO. E 720- INST-01

RICHARD L. VANCLEAVE REGISTERED No. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Richard L. VanCleave 09/02/08
DESIGN STANDARDS ENGINEER — DATE

/s/ Mark A. Miller 09/02/08
CHIEF HIGHWAY ENGINEER — DATE

DESIGN STANDARDS ENGINEER



GENERAL NOTES

(1) For eccentric and concentric cone heights see cone heights table on Standard Drawing E 720-MHST-08.

INDIANA DEPARTMENT OF TRANSPORTATION

MANHOLE TYPE C

SEPTEMBER 1997

STANDARD DRAWING NO. E 720-MHST-02

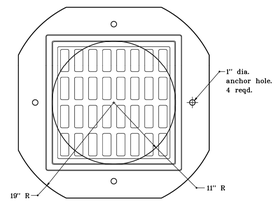
DETAILS PLACED IN THIS FORMAT 11-15-99

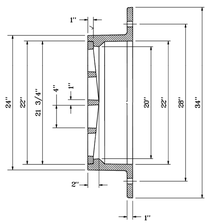
ANTHONY L. DRAMESICH No. 18095 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

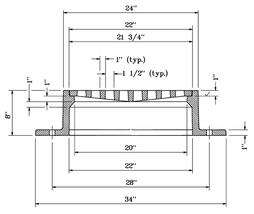
/s/ Anthony L. Dramesich 11-15-99
DESIGN STANDARDS ENGINEER — DATE

/s/ Firoz Zaidi 11-15-99
CHIEF ECONOMIC DEVELOPER — DATE

DESIGN STANDARDS ENGINEER — ORIGINALLY APPROVED 9-22-97







INDIANA DEPARTMENT OF TRANSPORTATION

FLAT TOP GRATE CASTING TYPE 2

SEPTEMBER 1998

STANDARD DRAWING NO. E 720-MHCA-01

DETAILS PLACED IN THIS FORMAT 11-15-99

ANTHONY L. DRAMESICH No. 18095 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

/s/ Anthony L. Dramesich 11-15-99
DESIGN STANDARDS ENGINEER — DATE

/s/ Firoz Zaidi 11-15-99
CHIEF ECONOMIC DEVELOPER — DATE

DESIGN STANDARDS ENGINEER — ORIGINALLY APPROVED 9-22-98

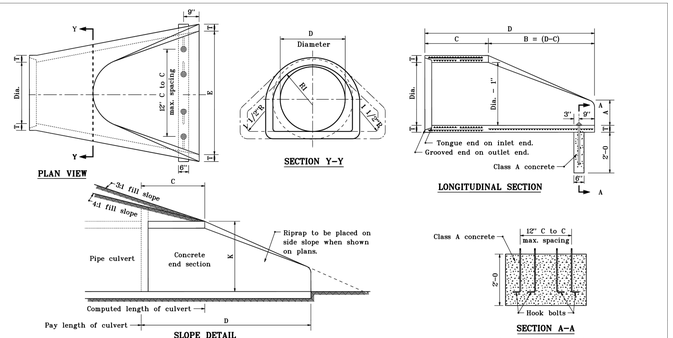


TABLE OF DIMENSIONS									
DIA.	T (min.)	A (±1")	C (±1")	D (±1")	E (±1")	K	R1	R2	APPROX. WEIGHT, lb.
12"	2"	5"	4'-3	6'-2	2'-0	1.3	10¼"	9"	800
15"	2½"	7"	4'-0	6'-3	2'-6	1.5	12¼"	11"	1100
18"	2¾"	11"	4'-1	6'-2	3'-0	1.8	15¼"	12"	1300
21"	2¾"	11"	3'-6	6'-3	3'-6	2.1	16¾"	13"	1500
24"	3"	1'-0	2'-8	6'-3	4'-0	2.3	16¾"	14"	1800
27"	3½"	1'-1	2'-5	6'-3	4'-6	2.6	18⅜"	14½"	2100
30"	3¾"	1'-2	1'-10	6'-3	5'-0	2.9	18¾"	15"	2400
33"	3¾"	1'-3	3'-6	8'-3	5'-6	3.1	23¾"	17½"	4100
36"	4"	1'-5	3'-1	8'-3	6'-0	3.4	24⅜"	20"	4200

INDIANA DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE END SECTION

MAY 1998

STANDARD DRAWING NO. E 715-PCES-01

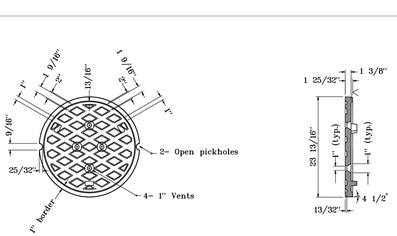
DETAILS PLACED IN THIS FORMAT 11-15-99

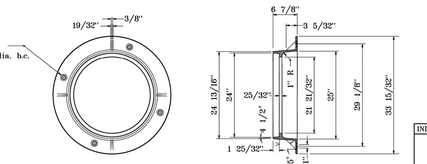
ANTHONY L. DRAMESICH No. 18095 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

/s/ Anthony L. Dramesich 11-15-99
DESIGN STANDARDS ENGINEER — DATE

/s/ Firoz Zaidi 11-15-99
CHIEF ECONOMIC DEVELOPER — DATE

DESIGN STANDARDS ENGINEER — ORIGINALLY APPROVED 5-15-98





INDIANA DEPARTMENT OF TRANSPORTATION

MANHOLE CASTING TYPE 4 RING AND COVER

SEPTEMBER 1998

STANDARD DRAWING NO. E 720-MHCA-02

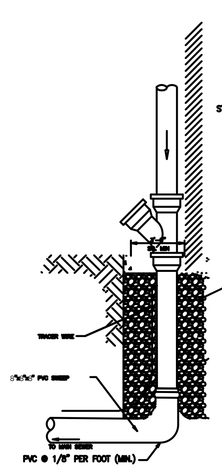
DETAILS PLACED IN THIS FORMAT 11-15-99

ANTHONY L. DRAMESICH No. 18095 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

/s/ Anthony L. Dramesich 11-15-99
DESIGN STANDARDS ENGINEER — DATE

/s/ Firoz Zaidi 11-15-99
CHIEF ECONOMIC DEVELOPER — DATE

DESIGN STANDARDS ENGINEER — ORIGINALLY APPROVED 9-22-98



CLEANOUT LOCATIONS:

1. AT THE JUNCTION OF BUILDING DRAIN AND BUILDING SEWER (NEAR EXTERIOR FACE OF BUILDING)
2. IF BUILDING SEWER IS MORE THAN 100 FEET FROM MAIN LINE SEWER, CLEAN-OUTS SPACING SHALL NOT EXCEED 100 FEET.
3. A CLEANOUT IS REQUIRED AT EACH BEND THAT IS GREATER THAN 45 DEGREES.

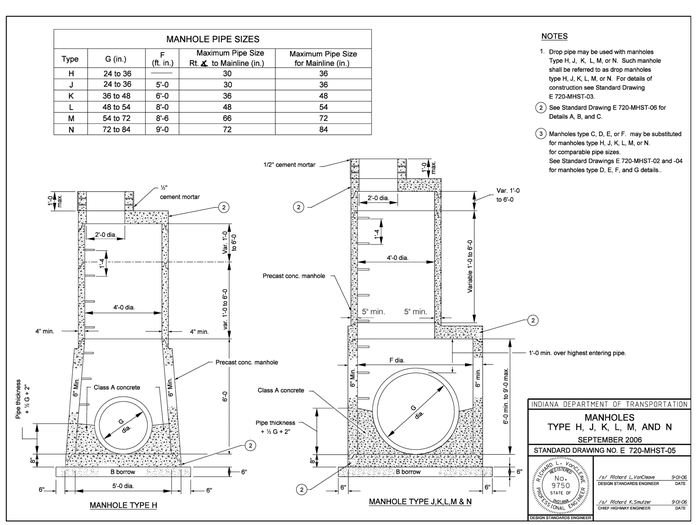
UNDERGROUND DOWNSPOUT CONNECTION

NTS

MANHOLE PIPE SIZES				
Type	G (in.)	F (ft. in.)	Maximum Pipe Size Rt. ℄ to Mainline (in.)	Maximum Pipe Size for Mainline (in.)
H	24 to 36	——	30	36
J	24 to 36	5'-0	30	36
K	36 to 48	6'-0	36	48
L	48 to 54	8'-0	48	54
M	54 to 72	8'-6	66	72
N	72 to 84	9'-0	72	84

NOTES

1. Drop pipe may be used with manholes Type H, J, K, L, M, or N. Such manhole shall be referred to as drop manholes type H, J, K, L, M, or N. For details of construction see Standard Drawing E 720-MHST-03.
2. See Standard Drawing E 720-MHST-06 for Details A, B, and C.
3. Manholes type C, D, E, or F may be substituted for manholes type H, J, K, L, M, or N. for comparable pipe sizes. See Standard Drawings E 720-MHST-02 and -04 for manholes type D, E, F, and G details..



INDIANA DEPARTMENT OF TRANSPORTATION

MANHOLES TYPE H, J, K, L, M, AND N

SEPTEMBER 2006

STANDARD DRAWING NO. E 720-MHST-05

RICHARD L. VANCLEAVE No. 9750 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

/s/ Richard L. VanCleave 9-24-06
DESIGN STANDARDS ENGINEER — DATE

/s/ Richard A. Snyder 9-24-06
CHIEF HIGHWAY ENGINEER — DATE

DESIGN STANDARDS ENGINEER

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

ROBERT SANTOS REGISTERED No. 12300688 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:
| DATE | DESC.
1 | 01/30/2026 | ADDENDUM #1

100% CONSTRUCTION DOCUMENTS

PROJECT: 2025.150
DATE: 01/06/2026
DRAWN BY: KIS

STORM DETAILS

C-8.15

PLOT DATE: 1/30/2026

MATCHLINE

(SEE SHEET C-9.2)

MATCHLINE

(SEE SHEET C-9.3)

CONNECT TO EXISTING FIRE PROTECTION LINE

CONNECT TO EXISTING GAS LINE

PAVEMENT REMOVAL

754.4480

754.1776
754.0776

753.0376
752.9376

751.8976
751.7976

750.8576
750.7576

749.7176
749.6176

748.5776
748.4776

UTILITY PLAN LEGEND

1. 6" SDR 35
2. SANITARY CLEANOUT
3. 6" WATER SERVICE AWWA C900
4. 6" FPM AWWA C900
5. FIRE HYDRANT
6. POST INDICATOR VALVE
7. FIRE DEPARTMENT CONNECTION (FDC)
8. 6" SCHEDULE 40

GRAPHIC SCALE

0' 30' 60' 90'

(IN FEET)

N

TRUE NORTH

PLOT DATE/TIME:

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS

SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION

971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

ROBERT SANTOS REGISTERED No. 12300688 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:

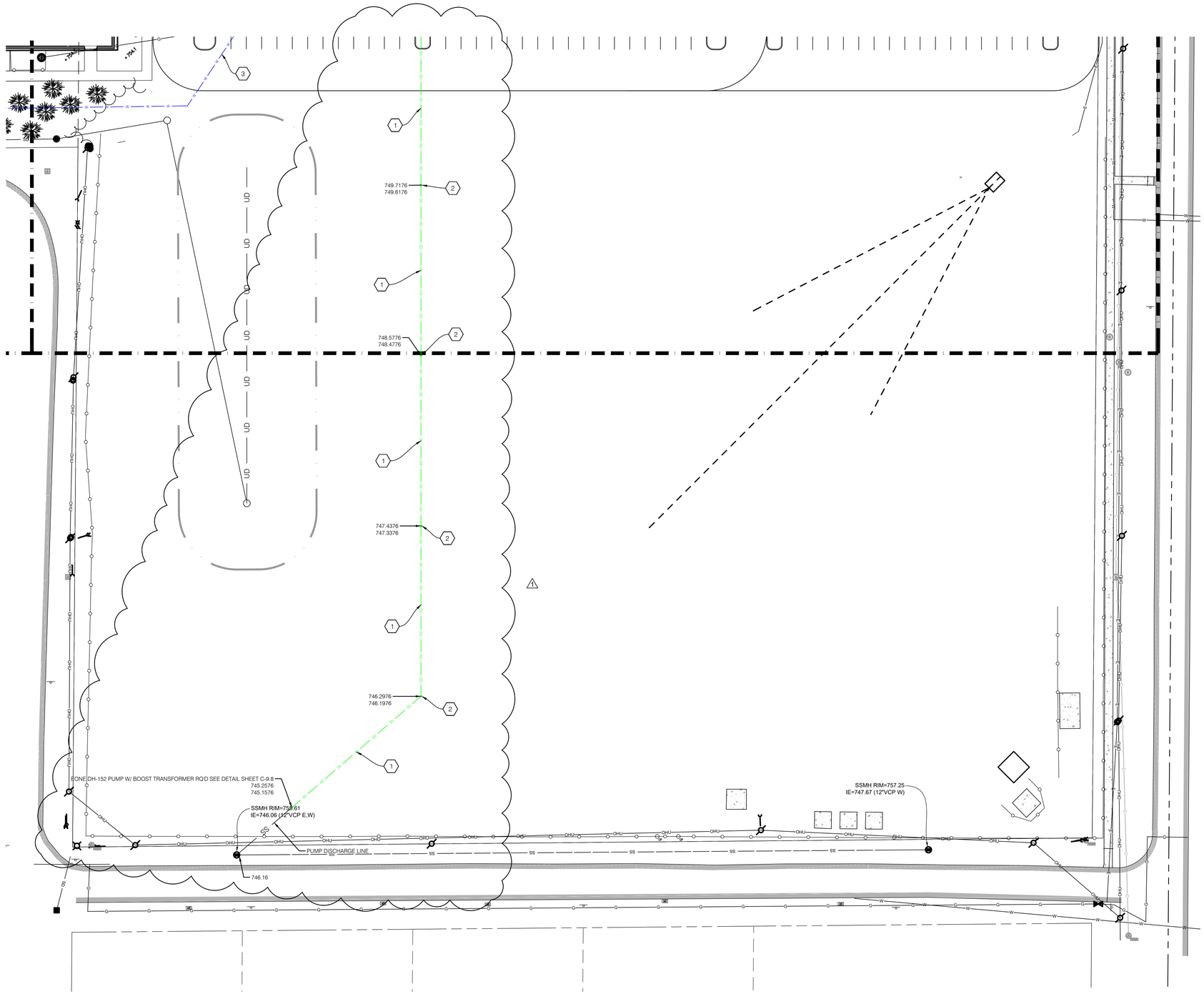
#	DATE	DESC.
1	01/30/2026	ADDENDUM #1

100% CONSTRUCTION DOCUMENTS

PROJECT: 2025.150
DATE: 01/06/2026
DRAWN BY: KIS

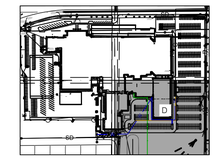
UTILITY PLAN

C-9.4



UTILITY PLAN LEGEND

1. 6" SDR 35
2. SANITARY CLEANOUT
3. 6" WATER SERVICE AWWA C900
4. 6" FPM AWWA C900
5. FIRE HYDRANT
6. POST INDICATOR VALVE
7. FIRE DEPARTMENT CONNECTION (FDC)
8. 6" SCHEDULE 40



GRAPHIC SCALE
0' 30' 60' 90'
(IN FEET)

N
TRUE NORTH

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

ROBERT SANTOS
REGISTERED
No. 12300688
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

#	DATE	DESC.
1	01/30/2026	ADDENDUM #1

100% CONSTRUCTION DOCUMENTS

PROJECT:	2025.150
DATE:	01/06/2026
DRAWN BY:	KIS

UTILITY PLAN

C-9.5

PLOT DATE/TIME:

GENERAL SITE NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

B REFER TO LOCAL UTILITIES GUIDE FOR DETAILS AND REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC. INCLUDE ALL UTILITY FEES REQUIRED IN BID.

C PROVIDE LABELS ON ALL EQUIPMENT MODIFIED BY THIS PROJECT. PROVIDE LABELS ON ALL JUNCTION BOXES AND CONDUITS MODIFIED OR PROVIDED BY THIS PROJECT. PROVIDE UPDATED PANELBOARD DIRECTORIES ON ALL PANELBOARDS MODIFIED BY THIS PROJECT.

SITE PLAN NOTES

1 PROVIDE NEW UTILITY PRIMARY FROM SWITCHBOARD MVMDS1 TO NEW UTILITY TRANSFORMER T-5. CONNECT TO UTILITY PRIMARY MAINTAINED OUTSIDE THE BUILDING DURING DEMOLITION. PROVIDE AN IN-GRADE BOX AT THIS LOCATION SIZED FOR FUTURE INCOMING AND OUTGOING UTILITY PRIMARY. COORDINATE REQUIREMENTS WITH AES INDIANA.

2 PROVIDE NEW UTILITY PRIMARY FROM SWITCHBOARD MVMDS1 TO NEW UTILITY TRANSFORMER T-5. COORDINATE REQUIREMENTS WITH AES INDIANA. PROVIDE A #3/0 GROUNDING CONDUCTOR IN TRENCH FROM THE MAIN SERVICE GROUNDING IN MVMDS1 AND CONNECT TO THE NEW SERVICE DISCONNECTS. ALL SERVICES GROUNDING ARE TO BE CONNECTED PER THE NEC.

3 INSTALL TO NEW UTILITY TRANSFORMER T-5, PAD, AND BOLLARDS PER AES INDIANA REQUIREMENTS.

4 MOUNT DISCONNECTS ON STRUT ON THE EXISTING EXTERIOR WALL. CONNECT TO TRANSFORMER T-5 PER ONE-LINE DIAGRAM.

5 CONNECT SWITCHBOARD 'PSB' TO DISCONNECT 'DISC-PSB' PER ONE-LINE DIAGRAM. ROUTE FEEDER BELOW NEW SLAB AND STUB INTO BASEMENT WITHIN SWITCHBOARD 'PSB'.

6 CONNECT SWITCHBOARD '1HDS1' TO DISCONNECT 'DISC-1HDS1' PER ONE-LINE DIAGRAM. ROUTE FEEDER BELOW NEW SLAB AND STUB INTO BASEMENT WITHIN SWITCHBOARD 'PSB'.

7 PROVIDE GROUNDING TRIANGLE BELOW PAVEMENT AND CONNECT TO SERVICE DISCONNECTS PER ONE-LINE DIAGRAM. REFER TO DETAIL 1/E-503.

8 REFER TO DETAILS 8 AND 9 ON SHEET E-502 FOR POLE BASE AND POLE INSTALLATION REQUIREMENTS.

9 PROVIDE SITE LIGHTING CIRCUIT IN 1" CONDUIT.

10 GROUND BUILDING STEEL PER DETAIL 6 ON SHEET E-503.

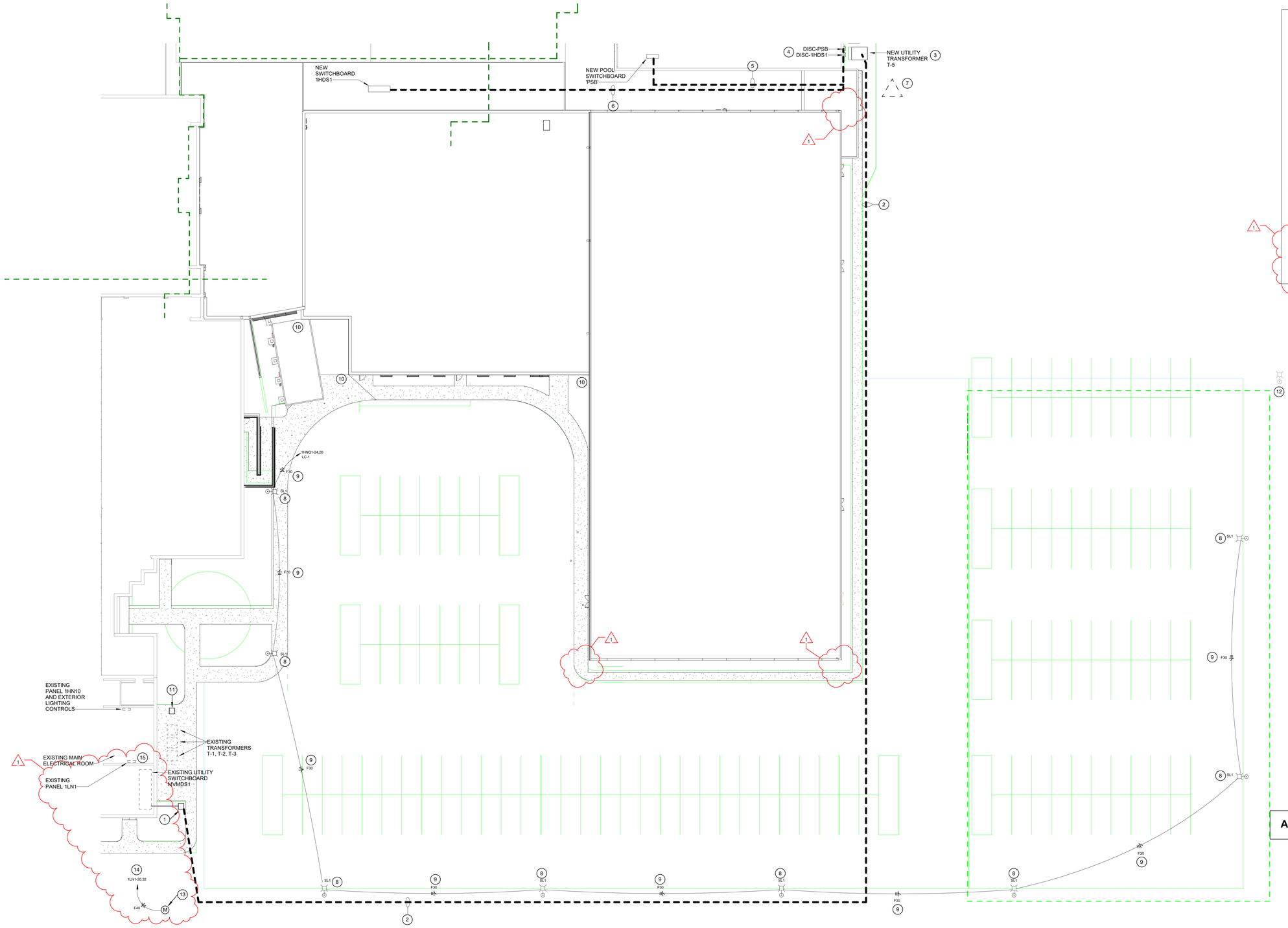
11 EXTEND EXISTING SITE POLE CIRCUITS MAINTAINED DURING DEMOLITION TO EXISTING SITE LIGHT POLES. CIRCUITS CONSIST OF 12#4 PLUS GROUND IN 3" CONDUITS.

12 EXTEND EXISTING SITE POLE CIRCUITS MAINTAINED DURING DEMOLITION FROM THIS EXISTING POLE TO THE EXISTING BREAKERS AND CONTROLS IN THE MAIN ELECTRICAL ROOM.

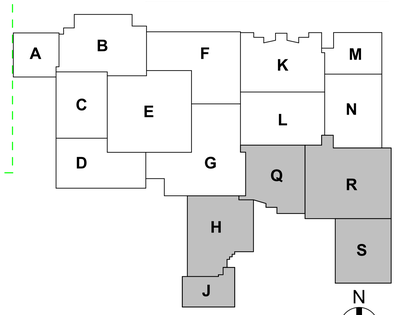
13 PROVIDE CIRCUIT FOR SANITARY LIFT STATION APPROXIMATELY 500' TO THE SOUTH. REFER TO SHEET C9.5 FOR EXACT LOCATION. PROVIDE ALL DISCONNECTS, CONVENIENCE RECEPTACLES, AND EQUIPMENT REQUIRED BY MANUFATURER.

14 PROVIDE NEW 2-POLE 20A BREAKER IN PANEL AT THIS LOCATION.

15 INSTALL 208/240V SINGLE PHASE BOOST TRANSFORMER PROVIDED WITH LIFT STATION PUMP. CONNECT TRANSFORMER IN CIRCUIT TO PROVIDE 240V TO THE LIFT STATION.



1 **ELECTRICAL SITE PLAN**
1" = 20'-0"



N
TRUE NORTH

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT 811 TO OBTAIN UNDERGROUND UTILITY LOCATIONS AMD AM AUTHORIZATION NUMBER PRIOR TO ANY CONSTRUCTION.

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

creative engineering solutions
mechanical · electrical · plumbing
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Indianapolis, IN 46208 • 463.223.9799
www.cecidesign.com

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46627

DAVID C. JONES III
REGISTERED
NO. PE12100175
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
1	01/30/2026	Addendum #01

100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: AMN

ELECTRICAL SITE PLAN

ES101

PLOT DATE/TIME: 1/30/2026 11:32:20 AM

GENERAL LIGHTING NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

B COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECT AND INTERIOR DESIGNER

C PROVIDE LABELS ON ALL EQUIPMENT MODIFIED BY THIS PROJECT. PROVIDE LABELS ON ALL JUNCTION BOXES AND CONDUITS MODIFIED OR PROVIDED BY THIS PROJECT. PROVIDE UPDATED PANELBOARD DIRECTORIES ON ALL PANELBOARDS MODIFIED BY THIS PROJECT.

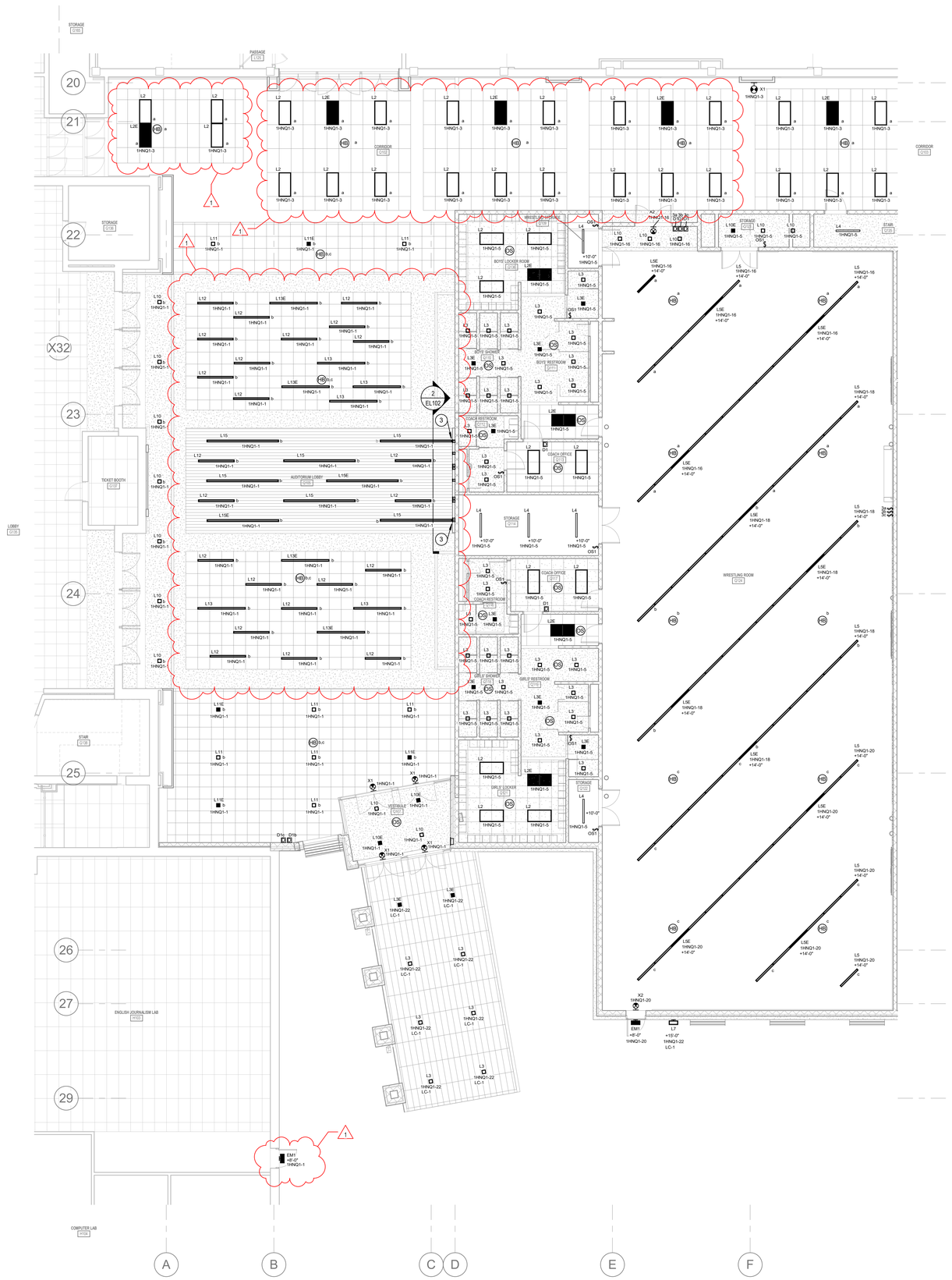
◯ LIGHTING PLAN NOTES

1 MOUNT FLOOD LIGHT ON TOP OF THE CANOPY BELOW THE PARAPET LEVEL. LOCATE 6 FEET FROM THE EDGE OF THE WALL GRAPHIC AND AIM PER OWNER. PROVIDE ALL REQUIRED MOUNTING HARDWARE.

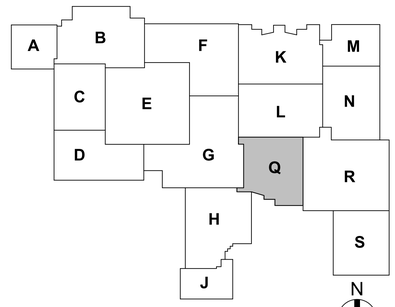
2 PROVIDE LIGHTING CONTROLLERS AND COMPATIBLE SWITCHES TO FACILITATE DIMMING CONTROL AS INDICATED IN THE SAC. ENSURE CONTROL COMPONENTS WILL FUNCTION WITH REQUIRED LOADS AND DISTANCES WITHIN THE SAC.

3 PROVIDE HORIZONTAL TO VERTICAL CORNER SECTION FOR LINEAR LIGHT FIXTURES AT THIS LOCATION. REFER TO MANUFACTURER FOR INSTALLATION REQUIREMENTS.

2 **AUDITORIUM LOBBY - FEATURE WALL LIGHTING**
1/8" = 1'-0"



1 **ELECTRICAL LIGHTING FIRST FLOOR PLAN - UNIT Q**
1/8" = 1'-0"



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DAVID L. JONES II
REGISTERED
NO. PE12100175
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

	Desc.	Date
1	Addendum #01	01/30/2026

100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: AMN

ELECTICAL LIGHTING FIRST FLOOR PLAN - UNIT Q

EL102

PLOT DATE/TIME: 1/30/2026 11:02:26 AM

GENERAL LIGHTING NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

B COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECT AND INTERIOR DESIGNER

C PROVIDE LABELS ON ALL EQUIPMENT MODIFIED BY THIS PROJECT. PROVIDE LABELS ON ALL JUNCTION BOXES AND CONDUITS MODIFIED OR PROVIDED BY THIS PROJECT. PROVIDE UPDATED PANELBOARD DIRECTORIES ON ALL PANELBOARDS MODIFIED BY THIS PROJECT.

LIGHTING PLAN NOTES

1 MOUNT FLOOD LIGHT ON TOP OF THE CANOPY BELOW THE PARAPET LEVEL. LOCATE 6 FEET FROM THE EDGE OF THE WALL GRAPHIC AND AIM PER OWNER. PROVIDE ALL REQUIRED MOUNTING HARDWARE.

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1 **ELECTRICAL LIGHTING FIRST FLOOR PLAN - UNIT R**
1/8" = 1'-0"



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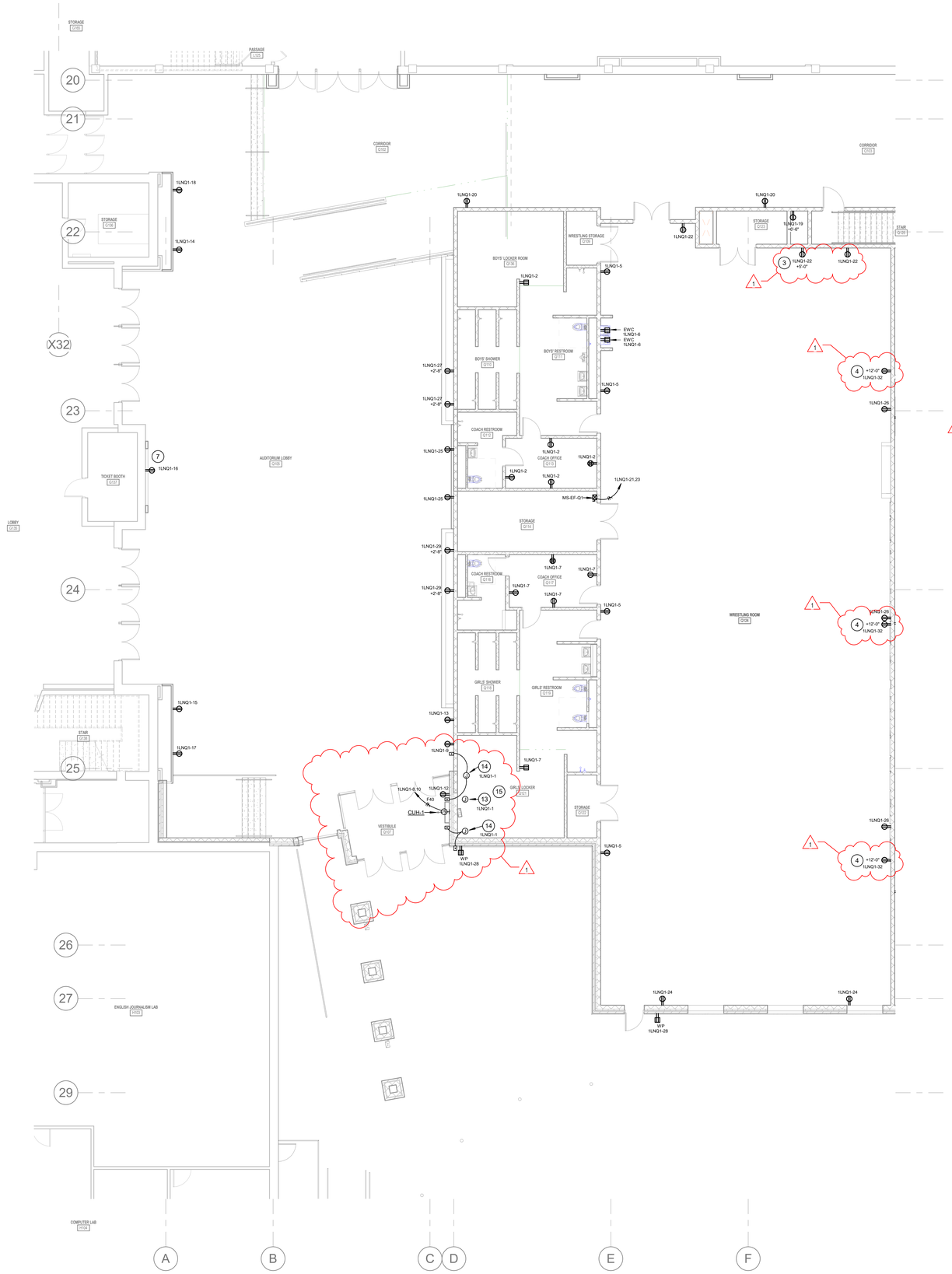
100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: AMN

ELECTICAL LIGHTING FIRST FLOOR PLAN - UNIT R

EL103

PLOT DATE/TIME: 1/30/2026 11:02:51 AM



1 **ELECTRICAL POWER FIRST FLOOR PLAN - UNIT Q**
1/8" = 1'-0"

GENERAL POWER NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

B PROVIDE A GEAR SUBMITTAL FOR GENERAL APPROVAL PRIOR TO CONDUCTING STUDIES. IMPLEMENT RECOMMENDATIONS TO ELECTRICAL GEAR FOR FINAL APPROVAL AFTER STUDIES ARE COMPLETED AND APPROVED.

C COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECT AND INTERIOR DESIGNER.

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POWER PLAN NOTES

1 PROVIDE DIGITAL GYM EQUIPMENT RELAY CONTROLLER. PROVIDE AND FSR OR SIMILAR LOCKABLE COVER. COORDINATE BOX REQUIREMENT FOR PRECAST INSTALLATION. ROUTE CONDUIT FROM CONTROLLER THROUGH THE PRECAST INTO THE RELAY CABINET IN STORAGE R116. PROVIDE CONTROLLER PROGRAMMING AS REQUIRED.

2 PROVIDE GYM EQUIPMENT RELAY CABINET. COORDINATE QUANTITY OF RELAYS REQUIRED WITH GYM EQUIPMENT. CIRCUITS AND EQUIPMENT RELAY CONNECTIONS SHOWN ASSUME (4) EQUIPMENT CONNECTIONS PER RELAY. PROVIDE ADDITIONAL RELAY CIRCUITS FROM PANEL 1LNR1.

3 COORDINATE MONITOR RECEPTACLE LOCATION WITH TECHNOLOGY DRAWINGS.

4 COORDINATE SCOREBOARD INSTALLATION LOCATION WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER'S REQUIREMENTS.

5 PROVIDE (4) GANG FLOORBOX WITH (2) DUPLEX RECEPTACLES AND (2) GANGS FOR DATA DEVICES. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL REQUIREMENTS.

6 MOUNT IDF CABINET RECEPTACLES WITHIN THE CABINET PER MANUFACTURERS REQUIREMENTS.

7 COORDINATE MONITOR RECEPTACLE LOCATION WITH TECHNOLOGY DRAWINGS. ROUTE CONDUIT BEHIND EXISTING WALL. DO NOT INSTALL EXPOSED CONDUITS OR RACEWAY.

8 PROVIDE GROUNDING BUSBAR, CABLES, AND CONNECTIONS PER TECHNOLOGY DRAWINGS. CONNECT GROUNDING BUSBAR TO PANEL 1LNR1.

9 COORDINATE ACCESS CONTROL PANEL HARDWIRE CONNECTION LOCATION IN THE FIELD.

10 CONNECT EXISTING BRANCH CIRCUITS MAINTAINED DURING DEMOLITION TO THE NEW SWITCHBOARD AT THIS LOCATION. REFER TO THE ONE-LINE DIAGRAM FOR REQUIREMENTS.

11 INSTALL EXISTING TRANSFORMER T-7 MAINTAINED DURING DEMOLITION AT THIS LOCATION. REFER TO THE ONE-LINE DIAGRAM FOR REQUIREMENTS.

12 INDOOR SPLIT SYSTEM UNIT IS POWERED FROM THE OUTDOOR UNIT, CU-1 ON THE ROOF. PROVIDE NECESSARY WIRING AND CONNECTIONS TO INDOOR UNIT.

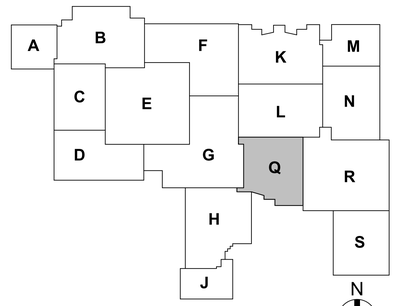
13 CONNECT DOOR POWER SUPPLY TO CIRCUIT INDICATED.

14 CONNECT AUTO DOOR OPERATOR POWER SUPPLY TO CIRCUIT INDICATED AND PROVIDE WIRING, PUSHBUTTONS, AND WIRING FOR OPERATION AS INDICATED.

15 LOCATE ALL ABOVE CEILING POWER SUPPLIES FOR EQUIPMENT IN VESTIBULE Q107 ABOVE THE CEILING IN GIRLS LOCKER ROOM Q121.

16 PROVIDE DIRECT WIRE CONNECTION OR RECEPTACLE FOR WASHER PER MANUFACTURERS REQUIREMENTS.

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100% CONSTRUCTION DOCUMENTS

PROJECT:	#24173S
DATE:	01-06-2026
DRAWN BY:	AMN

ELECTRICAL POWER FIRST FLOOR PLAN - UNIT Q

EP102

PLOT DATE/TIME: 1/30/2026 11:02:34 AM

GENERAL POWER NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

B PROVIDE A GEAR SUBMITTAL FOR GENERAL APPROVAL PRIOR TO CONDUCTING STUDIES. IMPLEMENT RECOMMENDATIONS TO ELECTRICAL GEAR FOR FINAL APPROVAL AFTER STUDIES ARE COMPLETED AND APPROVED.

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POWER PLAN NOTES

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2 PROVIDE GYM EQUIPMENT RELAY CABINET. COORDINATE QUANTITY OF RELAYS REQUIRED WITH GYM EQUIPMENT. CIRCUITS AND EQUIPMENT RELAY CONNECTIONS SHOWN ASSUME (4) EQUIPMENT CONNECTIONS PER RELAY. PROVIDE ADDITIONAL RELAY CIRCUITS FROM PANEL 1LNR1.

3 COORDINATE MONITOR RECEPTACLE LOCATION WITH TECHNOLOGY DRAWINGS.

4 COORDINATE SCOREBOARD INSTALLATION LOCATION WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER'S REQUIREMENTS.

5 PROVIDE (4) GANG FLOORBOX WITH (2) DUPLEX RECEPTACLES AND (2) GANGS FOR DATA DEVICES. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL REQUIREMENTS.

6 MOUNT IDF CABINET RECEPTACLES WITHIN THE CABINET PER MANUFACTURERS REQUIREMENTS.

7 COORDINATE MONITOR RECEPTACLE LOCATION WITH TECHNOLOGY DRAWINGS. ROUTE CONDUIT BEHIND EXISTING WALL. DO NOT INSTALL EXPOSED CONDUITS OR RACEWAY.

8 PROVIDE GROUNDING BUSBAR, CABLES, AND CONNECTIONS PER TECHNOLOGY DRAWINGS. CONNECT GROUNDING BUSBAR TO PANEL 1LNR1.

9 COORDINATE ACCESS CONTROL PANEL HARDWIRE CONNECTION LOCATION IN THE FIELD.

10 CONNECT EXISTING BRANCH CIRCUITS MAINTAINED DURING DEMOLITION TO THE NEW SWITCHBOARD AT THIS LOCATION. REFER TO THE ONE-LINE DIAGRAM FOR REQUIREMENTS.

11 INSTALL EXISTING TRANSFORMER T-7 MAINTAINED DURING DEMOLITION AT THIS LOCATION. REFER TO THE ONE-LINE DIAGRAM FOR REQUIREMENTS.

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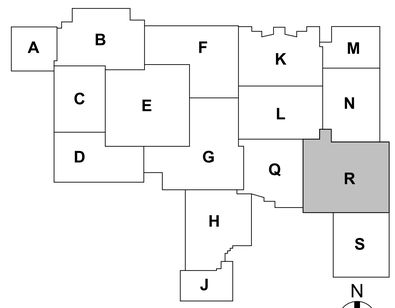
14 CONNECT AUTO DOOR OPERATOR POWER SUPPLY TO CIRCUIT INDICATED AND PROVIDE WIRING, PUSHBUTTONS, AND WIRING FOR OPERATION AS INDICATED.

15 LOCATE ALL ABOVE CEILING POWER SUPPLIES FOR EQUIPMENT IN VESTIBULE Q107 ABOVE THE CEILING IN GIRLS LOCKER ROOM Q121.

16 PROVIDE DIRECT WIRE CONNECTION OR RECEPTACLE FOR WASHER PER MANUFACTURERS REQUIREMENTS.

17 PROVIDE DIRECT WIRE CONNECTION OR RECEPTACLE FOR DRYER PER MANUFACTURERS REQUIREMENTS.

1 ELECTRICAL POWER FIRST FLOOR PLAN - UNIT R
1/8" = 1'-0"



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100% CONSTRUCTION DOCUMENTS

PROJECT:	#24173S
DATE:	01-06-2026
DRAWN BY:	AMN

ELECTRICAL POWER FIRST FLOOR PLAN - UNIT R

EP103

PLOT DATE/TIME: 1/30/2026 11:32:26 AM

GENERAL POWER NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

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3 COORDINATE MONITOR RECEPTACLE LOCATION WITH TECHNOLOGY DRAWINGS.

4 COORDINATE SCOREBOARD INSTALLATION LOCATION WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER'S REQUIREMENTS.

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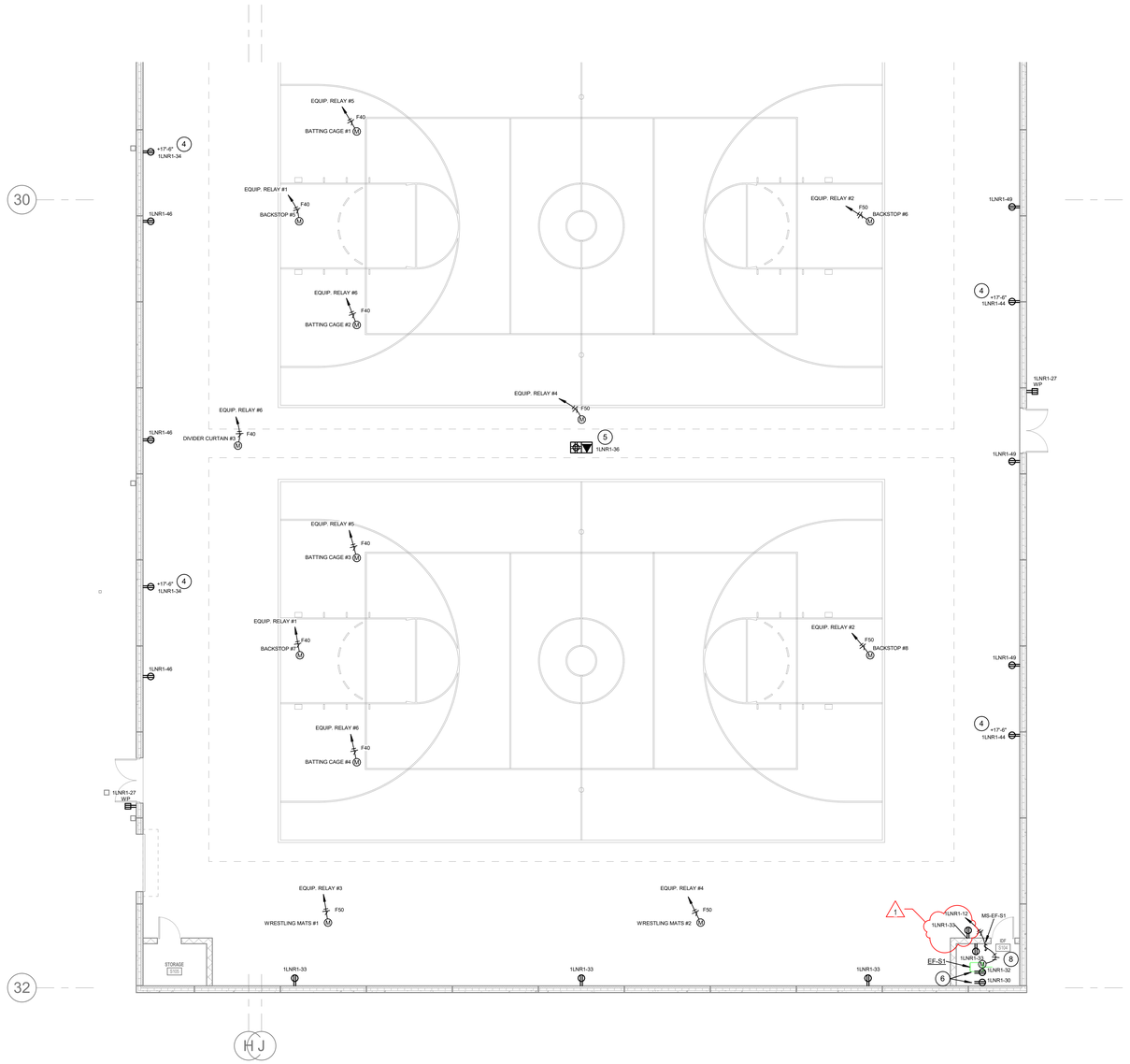
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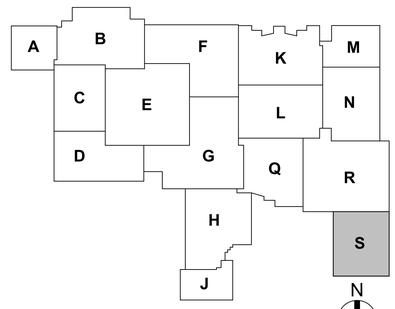
15 LOCATE ALL ABOVE CEILING POWER SUPPLIES FOR EQUIPMENT IN VESTIBULE Q107 ABOVE THE CEILING IN GIRLS LOCKER ROOM Q121.

16 PROVIDE DIRECT WIRE CONNECTION OR RECEPTACLE FOR WASHER PER MANUFACTURERS REQUIREMENTS.

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1 **ELECTRICAL POWER FIRST FLOOR PLAN - UNIT S**
1/8" = 1'-0"



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DAVID L. JONES III REGISTERED NO. PE12100175 STATE OF INDIANA PROFESSIONAL ENGINEER

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100% CONSTRUCTION DOCUMENTS

PROJECT:	#24173S
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ELECTRICAL POWER FIRST FLOOR PLAN - UNIT S

EP104

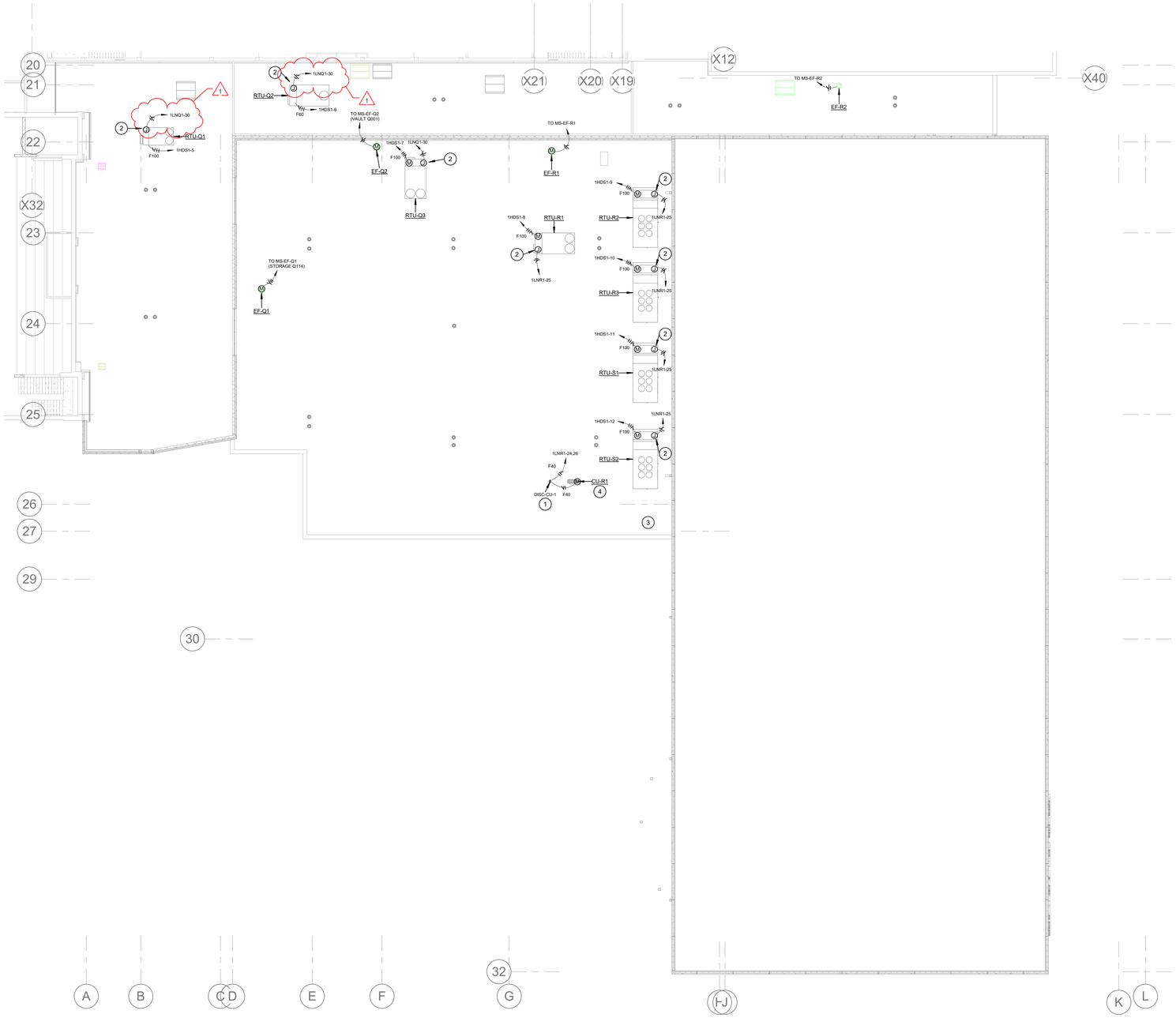
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GENERAL ROOF NOTES

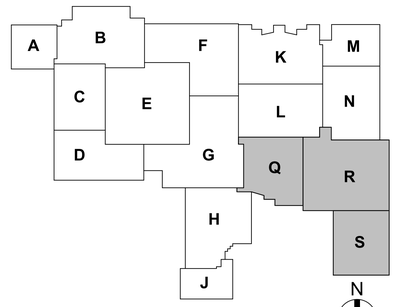
A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.
B PROVIDE ROOF MOUNTED RECEPTACLES AS REQUIRED TO BE WITHIN 24' OF ROOF MOUNTED EQUIPMENT.

ROOF PLAN NOTES

1 MOUNT DISCONNECT ON STRUT.
2 CONNECT ROOFTOP UNIT LIGHTS AND RECEPTACLES TO CIRCUIT INDICATED.
3 PROVIDE PHOTOCELL ON ROOF FOR LIGHTING CONTACTOR CONTROL. REFER TO DETAIL 4/E-502.
4 PROVIDE ALL CONTROL WIRING REQUIRED FOR SPLIT SYSTEM UNIT.



1 ELECTRICAL ROOF PLAN
1/16" = 1'-0"



N
TRUE NORTH

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ELECTRICAL ROOF PLAN

ER101

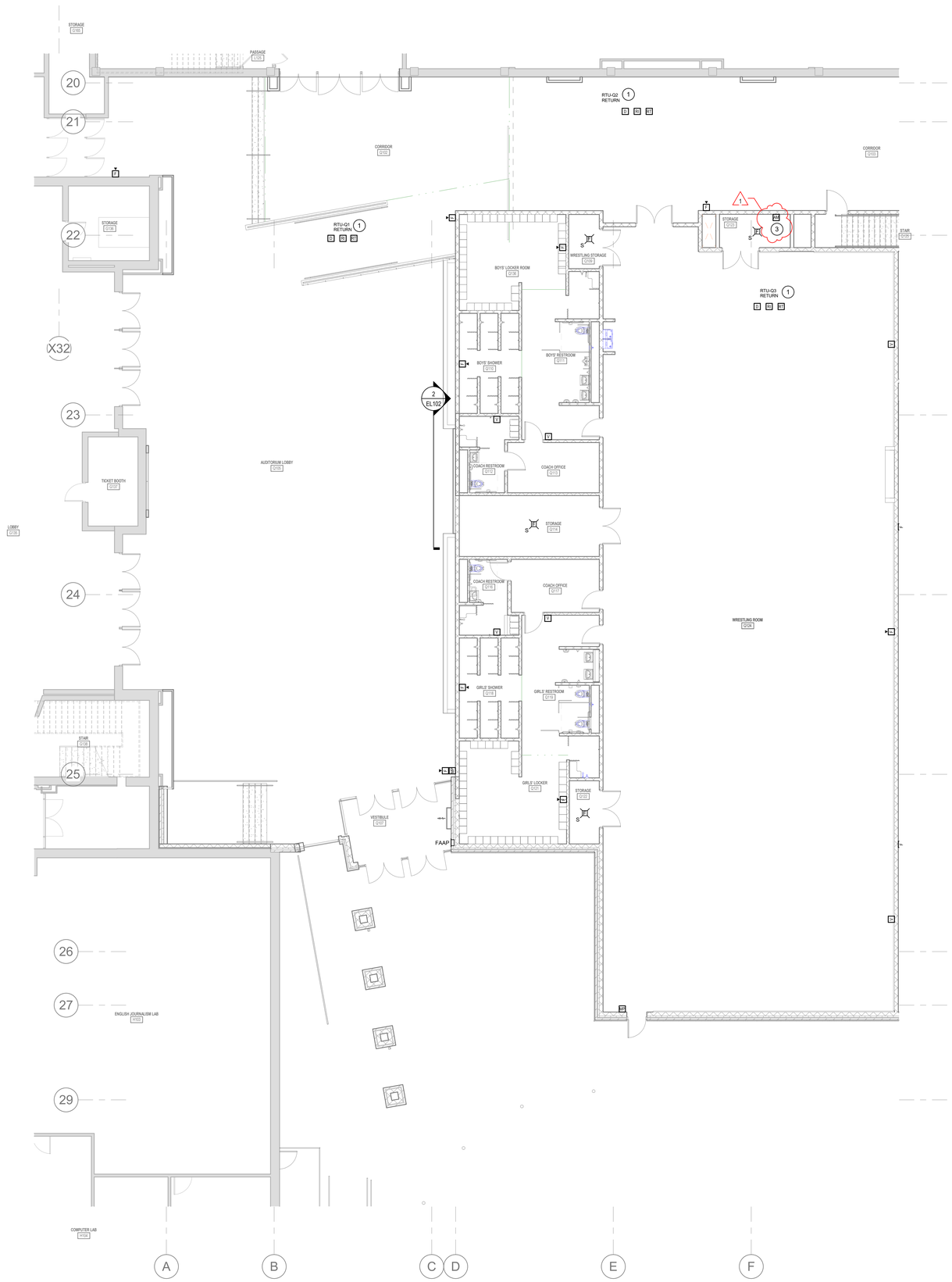
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GENERAL FIRE ALARM NOTES

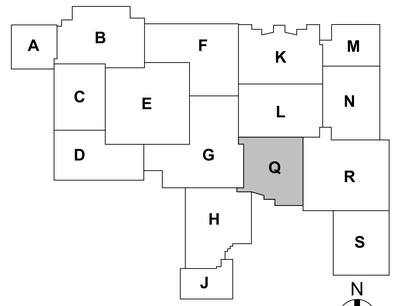
A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.
B FIRE ALARM SYSTEM IS A DELEGATED DESIGN AND STATE SUBMISSION.
C PROVIDE A COMPLETE FIRE ALARM SYSTEM TEST TO COMPLETE CONSTRUCTION.

FIRE ALARM PLAN NOTES

1 MOUNT DUCT DETECTOR IN RETURN DUCT. COORDINATE WITH OWNER FOR INSTALLATION LOCATIONS OF DETECTOR REMOTE INDICATOR AND REMOTE TEST SWITCH.
2 PROVIDE QUANTITY OF FLOW AND TAMPER SWITCH CONNECTIONS PER FIRE PROTECTION DRAWINGS.
3 PROVIDE ADDRESSABLE RELAY IN AV RACK TO CONNECT AUDIO DSP TO MUTE AUDIO DURING FIRE ALARM. PROVIDE ALL PROGRAMMING REQUIRED.



1 **ELECTRICAL FIRE ALARM FIRST FLOOR PLAN - UNIT Q**
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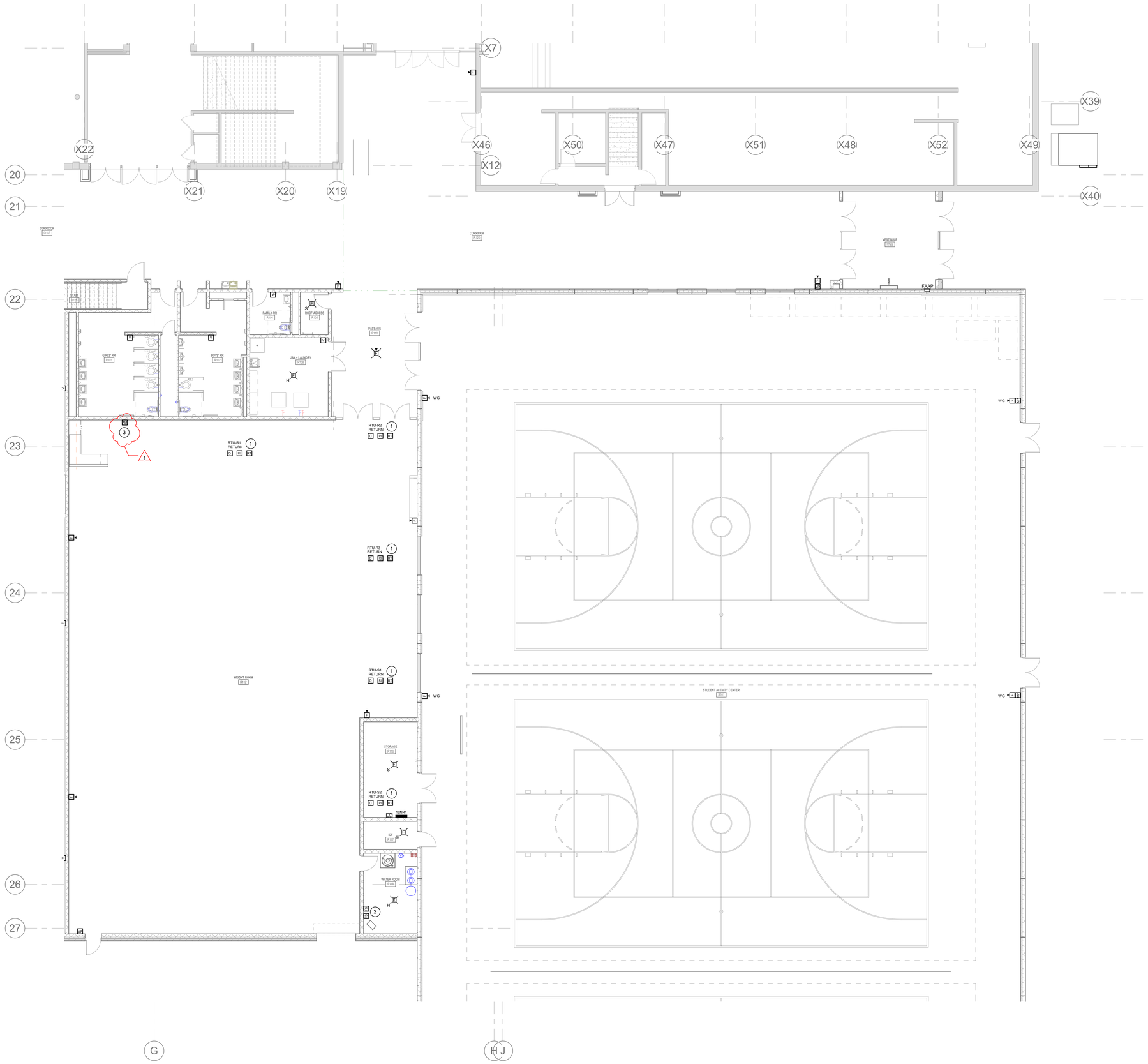
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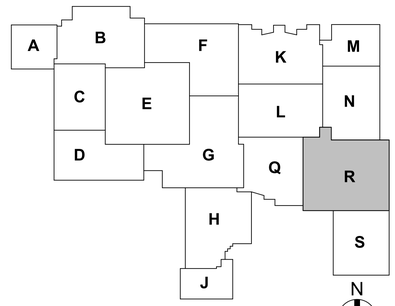
GENERAL FIRE ALARM NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.
B FIRE ALARM SYSTEM IS A DELEGATED DESIGN AND STATE SUBMISSION.
C PROVIDE A COMPLETE FIRE ALARM SYSTEM TEST TO COMPLETE CONSTRUCTION.

○ FIRE ALARM PLAN NOTES

1 MOUNT DUCT DETECTOR IN RETURN DUCT. COORDINATE WITH OWNER FOR INSTALLATION LOCATIONS OF DETECTOR REMOTE INDICATOR AND REMOTE TEST SWITCH.
2 PROVIDE QUANTITY OF FLOW AND TAMPER SWITCH CONNECTIONS PER FIRE PROTECTION DRAWINGS.
3 PROVIDE ADDRESSABLE RELAY IN AV RACK TO CONNECT AUDIO DSP TO MUTE AUDIO DURING FIRE ALARM. PROVIDE ALL PROGRAMMING REQUIRED.





1 **ELECTRICAL FIRE ALARM FIRST FLOOR PLAN - UNIT R**
1/8" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

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PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

DAVID L. JONES III
REGISTERED
NO. PE12100175
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
1	01/30/2026	Addendum #01

100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: AMN

ELECTRICAL FIRE ALARM FIRST FLOOR PLAN - UNIT R

EF102

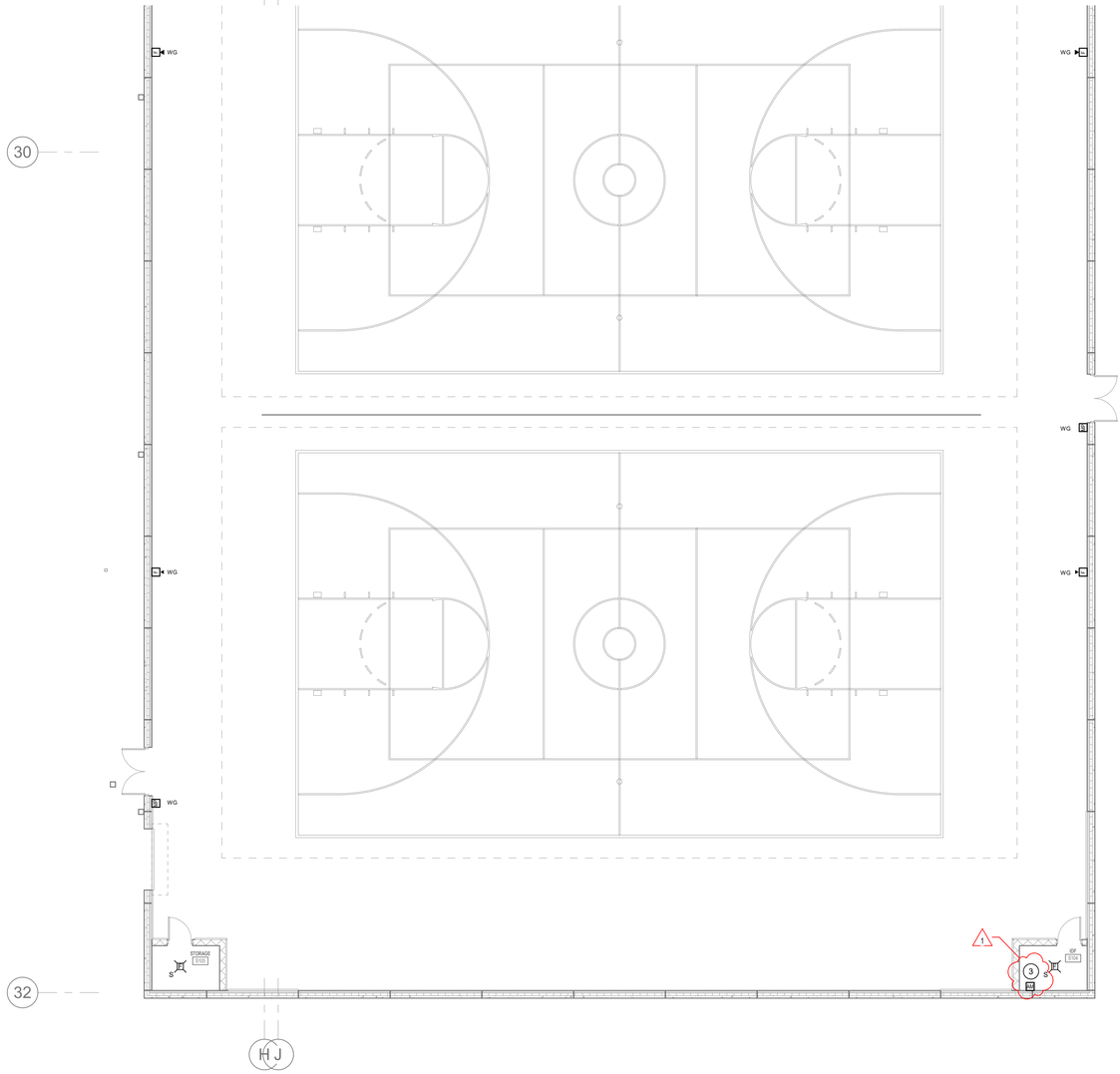
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GENERAL FIRE ALARM NOTES

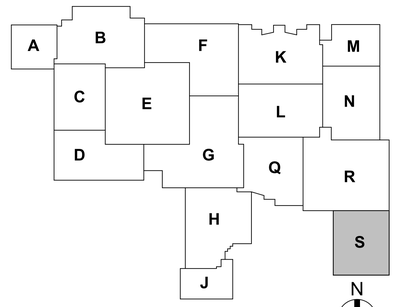
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1 ELECTRICAL FIRE ALARM FIRST FLOOR PLAN - UNIT S
1/8" = 1'-0"



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DAVID L. JONES II REGISTERED NO. PE12100175 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:

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1	01/30/2026	Addendum #01

100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: AMN

ELECTRICAL FIRE ALARM FIRST FLOOR PLAN - UNIT S

EF103

PLOT DATE/TIME: 1/30/2026 11:32:52 AM

ENCLOSED SWITCHES & CIRCUIT BREAKERS SCHEDULE

LABEL	EQUIPMENT SERVED	EQUIPMENT RATINGS						ACCESSORIES		REMARKS
		VOLTAGE	POLES	AMPERAGE	FUSED	FUSE SIZE	NEMA ENCL	AUX. CONTACTS	SOLID NEUTRAL	
DISC-1HDS1	1HDS1	600 V	3	1600 A	Yes	1600	3R	(1) N.O. / N.C.	No	SERVICE RATED.
DISC-CU-1	CU-1/SS-1	240 V	2	60 A	Yes	35	3R	(1) N.O. / N.C.	No	
DISC-PSB	PSB	600 V	3	1200 A	Yes	1200	3R	(1) N.O. / N.C.	No	SERVICE RATED.

1

ENCLOSED & VARIABLE-FREQUENCY MOTOR CONTROLLERS SCHEDULE

LABEL	EQUIPMENT SERVED	EQUIPMENT RATINGS					STARTER		DISCONNECT SWITCH		REMOTE CAPACITOR	REMARKS
		VOLTAGE	PHASE	HP	FLA	NEMA ENCL	TYPE	NEMA SIZE	TYPE	FUSE SIZE		
MS-EF-Q1	EF-Q1	208 V	2	1	8.3 A	1	FVNR	1	FUSIBLE	8	-	
MS-EF-Q2	EF-Q2	120 V	1	1/3	7.2 A	-	-	-	-	-	-	HORSE POWER RATED TOGGLE WITH MOTOR OVERLOADS.
MS-EF-R1	EF-R1	120 V	1	1/2	9.8 A	-	-	-	-	-	-	HORSE POWER RATED TOGGLE WITH MOTOR OVERLOADS.
MS-EF-R2	EF-R2	120 V	1	1/6	4.4 A	-	-	-	-	-	-	HORSE POWER RATED TOGGLE WITH MOTOR OVERLOADS.
MS-EF-S1	EF-S1	120 V	1	1/4	5.8 A	-	-	-	-	-	-	HORSE POWER RATED TOGGLE WITH MOTOR OVERLOADS.
MS-HWCP-1	HWCP-1	120 V	1	1/6	4.4 A	-	-	-	-	-	-	HORSE POWER RATED TOGGLE WITH MOTOR OVERLOADS.
MS-HWCP-2	HWCP-2	120 V	1	1/6	4.4 A	-	-	-	-	-	-	HORSE POWER RATED TOGGLE WITH MOTOR OVERLOADS.
MS-SEP-1	SEP-1	208 V	3	2	7.8 A	1	FVNR	1	FUSIBLE	10	-	

LIGHTING CONTACTORS SCHEDULE

LABEL	EQUIPMENT RATINGS					COIL CIRCUIT			CONTROL	CIRCUIT(S) CONTROLLED	REMARKS
	VOLTAGE	AMPERAGE	POLES	NEMA ENCL	ACCESSORIES	VOLTAGE	PANEL	CIRCUIT			
LC-1	600 V	30 A	4	NEMA 1	H-O-A PILOT LIGHT	120 V	1LNR1	8	PHOTOCELL LOCATED ON ROOF	1HNQ1-22 1HNQ1-24,26	

GENERAL LIGHT FIXTURE SCHEDULE NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

B PROVIDE VIBRATION DAMPERS FOR ALL ALUMINUM AND STEEL POLES 10'-0" AND ABOVE.

C PROVIDE SELF-DIAGNOSTICS AND SELF-TESTING FOR ALL LIFE SAFETY FIXTURES (EXIT FIXTURES, WALL PACKS, INVERTERS BALLASTS, ETC.)

D PROVIDE 0-10V ELECTRONIC DIMMIING DRIVER DOWN TO 10% UNLESS OTHERWISE NOTED.

E PROVIDE A MINIMUM OF ONE CLIP PER SIDE UP TO 4' AND CABLE SUPPORTS FOR EACH LIGHT FIXTURE.

F REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE.

G SUBMIT LIGHTING PER APPROPERIATE SPECIFICATION SECTION.

INTERIOR/EXTERIOR/EMERGENCY & EXIT LIGHT FIXTURES SCHEDULE

LABEL	DESCRIPTION	VOLTAGE	SOURCE				MOUNTING	LENS/REFLECTOR	CERTIFICATIONS	ACCEPTABLE MANUFACTURERS	LABEL
			TYPE	LUMENS	WATTS	CCT					
EM1	LED EMERGENCY WALL LIGHT. DIE-CAST ALUMINUM HOUSING. NORMALLY OFF WITH INTEGRAL BATTERY. PROVIDE BATTERY HEATER FOR -22 DEGREE F OPERATION. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	635 LM	11 W	4000 K	WALL MOUNTED	WIDE THROW	DLC	LITHONIA AFF DUALLITE PG EVENLITE WEATHERLITE LSL LSDBEL	EM1
L1	16" DIAMETER LED HIGHBAY. WHITE POLYESTER POWDER COAT FINISH. ROUND, DECORATIVE SHIELD. WIDE DISTRIBUTION. 0-10V DIMMING.	120/277 V	LED	36,000 LM	340 W	4000 K	SUSPENDED	HIGH IMPACT POLYCARBONATE LENS	DLC	METALUX SSLED HOLOPHANE PHS HUBBELL PHB JADEMAR JPHBS	L1
L1E	16" DIAMETER LED HIGHBAY. WHITE POLYESTER POWDER COAT FINISH. ROUND, DECORATIVE SHIELD. WIDE DISTRIBUTION. 0-10V DIMMING. PROVIDE WITH EMERGENCY BATTERY INVERTER.	120/277 V	LED	36,000 LM	340 W	4000 K	SUSPENDED	HIGH IMPACT POLYCARBONATE LENS	DLC	METALUX SSLED HOLOPHANE PHS HUBBELL PHB JADEMAR JPHBS	L1E
L2	2X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	5,000 LM	40 W	4000 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA EPANL 24 WILLIAMS BP	L2
L2E	2X4 LED FLAT PANEL. 0-10V DIMMING. PROVIDE WITH EMERGENCY BATTERY INVERTER.	120/277 V	LED	5,000 LM	40 W	4000 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA EPANL 24 WILLIAMS BP	L2E
L3	6" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. U.L. LISTED WET LOCATION. 0-10V DIMMING.	120/277 V	LED	2,000 LM	22 W	4000 K	RECESSED	DIFFUSE IMPACT RESISTANT POLYCARBONATE LENS	DLC	PORTFOLIO LDSQ6B PRESCOLITE LTR-6SQD LITHONIA LDN6 SQUARE WILLIAMS 6DS	L3
L3E	6" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. U.L. LISTED WET LOCATION. 0-10V DIMMING. PROVIDE WITH EMERGENCY BATTERY INVERTER.	120/277 V	LED	2,000 LM	22 W	4000 K	RECESSED	DIFFUSE IMPACT RESISTANT POLYCARBONATE LENS	DLC	PORTFOLIO LDSQ6B PRESCOLITE LTR-6SQD LITHONIA LDN6 SQUARE WILLIAMS 6DS	L3E
L4	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	5,400 LM	45 W	4000 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED LENS	DLC	METALUX SNLED COLUMBIA MPS LITHONIA ZL1D WILLIAMS FS	L4
L4E	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH. PROVIDE WITH EMERGENCY BATTERY INVERTER.	120/277 V	LED	5,400 LM	45 W	4000 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED LENS	DLC	METALUX SNLED COLUMBIA MPS LITHONIA ZL1D WILLIAMS FS	L4E
L5	4"X4' EXTRUDED ALUMINUM LED PENDANT. 60/40 UP/DOWN LIGHT, 0-10V DIMMING.	120/277 V	LED	7,500 LM	71 W	4000 K	PENDANT	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LS ALW LIGHTPLANE PINNACLE EDGE WILLIAMS M4X	L5
L5E	4"X4' EXTRUDED ALUMINUM LED PENDANT. 60/40 UP/DOWN LIGHT, 0-10V DIMMING.	120/277 V	LED	7,500 LM	71 W	4000 K	PENDANT	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LS ALW LIGHTPLANE PINNACLE EDGE WILLIAMS M4X	L5E
L7	LED WALL LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	9,500 LM	85 W	4000 K	WALL MOUNTED	TYPE III DISTRIBUTION	N/A	RAB WP3LED LUMECON BLS-UTWP RAYON SWPK LITHONIA TWR2 XO WGH LED	L7
L8	ARCHITECTURAL FLOOD LIGHT. U.L. WET LOCATION LISTED. DARK BRONZE FINISH. WIDE FLOOD 6X6 OPTIC.	120/277 V	LED	3,000 LM	22 W	4000 K	SURACE	WIDE FLOOD	N/A	LITHONIA DSX1 FLOOD LUMECON BLS-FLD MCGRAW EDISON GFLD XO SLING FLOOD	L8
L9	ARCHITECTURAL LINEAR EXTERIOR WALL WASH. NOMINAL 48" LONG MOUNTED ON 14" ARMS. AIM AT SIGN WITH 15 DEGREE TILT. BLACK FINISH.	120/277 V	LED	3,000 LM	32 W	4000 K	SURFACE	ASYMMETRIC	ETL	INSIGHT ESX PAL ACC-WL66 SPI ECHO VELOCITY 3.5 LUMENPULSE LUMENFACADE PURE	L9
L10	6" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING.	120/277 V	LED	2,000 LM	22 W	4000 K	RECESSED	SEMI-SPECULAR CLEAR	DLC	PORTFOLIO LDSQ6B PRESCOLITE LTR-6SQD LITHONIA LDN6 SQUARE WILLIAMS 6DS	L10
L10E	6" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING. PROVIDE WITH EMERGENCY BATTERY INVERTER.	120/277 V	LED	2,000 LM	22 W	4000 K	RECESSED	SEMI-SPECULAR CLEAR	DLC	PORTFOLIO LDSQ6B PRESCOLITE LTR-6SQD LITHONIA LDN6 SQUARE WILLIAMS 6DS	L10E
L11	8" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING.	120/277 V	LED	8,000 LM	85 W	4000 K	RECESSED	SEMI-SPECULAR CLEAR	DLC	COOPER LIGHTING LITHONIA LIGHTING CURRENT LIGHTING WILLIAMS LIGHTING	L11
L11E	8" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING.	120/277 V	LED	8,000 LM	85 W	4000 K	RECESSED	SEMI-SPECULAR CLEAR	DLC	COOPER LIGHTING LITHONIA LIGHTING CURRENT LIGHTING WILLIAMS LIGHTING	L11E
L12	4"X6' EXTRUDED ALUMINUM LED. 0-10V DIMMING.	120/277 V	LED	3,000 LM	25 W	4000 K	RECESSED	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LS ALW LIGHTPLANE PINNACLE EDGE WILLIAMS M4X	L12
L13	4"X8' EXTRUDED ALUMINUM LED. 0-10V DIMMING.	120/277 V	LED	4,000 LM	35 W	4000 K	RECESSED	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LS ALW LIGHTPLANE PINNACLE EDGE WILLIAMS M4X	L13
L13E	4"X8' EXTRUDED ALUMINUM LED. 0-10V DIMMING. PROVIDE WITH EMERGENCY BATTERY INVERTER.	120/277 V	LED	4,000 LM	35 W	4000 K	RECESSED	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LS ALW LIGHTPLANE PINNACLE EDGE WILLIAMS M4X	L13E
L14	4"X4' EXTRUDED ALUMINUM LED. 0-10V DIMMING.	120/277 V	LED	2,000 LM	15 W	4000 K	RECESSED	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LS ALW LIGHTPLANE PINNACLE EDGE WILLIAMS M4X	L14
L15	4"X12' EXTRUDED ALUMINUM LED. 0-10V DIMMING. PROVIDE HORIZONTAL TO VERTICAL CORNER FOR INSTANCES NOTED ON PLANS.	120/277 V	LED	6,000 LM	53 W	4000 K	RECESSED	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LS ALW LIGHTPLANE PINNACLE EDGE WILLIAMS M4X	L15
L15E	4"X12' EXTRUDED ALUMINUM LED. 0-10V DIMMING. PROVIDE WITH EMERGENCY BATTERY INVERTER.	120/277 V	LED	6,000 LM	53 W	4000 K	RECESSED	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LS ALW LIGHTPLANE PINNACLE EDGE WILLIAMS M4X	L15E
SL1	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. 480V SINGLE PHASE. WHITE FINISH. SQUARE, STRAIGHT, ALUMINUM POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (1) HEAD.	480 V	LED	45,000 LM	450 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	FORWARD THROW (DEFINED BY LITHONIA)	N/A	MCGRAW EDISON GLEON LED BEACON VPS LITHONIA DSX2 LED LUMECON LDS-LAL	SL1
X1	LED EXIT LIGHT, WHITE POLYCARBONATE HOUSING, SINGLE FACE. RED LETTERS. SELF-POWERED. NICKEL-CADMIUM BATTERY. SELF-DIAGNOSTIC/SELF-TESTING MODULE.	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	LITHONIA LQM LIFE SAFETY LSXS COMPASS CE SURE-LITES LPX	X1
X2	VANDAL PROOF LED EXIT LIGHT, DIE-CAST ALUMINUM HOUSING, WHITE FINISH, SINGLE FACE. STENCIL FACE, RED LETTERS. SELF-POWERED. NICKEL-CADMIUM BATTERY. SELF-DIAGNOSTIC/SELF-TESTING MODULE.	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	VANDAL-RESISTANT POLYCARBONATE SHIELD WITH TAMPERPROOF SCREWS	N/A	SURE-LITES UX DUAL-LITE SEWL LITHONIA LV LSL LSINDWL	X2

1

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PROJECT: #24173S
DATE: 01-06-2026
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ELECTRICAL SCHEDULES

E-601

PLOT DATE/TIME: 1/30/2026 11:32:32 AM

PANELBOARD ABBREVIATIONS

FTL	FEED THROUGH LUGS
MCB	MAIN CIRCUIT BREAKER
MFS	MAIN FUSED SWITCH
MLO	MAIN LUGS ONLY
SFL	SUB-FEED LUGS
SPD	SURGE PROTECTION DEVICE

SWITCHBOARD/PANELBOARD NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

B VERIFY PANEL / LUG SIZE REQUIRED FOR FEEDERS INDICATED ON ONE-LINE DIAGRAM. MODIFY AS REQUIRED FOR LARGER FEEDERS.

C VERIFY CONDUIT ENTRY LOCATION ON EACH PANEL.

D CONFIRM FINAL ROOM NAMES AND NUMBERS WITH OWNER PRIOR TO CREATING FINAL PANELBOARD DIRECTORIES.

E MODIFY AIC RATINGS INDICATED ON SCHEDULES, AS REQUIRED, PER SPECIFICATION SECTION 260574.99.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1HNQ1 **VOLTS:** 480Y/277 V **MAINS RATING:** 200 A
LOCATION: VAULT Q001 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1HDS1 **AIC RATING:** 22 kA

O	CKT NO.	DESCRIPTION	TRIP	P	A		B		C		P	TRIP	DESCRIPTION	CKT NO.	O
	1	LIGHTING - AUDITORIUM LOBBY	20 A	1	2.77	0.54					1	20 A	LIGHTING - VAULT	2	
	3	LIGHTING - CORRIDORS	20 A	1			2.99	2.39			1	20 A	LIGHTING SAC #1	4	
	5	LIGHTING - LOCKER & REST ROOMS	20 A	1					2.97	2.38	1	20 A	LIGHTING SAC #3	6	
	7	LIGHTING SAC #2	20 A	1	2.38	2.38					1	20 A	LIGHTING SAC #5	8	
	9	LIGHTING SAC #4	20 A	1			2.38	2.44			1	20 A	LIGHTING SAC #7	10	
	11	LIGHTING SAC #6	20 A	1					2.41	2.38	1	20 A	LIGHTING SAC #9	12	
	13	LIGHTING SAC #8	20 A	1	2.38	2.38					1	20 A	LIGHTING SAC #11	14	
	15	LIGHTING SAC #10	20 A	1			2.38	1.49			1	20 A	LIGHTING - WRESTLING #1	16	
	17	LIGHTING SAC #12	20 A	1					2.44	2.77	1	20 A	LIGHTING - WRESTLING #2	18	
	19	LIGHTING - WEIGHT ROOM #1	20 A	1	2.57	1.44					1	20 A	LIGHTING - WRESTLING #3	20	
	21	LIGHTING - WEIGHT ROOM #2	20 A	1			2.71	2.07			1	20 A	LIGHTING - SAC EXTERIOR	22	
	23	LIGHTING - WEIGHT ROOM #3	20 A	1					1.10	1.80	2	20 A	LIGHTING - SITE POLES	24	
--	25	SPARE	20 A	1	0.00	1.80								26	
--	27	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	28	--
--	29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30	--
--	31	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	32	--
--	33	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	34	--
--	35	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	36	--
--	37	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	38	--
--	39	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	40	--
--	41	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	42	--
			TOTAL LOAD:		18.63 kVA		18.85 kVA		18.24 kVA						
			TOTAL AMPS:		67 A		68 A		66 A						

TOTAL CONNECTED LOAD: 56 kVA — 55.73 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 67 A — 67 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		LIGHTING	50558 VA	100.00%	50558 VA
C	CONTACTOR CONTROLLED	Lighting - Exterior	5122 VA	100.00%	5122 VA
G	GFCI PROTECTED	Other	44 VA	100.00%	44 VA
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1LNQ1 **VOLTS:** 208Y/120 V **MAINS RATING:** 200 A
LOCATION: VAULT Q001 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDP5 **AIC RATING:** 22 kA

O	CKT NO.	DESCRIPTION	TRIP	P	A		B		C		P	TRIP	DESCRIPTION	CKT NO.	O
	1	DOOR POWER SUPPLIES - VEST. Q107	20 A	1	0.30	0.90					1	20 A	RECEPTS - BOYS LR	2	
	3	EXHAUST FAN - EF-R2	20 A	1			0.53	0.86			1	20 A	EXHAUST FAN - EF-Q2	4	
	5	RECEPTS - WEST WRESTLING	20 A	1					0.72	1.00	1	20 A	WATER COOLER - WRESTLING Q124	6	G
	7	RECEPTS - GIRLS LR	20 A	1	0.90	1.50					2	20 A	CABINET UNIT HEATER - CUH-1	8	
	9	RECEPT - AUDITORIUM LOBBY #8	20 A	1			0.18	1.50						10	
	11	EXHAUST FAN - EF-R1	20 A	1					1.18	0.18	1	20 A	RECEPT - VESTIBULE Q107	12	
	13	RECEPT - AUDITORIUM LOBBY #7	20 A	1	0.18	0.18					1	20 A	RECEPT - AUDITORIUM LOBBY #2	14	
	15	RECEPT - AUDITORIUM LOBBY #3	20 A	1			0.18	0.18			1	20 A	MONITOR - AUDITORIUM LOBBY	16	
	17	RECEPT - AUDITORIUM LOBBY #4	20 A	1					0.18	0.18	1	20 A	RECEPT - AUDITORIUM LOBBY #1	18	
	19	A/V RACK - STORAGE Q123	20 A	1	0.18	0.36					1	20 A	RECEPTS - CORRIDOR Q102	20	
	21	EXHAUST FAN -EF-Q1	20 A	2			0.87	0.54			1	20 A	RECEPTS - NORTH WRESTLING	22	
	23								0.87	0.36	1	20 A	RECEPTS - SOUTH WRESTLING	24	
	25	MONITORS - AUDITORIUM LOBBY	20 A	1	0.36	0.54					1	20 A	RECEPTS - EAST WRESTLING	26	
	27	RECEPT - AUDITORIUM LOBBY #5	20 A	1			0.36	0.54			1	20 A	RECEPTS - EXTERIOR	28	
	29	RECEPT - AUDITORIUM LOBBY #6	20 A	1					0.36	0.54	1	20 A	RTU - LTS & RECEPTS	30	
	31				0.94	0.54					1	20 A	SCOREBOARDS - WRESTLING ROOM	32	
	33	SEWAGE EJECT. PUMP - SEP-1	20 A	3			0.94	0.00			1	20 A	SPARE	34	--
	35								0.94	0.00	1	20 A	SPARE	36	--
--	37	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	38	--
--	39	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	40	--
--	41	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	42	--
			TOTAL LOAD:		6.88 kVA		6.67 kVA		6.50 kVA						
			TOTAL AMPS:		58 A		56 A		54 A						

TOTAL CONNECTED LOAD: 20 kVA — 19.87 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 55 A — 55 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Mechanical - Motor	7110 VA	100.00%	7110 VA
C	CONTACTOR CONTROLLED	Power - Continuous	300 VA	100.00%	300 VA
G	GFCI PROTECTED	HVAC	3000 VA	100.00%	3000 VA
P	HANDLE LOCKING DEVICE	RECEPTACLE	9460 VA	100.00%	9460 VA
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1LNR1 **VOLTS:** 208Y/120 V **MAINS RATING:** 200 A
LOCATION: STORAGE R116 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDP5 **AIC RATING:** 22 kA

O	CKT NO.	DESCRIPTION	TRIP	P	A		B		C		P	TRIP	DESCRIPTION	CKT NO.	O
	1	EQUIP. RELAY #1 - SAC	20 A	1	1.66	0.00					1	20 A	ACCESS CONTROL PANEL - IDF	2	
	3	EQUIP. RELAY #2 - SAC	20 A	1			1.66	0.18			1	20 A	IDF CABINET #1 - R117	4	
	5	EQUIP. RELAY #3 - SAC	20 A	1					1.66	0.36	1	20 A	METAL DETECTORS - CORRIDOR R120	6	
	7	EQUIP. RELAY #4 - SAC	20 A	1	1.66	0.00					1	20 A	EXTERIOR LIGHTING CONTACTOR LC-1	8	
	9	EQUIP. RELAY #5 - SAC	20 A	1			1.24	0.54			1	20 A	RECEPTS - NORTH WEIGHT ROOM	10	
	11	EQUIP. RELAY #6 - SAC	20 A	1					1.66	0.70	1	20 A	EXHAUST FAN - EF-S1	12	
	13	A/V RACK - WEIGHT ROOM	20 A	1	0.18	0.54					1	20 A	RECEPTS - NORTH SAC	14	
	15	MONITOR - WEIGHT ROOM	20 A	1			0.18	1.50			2	20 A	CABINET UNIT HEATER - CUH-2	16	
	17	CIRC PUMP - HWCP-2	20 A	1					0.89	1.50				18	
	19	CIRC PUMP - HWCP-1	20 A	1	0.89	0.72					1	20 A	RECEPTS - RR & LAUNDRY	20	
	21	PUH-1 - RM R118	20 A	2			1.65	0.18			1	20 A	IDF CABINET #2 - R117	22	
	23								1.65	1.71	2	20 A	SPLIT SYSTEM - CU-R1/SS-R1	24	
	25	RTU - LTS & RECEPTS	20 A	1	0.90	1.71								26	
	27	RECEPTS - EXTERIOR SOUTH	20 A	1			0.36	0.40			1	20 A	FLOORBOX #1 - SAC	28	
	29	WATER SOFTENER & HEATER - R118	20 A	1					0.18	0.18	1	20 A	IDF CABINET #2 - S104	30	
	31	IDF CABINET #3 - R117	20 A	1	0.18	0.18					1	20 A	IDF CABINET #1 - S104	32	
	33	RECEPTS - SOUTH SAC	20 A	1			0.90	1.00			1	20 A	SCOREBOARDS - WEST SAC	34	
	35	RECEPTS - SOUTH WEIGHT ROOM	20 A	1					0.36	0.40	1	20 A	FLOORBOX #2 - SAC	36	
	37	RECEPTS - EXTERIOR NORTH	20 A	1	0.36	0.40					1	20 A	DOOR POWER SUPPLIES - VEST. R122	38	
	39	RECEPTS - EAST WEIGHT ROOM	20 A	1			1.44	0.36			1	20 A	MONITORS - CORRIDOR R120	40	
	41	RECEPTS - WEST WEIGHT ROOM	20 A	1					0.72	1.00	1	20 A	WATER COOLER - CORRIDOR R120	42	G
	43	RECEPT - COUNTERTOP #1 LAUNDRY	20 A	1	0.18	1.00					1	20 A	SCOREBOARDS - EAST SAC	44	
	45	RECEPTS - CORRIDOR Q102	20 A	1			0.72	1.44			1	20 A	RECEPTS - WEST SAC	46	
	47	RECEPT - LAUNDRY	20 A	1					0.18	0.00	1	20 A	SPARE	48	--
	49	RECEPTS - EAST SAC	20 A	1	1.44	0.18					1	20 A	RECEPT - COUNTERTOP #1 LAUNDRY	50	
--	51	SPARE	20 A	1			0.00	1.23						52	
	53	DRYER - R108	20 A	2	1.13	1.23			1.13	1.23	3	20 A	WASHER - R108	54	
	55													56	
--	57	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	58	--
--	59	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	60	--
			TOTAL LOAD:		14.53 kVA		14.98 kVA		15.50 kVA						
			TOTAL AMPS:		121 A		125 A		130 A						

TOTAL CONNECTED LOAD: 45 kVA — 37.40 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 125 A — 104 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Mechanical - Motor	11845 VA	100.00%	11845 VA
C	CONTACTOR CONTROLLED	Power - Continuous	400 VA	100.00%	400 VA
G	GFCI PROTECTED	HVAC	6300 VA	100.00%	6300 VA
P	HANDLE LOCKING DEVICE	Motor	9522 VA	56.52%	5382 VA
S	SHUNT TRIP	RECEPTACLE	16940 VA	79.52%	13470 VA
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI	LE	0 VA	0.00%	0 VA
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

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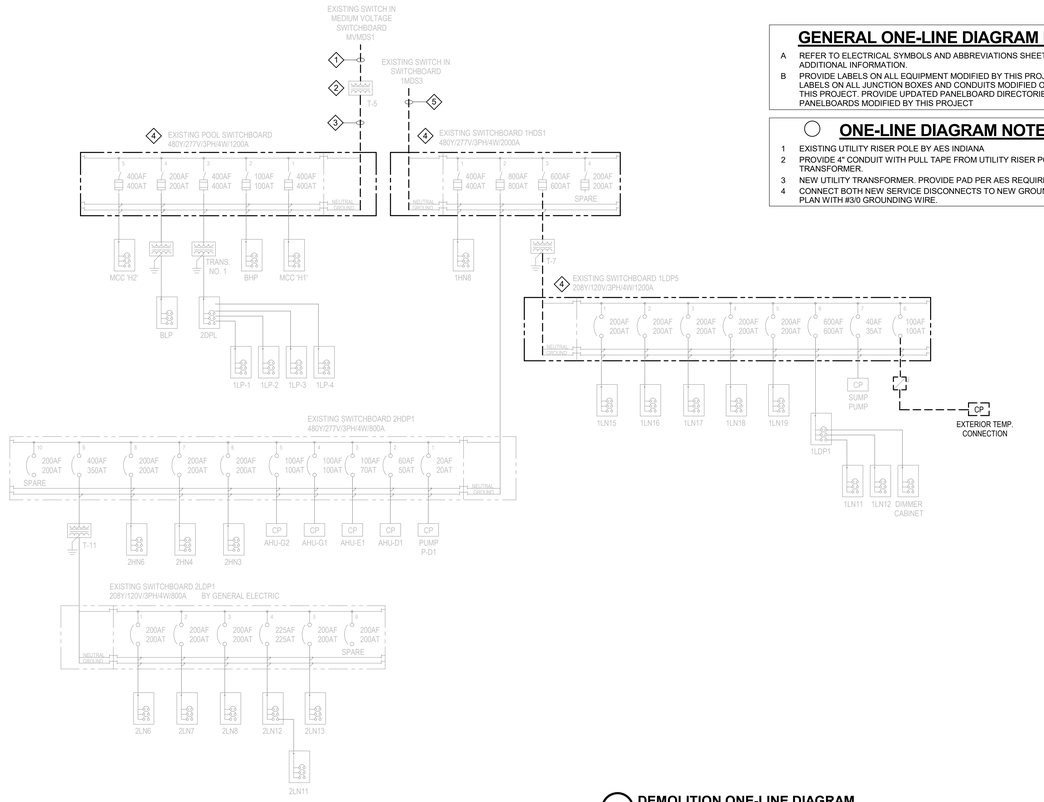
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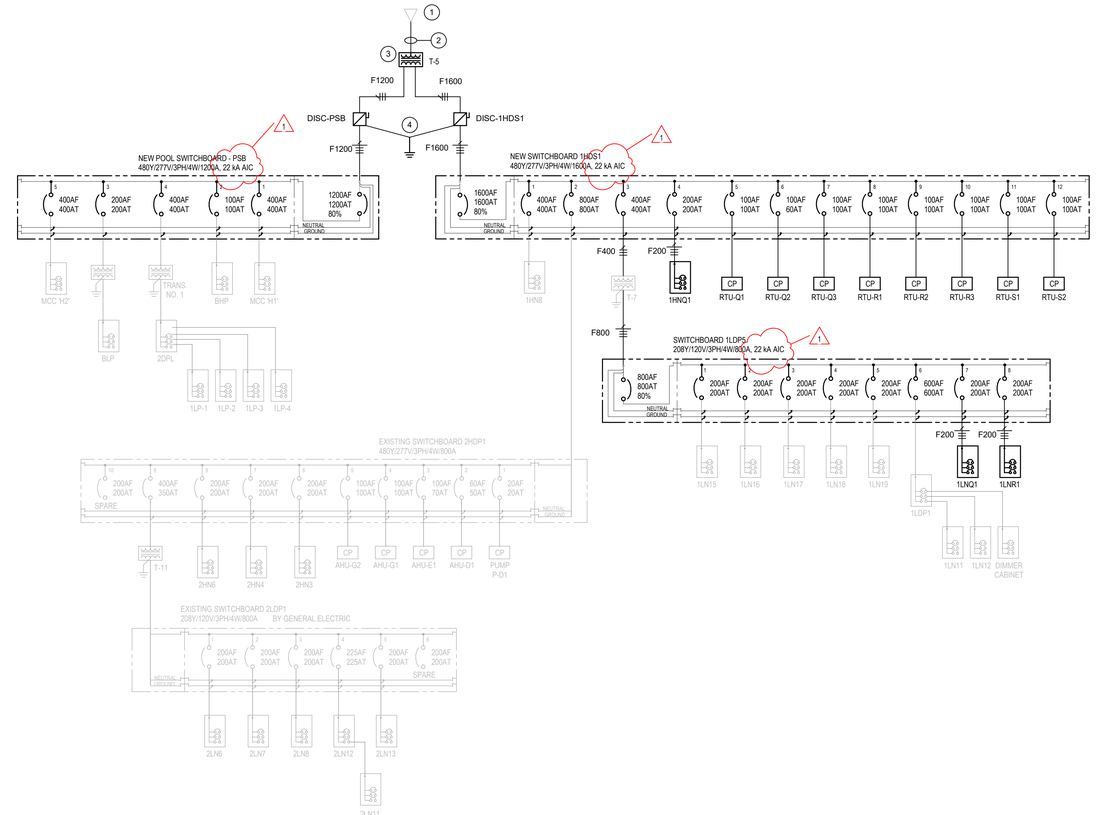
ELECTRICAL PANELBOARD SCHEDULES

E-602

PLOT DATE/TIME: 1/30/2026 11:12:55 AM



1 DEMOLITION ONE-LINE DIAGRAM
NOT TO SCALE



2 ONE-LINE DIAGRAM
NOT TO SCALE

GENERAL ONE-LINE DIAGRAM NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

B PROVIDE LABELS ON ALL EQUIPMENT MODIFIED BY THIS PROJECT. PROVIDE LABELS ON ALL JUNCTION BOXES AND CONDUITS MODIFIED OR PROVIDED BY THIS PROJECT. PROVIDE UPDATED PANELBOARD DIRECTORIES ON ALL PANELBOARDS MODIFIED BY THIS PROJECT

ONE-LINE DIAGRAM NOTES

1. EXISTING UTILITY RISER POLE BY AES INDIANA
2. PROVIDE 4" CONDUIT WITH PULL TAPE FROM UTILITY RISER POLE TO NEW UTILITY TRANSFORMER.
3. NEW UTILITY TRANSFORMER. PROVIDE PAD PER AES REQUIREMENTS.
4. CONNECT BOTH NEW SERVICE DISCONNECTS TO NEW GROUND RING PER SITE PLAN WITH #3/0 GROUNDING WIRE.

GENERAL DEMOLITION ONE-LINE DIAGRAM NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

DEMOLITION ONE-LINE DIAGRAM NOTES

1. REMOVE EXISTING UTILITY PRIMARY.
2. EXISTING UTILITY TRANSFORMER TO BE REMOVED. COORDINATE REQUIREMENTS WITH AES INDIANA.
3. REMOVE SECONDARY CONDUCTORS AND CONDUIT COMPLETELY.
4. REMOVE EXISTING SWITCHBOARD.
5. REMOVE FEEDER CONDUCTORS AND CONDUIT COMPLETELY.

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ELECTRICAL ONE-LINE DIAGRAMS

E-701

PLOT DATE/TIME: 1/30/2026 11:12:56 AM

GENERAL MECHANICAL NOTES

A DARK LINES INDICATE NEW WORK.
B LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING.
C INSTALL ALL FABRIC DUCT AS SYMMETRICAL AND EQUAL LENGTH AS POSSIBLE. COORDINATE FABRIC DUCT INSTALLATION WITH ALL OTHER TRADES INCLUDING STRUCTURAL AND ELECTRICAL.

MECHANICAL HVAC PLAN NOTES

1 ROUTE DUCT UP THROUGH ROOF. TRANSITION DUCT AS REQUIRED TO RTU ON ROOF. REFER TO DRAWING MR101 FOR CONTINUATION.
2 ROUTE DUCT UP THROUGH ROOF. TRANSITION DUCT AS REQUIRED TO EF ON ROOF. REFER TO DRAWING MR101 FOR CONTINUATION.
3 ROUTE DUCT UP THROUGH ROOF. TRANSITION DUCT AS REQUIRED TO GRAVITY VENT ON ROOF. REFER TO DRAWING MR101 FOR CONTINUATION.
4 MOUNT EF-S1 6" BELOW CEILING.
5 SPIRAL DUCT GALVANIZED DOUBLE WALL PAINTABLE DUCT. FINAL COLOR BY ARCHITECT.
6 ROUTE DUCT UP THROUGH ROOF. SEE DETAIL 5/M-501.
7 10" EA DOWN TO VAULT. REFER TO MH100 FOR CONTINUATION.
8 PROVIDE DIFFERENTIAL STATIC PRESSURE TRANSMITTER FOR SPACE PRESSURE CONTROL OF AUDITORIUM LOBBY. CONNECT CONTROLS WIRING TO EXISTING TEMPERATURE CONTROL PANEL AND CONTROLLER. FIELD VERIFY LOCATION. HIGH PRESSURE SENSING ELEMENT SHALL BE IN CEILING OF AUDITORIUM LOBBY. THE LOW PRESSURE SENSING ELEMENT SHALL BE ON THE ROOF OF THE NEW BUILDING ADDITION.
9 PROVIDE CONTROL DAMPER AND ACTUATOR FOR SPACE PRESSURE CONTROL FOR AUDITORIUM LOBBY.
10 PROVIDE AUTOMATIC CONTROL DAMPER FOR OUTSIDE AIR DUCT AND RETURN AIR DUCT.

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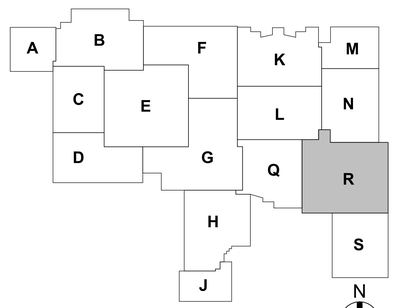
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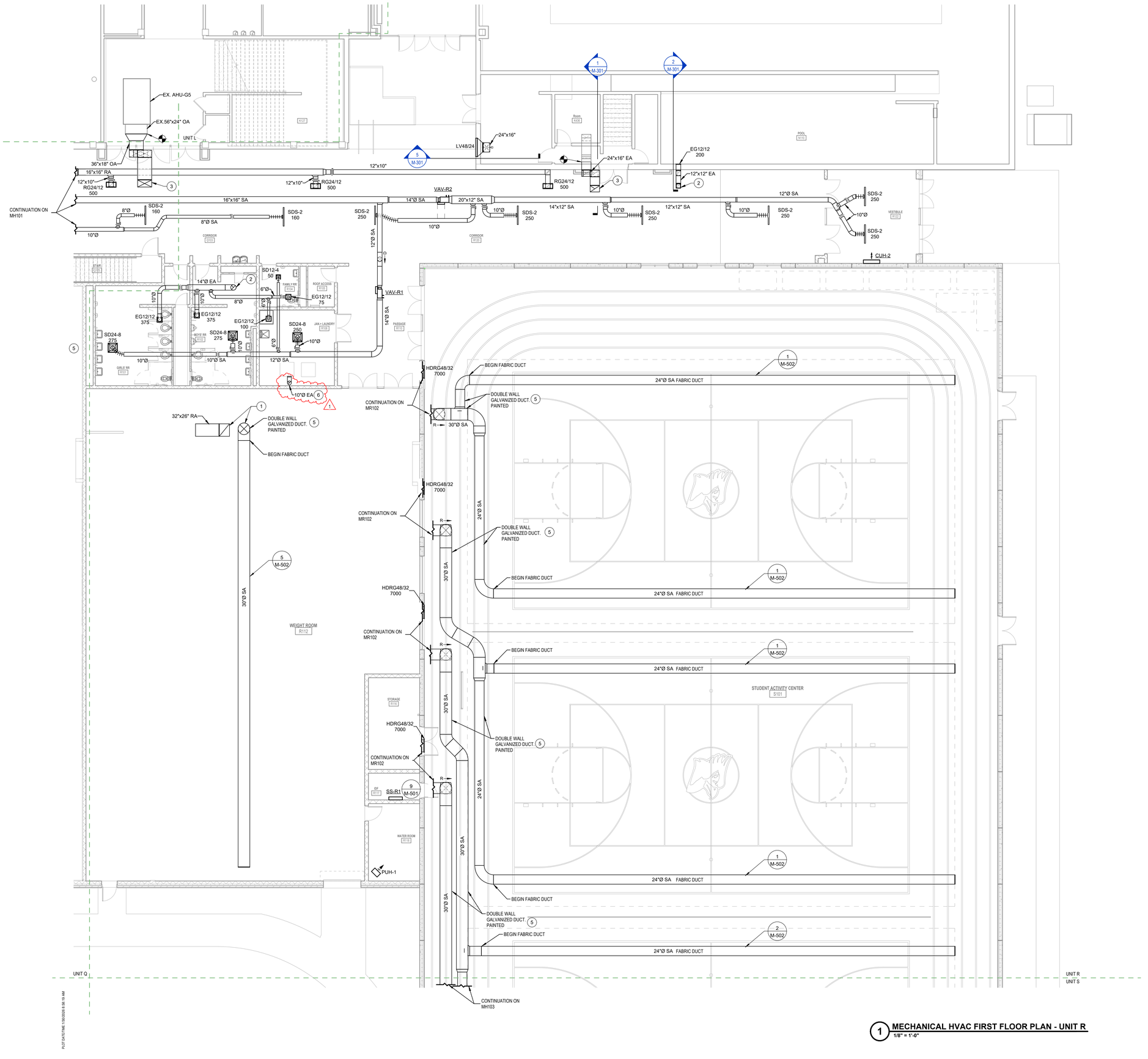
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DATE: 01-06-2026
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MECHANICAL HVAC FIRST FLOOR PLAN - UNIT R

MH102



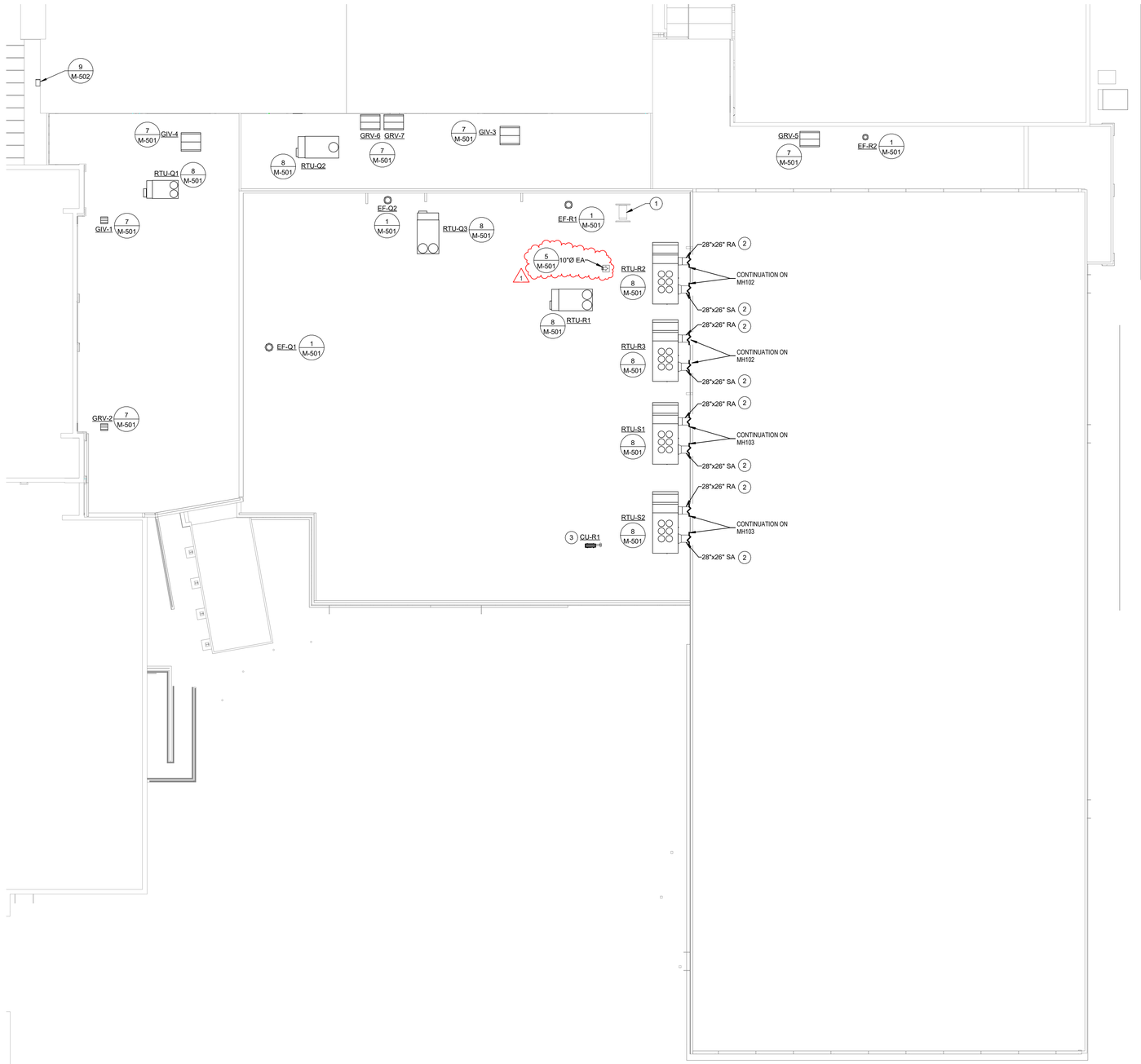


1 MECHANICAL HVAC FIRST FLOOR PLAN - UNIT R
1/8" = 1'-0"

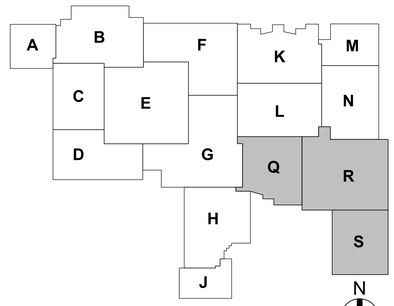
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MECHANICAL ROOF PLAN NOTES

1. ROOF ACCESS LOCATION. SEE ARCHITECTURAL PLANS FOR DETAILS.
2. PROVIDE 2" RIGID INSULATION AND STUCCO EMBOSSED ALUMINUM JACKET ON ALL EXTERIOR SUPPLY AND RETURN AIR DUCTS. SEAL ALL JACKETING WEATHER TIGHT.
3. INSTALL CONDENSING UNIT ON EQUIPMENT RAILS. ROUTE REFRIGERANT PIPES DOWN PIPE CURB SEE DETAIL 8/M-502.



1 **MECHANICAL ROOF PLAN - UNIT Q, R, S**
1/16" = 1'-0"



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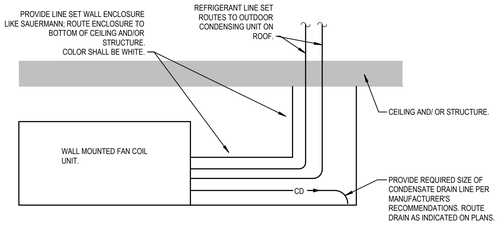
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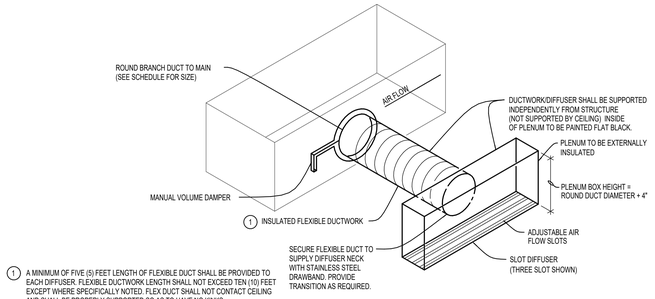
MECHANICAL ROOF PLAN - UNIT Q, R, S

MR101

PLOT DATE/TIME: 1/30/2026 8:55:22 AM

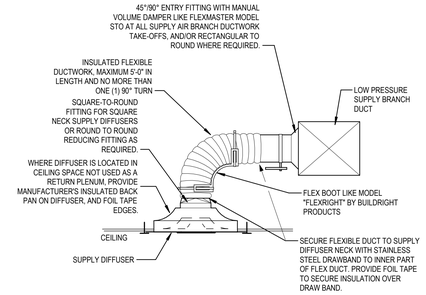


9 SPLIT SYSTEM WALL MOUNTED FAN COIL UNIT PIPING DIAGRAM
NOT TO SCALE

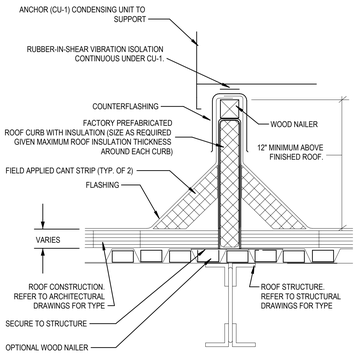


1 A MINIMUM OF FIVE (5) FEET LENGTH OF FLEXIBLE DUCT SHALL BE PROVIDED TO EACH DIFFUSER. FLEXIBLE DUCTWORK LENGTH SHALL NOT EXCEED TEN (10) FEET EXCEPT WHERE SPECIFICALLY NOTED. FLEX DUCT SHALL NOT CONTACT CEILING AND SHALL BE PROPERLY SUPPORTED SO AS TO HAVE NO KINKS.

6 SLOT DIFFUSER DETAIL
NOT TO SCALE



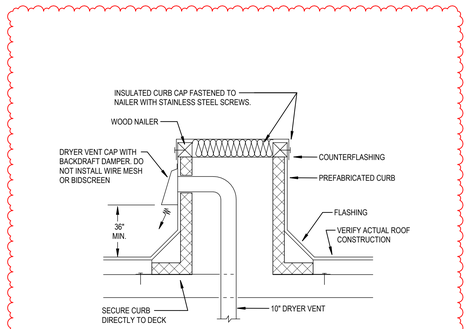
3 SUPPLY DIFFUSER FLEXIBLE DUCT CONNECTION DETAIL
NOT TO SCALE



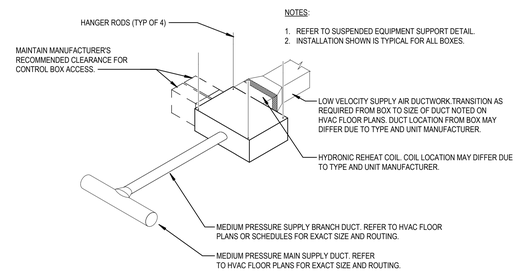
NOTES:

1. EQUIPMENT SUPPORTS SHALL BE PROVIDED WITH PROPERLY DESIGNED FABRICATED LEVELING DEVICES SO EQUIPMENT IS LEVEL AND THE ROOF CURB IS INSTALLED TO MATCH ROOF SLOPE.
2. PROVIDE PERIMETER ANGLE SUPPORT AT ALL SIDES BETWEEN STRUCTURAL STEEL SIZE OF ANGLE BASED ON LOAD OF EQUIPMENT. MINIMUM SIZE SHALL BE 3" X 3" X1/4".
3. ROOF CURBS SHALL NOT BE SUPPORTED FROM THE ROOF INSULATION.
4. COORDINATE LOCATION OF ROOF CURB AND ROOF OPENING WITH STRUCTURE.
5. ROOFING INSULATION SHALL BE CONTINUOUS UNDER THE ROOFTOP EQUIPMENT.

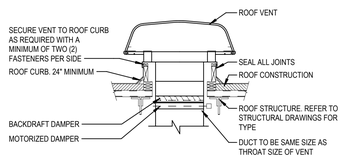
8 CONDENSING UNIT ROOF SUPPORT DETAIL
NOT TO SCALE



5 DRYER VENT DETAIL
NOT TO SCALE

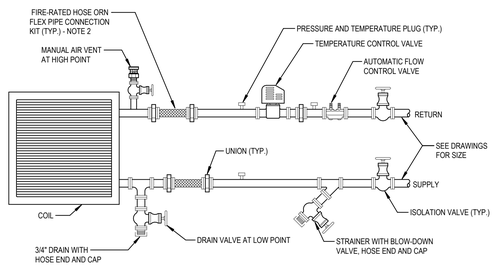


2 VAV TERMINAL BOX INSTALLATION DETAIL
NOT TO SCALE



NOTE:
ALL INTAKE / RELIEF VENTS SHALL BE MOUNTED LEVEL. PROVIDE SLOPED CURBS AND SHIMS AS REQUIRED FOR SLOPED ROOFS. REFER TO ARCHITECTURAL DRAWINGS FOR PITCH OF ROOF.

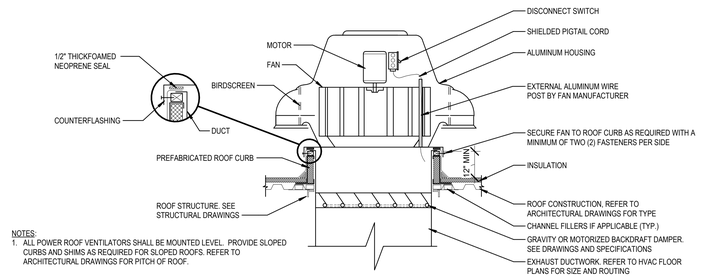
7 ROOF VENT INSTALLATION DETAIL
NOT TO SCALE



NOTES:

1. PIPE COILS TO ALLOW COIL PULL BY REMOVING UNIONS ADJACENT TO COIL.
2. FIRE-RATED HOSE OR FLEX PIPE CONNECTIONS SHALL APPLY ONLY TO EQUIPMENT WITH EXTERNAL VIBRATION ISOLATION DEVICES.
3. THIS DETAIL APPLIES TO ALL EQUIPMENT COIL CONNECTIONS, EXCEPT AIR HANDLING UNITS, INCLUDING FAN COIL UNITS, TERMINAL UNITS, ETC. THAT ARE DESIGNATED FOR TWO-WAY CONTROL.
4. REFER TO "AIR HANDLING UNIT COIL PIPING DETAIL" AND "AIR HANDLING UNIT MULTIPLE COIL PIPING DETAIL" FOR AIR HANDLING PIPING.
5. REFER TO SPECIFICATIONS FOR OPTIONS INVOLVING ACCESSORY COMBINATION.

4 TWO WAY COIL PIPING DETAIL
NOT TO SCALE



NOTES:
1. ALL POWER ROOF VENTILATORS SHALL BE MOUNTED LEVEL. PROVIDE SLOPED CURBS AND SHIMS AS REQUIRED FOR SLOPED ROOFS. REFER TO ARCHITECTURAL DRAWINGS FOR PITCH OF ROOF.

1 POWER ROOF VENTILATOR INSTALLATION DETAIL
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971 EAST BANTA ROAD, INDIANAPOLIS, IN 46627

GABRIEL S. CURRIER REGISTERED No. PE10808972 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:

#	Date	Desc.
1	01/30/2026	Addendum #01

100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: MP / JR

MECHANICAL DETAILS

M-501

PLOT DATE/TIME: 1/30/2026 8:36:23 AM

PACKAGED ROOFTOP UNIT SCHEDULE

IDENTITY DATA						DIMENSIONS			SUPPLY FAN DATA						EXHAUST FAN DATA					
												MOTOR						MOTOR		
MARK	MANUFACTURER	MODEL	LOCATION	AREA SERVED	WEIGHT (LBS)	L	W	H	AIRFLOW (CFM)	ESP/TSP (IN-WG)	RPM	QTY	HP EA.	BHP EA.	AIRFLOW (CFM)	ESP/TSP (IN-WG)	RPM	QTY	HP EA.	BHP EA.
RTU-Q1	GREENHECK	RT-120-25L-M-G0	ROOF	LOBBY	3,274	165"	85.4"	81.7"	5,500	2.00	1,800	2	3.0	2.58	5,500.0	1.0	1,456	1.0	5.0	3.0
RTU-Q2	GREENHECK	RT-120-20L-I-G0	ROOF	CORRIDOR	3,066	165.5"	83.4"	81.7"	4,500	2.00	1,557	2	1.5	1.47	4,500.0	0.5	1,233	1.0	3.0	0.7
RTU-Q3	GREENHECK	RT-120-25L-M-G0	ROOF	WRESTLING ROOM	3,274	165"	85.4"	81.7"	5,500	2.00	1,800	2	3.0	2.58	5,500.0	1.0	1,456	1.0	5.0	3.0
RTU-R1	GREENHECK	RT-120-25L-M-G0	ROOF	WEIGHT ROOM	3,274	165.5"	83.4"	81.7	6,500	2.00	1,892	2	3.0	2.74	6,500.0	0.5	1,329	1.0	5.0	2.3
RTU-R2	GREENHECK	RV-150-30I-O-J2	ROOF	ACTIVITY CENTER	6,457	236.5"	98"	101.3"	7,000	2.00	1,164	2	2.0	1.53	7,000.0	0.5	1,334	2.0	1.0	0.8
RTU-R3	GREENHECK	RV-150-30I-O-J2	ROOF	ACTIVITY CENTER	6,457	236.5"	98"	101.3"	7,000	2.00	1,164	2	2.0	1.53	7,000.0	0.5	1,334	2.0	1.0	0.8
RTU-S1	GREENHECK	RV-150-30I-O-J2	ROOF	ACTIVITY CENTER	6,457	236.5"	98"	101.3"	7,000	2.00	1,164	2	2.0	1.53	7,000.0	0.5	1,334	2.0	1.0	0.8
RTU-S2	GREENHECK	RV-150-30I-O-J2	ROOF	ACTIVITY CENTER	6,457	236.5"	98"	101.3"	7,000	2.00	1,164	2	2.0	1.53	7,000.0	0.5	1,334	2.0	1.0	0.8

PACKAGED ROOF TOP UNIT SCHEDULE NOTES:

1. OVERLOAD PROTECTED DISCONNECT BY MANUFACTURER. SINGLE POINT POWER. HIGH-FAULT 65 KA SCCR.
2. PROVIDE MINIMUM 18" ROOF CURB.
3. PROVIDE NON-POWERED, 20A, 120V, GFCI RECEPTACLE.

PACKAGED ROOFTOP UNIT SCHEDULE (CONTINUED)

	DX COOLING DATA											GAS-FIRED HEATING DATA					HOT GAS REHEAT				ELECTRICAL DATA			
									COMPRESSOR INFO						FURNACE INFO								
MARK	TOTAL (BTUH)	SENSIBLE (BTUH)	EAT (°F) DB/WB	LAT (°F) DB/WB	FACE VEL. (FPM)	APD (IN-WG)	ROWS	FPI	TYPE	QUANTITY	EER	INPUT (BTUH)	OUTPUT (BTUH)	EAT/LAT (°F)	TYPE	CONTROL	CAPACITY (BTUH)	LAT (°F)	MIN OA (CFM)	UNIT CONTROLS	VOLT/PH/HZ	MCA (A)	MOCP (A)	NOTES
RTU-Q1	318,200	170,200	83.8/71.7	53.2/53.1	196	0.15	4	16	DIGITAL SCROLL	2	10.7	400,000	324,000	46.7/101.0	INDIRECT	10:1 MODULATING	159,100	81.2	1,500	PACKAGED	460/3/60	72.5	100	1-3
RTU-Q2	262,900	136,400	85.7/73.5	55.6/55.5	160	0.11	4	16	DIGITAL SCROLL	2	11.2	250,000	202,500	42.0/83.4	INDIRECT	10:1 MODULATING	146,900	87.3	1,500	PACKAGED	460/3/60	51.7	60	1-3
RTU-Q3	318,200	170,200	83.8/71.7	53.2/53.1	196	0.15	4	16	DIGITAL SCROLL	2	10.7	600,000	486,000	25.5/106.9	INDIRECT	10:1 MODULATING	159,100	81.2	3,000	PACKAGED	460/3/60	72.5	100	1-3
RTU-R1	324,800	184,400	82.7/70.6	54.7/54.6	231	0.21	4	16	DIGITAL SCROLL	2	10.7	600,000	486,000	30.8/99.7	INDIRECT	10:1 MODULATING	177,100	81.0	3,100	PACKAGED	460/3/60	72.5	100	1-3
RTU-R2	374,100	204,700	83.7/71.7	54.8/54.7	208	0.13	4	12	DIGITAL SCROLL	2	9.8	600,000	486,000	32.6/96.9	INDIRECT	16:1 MODULATING	224,000	85.7	3,800	PACKAGED	460/3/60	77.0	100	1-3
RTU-R3	374,100	204,700	83.7/71.7	54.8/54.7	208	0.13	4	12	DIGITAL SCROLL	2	9.8	600,000	486,000	32.6/96.9	INDIRECT	16:1 MODULATING	224,000	85.7	3,800	PACKAGED	460/3/60	77.0	100	1-3
RTU-S1	374,100	204,700	83.7/71.7	54.8/54.7	208	0.13	4	12	DIGITAL SCROLL	2	9.8	600,000	486,000	32.6/96.9	INDIRECT	16:1 MODULATING	224,000	85.7	3,800	PACKAGED	460/3/60	77.0	100	1-3
RTU-S2	374,100	204,700	83.7/71.7	54.8/54.7	208	0.13	4	12	DIGITAL SCROLL	2	9.8	600,000	486,000	32.6/96.9	INDIRECT	16:1 MODULATING	224,000	85.7	3,800	PACKAGED	460/3/60	77.0	100	1-3

EXHAUST FAN SCHEDULE - 23 34 23

IDENTITY DATA					FAN DATA						SOUND CRITERIA			ELECTRICAL DATA	
MARK	MANUFACTURER	MODEL	SERVICES	WEIGHT (LBS)	FAN TYPE	DRIVE TYPE	AIRFLOW (CFM)	ESP (IN-WG)	RPM	HP/BHP	SONES	DBA	UNIT CONTROL	VOLT/PH/HZ	NOTES
EF-Q1	GREENHECK	G-140-VG	RESTROOM	88	CENTRIFUGAL	DIRECT	1800	0.75	1317	1.0/0.47	11.4	61	BAS / MOTOR STARTER	208/1/60	1-3
EF-Q2	GREENHECK	G-095-VG	VAULT	43	CENTRIFUGAL	DIRECT	300	0.50	1348	0.2/0.06	7.2	53	BAS / MOTOR STARTER	115/1/60	1-3
EF-R1	GREENHECK	G-140-VG	RESTROOM	73	CENTRIFUGAL	DIRECT	925	0.75	1110	0.5/0.23	7.7	55	BAS / MOTOR STARTER	115/1/60	1-3
EF-R2	GREENHECK	G-080-VG	POOL STORAGE	40	CENTRIFUGAL	DIRECT	200	0.50	1515	0.1/0.05	7.4	54	BAS / MOTOR STARTER	115/1/60	1-3
EF-S1	GREENHECK	SQ-97-VG	IDFS104	50	INLINE	DIRECT	150	0.50	1408	0.25/0.09	9.7	57	BAS / MOTOR STARTER	115/1/60	1-3

EXHAUST FAN SCHEDULE NOTES:

1. DISCONNECT BY MANUFACTURER.
2. FAN SPEED CONTROLLER FOR BALANCING.
3. PROVIDE 18" ROOF CURB.

VAV BOX WITH HOT WATER REHEAT SCHEDULE - 23 36 00

IDENTITY DATA				AIRFLOW DATA				NOISE DATA		REHEAT COIL DATA								
MARK	MANUFACTURER	MODEL	INLET DIAMETER	MAX. COOLING (CFM)	HEATING (CFM)	MIN. COOLING (CFM)	SPI (IN-WG)	MAX DISCH.	MAX RAD.	CAPACITY (BTUH)	EAT / LAT (°F)	APD (IN-WG)	FLOW (GPM)	EWT / LWT (°F)	WPD (FT-WG)	ROWS	VALVE TYPE	NOTES
VAV-Q1	PRICE	SDV	8	805	405	250	1.0	25	25	18,000	55 / 95.1	0.2	1.8	140 / 120	0.7	2	2-WAY	1 - 4
VAV-Q2	PRICE	SDV	8	755	455	230	1.0	25	25	20,000	55 / 95.5	0.5	2.0	140 / 120	1.0	2	2-WAY	1 - 4
VAV-Q3	PRICE	SDV	8	1,000	500	300	1.0	25	25	20,000	55 / 91.9	0.4	2.0	140 / 120	0.8	2	2-WAY	1 - 4
VAV-R1	PRICE	SDV	8	850	510	255	1.0	25	25	20,000	55 / 91.1	0.6	2.0	140 / 120	2.1	2	2-WAY	1 - 4
VAV-R2	PRICE	SDV	10	1,500	900	450	1.0	25	25	40,000	55 / 95.9	0.5	4.0	140 / 120	4.4	2	2-WAY	1 - 4

VAV BOX WITH HOT WATER REHEAT SCHEDULE NOTES:

1. COORDINATE LOCATION OF BOX A BOVE CEILING WITH LIGHT FIXTURES, FIRE PROTECTION, HEATING AND COOLING SYSTEM PIPING, PLUMBING SYSTEMS, CONDUITS, AND CABLE TRAYS.
2. SEE M-700 SERIES DRAWINGS FOR TEMPERATURE CONTROLS INFORMATION.
3. INSULATED BOTTOM ACCESS DOOR UPSTREAM OF COIL WITH 1/4 TURN LATCH FASTENERS.
4. MINIMUM 1" ELASTOMERIC LINER.

233713 DIFFUSERS, REGISTERS, AND GRILLES

IDENTITY DATA				NECK SIZE (IN)	MODULE SIZE		
MARK	DESCRIPTION	MANUFACTURER	MODEL	Ø	W	L	NOTES
SDS-2	LINEAR SLOT DIFFUSER	PRICE	SDS-2 Slot	8"		48"	2
EG8/6	LOUVER FACE GRILLE EXHAUST	PRICE	630		8"	6"	
EG12/12	LOUVER FACE GRILLE EXHAUST	PRICE	630		12"	12"	1
HDRG48/32	HEAVY DUTY GYM GRILLES	PRICE	93		32"	48"	
SDS-3	LINEAR SLOT DIFFUSER	PRICE	SDS-3 Slot	10"		48"	2
RG12/12	LOUVER FACE RETURN GRILLE	PRICE	630		8"	6"	
RG12/12	LOUVER FACE RETURN GRILLE	PRICE	630		12"	12"	1
RG24/12	LOUVER FACE RETURN GRILLE	PRICE	630		24"	12"	
RG24/24	LOUVER FACE RETURN GRILLE	PRICE	630		24"	24"	
SD12-4	SQUARE CONE DIFFUSER	PRICE	ASCDA	4"	12"	12"	1
SD24-6	SQUARE CONE DIFFUSER	PRICE	ASCDA	6"	24"	24"	
SD24-8	SQUARE CONE DIFFUSER	PRICE	ASCDA	8"	24"	24"	
SG6/4	LOUVER FACE GRILLE SUPPLY	PRICE	620		6"	6"	
SG6/4	LOUVER FACE GRILLE SUPPLY	PRICE	620		4"	6"	

DIFFUSERS, REGISTERS, AND GRILLES SCHEDULE NOTES:

1. PROVIDE 24X24 MODULE WITH 12X12 FACE SIZE FOR LAY-IN CEILINGS
2. PROVIDE SDB PLENUM.

LOUVER SCHEDULE

IDENTITY DATA				OPENING				AIRFLOW DATA		
MARK	MANUFACTURER	MODEL	AIRFLOW	W	H	% FREE AREA	NO. PANELS	(CFM)	APD (IN-WG)	NOTES
LV-48/24	GREENHECK	ESJ	INTAKE	48"	24"	-	-	-	-	1-3

LOUVER SCHEDULE NOTES:

1. PROVIDE ALUMINUM BIRDSCREEN.
2. CLEAR ANODIZED ALUMINUM FINISH.
3. LOUVER TO MATCH EXISTING. FIELD VERIFY EXISTING CONDITIONS.

ELECTRIC UNIT HEATER SCHEDULE - 23 82 39.16

IDENTITY DATA				HEATING DATA		ELECTRICAL DATA			
MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	CAPACITY (KW)	# STAGE	VOLTS / PH / HZ	FLA	NOTES
CUH-1	INDEECO	922IC-35	120	3.0	2	208/1/60	15.0	1-2
CUH-2	INDEECO	922IC-35	120	3.0	2	208/1/60	15.0	1-2
PUH-1	INDEECO	926U03	45	3.0	1	208/1/60	15.1	1-2

ELECTRIC PROP UNIT HEATER SCHEDULE NOTES:

1. DISCONNECT BY MANUFACTURER.
2. PROVIDE UNIT MOUNTED THERMOSTAT BY UNIT MFR.

GRAVITY VENTILATOR SCHEDULE - 23 37 23

IDENTITY DATA					THROAT DATA			HOOD DATA			
						DIMENSIONS					
MARK	MANUFACTURER	MODEL	SYSTEM SERVED	WEIGHT (LBS)	VELOCITY (FPM)	L	W	AIRFLOW (CFM)	TSP (IN-WG)	VELOCITY (FPM)	NOTES
GIV-1	GREENHECK	FGI	AHU-E2	53	400	12"	12"	400	0.1	1,200	1,3
GRV-2	GREENHECK	FGR	AHU-E2	53	400	12"	12"	400	0.1	1,200	1,3
GIV-3	GREENHECK	FGI	AHU-G4	278	400	42"	48"	5,500	0.1	1,200	1,3
GIV-4	GREENHECK	FGI	AHU-G5	278	400	42"	48"	5,500	0.1	1,200	1,3
GRV-5	GREENHECK	FGR	POOL EQUIP EXHAUST	62	400	20"	24"	2,200	0.1	1,200	1 - 3
GRV-6	GREENHECK	FGR	AHU-G4	211	400	42"	48"	5,500	0.1	1,200	1,3
GRV-7	GREENHECK	FGR	AHU-G5	211	400	34"	58"	5,500	0.1	1,200	1,3

GRAVITY VENTILATOR SCHEDULE NOTES:

1. SEE DETAIL '7/M-501'.
2. ALL ALUMINUM CONSTRUCTION.
3. PROVIDE 24" CURB.

SPLIT SYSTEM SCHEDULE - 23 81 26

INDOOR UNIT											OUTDOOR UNIT											
IDENTITY DATA					DIMENSIONS			COOLING CAPACITY			IDENTITY DATA				COOLING DATA		ENERGY DATA				ELECTRICAL DATA			
MARK	MANUFACTURER	MODEL	SERVES	WEIGHT (LBS)	W	D	H	TOTAL (BTUH)	SENSIBLE (BTUH)	ESP (IN-WG)	MARK	MODEL	SERVICE	WEIGHT (LBS)	NOMINAL (BTUH)	AMBIENT (°F)	COP	EER	SEER	REF. TYPE	VOLT/PHZ/HZ	MCA (A)	MOCP (A)	NOTES
SS-R1	TRANE	PKA-AK24NL	IDFR117	51	46 1/16"	11 5/8"	14 3/8"	24,500	2,400	1.00	CU-R1	PUY-AH24NL	SS-R1	155	24,500.0	95	-	12.0	21.1	R-454B	208/1/60	22.0	37.0	1

SPLIT SYSTEMS UNIT SCHEDULE NOTES:

1. DISCONNECT BY DIVISION 26.

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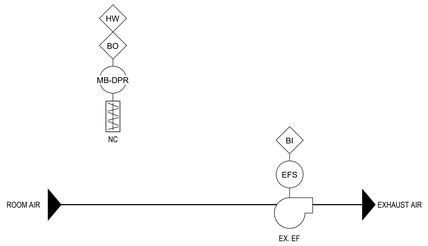
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PROJECT: #24173S
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MECHANICAL SCHEDULES

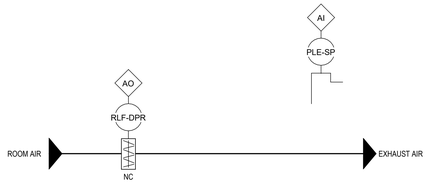
M-601

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MAINTAIN EXISTING SEQUENCE OF OPERATION AND CONTROLS FOR THE EXISTING POOL EQUIPMENT ROOM EXHAUST FAN. INTERLOCK NEW OA DAMPER AND DAMPER ACTUATOR WITH EXISTING EXHAUST FAN OPERATION. WHEN EXHAUST FAN IS ENERGIZED, OA DAMPER SHALL OPEN. PROVIDE END SWITCH ON THE NEW OA DAMPER FOR MONITORING OPEN-CLOSED POSITION AT THE OPERATOR WORKSTATION. PROVIDE OR REVISE SYSTEM GRAPHIC THAT INCLUDES THE EXHAUST FAN AND OUTDOOR AIR DAMPER ALONG WITH STATUS OF FAN AND OA DAMPER POSITION.

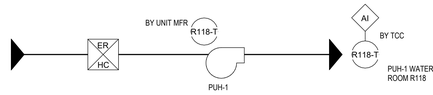
7 POOL EQUIPMENT ROOM EXHAUST CONTROL
NOT TO SCALE



AUDITORIUM LOBBY SPACE PRESSURE CONTROL:

RELIEF DAMPER (RLF-DPR) SHALL MODULATE TO MAINTAIN PLENUM STATIC PRESSURE SET POINT OF +0.05" WITH RESPECT TO OUTDOOR AMBIENT CONDITIONS, AS SENSED BY DIFFERENTIAL PRESSURE SENSORS AND TRANSMITTER (PLE-SP). THE HIGH PICKUP POINT SHALL BE IN THE CEILING OF THE AUDITORIUM LOBBY AND THE LOW PICKUP SHALL BE ON THE NEW ROOF OF THE NEW AUDITORIUM LOBBY/ENTRANCE.

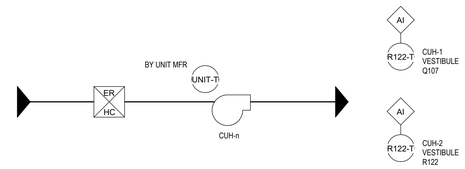
6 AUDITORIUM LOBBY SPACE PRESSURE CONTROL
NOT TO SCALE



PROPELLER UNIT HEATER SEQUENCE OF OPERATION:

ZONE TEMPERATURE CONTROL: THE UNIT MOUNTED THERMOSTAT SHALL ENABLE THE PROPELLER UNIT HEATER WHEN SPACE TEMPERATURE FALLS BELOW 65F. THE UNIT FAN SHALL CYCLE AND THE ELECTRIC HEAT SHALL BE STAGED TO MAINTAIN A MINIMUM TEMPERATURE OF 65F. WHEN THE SPACE TEMPERATURE EXCEEDS 68F, THE PROPELLER UNIT HEATER SHALL BE DISABLED. THE TCC SHALL PROVIDE A SEPARATE WALL MOUNTED, FACE PLATE TYPE TEMPERATURE SENSOR TO MONITOR SPACE TEMPERATURE. IF THE SPACE TEMPERATURE FALLS BELOW 60F (ADJ), AN ALARM SHALL BE GENERATED AT THE OPERATOR WORKSTATION.

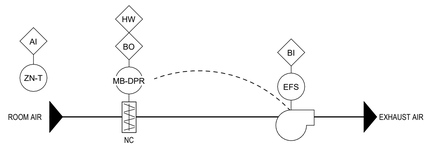
5 ELECTRIC PROPELLER UNIT HEATER
NOT TO SCALE



CABINET UNIT HEATER SEQUENCE OF OPERATION:

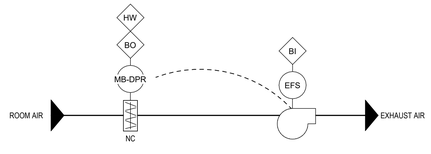
ZONE TEMPERATURE CONTROL: THE UNIT MOUNTED THERMOSTAT SHALL ENABLE THE CABINET UNIT HEATER WHEN SPACE TEMPERATURE FALLS BELOW 65F. THE UNIT FAN SHALL CYCLE AND THE ELECTRIC HEAT SHALL BE STAGED TO MAINTAIN A MINIMUM TEMPERATURE OF 65F. WHEN THE SPACE TEMPERATURE EXCEEDS 68F, THE PROPELLER UNIT HEATER SHALL BE DISABLED. THE TCC SHALL PROVIDE A SEPARATE WALL MOUNTED, FACE PLATE TYPE TEMPERATURE SENSOR TO MONITOR SPACE TEMPERATURE. IF THE SPACE TEMPERATURE FALLS BELOW 60F (ADJ), AN ALARM SHALL BE GENERATED AT THE OPERATOR WORKSTATION.

3 ELECTRIC CABINET UNIT HEATER
NOT TO SCALE



EXHAUST FAN CONTROL: THE MOTORIZED BACKDRAFT DAMPER (MB-DPR) SHALL BE DRIVEN OPEN AND PROVEN VIA END-SWITCH CONTACTS TO PREVENT OPERATION OF THE EXHAUST FAN MOTOR WHEN CLOSED. DAMPER ACTUATOR WITH INTEGRAL END-SWITCH FURNISHED AND INSTALLED BY TCC. THE EXHAUST FAN SHALL BE STARTED ACCORDING TO THE OWNER-DEFINED SCHEDULE. IF THE EXHAUST FAN STATUS (EF-S) DOES NOT MATCH THE COMMANDED VALUE AFTER STROKE TIME PLUS 15 SECONDS (ADJ), AN ALARM SHALL BE GENERATED. SEE ELECTRICAL DRAWINGS FOR MOTOR STARTER LOCATION INFORMATION.

4 EXHAUST FAN CONTROL: EF-Q2, EF-R2
NOT TO SCALE



EXHAUST FAN CONTROL: THE MOTORIZED BACKDRAFT DAMPER (MB-DPR) SHALL BE DRIVEN OPEN AND PROVEN VIA END-SWITCH CONTACTS TO PREVENT OPERATION OF THE EXHAUST FAN MOTOR WHEN CLOSED. DAMPER ACTUATOR WITH INTEGRAL END-SWITCH FURNISHED AND INSTALLED BY TCC. THE EXHAUST FAN SHALL BE STARTED ACCORDING TO THE OWNER-DEFINED SCHEDULE. IF THE EXHAUST FAN STATUS (EF-S) DOES NOT MATCH THE COMMANDED VALUE AFTER STROKE TIME PLUS 15 SECONDS (ADJ), AN ALARM SHALL BE GENERATED. SEE ELECTRICAL DRAWINGS FOR MOTOR STARTER LOCATION INFORMATION.

2 EXHAUST FAN CONTROL: EF-Q1, EF-R1, EF-S1
NOT TO SCALE

SEQUENCE OF OPERATION

RTU-Q2 IS A VARIABLE AIR VOLUME (VAV), PACKAGED ROOFTOP AIR HANDLING UNIT (RTU) WITH MIXING BOX AND FILTRATION. DIRECT EXPANSION COOLING COIL, NATURAL GAS HEATING SECTION, SUPPLY FAN AND EXHAUST FAN SERVING VAV TERMINAL UNITS FOR ZONE TEMPERATURE CONTROL.

THE DIRECT DIGITAL CONTROLS FOR THIS RTU WILL BE PROVIDED (FACTORY INSTALLED AND WIRED) BY THE RTU MANUFACTURER. THE RTU MANUFACTURER WILL LIST AND CONTROL COMPONENTS REQUIRING FIELD MOUNTING AND WIRING IN THE RTU SUBMITTAL DOCUMENTS. THE TEMPERATURE CONTROLS CONTRACTOR (TCC) WILL INSTALL FACTORY FURNISHED COMPONENTS AND LOW VOLTAGE CONTROL WIRING PER MANUFACTURER'S WRITTEN INSTRUCTIONS. THE TCC WILL FURNISH AND INSTALL ZONE TEMPERATURE SENSORS (FOR CONTROL OF TERMINAL UNITS) AND PLENUM STATIC PRESSURE SENSOR, INCLUDING LOW VOLTAGE CONTROL WIRING FOR COMMUNICATION TO THE DIRECT DIGITAL CONTROL SYSTEM. THE TCC WILL INSTALL LOW VOLTAGE WIRING FROM THE AUXILIARY CONTACTS OF THE SUPPLY AND RETURN SMOKE DETECTORS TO THE RTU CONTROLLER FOR SYSTEM SHUTDOWN OF THE RTU WHEN SMOKE DETECTORS ARE ACTIVATED.

THE RTU MANUFACTURER WILL PROVIDE A BACNET INTERFACE CARD AS REQUIRED TO INTERFACE TO THE DIRECT DIGITAL CONTROLS FRONT-END. CONTROLS STARTUP, COMMISSIONING, AND WARRANTY SUPPORT OF THE FACTORY-PROVIDED AND FACTORY-FURNISHED CONTROLS SHALL BE THE RESPONSIBILITY OF THE RTU MANUFACTURER. SUPPORT OF THE BACNET INTERFACE CARD WILL BE THE RESPONSIBILITY OF THE RTU MANUFACTURER. THE RTU MANUFACTURER WILL PROVIDE OWNER TRAINING.

SUPPLY FAN START/STOP: THE SUPPLY FAN (SF-C) WILL BE ENABLED/DISABLED ACCORDING TO THE OCCUPIED/UNOCCUPIED SCHEDULE, OR MANUALLY AS SELECTED BY THE OPERATOR. THE MINIMUM RUN TIME WILL BE 30 MINUTES (ADJ). IF THE SUPPLY FAN STATUS (SF-S) DOES NOT MATCH THE COMMANDED VALUE, AN ALARM WILL BE GENERATED AT THE USER INTERFACE. WHEN THE SUPPLY FAN STATUS INDICATES THE FAN IS ENERGIZED, THE CONTROL SEQUENCE WILL BE INITIATED.

SUPPLY FAN SPEED CONTROL: THE SUPPLY FAN SPEED (SF-0) WILL MODULATE VIA VARIABLE FREQUENCY DRIVE (VFD) TO MAINTAIN DUCT STATIC PRESSURE SETPOINT, AS SENSED BY SUPPLY AIR DUCT STATIC PRESSURE SENSOR (SA-SP). INITIALLY SET AT 1.0" WG (ADJ). THE DUCT STATIC PRESSURE SETPOINT VALUE WILL BE DETERMINED AT THE TIME OF SYSTEM BALANCING IN COORDINATION WITH THE TEST AND BALANCE CONTRACTOR.

DISCHARGE AIR TEMPERATURE CONTROL: THE OA/RA MIXED AIR DAMPERS, NATURAL GAS HEATING, AND DIRECT EXPANSION COOLING SHALL STAGE IN SEQUENCE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SET POINT OF 55F (ADJ).

EXHAUST FAN START/STOP: WHEN THE SUPPLY FAN IS ENERGIZED, THE EXHAUST FAN (EF-C) WILL BE ENABLED. IF THE EXHAUST FAN STATUS (EF-S) DOES NOT MATCH THE COMMANDED VALUE, AN ALARM WILL BE GENERATED AT THE USER INTERFACE.

EXHAUST FAN SPEED CONTROL: THE EXHAUST FAN SPEED (EF-0) WILL MODULATE VIA VFD TO MAINTAIN +0.05" WG (ADJ) STATIC PRESSURE WITH REFERENCE TO OUTDOOR AMBIENT CONDITIONS, AS SENSED BY PLENUM DIFFERENTIAL PRESSURE TRANSMITTER (PLE-SP).

SUPPLY AIR TEMPERATURE CONTROL: THE NATURAL GAS HEATING (HTG-C), MIXED AIR DAMPER CONTROL (OA-DPR/RA-DPR), AND DX COOLING COIL (CLG-C) WILL MODULATE IN SEQUENCE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT OF 55F (ADJ).

ECONOMIZER CONTROL (DRY BULB): WHEN THE OUTSIDE AIR TEMPERATURE (OA-T) IS BELOW 55F, THE ECONOMIZER MODE WILL BE ENABLED. WHEN ECONOMIZER MODE IS ENABLED, THE OUTDOOR AIR DAMPER (OA-DPR) AND RETURN AIR DAMPER (RA-DPR) WILL MODULATE IN SEQUENCE TO MAINTAIN DISCHARGE AIR TEMPERATURE (SA-T) SETPOINT.

SYSTEM SAFETIES: UPON ACTIVATION OF SMOKE DETECTION DEVICE (DA-SD, RA-SD), THE SUPPLY AND EXHAUST FANS SHALL BE DE-ENERGIZED VIA HARD-WIRED CONNECTION TO THE RTU CONTROLLER. AN ALARM WILL BE INITIATED AT THE USER INTERFACE.

SYSTEM SHUTDOWN: WHEN THE UNIT IS SHUTDOWN VIA MANUAL STOP COMMAND, OCCUPIED/UNOCCUPIED SCHEDULE, OR SYSTEM SAFETY COMMAND, THE UNIT WILL BE SET AS FOLLOWS:

SUPPLY FAN IS DE-ENERGIZED
EXHAUST FAN IS DE-ENERGIZED
OUTSIDE AIR DAMPER IS CLOSED
RETURN AIR DAMPER IS OPEN

POINTS LIST: THE FOLLOWING REPRESENTS THE MINIMUM POINTS TO BE PROVIDED AND DISPLAYED AT THE USER INTERFACE SYSTEM GRAPHICS. PROVIDE, AND DISPLAY AT THE USER INTERFACE, ANY ADDITIONAL POINTS NECESSARY TO ACHIEVE THE SEQUENCE OF OPERATION OF THE SYSTEM.

BINARY INPUTS

SUPPLY FAN STATUS (SF-S)
SMOKE DETECTORS (DA-SD, RA-SD)
EXHAUST FAN STATUS (EF-S)

BINARY OUTPUTS

SUPPLY FAN START/STOP (SF-C)
EXHAUST FAN START/STOP (EF-C)

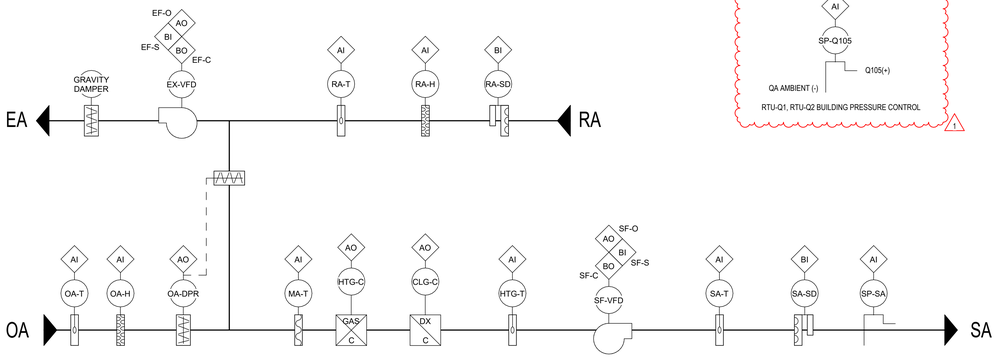
ANALOG INPUTS

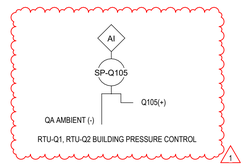
OUTSIDE AIR TEMPERATURE (OA-T)
OUTSIDE AIR HUMIDITY (OA-H)
MIXED AIR TEMPERATURE (MA-T)
RETURN AIR TEMPERATURE (RA-T)
RETURN AIR HUMIDITY (RA-H)
DISCHARGE TEMPERATURE (DA-T)
HEATING DISCHARGE TEMPERATURE (HTG-T)
BUILDING STATIC PRESSURE (SP-Q105)
ANALOG OUTPUTS

SUPPLY FAN SPEED (SF-O)
EXHAUST FAN SPEED (EF-0)
OUTDOOR AIR DAMPER POSITION (OA-DPR, LINKED WITH RA-DPR)
GAS HEAT OUTPUT (HTG-C)
DX COOLING OUTPUT (CLG-C)
REHEAT OUTPUT (RH-C)

ANALOG/MULTI-STATE VALUES:

OCCUPIED COOLING SETPOINT
UNOCCUPIED COOLING SETPOINT
OCCUPIED HEATING SETPOINT
UNOCCUPIED HEATING SETPOINT
RETURN AIR HUMIDITY SETPOINT
ALARM VALUE
OCCUPANCY MODE





1 RTU-Q2
NOT TO SCALE

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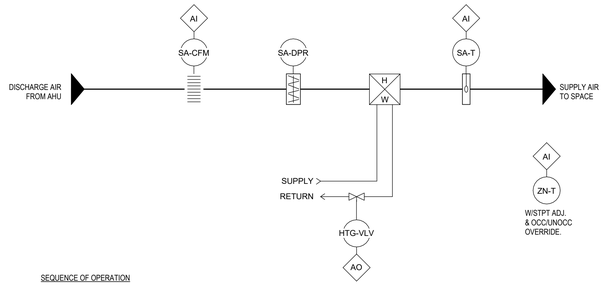
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PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: MP / JR

TEMPERATURE CONTROLS SCHEMATICS

M-701



SEQUENCE OF OPERATION

OCCUPIED MODE:

IF ZONE TEMPERATURE , AS SENSED BY ZONE TEMPERATURE SENSOR (ZN-T), IS WITHIN THE DEADBAND LIMITS OF 70F-74F (ADJ), THE SUPPLY AIR DAMPER (SA-DPR) WILL BE AT MINIMUM COOLING AIRFLOW SETPOINT AS SENSED BY SUPPLY AIR AIRFLOW MEASURING STATION (SA-CFM), AND THE HYDRONIC HEATING CONTROL VALVE (HTG-VLV) IS CLOSED. IF ZONE TEMPERATURE (ZN-T) INCREASES BEYOND THE UPPER DEAD BAND LIMIT, THE SUPPLY AIR DAMPER (SA-DPR) WILL MODULATE FROM MINIMUM COOLING AIRFLOW SETPOINT TO MAXIMUM COOLING AIRFLOW SETPOINT TO SATISFY ZONE TEMPERATURE (ZN-T) SETPOINT OF 72F (ADJ). IF ZONE TEMPERATURE (ZN-T) FALLS BELOW THE LOWER DEADBAND LIMIT, THE SUPPLY AIR DAMPER (SA-DPR) WILL MODULATE FROM MAXIMUM COOLING SETPOINT TO MINIMUM COOLING SETPOINT. IF THE ZONE TEMPERATURE (ZN-T) CONTINUES TO FALL BELOW THE LOWER DEAD BAND LIMIT, THE SUPPLY AIR DAMPER (SA-DPR) WILL BE FIXED AT THE HEATING AIRFLOW SETPOINT AND THE HYDRONIC HEATING CONTROL VALVE (HTG-VLV) WILL MODULATE TO MAINTAIN ZONE TEMPERATURE SETPOINT.

UNOCCUPIED MODE:

THE UNOCCUPIED MODE SEQUENCE OF OPERATION IS THE SAME AS THE OCCUPIED MODE. THE UNOCCUPIED MODE DEADBAND LIMITS WILL BE 55F-85F (ADJ). WHEN ANY TWO VAV TERMINAL UNIT ZONES EXCEED THE UPPER DEAD BAND LIMIT OR FALL BELOW THE LOWER DEAD BAND LIMIT, AS SENSED BY THE ZONE TEMPERATURE SENSOR (ZN-T), THE ASSOCIATED AIR HANDLING UNIT WILL BE ENABLED AND OPERATE IN UNOCCUPIED MODE.

NOTES:
1. DISCHARGE AIR TEMPERATURE SENSOR (SA-T) PROVIDED BY TCC FOR MONITORING PURPOSES.

2. HYDRONIC HEATING CONTROL VALVE (HTG-VLV) FURNISHED BY TCC, INSTALLED BY MC.

3. VAV TERMINAL UNIT CONTROLLER AND DAMPER ACTUATOR FURNISHED BY TCC AND DELIVERED TO VAV TERMINAL UNIT MANUFACTURER FOR FACTORY MOUNTING AND WIRING IN TERMINAL UNIT CONTROL PANEL.

4. LOW VOLTAGE POWER WIRING TO VAV TERMINAL UNIT CONTROLLER BY TCC.

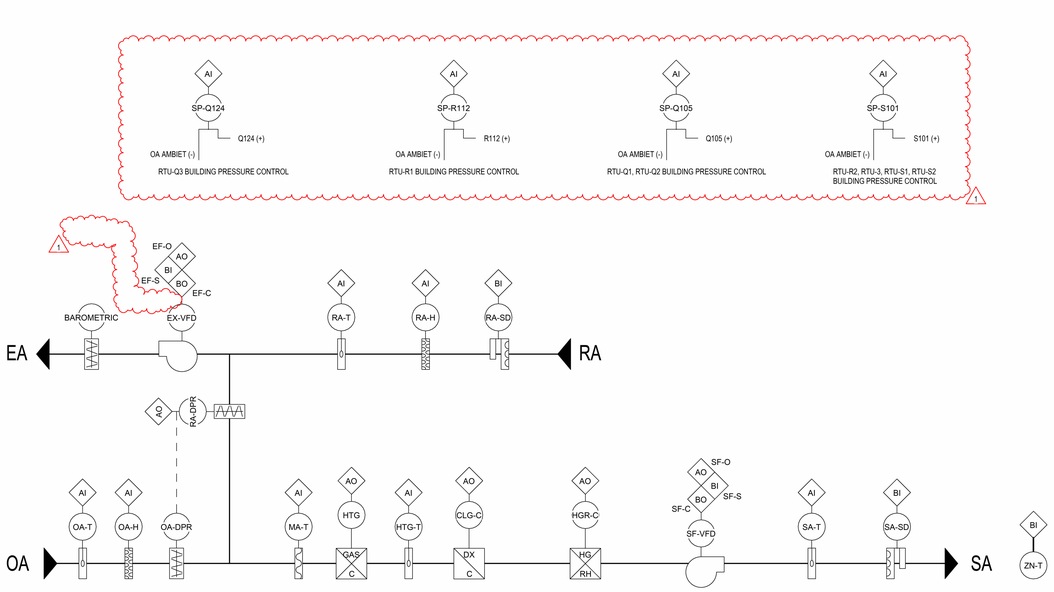
2 SINGLE DUCT VAV TERMINAL UNIT - HYDRONIC REHEAT
NOT TO SCALE

HEATING WATER SYSTEM ENABLE: THE TCC SHALL PROVIDE AN ENABLE SIGNAL TO EXISTING HEATING HOT WATER CENTRAL PLANT SYSTEM WHEN ANY VAV TERMINAL UNIT HAS A CALL FOR HEATING.

3 HEATING HOT WATER CENTRAL PLANT SYSTEM ENABLE
NOT TO SCALE

EX. AHU-E2: PROVIDE RA DAMPER AND ACTUATOR AND OA DAMPER AND ACTUATOR. PROVIDE COMMUNICATIONS WIRING TO THE EXISTING CONTROLLER CONTROLLING EX. AHU-E2. MAINTAIN EXISTING SEQUENCE OF OPERATION FOR EX. AHU-E2.

4 EX. AHU-E2 TEMPERATURE CONTROLS SCOPE
NOT TO SCALE



SEQUENCE OF OPERATION

RTU-Q1, RTU-Q3, RTU-R1, RTU-R2, RTU-R3, RTU-S1, AND RTU-S2 ARE CONSTANT AIR VOLUME (CAV), PACKAGED ROOF TOP AIR HANDLING UNIT (RTU) WITH MIXING BOX AND FILTRATION, DIRECT EXPANSION COOLING COIL, NATURAL GAS HEATING SECTION, HOT GAS REHEAT COIL, SUPPLY FAN, AND POWERED EXHAUST FAN SERVING A SINGLE ZONE FOR TEMPERATURE AND HUMIDITY CONTROL.

THE DIRECT DIGITAL CONTROLS FOR THIS RTU WILL BE PROVIDED (FACTORY INSTALLED AND WIRED) BY THE RTU MANUFACTURER. THE RTU MANUFACTURER WILL LIST ANY CONTROL COMPONENTS REQUIRING FIELD MOUNTING AND WIRING IN THE RTU SUBMITTAL DOCUMENTS. THE TEMPERATURE CONTROLS CONTRACTOR (TCC) WILL INSTALL FACTORY FURNISHED COMPONENTS AND LOW VOLTAGE CONTROL WIRING PER MANUFACTURER'S WRITTEN INSTRUCTIONS. THE TCC WILL FURNISH AND INSTALL ZONE TEMPERATURE SENSORS AND PLENUM STATIC PRESSURE SENSOR, INCLUDING LOW VOLTAGE CONTROL WIRING FOR COMMUNICATION TO THE DIRECT DIGITAL CONTROL SYSTEM. THE TCC WILL INSTALL LOW VOLTAGE CONTROL WIRING FROM THE AUXILIARY CONTACTS OF THE SUPPLY AND RETURN SMOKE DETECTORS TO THE RTU CONTROLLER FOR SYSTEM SHUTDOWN OF THE RTU WHEN SMOKE DETECTORS ARE ACTIVATED.

THE RTU MANUFACTURER WILL PROVIDE A BACNET MS/TP INTERFACE CARD AS REQUIRED TO INTERFACE TO THE DIRECT DIGITAL CONTROLS FRONT-END. CONTROLS STARTUP, COMMISSIONING, AND WARRANTY SUPPORT OF THE FACTORY-PROVIDED AND FACTORY-FURNISHED CONTROLS SHALL BE THE RESPONSIBILITY OF THE RTU MANUFACTURER. SUPPORT OF THE BACNET MS/TP INTERFACE CARD WILL BE THE RESPONSIBILITY OF THE RTU MANUFACTURER. THE RTU MANUFACTURER WILL PROVIDE OWNER TRAINING.

SUPPLY FAN START/STOP: THE SUPPLY FAN (SF-C) WILL BE ENABLED/DISABLED ACCORDING TO THE OCCUPIED/UNOCCUPIED SCHEDULE, OR MANUALLY AS SELECTED BY THE OPERATOR. THE MINIMUM RUN TIME WILL BE 30 MINUTES (ADJ). IF THE SUPPLY FAN STATUS (SF-S) DOES NOT MATCH THE COMMANDED VALUE, AN ALARM WILL BE GENERATED AT THE USER INTERFACE. WHEN THE SUPPLY FAN STATUS INDICATES THE FAN IS ENERGIZED, THE CONTROL SEQUENCE WILL BE INITIATED.

SUPPLY FAN SPEED (SF-0): IN COOLING MODE, SUPPLY FAN SHALL RUN CONTINUOUSLY AT MAXIMUM AIRFLOW. WHEN IN HEATING MODE, SUPPLY FAN SHALL MODULATE TO CFM REQUIRED, VIA EC MOTOR, TO DISCHARGE 95F WITH OUTDOOR AIR AT MINIMUM SET POINT, AND THE SUPPLY FAN SHALL RUN CONTINUOUSLY AT CONSTANT SPEED.

EXHAUST FAN START/STOP: WHEN THE SUPPLY FAN IS ENERGIZED, THE EXHAUST FAN WILL BE ENABLED. IF THE EXHAUST FAN STATUS (EF-S) DOES NOT MATCH THE COMMANDED VALUE, AN ALARM WILL BE GENERATED AT THE USER INTERFACE.

EXHAUST FAN SPEED CONTROL: THE EXHAUST FAN SHALL RUN CONTINUOUSLY WHEN THE UNIT IS ENABLED. THE EXHAUST FAN SPEED SHALL MODULATE VIA VARIABLE FREQUENCY DRIVE TO MAINTAIN BUILDING STATIC PRESSURE SETPOINT OF +0.05" WG WITH RESPECT TO OUTDOORS. GROUP RTU EXHAUST FAN CONTROL AS SHOWN ON SYSTEM DIAGRAM. A COMMON DIFFERENTIAL PRESSURE SENSOR/TRANSMITTER SHALL BE USED TO CONTROL FANS SERVING THE SAME AREA.

ZONE TEMPERATURE CONTROL (OCCUPIED): THE OUTDOOR AIR DAMPER SHALL BE AT MINIMUM POSITION. THE DIRECT EXPANSION COOLING AND NATURAL-GAS HEATING SHALL BE SEQUENCED TO MAINTAIN THE OCCUPIED TEMPERATURE SETPOINT BETWEEN 70F (ADJ) AND 74F (ADJ).

ZONE TEMPERATURE CONTROL (UNOCCUPIED): THE OUTDOOR AIR DAMPER SHALL BE CLOSED AND THE RETURN AIR DAMPER SHALL BE OPEN. THE DIRECT EXPANSION COOLING AND NATURAL-GAS HEATING SHALL BE SEQUENCED TO MAINTAIN THE UNOCCUPIED TEMPERATURE SETPOINT BETWEEN 78F (ADJ) AND 66F (ADJ).

RETURN AIR HUMIDITY CONTROL: IF THE RETURN AIR HUMIDITY (RA-H) RISES ABOVE 55% RH (ADJ), THE DX COOLING COIL (GLC-C) WILL MODULATE TO MAINTAIN LEAVING AIR TEMPERATURE OF 45F (ADJ). THE HOT GAS REHEAT COIL (RH-C) WILL MODULATE TO MAINTAIN THE ZONE TEMPERATURE SET POINT. WHEN THE RETURN AIR HUMIDITY (RA-H) FALLS BELOW 53% RH (ADJ), THE RETURN AIR HUMIDITY CONTROL CYCLE WILL BE DISABLED.

ECONOMIZER CONTROL (DRY BULB): WHEN THE OUTSIDE AIR TEMPERATURE (OA-T) IS BELOW 55F, THE ECONOMIZER MODE WILL BE ENABLED. WHEN ECONOMIZER MODE IS ENABLED, THE OUTDOOR AIR DAMPER (OA-DPR) AND RETURN AIR DAMPER (RA-DPR) WILL MODULATE IN SEQUENCE TO MAINTAIN DISCHARGE AIR TEMPERATURE (SA-T) SETPOINT.

SYSTEM SAFETIES: UPON ACTIVATION OF SMOKE DETECTION DEVICE (SA-SD, RA-SD), THE SUPPLY FAN WILL BE DE-ENERGIZED VIA HARD-WIRED CONNECTION TO THE RTU CONTROLLER. AN ALARM WILL BE INITIATED AT THE USER INTERFACE.

SYSTEM SHUTDOWN: WHEN THE UNIT IS SHUTDOWN VIA MANUAL STOP COMMAND, OCCUPIED/UNOCCUPIED SCHEDULE, OR SYSTEM SAFETY COMMAND, THE UNIT WILL BE SET AS FOLLOWS:

SUPPLY FAN IS DE-ENERGIZED
OUTSIDE AIR DAMPER IS CLOSED
RETURN AIR DAMPER IS OPEN

POINTS LIST: THE FOLLOWING REPRESENTS THE MINIMUM POINTS TO BE PROVIDED AND DISPLAYED AT THE USER INTERFACE SYSTEM GRAPHICS. PROVIDE, AND DISPLAY AT THE USER INTERFACE, ANY ADDITIONAL POINTS NECESSARY TO ACHIEVE THE SEQUENCE OF OPERATION OF THE SYSTEM.

BINARY INPUTS:
- SUPPLY FAN STATUS (SF-S)
- SMOKE DETECTORS (DA-SD, RA-SD)
- EXHAUST FAN STATUS (EF-S)

BINARY OUTPUTS:
- SUPPLY FAN START/STOP (SF-C)
- EXHAUST FAN START/STOP (EF-C)

ANALOG INPUTS:
- OUTSIDE AIR TEMPERATURE (OA-T)
- OUTSIDE AIR HUMIDITY (OA-H)
- MIXED AIR TEMPERATURE (MA-T)
- RETURN AIR TEMPERATURE (RA-T)
- RETURN AIR HUMIDITY (RA-H)
- DISCHARGE TEMPERATURE (SA-T)
- BUILDING STATIC PRESSURE (SP-Q124, SP-R112, SP-Q105, SP-S101)
- HEATING DISCHARGE TEMPERATURE (HTG-T)

ANALOG OUTPUTS
- SUPPLY FAN SPEED (SF-O)
- EXHAUST FAN SPEED (EF-O)
- OUTDOOR AIR DAMPER POSITION (OA-DPR, LINKED WITH RA-DPR)
- NATURAL GAS OUTPUT (HTG-C)
- DX COOLING OUTPUT (CLG-C)
- REHEAT OUTPUT (RH-C)

ANALOG/MULTI-STATE VALUES:
- OCCUPIED COOLING SETPOINT
- UNOCCUPIED COOLING SETPOINT
- OCCUPIED HEATING SETPOINT
- UNOCCUPIED HEATING SETPOINT
- RETURN AIR HUMIDITY SETPOINT
- ALARM VALUE
- OCCUPANCY MODE

1 RTU-Q1, RTU-Q3, RTU-R1, RTU-R2, RTU-R3, RTU-S1, AND RTU-S2
NOT TO SCALE

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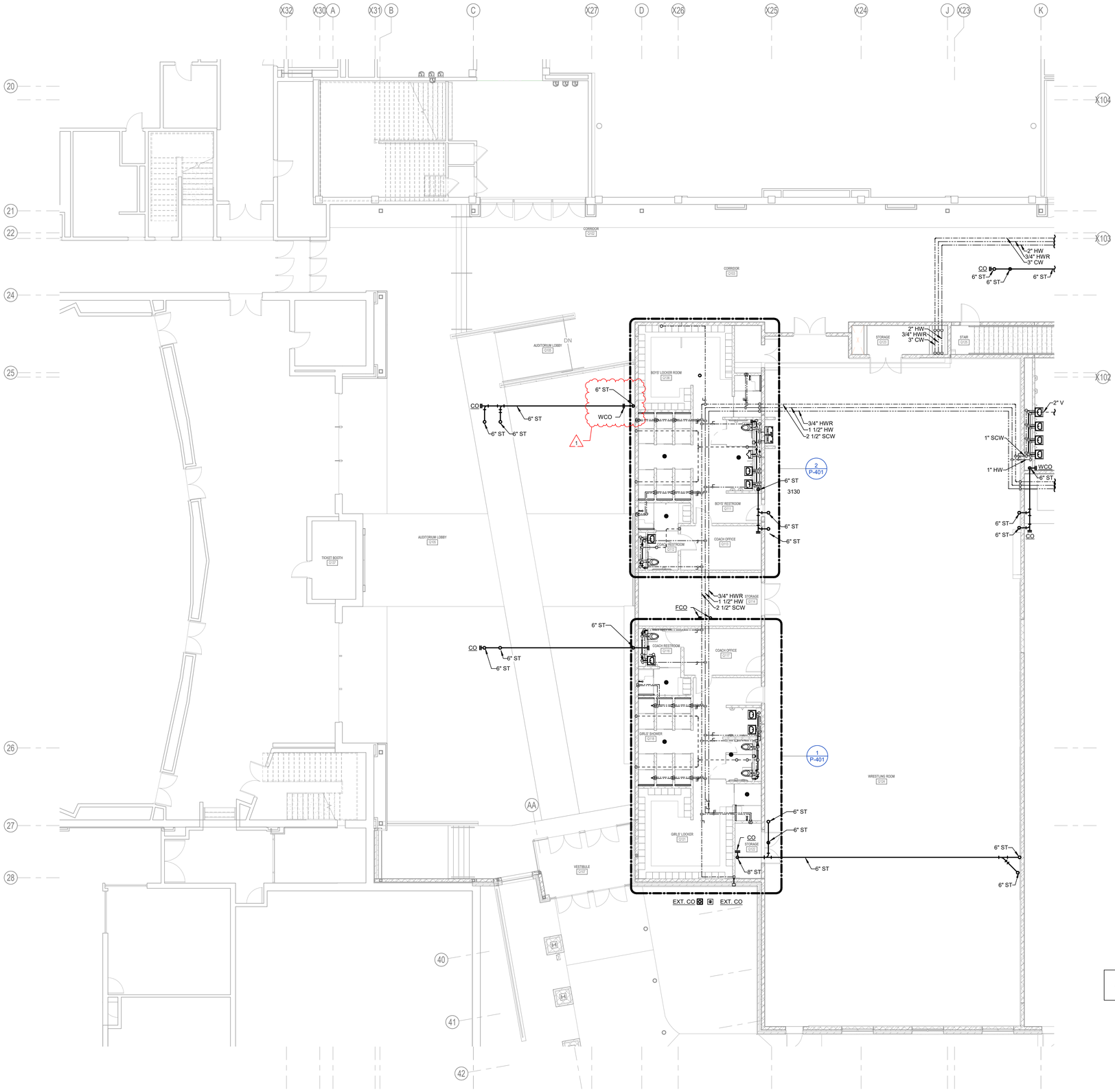
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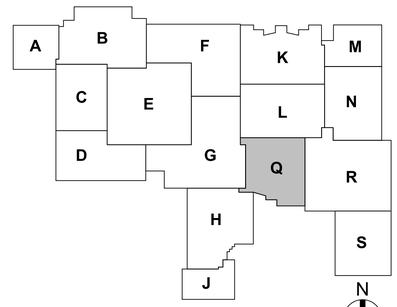
TEMPERATURE CONTROLS SCHEMATICS

M-702

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1 PLUMBING FIRST FLOOR PLAN - UNIT Q
1/8" = 1'-0"



PLOT DATE/TIME: 1/29/2026 12:27:00 PM

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PLUMBING FIRST FLOOR PLAN - UNIT Q

PP101

PLUMBING PLAN NOTES

1. INSTALL DUPLEX SEWAGE EJECTOR PUMP AND CONNECT TO EXISTING PIPING COMPLETE.
2. 2-1/2" (5 PSIG) LINE FROM NEW GAS METER. CONTACT JERRY GENTRY AT CITIZENS ENERGY, 317-370-6792 FOR NEW METER AND SERVICE LINE. TOTAL CONNECTED LOAD OF 3500 CFH.
3. SAWCUT FLOOR SLAB AS REQUIRED TO INSTALL A NEW 4" WASTE LINE ALL THE WAY TO THE EXISTING SUMP BASIN.
4. ROUTE NEW DOMESTIC WATER PIPING TIGHT TO WALL DOWN TO FLOOR BELOW AND CONNECT TO DOMESTIC WATER PIPING COMPLETE.

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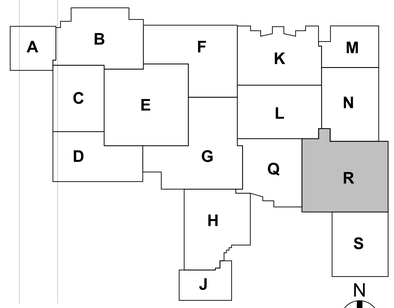
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PLUMBING FIRST FLOOR PLAN-UNIT R

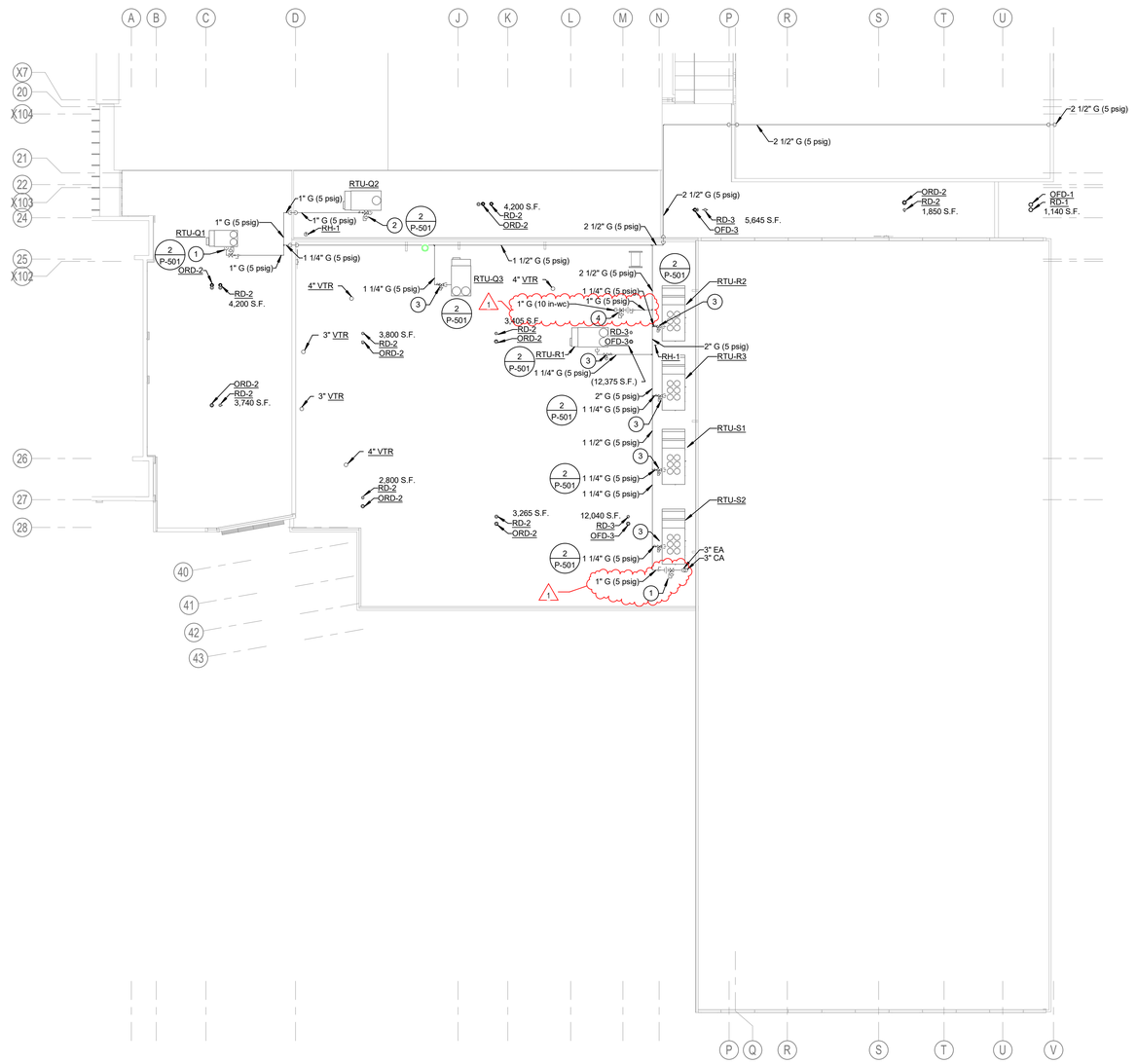
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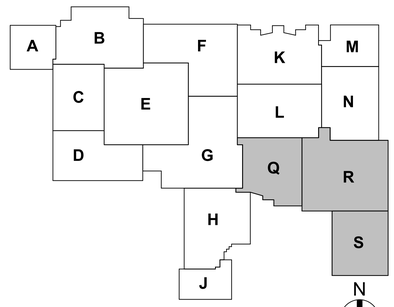
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ROOF PLUMBING PLAN NOTES

1 PROVIDE A GAS PRESSURE REGULATOR TO ACCEPT (5 PSI) SERVICE PRESSURE AND REGULATE DOWN TO 10" W.C. SUPPLYING 200 CFH.
2 PROVIDE A GAS PRESSURE REGULATOR TO ACCEPT (5 PSI) SERVICE PRESSURE AND REGULATE DOWN TO 10" W.C. SUPPLYING 250 CFH.
3 PROVIDE A GAS PRESSURE REGULATOR TO ACCEPT (5 PSI) SERVICE PRESSURE AND REGULATE DOWN TO 10" W.C. SUPPLYING 400 CFH.
4 PROVIDE A GAS PRESSURE REGULATOR TO ACCEPT (5 PSI) SERVICE PRESSURE AND REGULATE DOWN TO 10" W.C. SUPPLYING 165 CFH.



1 **PLUMBING ROOF PLAN**
3/64" = 1'-0"



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1	01/30/2026	Addendum #01

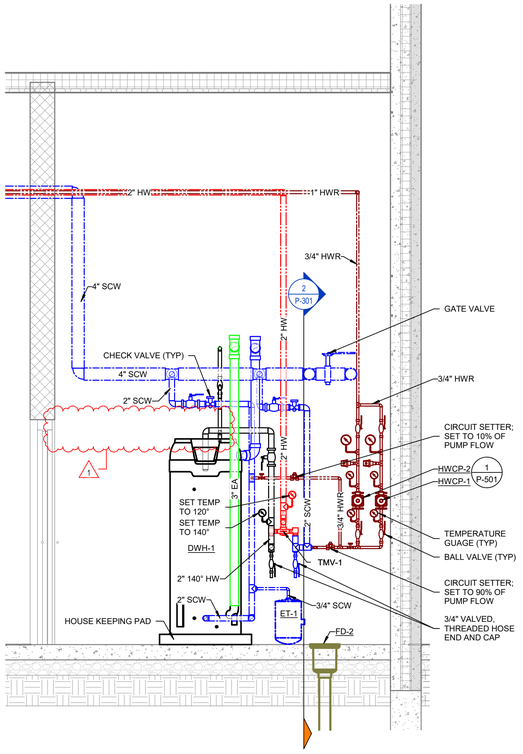
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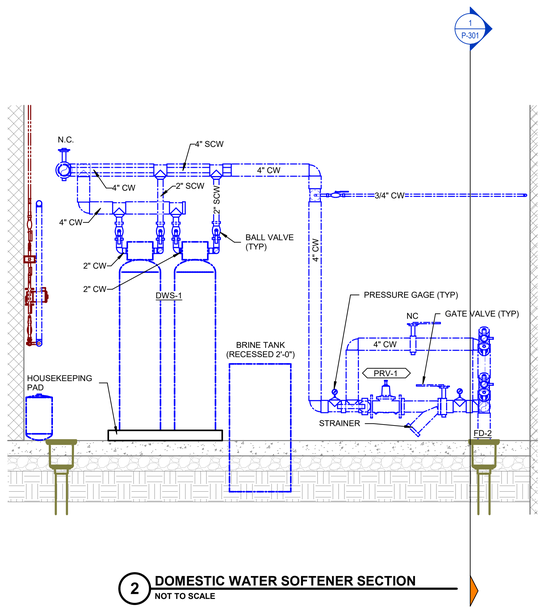
PLUMBING ROOF PLAN

PR101

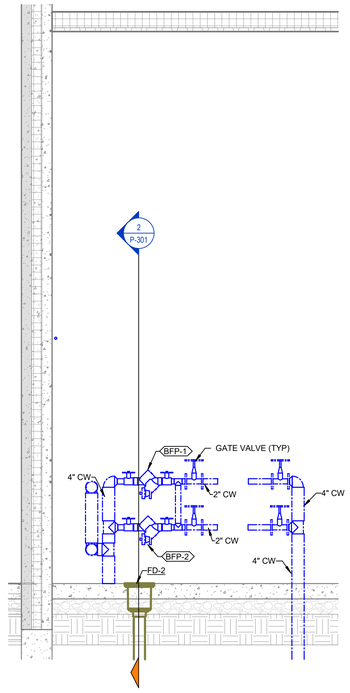
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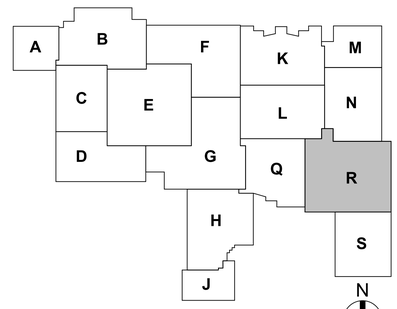
3 DOMESTIC WATER HEATER SECTION
NOT TO SCALE



2 DOMESTIC WATER SOFTENER SECTION
NOT TO SCALE



1 DOMESTIC WATER SERVICE ENTRANCE
NOT TO SCALE



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GABRIEL S. CURRIER
REGISTERED
NO. PE10808972
STATE OF INDIANA
PROFESSIONAL ENGINEER

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PROJECT: #24173S
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PLUMBING SECTIONS

P-301

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FUEL-FIRED, DOMESTIC WATER HEATERS

IDENTITY DATA				NATURAL GAS		ELECTRICAL			
MARK	MANUFACTURER	MODEL	DESCRIPTION	GPH RECOVERY RATE	INPUT (BTU/H)	VOLTAGE	PHASE	AMPS	NOTES
DWH-1	A.O. SMITH	#BTH-199(A)	COMMERCIAL TANK TYPE GAS FIRED DOMESTIC WATER HEATER, 100 GALLON STORAGE CAPACITY.	235	199,900	120	1	5.0	ROUTE T AND P VALVE TO NEAREST FLOOR DRAIN.

PLUMBING EQUIPMENT SCHEDULE

IDENTITY DATA				
MARK	MANUFACTURER	MODEL	DESCRIPTION	CAPACITY
ET-1	AMTROL	#ST-12-C-DD	DOMESTIC HOT WATER EXPANSION TANK	6.4 GALLON TANK VOLUME; 0.50 GALLON MAX. ACCEPT. VOLUME

CIRCULATION AND SUMP PUMPS

IDENTITY DATA				PLUMBING		ELECTRICAL			
MARK	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE (GPM)	PUMP HEAD (TDH)	VOLTAGE	PHASE	RPM	HP
HWCP-1	BELL AND GOSSETT	#NBF-45	140° DOMESTIC HOT WATER CIRCULATION PUMP, ALL BRONZE	5	25	115	1	1725	1/12
HWCP-2	BELL AND GOSSETT	#NBF-45	140° DOMESTIC HOT WATER CIRCULATION PUMP, ALL BRONZE	5	25	115	1	1725	1/12
SEP-1	ZOELLER	(2) #J6122/200V/3PH/3" HORIZONTAL/2.0 HP// 25' CORDS	DUPLEX SEWAGE EJECTOR PUMP	230	18	208	3	1750	2

DOMESTIC WATER SOFTENERS (223100)

SOFTENER				BRINE TANK	CONTINUOUS (EACH)		PEAK (EACH)		ELECTRICAL	
MARK	MANUFACTURER	MODEL	DESCRIPTION	DESCRIPTION	FLOW RATE	PRESSURE DROP	FLOW RATE	PRESSURE DROP	VOLTAGE	PHASE
DWS-1	FRANKLIN WATER TREATMENT	(2) #FWT2-150	PARALLEL DOMESTIC WATER SOFTENER SYSTEM WITH BRINE TANK	24" X 50", 730 LBS SALT STORAGE	53 GPM	15.00 psi	69 GPM	25.00 psi	120	1

1

MIXING, METERING, AND PRESSURE REDUCING VALVES (221119)

IDENTITY DATA					
MARK	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE	PRESSURE DROP
BFP-1	ZURN WILKINS	#975XLS2 - 2"	REDUCED PRESSURE BACKFLOW PREVENTER	160 GPM	15.20 psi
BFP-2	ZURN WILKINS	#975XLS2 - 2"	REDUCED PRESSURE BACKFLOW PREVENTER	160 GPM	15.20 psi
TMV-1	SYMMONS	#7-500	TEMPERATURE-ACTUATED, WATER MIXING VALVE	22 GPM	5.00 psi

COMMERCIAL WATER CLOSET SCHEDULE (224213.13)

FIXTURE				FLUSHOMETER				FIXTURE CONNECTION			MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	TOILET SEAT	CW	W	V	(FLOOR TO RIM)	COMPLIANT	NOTES
WC-1	AMERICAN STANDARD	#2257.101	WALL-MOUNTED, TOP SPUD WATER CLOSET	SLOAN	REGAL #111-1.6	MANUAL	CLOSED BACK, OPEN FRONT	1"	4"	2"	15"	No	
WC-2	AMERICAN STANDARD	#2257.101	WALL-MOUNTED, TOP SPUD, ACCESSIBLE WATER CLOSET	SLOAN	REGAL #111-1.6	MANUAL	CLOSED BACK, OPEN FRONT	1"	4"	2"	17"	Yes	

COMMERCIAL URINAL SCHEDULE (224213.16)

FIXTURE				FLUSHOMETER			FIXTURE CONNECTION			MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	CW	W	V	(FLOOR TO RIM)	COMPLIANT	NOTES
UR-1	AMERICAN STANDARD	#6590.001	WALL-HUNG, BACK OUTLET, WASHOUT, ACCESSIBLE	SLOAN	REGAL #186.1.0	MANUAL	3/4"	2"	1 1/2"	24"	No	
UR-2	AMERICAN STANDARD	#6590.001	WALL-HUNG, BACK OUTLET, WASHOUT, ACCESSIBLE	SLOAN	REGAL #186.1.0	MANUAL	3/4"	2"	1 1/2"	17"	Yes	

COMMERCIAL LAVATORY SCHEDULE (224216.13)

FIXTURE				FAUCET			FIXTURE CONNECTION				MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	CW	HW	W	V	(FLOOR TO RIM)	COMPLIANT	NOTES
L-1	AMERICAN STANDARD	LUCERNE #0355.012	VITREOUS CHINA, WALL MOUNTED, WITH BACK	CHICAGO FAUCET	#802-V666ABCP	MANUAL	1/2"	1/2"	1 1/2"	1 1/2"	34"	Yes	OFFSET GRID DRAIN STRAINER, ADJUSTABLE 1-1/2" TAILPIECE AND TRAP WITH CLEANOUT. WHITE FLEXIBLE DRAIN AND SUPPLIE KIT.

DOMESTIC WATER PIPING SPECIALTIES SCHEDULE (221119)

IDENTITY DATA				FIXTURE CONNECTION				MOUNTING	
MARK	MANUFACTURER	MODEL	DESCRIPTION	CW	HW	W	V	(FLOOR TO OUTLET)	NOTES
HB-1	ZURN	#Z1330-XL	HOSE BIB WITH RECESSED BOX	3/4"				18" A.F.F.	
HB-2	ZURN	#Z1341	HOSE BIBB	3/4"				12" A.F.F.	
NFWH-1	ZURN	#Z1320-C	NONFREEZE WALL HYDRANT WITH RECESSED BOX	3/4"	0"			18" A.F.F.	
RH-1	J.R. SMITH	#5903	NON-FREEZE ROOF HYDRANT	3/4"					

SANITARY WASTE PIPING SPECIALTIES SCHEDULE (221319)

IDENTITY DATA				W CONNECTION	NOTES
MARK	MANUFACTURER	MODEL	DESCRIPTION		
FD-1	ZURN	#Z415B-ZB	DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE ROUND STRAINER HEAD, POLISHED BRONZE STRAINER	2"	TRAPGUARD BY PROSET, NO SUBSTITUTIONS
FD-2	ZURN	#Z662-DG	DUCO CAST IRON BODY WITH FLASHING COLLAR AND CAST IRON GRATE, SQUARE GRATE AND SEDIMENT BUCKET	4"	
FD-3	ZURN	#Z415B-ZB	DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE ROUND STRAINER HEAD, POLISHED BRONZE STRAINER	4"	TRAPGUARD BY PROSET, NO SUBSTITUTIONS
TD-1	ZURN	#ZS880-36	36" STAINLESS STEEL LINEAR SHOWER DRAIN, TYPE 304 S/S, COMPLETE WITH VERTICAL ADJUSTABLE ANCHORING SUPPORT LEGS. NO HUB CENTER OUTLET AND STANDARD SLOTTED GRATE	2"	
TD-2	DURA TRENCH	#DTPF10-HDGS15ZSA	POLYMER TRENCH DRAIN, HEAVY DUTY GRATE #12BF24GSD WITH GALVANIZED LINT TRAP	4"	

STORM DRAINAGE PIPING SPECIALTIES SCHEDULE (221423)

IDENTITY DATA				W CONNECTION	NOTES
MARK	MANUFACTURER	MODEL	DESCRIPTION		
OFD-3	ZURN	#ZC100-89-C-EA-R-89	DUCO CAST IRON BODY, FLASHING CLAMP AND GRAVEL STOP WITH CAST IRON DOME, CAST IRON WATER DAM	8"	
ORD-1	ZURN	#ZC100-89-C-EA-R-89	DUCO CAST IRON BODY, FLASHING CLAMP AND GRAVEL STOP WITH CAST IRON DOME, CAST IRON WATER DAM	4"	
ORD-2	ZURN	#ZC100-89-C-EA-R-89	DUCO CAST IRON BODY, FLASHING CLAMP AND GRAVEL STOP WITH CAST IRON DOME, CAST IRON WATER DAM	6"	
RD-1	ZURN	#ZC100-C-EA-R	DUCO CAST IRON BODY WITH FLASHING CLAMP AND STAINLESS STEEL PERFORATED GRAVEL STOP, CAST IRON DOME	4"	
RD-2	ZURN	#ZC100-C-EA-R	DUCO CAST IRON BODY WITH FLASHING CLAMP AND STAINLESS STEEL PERFORATED GRAVEL STOP, CAST IRON DOME	6"	
RD-3	ZURN	#ZC100-C-EA-R	DUCO CAST IRON BODY WITH FLASHING CLAMP AND STAINLESS STEEL PERFORATED GRAVEL STOP, CAST IRON DOME	8"	

COMMERCIAL SINK SCHEDULE (224216.16)

FIXTURE				FAUCET		FIXTURE CONNECTION				MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	W	V		COMPLIANT	NOTES
MB-1	ZURN	#Z1996-24	MOLDED STONE, FLOOR MOUNTED (RECESSED) MOP BASIN	CHICAGO FAUCET	#897-ABRCF	3/4"	3/4"	3"	1 1/2"	FLOOR MOUNTED		
SK-1	E.L. MUSTEE	#18F	MOLDED STONE FLOOR MOUNTED SERVICE SINK	E.L. MUSTEE	#93.600	3/4"	3/4"	1 1/2"	1 1/2"	FLOOR MOUNTED	No	

PRESSURE WATER COOLER SCHEDULE (224716)

IDENTITY DATA				FIXTURE CONNECTION			MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	CW	W	V	(FLOOR TO BUBBLER)	COMPLIANT	NOTES
EWC-1	ELKAY	#LVRCGRNBWSK	ELECTRIC WATER COOLER/BOTTLE FILLER: SATIN FINISHED STAINLESS STEEL BOWL AND CABINET, BOTTLE FILLING UNIT INCLUDES AN ELECTRONIC SENSOR FOR NO-TOUCH ACTIVATION, FILTERED, TRIM: ADJUSTABLE P-TRAP WITH CLEANOUT, 1/2" ANGLE STOP WITH LOOSE KEY HANDLE, 1/2" O.D. CHROME PLATED SUPPLY.	3/4"	1 1/2"	1 1/2"	41" A.F.F	No	
EWC-2	ELKAY	#LVRCGRNBWSK	ELECTRIC WATER COOLER/BOTTLE FILLER: SATIN FINISHED STAINLESS STEEL BOWL AND CABINET, BOTTLE FILLING UNIT INCLUDES AN ELECTRONIC SENSOR FOR NO-TOUCH ACTIVATION, FILTERED, TRIM: ADJUSTABLE P-TRAP WITH CLEANOUT, 1/2" ANGLE STOP WITH LOOSE KEY HANDLE, 1/2" O.D. CHROME PLATED SUPPLY.	3/4"	1 1/2"	1 1/2"	36" A.F.F.	Yes	

SHOWER SCHEDULE (224223)

IDENTITY DATA				FIXTURE CONNECTION						
MARK	MANUFACTURER	MODEL	DESCRIPTION	CW	HW	W	V	MOUNTING	ADA COMPLIANT	NOTES
SH-1	BRADLEY	#WS-1WCA-EF-ES-ST-RSD-VS	SURFACE MOUNTED SHOWER VALVE AND HEAD	3/4"	3/4"			80" TO FIXED SHOWER HEAD	NO	
SH-2	BRADLEY	#WS-1X-HN-EF-ST-S20-RSD-SL-VS	SURFACE MOUNTED SHOWER VALVE AND HEAD WITH HAND HELD SHOWER AND TRIM	3/4"	3/4"			38" MIN. - 48" MAX. TO THE CONTROLS. 80" TO FIXED SHOWER HEAD.	YES	

WATER HAMMER ARRESTER (221119)

MARK	IPS	F.U. RATING	J.R. SMITH NO.	WADE NO.	ZURN NO.	REMARKS
A	3/4"	1-11	5005	W-5	100	P.D.I. CERTIFIED
B	1"	12-32	5010	W-10	200	P.D.I. CERTIFIED
C	1"	33-60	5020	W-20	300	P.D.I. CERTIFIED
D	1"	61-113	5030	W-50	400	P.D.I. CERTIFIED
E	1"	114-154	5040	W-75	500	P.D.I. CERTIFIED

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GABRIEL S. CURRIER REGISTERED NO. PE10808972 STATE OF INDIANA PROFESSIONAL ENGINEER

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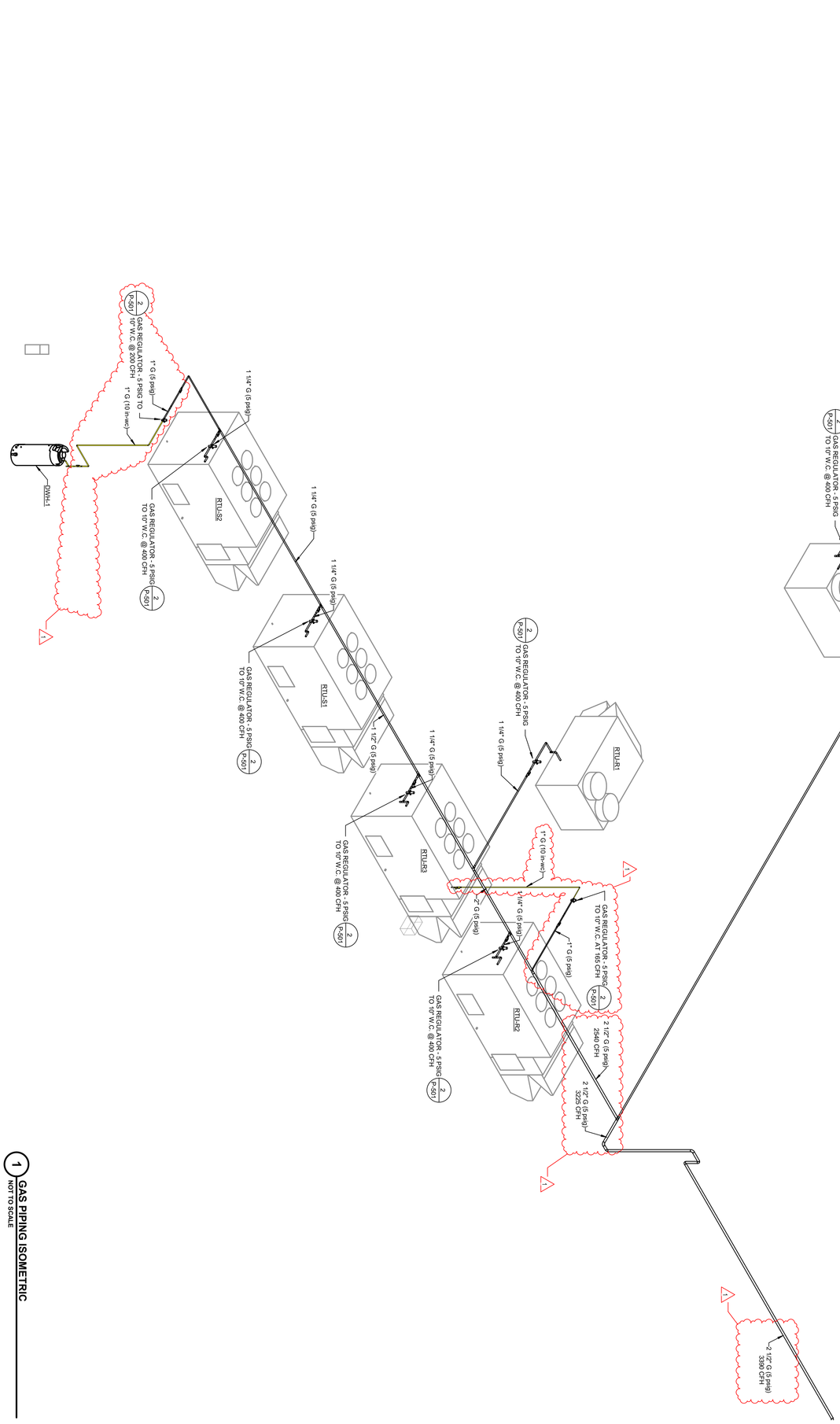
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PLUMBING SCHEDULES

P-601

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1 GAS PIPING ISOMETRIC
NOT TO SCALE

P-903

GAS PIPING ISOMETRIC

PROJECT #21173S
DRAWN BY: LJP
CHK'D BY: ISP

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145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

GENERAL NOTES

As used in these General Notes:
"Drawings" means the latest structural design drawings, uno.
"Specifications" means the latest project specifications, uno.
"Contract Documents" is defined as the design drawings and the specifications.
"SER" is defined as the structural engineer of record for the structure in its final condition.
"Design Professionals" is defined as the owner's architect
"MEP" includes, but is not limited to Mechanical, Electrical, Plumbing, Fire Protection.
"Contractor" is defined to include any of the following: General Contractor and their Subcontractors, Construction Manager and their Subcontractors, Structural Steel Fabricator or Structural Steel Erector.
"Base Building Structure" is defined as the structural frame designed by JQOL Global LLC.
"Structure in its final condition" means all structural elements shown on the structural contract documents are installed and completely connected and inspected with no outstanding non-comliance issues.

The Contractor is solely responsible for the stability of the structure until the construction of the structure reaches its final condition.

The Contractor is responsible for coordination of the Structural work with the Architectural, Civil, MEP contract documents, as well as any other applicable trades. The architectural, mechanical, electrical and plumbing aspects are not in the scope of these drawings. Therefore, all required materials and work may not be indicated. Refer to architectural drawings for all dimensions not shown on these drawings. Locations, sizes and numbers of all openings may not be completely indicated in the structural drawings. The respective contractor shall verify their work with all other disciplines.

The contractor is solely responsible for the design, installation, and removal of temporary bracing and construction supports, for new and existing structures, as necessary to complete the project. No portion of the project while under construction is intended to be stable in the absence of the contractor's temporary supports and bracing. Contractor shall retain a structural engineer licensed in the state in which the project is located to design temporary bracing and construction supports.

The contract documents represent the structure only. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not limited to, shoring, reshoring, underpinning, etc. the Engineer of Record is not responsible for the contractor's means, methods, techniques, sequences or safety procedures during construction.

The specifications are an integral part of the contract documents and shall be used in conjunction with the structural drawings.

The contractor shall verify all existing dimensions and conditions and coordinate with the structural drawings, architectural drawings, drawings from other consultants, project shop drawings and field conditions.

Apply details, sections, and notes on the drawings where conditions are similar to those indicated by detail, detail title or note.

Only use dimensions indicated on the drawings. Do not scale drawings.

Assume equal spacing between established dimensions, if not indicated on drawings.

Centerlines of columns and foundations coincide with grid line intersections, uno.

Centerlines of grade beams and walls coincide with centerlines of foundations, uno.

Centerlines of framing members coincide with column centerlines, uno.

The contractor shall verify that construction loads do not exceed the capacity of the structure at the time the load is applied.

Reactions and forces indicated are unfactored, Allowable Strength Design (ASD) loads.

If Drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern.

Notes and details shall take precedence over general structural notes. Where no details or sections are shown, construction shall conform to similar work on the project. Typical sections and details may not be cut on the plans, but apply unless noted otherwise.

Verify all existing conditions prior to any construction or fabrication. If different than shown, notify engineer/architect immediately for modification of drawings.

Provisions for future expansion:
Horizontal: None
Vertical: None

CODES AND DESIGN CRITERIA

CODES		
Building Code:	2012 International Building Code	
Local Building Code:	Indiana Building Code 2014	
Code Standard:	ASCE 7-10	
Steel Standard:	AISC 360-10 ASD	
Steel Seismic Standard:	AISC 341-10 ASD	
Concrete Standard:	ACI 318-11	
Masonry Standard:	TMS 402/602-11	
Wood Standard:	AITC/APA/NDS Current Ed.	
Risk Category:	III	
Exposure Category:	C	
ROOF LOADS	SEE LOAD MAPS	
FLOOR LOADS	SEE LOAD MAPS	
SOILS		
Soils Report:	A&W Project No. 25IN0492	
Report Date:	10.08.2025	
	Spread	Wall
Allowable Bearing Pressure, qa:	2500 psf	2000 psf
Soil Density, yt:	120 pcf	
Minimum Foundation Bearing Depth:	36 in	
SLAB ON GRADE		
Compacted Fill Thickness	6 in	
Compaction Specification:	95% Modified Proctor D-1557	
SNOW DESIGN CRITERIA		
Ground Snow Load, Pg:	20 psf	
Flat Roof Snow Load, Pf:	15.4 psf	
Minimum Snow, Pm:	22 psf	
Importance Factor, Is:	1.1	
Exposure Factor, Ce:	1.0	Partially
Thermal Factor, Ct:	1.0	Heated
Warm Slope Factor, Cs:	1.0	
WIND DESIGN CRITERIA		
Ultimate Wind Speed, Vult:	120 mph	
Design Wind Speed, Vasd:	90 mph	
Enclosure Class:	Enclosed	
Internal Pressure Coefficient, GCpi:	0.18	
Roof Net Uplift:	See S-010 Loading Sheet	
SEISMIC DESIGN CRITERIA		
Importance Factor, Ie:	1.25	
Ss:	0.163	
S1:	0.087	
SDS:	0.174	
SD1:	0.136	
Site Class:	D	
Seismic Design Category:	C	
Analysis Procedure:	ELFA	
Design Seismic Modification Coeff., R:	3	
Design Overstrength Factor, Omega:	3	
Design Deflection Amplification Factor, Cd:	3	
Seismic Response Coefficient, CS:	0.073	
Response Modification Coeff., R:	3	
Unfactored Design Base Shear, V:	7.3% * W	
Basic Seismic-Force-Resisting System:	1) (Student Activity Center) A.6 - Bearing Wall Systems Ordinary Precast Shear Walls R=3, omega=2.5, Cd=3, Cs=0.073	
	2) (All Other Areas) A.8 - Bearing Wall Systems Intermediate Reinforced Masonry Shear Walls R=3.5, omega=2.5, Cd=2.25, Cs=0.062	
	3) (At Existing Building Faces) H - Steel Systems Not Specifically Designed for Seismic Resistance R=3, omega=3, Cd=3, Cs=0.073	

010002 EXISTING STRUCTURE NOTES

The actual existing structure configuration, member sizes, etc. has not been field verified.

All existing structure indicated is for reference only.

Field verify existing structure. If existing structure varies from configuration, sizes, etc. from drawings, notify engineer of record immediately.

Existing structural information has been obtained from drawings prepared by TISLOW HUNTER & BERGEN ASSOCIATED, dated 10.25.1965 & by THE MCGUIRE & SHOOK CORPORTATION, dated 01.28.1988

014000 DELEGATED DESIGN

DELEGATED DESIGN REQUIREMENTS
A Specialty Structural Engineer (SSE), registered in the state of the project, shall be responsible for the structural design of the following products and systems complying with specific performance and design criteria indicated.

1. Steel Joists, joist girders, bridging and accessories.
2. Structural Steel Connections, except as shown on drawings.
   AISC Option 2 (Detailer): Simple shear connections.
   AISC Option 3 (SSE): All other connections not shown.
3. Cold-Formed Steel CFS wall studs, CFS floor joists and accessories.
4. Stairs, ladders, and railings.
5. Precast Prestressed Concrete elements and accessories.
6. Sprinkler supports and required loading.

The contractor is to review each submittal prior to forwarding to architect and structural engineer. The contractor is to stamp each submittal verifying that the following is addressed:
1. The shop drawing is requested.
2. The shop drawing is based on the latest design.
3. The architect' s and structural engineer' s comments from any previous submittals are addressed.
4. The work is coordinated among all construction trades.
5. Revisions from previous submittals are clearly marked by circling or clouds.
6. Submittal is complete.
7. Submittal does not include substitution request
8. Submittal shall include a stamp indicating project name and location, submittal number, specification section number.

The structural engineer shall return, without comment, submittals which the contractor has not stamped or which do not meet the above requirements. The structural engineer' s review of submittals shall be for general conformance with the design intent. No work shall be started without such review.

The structural engineer will return the shop drawing items within ten working days after having received the reproducible shop drawing.

SHOP DRAWINGS SUBMITTAL

The Contractor shall prepare detailed shop drawings to enable all parts of the work to be fabricated and constructed in accordance with the drawings and specifications. These shop drawings will be reviewed for general compliance with the design intent only. The contractor is responsible for all dimensions, accuracy and fit of the work.

All shop drawings shall be reviewed by the contracted prior to submittal to the structural engineer. Drawings without the contractor's review will be returned without review.

Work requiring submittals for structural engineer review shall not be started by the contractor without appropriate reviewed submittals. Work performed by the contractor prior to receiving appropriate received submittals shall be subject to removal and replacement as deemed necessary by the structural engineer, at the contractor's expense, and with no cost to the owner

Submit shop drawings for each of the following items:
1. CONCRETE MIX DESIGNS
2. STRUCTURAL STEEL
3. REINFORCING STEEL - FOUNDATIONS
4. REINFORCING STEEL - CONCRETE MASONRY UNITS (SUBMITTAL SHALL INCLUDE PLAN VIEW, WALL ELEVATIONS AND WALL SECTIONS)
5. EMBEDDED ITEMS
6. METAL DECK
7. STEEL JOISTS
8. PRECAST HOLLOW CORE WALLS
9. PRECAST STAIRS
10. COLD-FORMED STEEL
11. CONCRETE MASONRY UNITS

017900 DEMOLITION NOTES

All shoring shall be in place before demolition begins.

It is the Contractor's responsibility to select the appropriate shoring system for the loads and work indicated.

Reactions and forces indicated for shoring are actual, working loads.

If Drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern. Contractor shall bring all discrepancies to the attention of the engineer immediately.

Verify all existing conditions prior to any demolition, construction or fabrication. If different than shown, notify engineer/architect immediately for modification of drawings.

All contractors are required to coordinate their work with all disciplines to avoid conflicts. The architectural, mechanical, electrical and plumbing aspects are not in the scope of these drawings. Therefore, all required materials and work may not be indicated. It is the contractor's responsibility to coordinate these drawings with all other construction documents. Refer to architectural drawings for all dimensions not shown on these drawings. Locations, sizes and numbers of all openings may not be completely indicated in the structural drawings, the respective contractor shall verify their work with all other disciplines.

The contract documents represent the structure only. They do not indicate the method of demolition, shoring or construction. The contractor shall provide all measures necessary to protect the structure during demolition and construction. The Engineer of Record is not responsible for the contractor's means, methods, techniques, sequences or safety procedures during construction.

020000 SHALLOW FOUNDATION AND SLAB ON GRADE NOTES

Soil to be stripped, compacted and tested in accordance with the recommendations of the soils engineer and project specifications.

Footings shall be placed on firm, undisturbed soil or on engineered fill. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

Slabs shall be placed on 6" compacted, free-draining, frost-free drainage course. Drainage Course: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve. All fill shall be compacted to a minimum dry density of 95% of the Modified Proctor maximum dry density (ASTM-D698), placed in 6" to 8" lifts. Pea gravel may not be used as fill. Utility trenches and excavations under the foundations or slabs shall meet the same requirements. See soils investigation report for further recommendations.

Undercutting of the soil for foundation and/or slab placement may be required. These drawings do not indicate the entire scope of undercutting, fill or bad soil removal that may be required to attain the design soil bearing pressures. It is the responsibility of the contractor to obtain a soils investigation report, before bidding, to assess the extent of excavation and compaction that may be required to meet the design criteria. The contractor shall retain the services of a soils engineer to monitor all backfilling operations and to inspect footing bearing material. A report certified by the soils engineer shall be furnished to the architect/engineer verifying that all foundations were placed on a material capable of sustaining the design bearing pressures.

If dewatering is required, sumps shall not be placed within the foundation excavation.

Maintain a maximum slope between adjacent footing bearing elevations of 2 horizontal to 1 vertical. Maintain a 2 horizontal to 1 vertical slope next to existing foundations to avoid undermining foundations.

No horizontal joints are permitted in any foundation. Vertical joints are permitted only in wall footings.

Shallow foundations may be earth-formed where the excavation permits. If earth-forming is used, add 2" to the width and length of all foundations.

The bottom of all foundations shall be a minimum of 36" depth below final grade.

033000 CAST IN PLACE CONCRETE NOTES (Foundations, Slabs, & Walls)

See concrete mix schedule for mix design requirements.

All reinforcing shall conform to the following concrete cover:

COVER	LOCATION
3"	Foundations & Footings: All surfaces; Exterior Slabs: Bottom; Grade Beams & Trench Footings: All surfaces; All concrete cast against soil.
2"	Exterior Walls, All Piers & All Pilasters: All surfaces; Interior Slabs: Top; All exterior concrete
1 1/2"	Interior beams & columns: All surfaces; All concrete not exposed to weather or in contact with ground.
3/4"	Interior slabs, Walls & joists

Welded Wire Reinforcement (WWR) for slabs and fill for metal deck shall be placed in the upper-third of the slab or fill. See details.

All reinforcing steel shall be detailed, supplied and placed in accordance with ACI 315, ACI 318 and CRSI MSP-1.

All reinforcing steel shall be shop fabricated and, where applicable, shall be wired together and conform to ASTM A-615, Grade 60.

Chamfer edges of exposed concrete 3/4", unless noted otherwise.

Contractor shall make four, 6"x12" test cylinders for each 50 cubic yards of concrete poured for each days operation. Break 1 at 7 days, 2 at 28 days and retain spare.

All welded wire fabric shall conform to ASTM A1064, Fy(min) of 65 ksi. All welded wire fabric laps shall be 8".

All finished concrete, concrete formwork and falsework shall be in accordance with ACI 301. Contractor is solely responsible for the design and construction of all formwork, falsework and shoring.

Provide sleeves for all openings in grade beams or walls to totally separate pipe from concrete.

Foundations may be earth-formed where the excavation permits. If earth-forming is used, add 2" to the width, length & thickness of all foundations.

Plastic Vapor Retarder: ASTM E 1745, Class A, not less than 10 mils (0.25 mm) thick, see specifications. Include manufacturer's recommended adhesive or pressure-sensitive joint tape.

Adhesive Anchors and Adhesives Used for Reinforcing Anchorage:
1. The adhesive anchor system used for post-installed anchorage to concrete shall conform to the requirements of the most recently published ACI 355.4.
2. Adhesive anchors indicated are the Basis-of-Design. Approved equal meeting ACI 355.4 is permitted.
3. Bulk-mixed adhesives are not permitted.
4. Anchors shall be supplied as an entire system with manufacturer's recommendations adhered to.
5. Adhesive anchors shall be installed by qualified personnel trained to install adhesive anchors.
6. Installation of adhesive anchors horizontally or upwardly inclined shall be performed by personnel certified by the ACI/CRSI Adhesive Anchor Installer Certification program.
7. Adhesive anchors installed in horizontal or upwardly inclined orientations shall be continuously inspected during installation by an inspector specially approved for that purpose.

Bonding agent for bonding fresh concrete to hardened concrete: ASTM C 1059/C 1059M, Type II, nonredispersible, acrylic emulsion or styrene butadiene.

034101 PRECAST PRESTRESSED CONCRETE ELEMENTS NOTES

Delegated Design: A Specialty Structural Engineer (SSE), registered in the state of the project, shall be responsible for the structural design of all precast concrete design, products and systems complying with specific performance and design criteria indicated.

The minimum 28 day compressive strength of all precast elements shall be 5000 psi.

See architectural drawings for all architectural finishes, textures, reveals, etc. All embeds may not be indicated on structural drawings. See other trade drawings for required embeds.

Coordinate with Architectural, Mechanical, Electrical, Plumbing, Civil plans for openings and penetrations to be cast into pre-cast elements.

The layout and arrangement of all precast elements is schematic in nature and is intended to show the scope of the precast system. The precast manufacturer is responsible for the final layout, size, spacing etc. of all precast elements and connections.

Precast connections shown are schematic in nature. Final detail and design is the responsibility of the precast manufacturer.

The precast manufacturer or erector is responsible for all temporary bracing that may be required until the lateral load resisting systems for the building are complete and has attained their design capacity.

All precast elements shall be capable of supporting their own weight as well as specified loadings and reactions indicated.

If applicable, camber all beam elements per PCI standards.

042000 MASONRY AND REINFORCED MASONRY NOTES

Minimum 28 day compressive strength of concrete masonry units shall be 2000 p.s.i. based on net area of the unit. Specified design compressive strength of masonry shall be f'm = 2000 p.s.i. All units for exterior walls, load-bearing walls and shear walls shall be normal weight block.

All mortar shall be Type S. No admixtures may used unless approved by architect/engineer. Mortar shall not be used for grouting cores or filling bond beams.

Lay masonry units in running bond uno with units designed to align with webs on each course.

Course grout shall be used where grouting is required. Slump shall be 8" +/- 1". Minimum grout compressive strength shall be 2000 p.s.i.

All reinforcing shall be ASTM A615 Grade 60 (Fy=60 ksi). Lap all reinforcing a minimum of 48 bar diameters.

Center vertical reinforcing in block cores, unless noted otherwise.

See architectural and specifications for all control joint locations. Reinforcing in bond beams shall be discontinuous at control joints.

Provide ladder type horizontal joint reinforcement at 16" o.c. typical and 8" o.c. for parapets and below ground floor elevation. Side rods and cross rods shall be #9 wire, galvanized, see specifications. Cut joint reinforcement at control joints.

Provide "L" bars at all bond beam corners as required.

Fill cores of block solid with grout two full courses below the bearing of all beams or lintels supported on masonry.

All attachments to block shall be made with Hilti HLC 1/2" diameter x 3" sleeve anchors, unless noted otherwise. Anchors shall be installed per manufacturer's recommendations.

See typical schedules for masonry and steel lintels not indicated on plans.

Grout solid cores with reinforcement. Grout solid cells in below grade construction where masonry is in contact with soil.

Provide ties to all structural steel.

All interior, non-load bearing masonry walls over 12'-0" high, shall be supported on thickened slab as per typical detail. Wall vertical reinforcing shall be #5 @ 48" OC full height. Unless noted otherwise.

Place grout by low-lift method. Maximum grout pour shall be 5 feet.

051200 STRUCTURAL STEEL NOTES

All structural steel shall conform to the following:

W Shapes	ASTM A992, Grade 50.
Angles, Channels, Plates, Bars	ASTM A36 (Fy=36 ksi)
HSS Tubes	ASTM A500, Grade C (Fy=50 ksi)
HSS Rounds	ASTM A500, Grade C (Fy=46 ksi)
Anchor Rods	ASTM F1554, Grade 36

All steel shall be detailed, fabricated and erected in accordance with:
- AISC 360 "Specification for Structural Steel Buildings", Allowable Strength Design (ASD)
- AISC 303 "Code of Standard Practice"

Submit connections not specifically detailed on the drawings to the SER for review prior to review of shop drawings. Where no shear is indicated on drawings design connection for minimum 10 k reaction and where no moment is indicated on drawings provide full moment capacity of member per ASD Design Requirements.

All bolted connections shall be made with 3/4" diameter, A325 bolts with nuts and washers, unless otherwise noted. All connections shall be shear bearing connections tightened to snug-tight condition, unless otherwise noted.

All shop and field welds shall be made using E70 electrodes or equivalent.

Splices shall be allowed only at locations specifically indicated on the structural drawings unless approved otherwise by the SER in writting.

For steel members and embedments exposed to weather, provide hot-dipped galvanized finish, uno.

Provide holes in all steel as required to provent any accumulation of water. All penetrations through main members shall not exceed 1 1/8" dia. and shall be ground smooth. These drains must be kept clean and open.

Field modification of structural steel is prohibited without prior approval of the architect and structural engineer.

Steel fabricator shall obtain the size and location of all openings for grilles, louvers, etc. before proceeding with the fabrication and erection of any required frames.

Provide Heckman #129 and #130 channel slot anchors and channel slot at all columns that abut masonry walls, uno.

Provide temporary bracing of the structure until all permanent lateral support is in place.

Structure Stability: The entire roof and/or floor decking materials must be fully erected and connected to the supporting steel before temporary, erection bracing is removed.

RD = Roof Drain location. Provide steel frame for drains. See other drawings for actual drain type, number, size, etc. Coordinate with drain contractor.

Remove erection bolts and fill holes in all exposed braces.

052100 STEEL JOIST NOTES

Provide all joists, bridging and accessories for the complete erection of joists in accordance with the current Steel Joist Institute "STANDARD SPECIFICATIONS AND LOAD TABLES FOR OPEN WEB STEEL JOISTS AND JOIST GIRDERS" and Underwriters Laboratories "STANDARD, FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS".

Bridging shall be completely erected and joists aligned before any construction loads are placed on joists.

Do not weld bottom chord of joists to columns unless noted on drawings.

Install erection bolts at all joist girder to column and joist to column connections.

Where ballasted roofing is not shown on architectural drawings, provide uplift bridging at all joists as per "STANDARD SPECIFICATIONS AND LOAD TABLES FOR OPEN WEB STEEL JOISTS AND JOIST GIRDERS" for a net uplift load of 20 psf, unless noted or shown otherwise.

053100 STEEL DECK NOTES

All metal deck material, fabrication and installation shall conform to Steel Deck Institute" SDI SPECIFICATIONS AND COMMENTARY" and "CODE OF RECOMMENDED STANDARD PRACTICE", Current edition, unless noted.

FASTENING DECK
1. Roof deck shall be welded using 5/8" diameter puddle welds, 36/4 pattern with (1) #10 TEK sidelap fastener unless otherwise shown in typical detail or indicated on drawings.
2. Floor deck shall be welded using 3/4" diameter puddle welds, 36/4 pattern unless otherwise shown in typical detail or indicated on drawings.

Provide TS 2 1/2x 2 1/2x 1/8 deck support, field welded to joist or beam at all deck span changes.

Provide L3x3x1/4 deck support at all columns where required, unless noted.

Provide 20 gauge cover plate at all roof deck span changes.

Provide L3x3x1/4 at all unsupported edges of deck and around roof perimeter, unless otherwise noted.

All deck shall be provided in a minimum of 3-span lengths where possible.

054000 COLD FORMED STEEL FRAMING NOTES

All light gage, cold formed steel (CFS) members shall conform to the following unless otherwise indicated on drawings, and AISI S100 current edition:

TYPE	SIZE	SPACING	GRADE
Exterior Wall Studs	600 S 162-54	16" oc, u.n.o.	ST33H (33 ksi)
Interior Load-Bearing Studs	600 S 162-54	16" oc, u.n.o.	ST33H (33 ksi)

All sheet steel shall comply with ASTM A1003. Coating shall be G90 galvanizing.

Provide steel tracks complying with ASTM C955, thickness to match studs, 2" flange width.

Provide 1/2" ASTM F1554, Grade 36 hooked anchor bolts at all steel tracks, u.n.o. Anchor bolt spacing = 48" OC, u.n.o. Provide anchor bolt at 8" from the ends of all walls, uno.

All cold formed steel members shall comply with the requirements of the latest AISI Specification.

Field welding is not permitted. Provide screwed connections.

For all non-load bearing studs, provide deflection clips isolating the stud from the primary structure.

Provide 5/8" plywood sheathing on outside face of all exterior wall studs.

316217 HELICAL PILE-ANCHOR NOTES

All piles/anchors shall meet or exceed the following minimum criteria, unless noted.
Capacities shown are ASD (working):

Soils report by:	Alt & Witzig Engineering, Inc. No. 25IN0492
Compression:	50 k
Tension:	25 k
Base bid length:	25 ft below existing ground surface

All Helical piles and anchors shall have galvanized steel shafts.

All piles shall be designed and installed by a specialty engineer to provide the resistance indicated on the pile layout plan, or, as indicated above. Submit calculations for review to the architect and structural engineer.

Contractor shall have a soils engineer on site to keep placement logs and verify pile capacities. All logs and reports shall be certified by the soils engineer and copies provided to the architect and structural engineer.

Extend helical piles and anchors into bottom of caps, grade beams, as shown in typical details. Provide manufacturers standard pile head suitable to transfer reactions. Notify EOR immediately if dimensions vary from size indicated.

Basis of Design Product: Pile spacing and anchorage based on the following:

Manufacturer:	A.B. Chance
Shaft:	SS 200
Bolts and Welds	Match capacity of shaft and cap

All bolted connections field modified to field welded connections: See specifications for requirements.

ABBREVIATIONS LIST

AR	ANCHOR RODS	O/O	OUT TO OUT
ABV	ABOVE	OA	OVERALL
ACI	AMERICAN CONCRETE INSTITUTE	OC	ON CENTER
ADD'L	ADDITIONAL	OD	OUTSIDE DIAMETER
ADH	ADHESIVE	OF	OUTSIDE FACE
ADJ	ADJACENT	OH	OVER HEAD
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	OPNG	OPENING
		OPP	OPPOSITE
AFF	ABOVE FINISHED FLOOR	OPP HD	OPPOSITE HAND
AGGR	AGGREGATE	OSB	ORIENTED STRAND BOARD
AHU	AIR HANDLING UNIT	OSL	OUTSTANDING LEG
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	OVS	OVERSIZE HOLE
		PAF	POWDER ACTUATED FASTENER
AISI	AMERICAN IRON AND STEEL INSTITUTE	PC	PRECAST
		PL	PLATE
ALUM	ALUMINUM	PLF	POUNDS PER LINEAR FOOT
ALT	ALTERNATE	PLYWD	PLYWOOD
APPROX	APPROXIMATE	PNL	PANEL
ARCH	ARCHITECT	PROJ	PROJECTION
ARCH'L	ARCHITECTURAL	PSF	POUNDS PER SQUARE FOOT
ASTM	AMERICAN INSTITUTE OF TESTING MATERIALS	PSI	POUNDS PER SQUARE INCH
		PSL	PARALLEL STRAND LUMBER
AWS	AMERICAN WELDING SOCIETY	PT	PRESSURE TREATED
L	ANGLE	PTN	PARTITION
BAL	BALANCE	R	RADIUS
BB	BOND BEAM	RD	ROOF DRAIN
B/B	BACK TO BACK	REF	REFERENCE
BC	BOTTOM CHORD	REINF	REINFORCE(D) (ING) (MENT)
BD	BOARD	REQ'D	REQUIRED
BLDG	BUILDING	REV	REVISION/REVISED
BLK	BLOCK	RO	ROUGH OPENING
BLW	BELOW	RRD	ROOF RELIEF DRAIN
BM	BEAM	RTN	RETURN
BOTT	BOTTOM	RTU	ROOF TOP UNIT
BP	BEARING PLATE	RW	RETAINING WALL
BRDG	BRIDGING	SCHED	SCHEDULE
BRG	BEARING	SECT	SECTION
BRK	BRICK	SHT	SHEET
BS	BOTH SIDES	SIM	SIMILAR
BSMT	BASEMENT	SJ	SAWCUT JOINT
BTWN	BETWEEN	SJI	STEEL JOIST INSTITUTE
BUC	BUILT UP COLUMN	SL	SLOPED
c	CAMBER	SPA	SPACE(S)
C/C	CENTER TO CENTER	SPECS	SPECIFICATIONS
CANT	CANTILEVER	SQ	SQUARE
CAIS	CAISSON	SS	STAINLESS STEEL
CFS	COLD FORMED STEEL	SSL	SHORT SLOTTED HOLES
CJ	CONTROL AND/OR CONSTRUCTION JOINT	STD	STANDARD
		STIFF	STIFFENERS
CL	CENTERLINE	STL	STEEL
CLR	CLEAR	STRUCT	STRUCTURAL
CMU	CONCRETE MASONRY UNIT	SYMM	SYMMETRICAL
COL	COLUMN	T&B	TOP AND BOTTOM
COORD	COORDINATE	T&G	TONGUE AND GROOVE
COMP	COMPACTED	TB	TIE BEAM
CONC	CONCRETE	TC	TOP CHORD
CONN	CONNECTION	TCX	TOP CHORD EXTENSION
CONST	CONSTRUCTION	TEMP	TEMPERATURE
CONT	CONTINUOUS	TF	TRENCH FOOTING
CONTR	CONTRACTOR	THK	THICK
CTR	CENTER	THKS	THICKENED SLAB
CTR'D	CENTERED	THR'D	THREADED
DIA	DIAMETER	TL	TOTAL LOAD
DIAG	DIAGONAL	TOP'G	TOPPING
DIM	DIMENSION	TRANS	TRANSVERSE
DL	DEAD LOAD	TYP	TYPICAL
DLT	DEEP LEG TRACK	UNO	UNLESS NOTED OTHERWISE
DO	DITTO	VERT	VERTICAL
DN	DOWN	VIF	VERIFY IN FIELD
DTL	DETAIL	w/	WITH
DWG	DRAWING	WD	WOOD
DWL	DOWEL	WO	WINDOW OPENING (MASONRY)
EA	EACH	WP	WORKING POINT
EE	EACH END	WT	WEIGHT
EF	EACH FACE	WWF	WELDED WIRE FABRIC
EJ	EXPANSION JOINT		
ENG	ENGINEER	**ELEVATION TOP AND BOTTOM OF LIST**	
ELEV	ELEVATION		
ELECT	ELECTRICAL	T/	"ELEVATION, TOP OF"
EOD	EDGE OF DECK	B/	"ELEVATION, BOTTOM OF"
EOS	EDGE OF SLAB	J/BRG	JOIST BEARING ELEVATION
EQ	EQUAL	T/BB	TOP OF BOND BEAM
EQUIV	EQUIVALENT	T/BM	TOP OF BEAM
ES	EACH SIDE	T/CONC	TOP OF CONCRETE
EW	EACH WAY	T/F	TOP OF FOOTING
EXIST	EXISTING	T/LDG	TOP OF LEDGE
EXP	EXPANSION	T/MAS	TOP OF MASONRY
EXT	EXTERIOR	T/P	TOP OF PIER
F/	FACE OF	T/SLAB	TOP OF SLAB
FD	FLOOR DRAIN	T/STL	TOP OF STEEL
FDN	FOUNDATION	T/W	TOP OF WALL
FIN	FINISH	T/GB	TOP OF GRADE BEAM
FLR	FLOOR	T/CAIS	TOP OF CAISSON
FLG	FLANGE	B/PL	BOTTOM OF PLATE
FS	FARSIDE	B/F	BOTTOM OF FOOTING
FTG	FOOTING		
GA	GAUGE	**SPECIAL CHARACTERS**	
GALV	GALVANIZED		
GB	GRADE BEAM	°	DEGREE
GC	GENERAL CONTRACTOR	±	PLUS OR MINUS
GL	GLULAM		ELEVATION
GR	GRADE	Ø	DIAMETER
HC	HOLLOW CORE		
HD	HOLD DOWN		
HGT	HEIGHT		
HI	HIGH		
HK	HOOK		
HORIZ	HORIZONTAL		
HP	HIGH POINT		
HS	HEADED STUD		
HSS	HOLLOW STRUCTURAL SECTION		
ID	INSIDE DIAMETER		
IF	INSIDE FACE		
INFO	INFORMATION		
INT	INTERIOR		
INV	INVERT		
JST	JOIST		
JT	JOINT		
K	KIP		
KO	KNOCK OUT		
LB	POUND		
LDG	LEDGE		
LG	LONG		
LL	LIVE LOAD		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LNTL	LINTEL		
LSL	LONG SLOTTED HOLES		
LONG	LONGITUDINAL		
LP	LOW POINT		
LVL	LAMINATED VENEER LUMBER		
MAS	MASONRY		
MAT'L	MATERIAL		
MAX	MAXIMUM		
MBM	METAL BUILDING MFR		
MCJ	MASONRY CONTROL JT		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MFR	MANUFACTURER		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MO	MASONRY OPENING		
MOM	MOMENT		
MSW	MASONRY SHEAR WALL		
MSL	MEAN SEA LEVEL		
MTL	METAL		
NO	NUMBER		
NS	NEAR SIDE		
NTS	NOT TO SCALE		

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

JESSICA KAY BARLOW REGISTERED No. PE11800818 STATE OF INDIANA PROFESSIONAL ENGINEER
01/30/2026

REVISIONS:			
Δ	#	Date	Desc.
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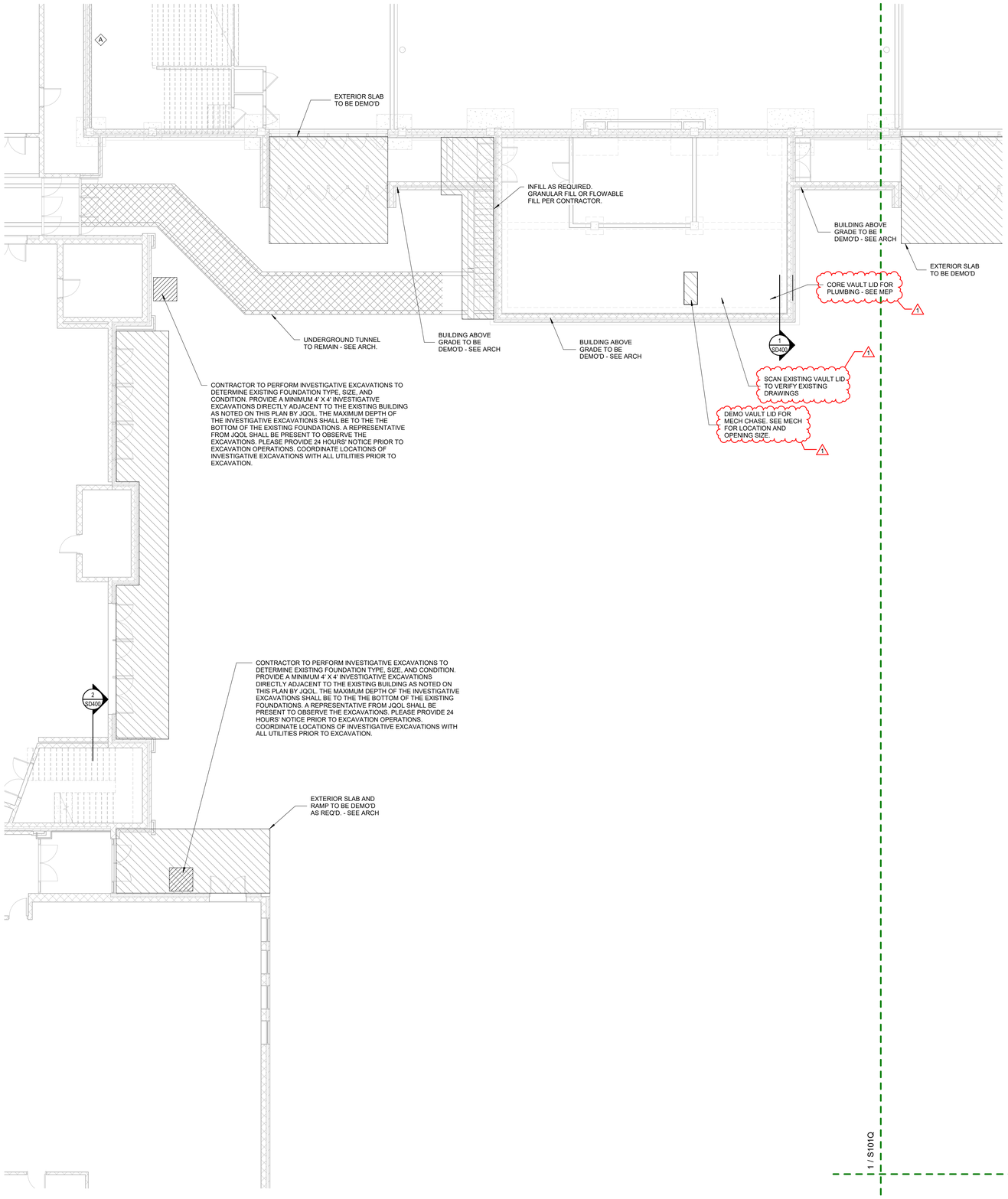
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PROJECT:	#24173S
DATE:	01/06/2026
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GENERAL NOTES & ABBREVIATIONS

S001

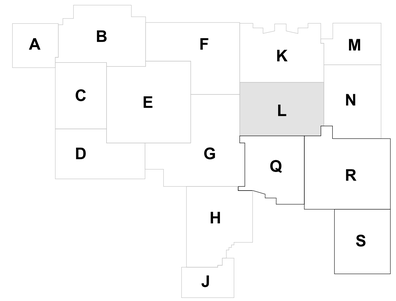
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Key Note Demo Plan Schedule	
#	NOTE
A	DEMO EXISTING BRICK AS NEEDED FOR NEW BEAMS.

UNIT Q DEMO PLAN

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



N

TRUE NORTH

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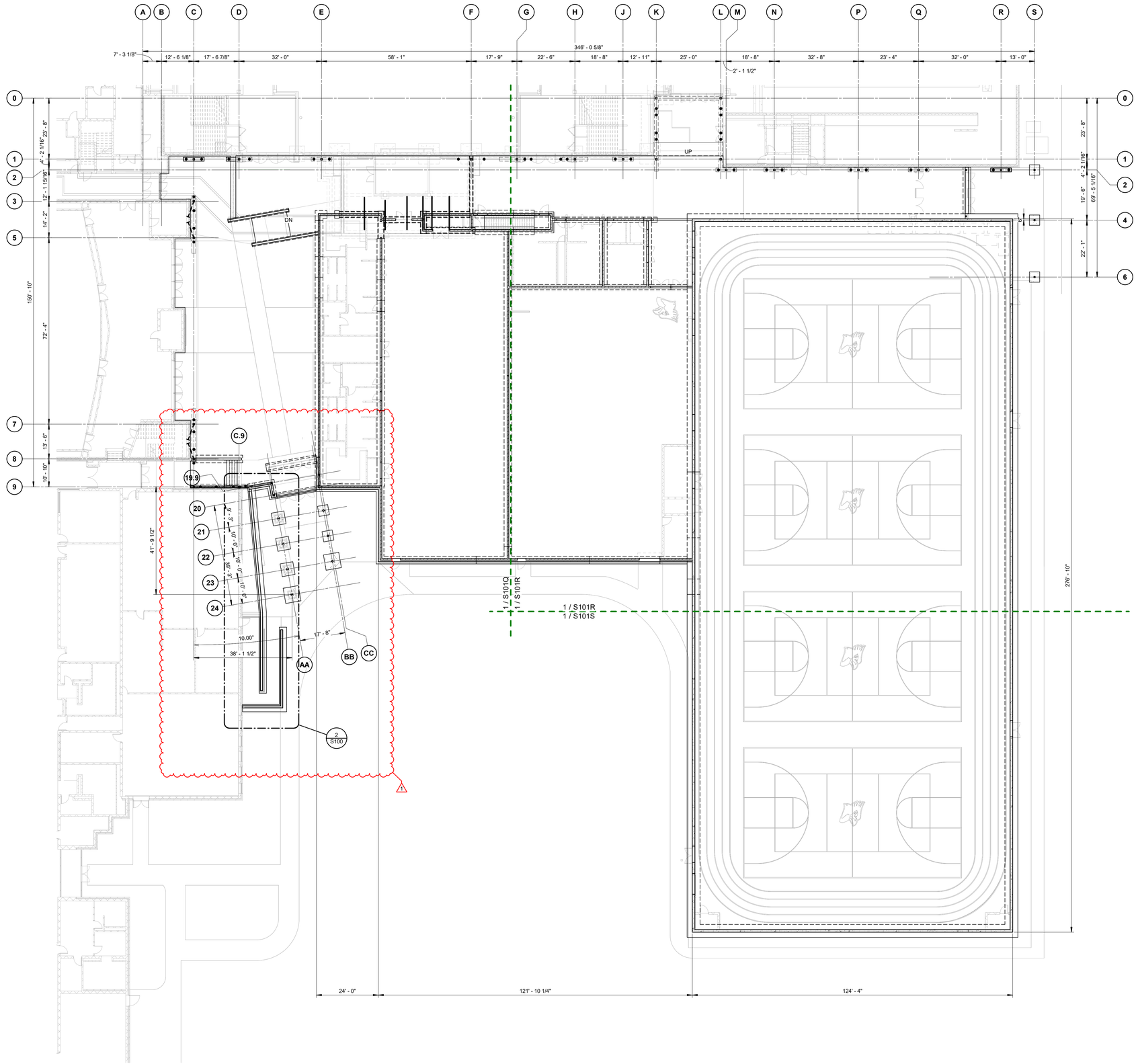
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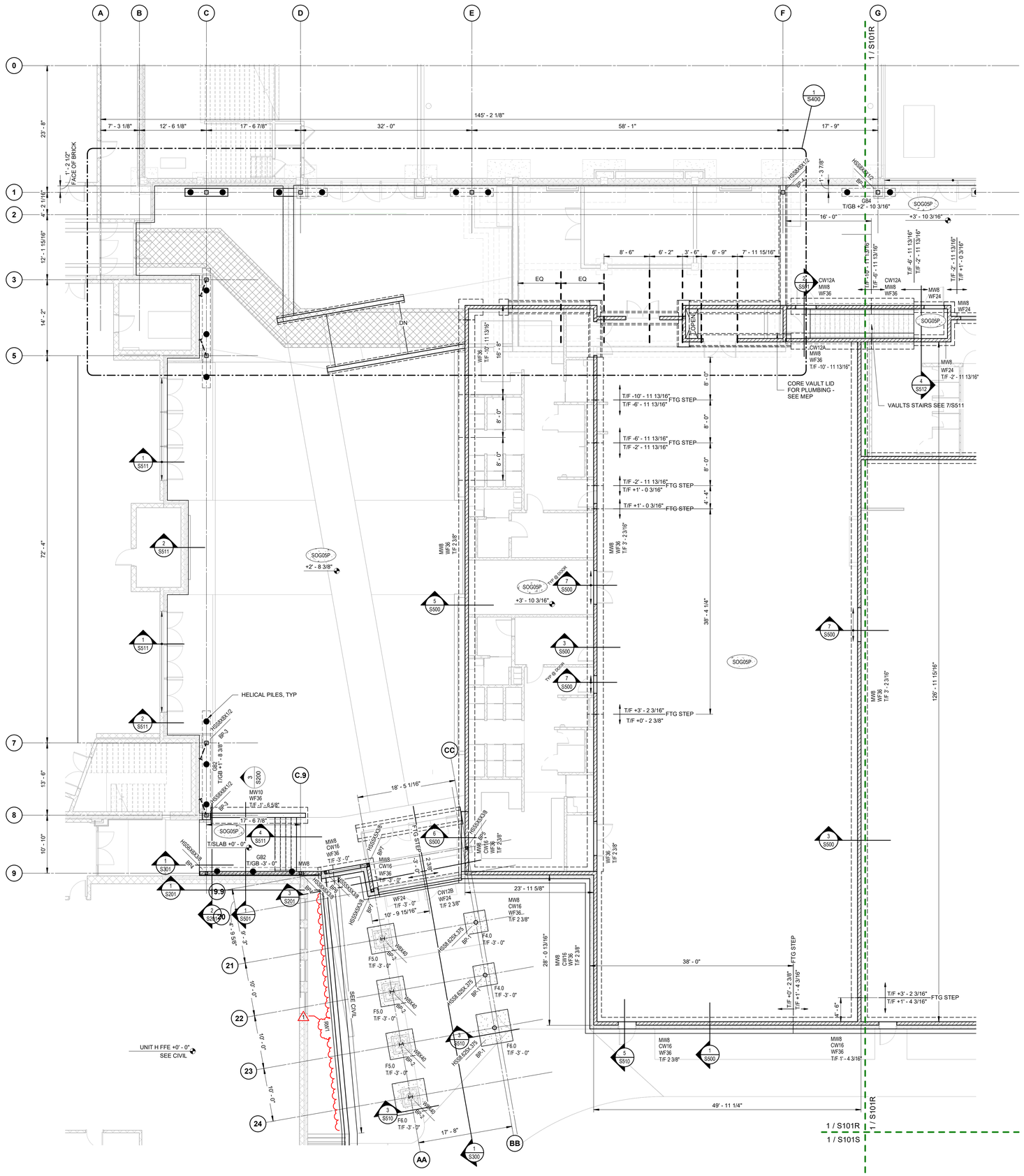
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DATE: 01/06/2026
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UNIT Q DEMO PLAN

SD101Q

PLOT DATE/TIME: 1/29/2026 4:05:11 PM


A B C D E F G H J K L M N P Q R S
346' - 0 5/8"
7' - 3 1/8"
12' - 6 1/8"
17' - 6 7/8"
32' - 0"
58' - 1"
17' - 9"
22' - 6"
18' - 8"
12' - 11"
25' - 0"
18' - 8"
32' - 8"
23' - 4"
32' - 0"
13' - 0"
2' - 1 1/2"
0 1 2 3 5 7 8 9
23' - 8"
4' - 2 1/16"
12' - 1 15/16"
14' - 2"
150' - 10"
72' - 4"
13' - 6"
10' - 10"
UP
DN
C.9
19.9
20 21 22 23 24
41' - 9 1/2"
5' - 0"
5' - 0"
5' - 0

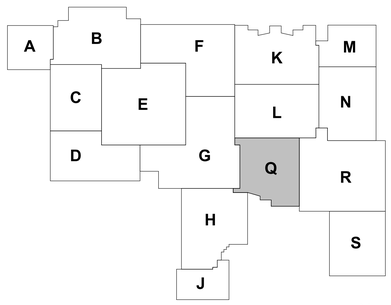


UNIT Q (S.A.C.) FIRST FLOOR

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

FOUNDATION PLAN NOTES:

1. REFERENCED ELEVATIONS ±, ARE FROM "UNIT H, FIRST FLOOR (0'-0"), SEE CIVIL DRAWINGS.
2. TYPICAL FIRST FLOOR ELEV +3'-10 3/16" (UNIT Q/R/S FIRST FLOOR).
3. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.



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1	1	01.30.2026	Addendum #1

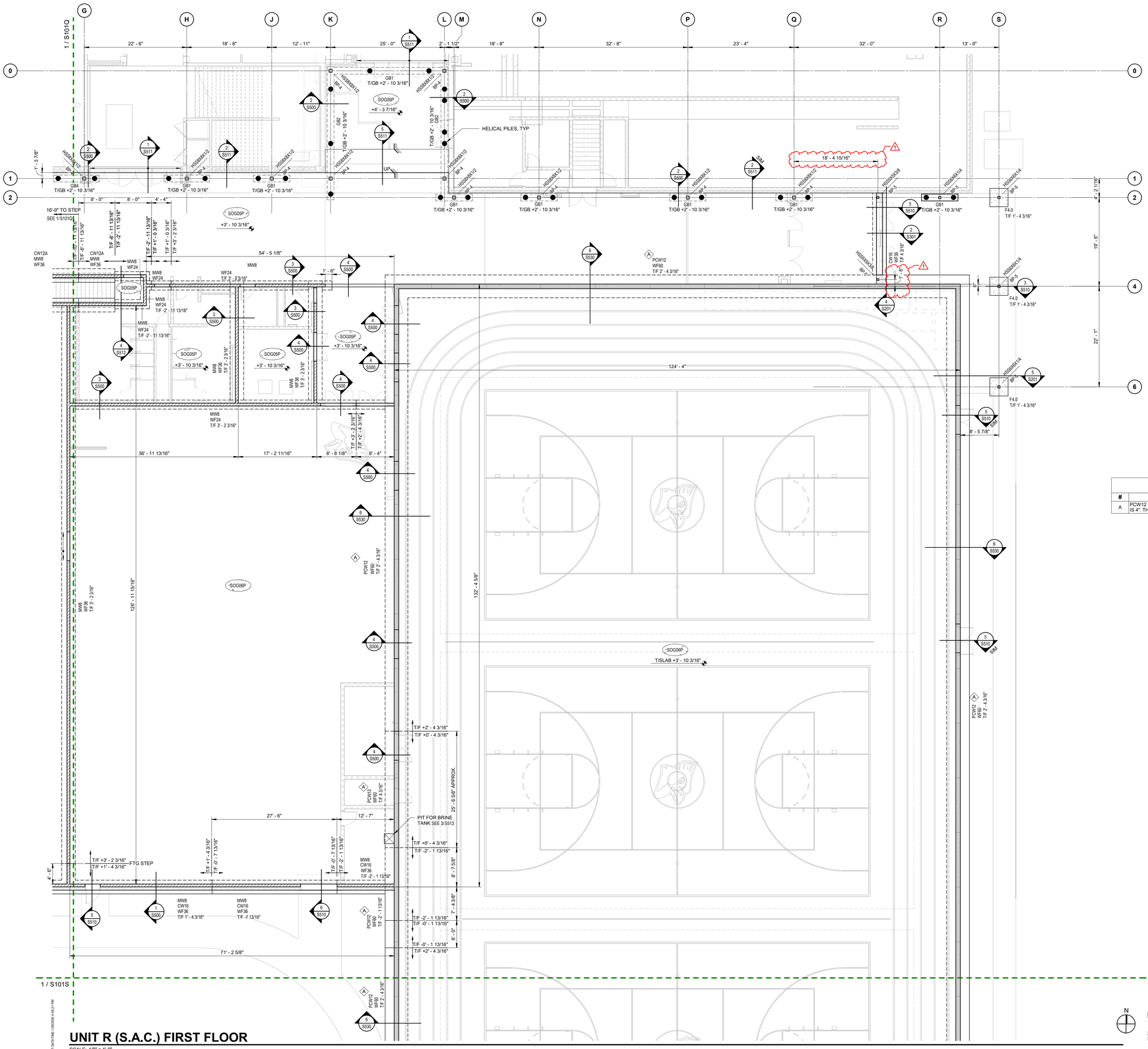
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PROJECT: #24173S
DATE: 01/06/2026
DRAWN BY: DWM/CMM

UNIT Q FOUNDATION PLAN

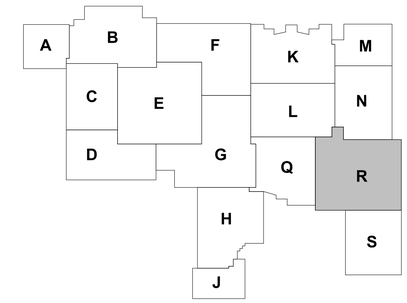
S101Q

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Key Note Foundation Plan Schedule

#	NOTE
A	PCW12 IS A 12 INCH PRECAST SANDWICH PANEL. THE OUTER WIDTH OF CONCRETE IS 4". THE INSULATION WIDTH IS 4". THE INNER WIDTH OF THE CONCRETE IS 4".



FOUNDATION PLAN NOTES:

1. REFERENCED ELEVATIONS ±, ARE FROM "UNIT H, FIRST FLOOR (0'-0"). SEE CIVIL DRAWINGS.
2. TYPICAL FIRST FLOOR ELEV +3'-10 3/16" (UNIT Q/R/S FIRST FLOOR).
3. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.

UNIT R (S.A.C.) FIRST FLOOR

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

PLOT DATE/TIME: 1/29/2026 4:05:21 PM

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

JESSICA KAY BARLOW
REGISTERED
No. PE11800818
STATE OF INDIANA
PROFESSIONAL ENGINEER
01/30/2026

Jessica Kay Barlow

REVISIONS:

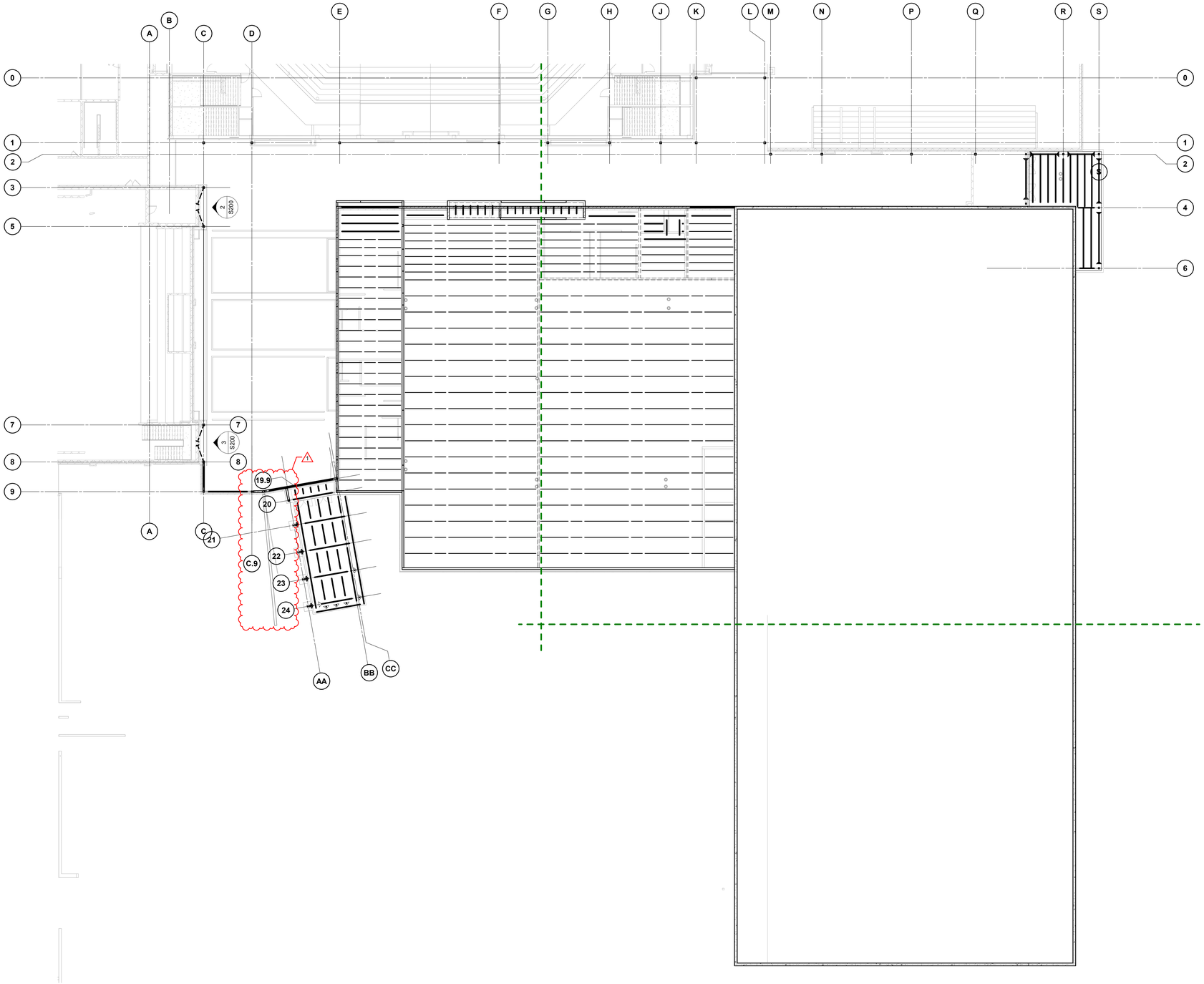
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1	01.30.2026	Addendum #1

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PROJECT: #24173S
DATE: 01/06/2026
DRAWN BY: DWM/CMM

UNIT R FOUNDATION PLAN

S101R

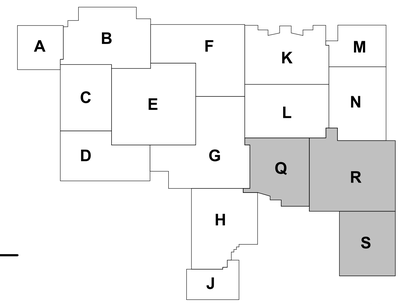


OVERALL ROOF FRAMING PLAN - STEEL BEARING 2 & CANOPIES

SCALE: 1/16" = 1'-0"

FRAMING PLAN NOTES:

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4. COORDINATE DECK AND SLAB OPENINGS - EXACT SIZE AND LOCATION, WITH MECHANICAL AND PLUMBING CONTRACTOR DRAWINGS AND EQUIPMENT SUPPLIER.
5. VERIFY EQUIPMENT SIZE, WEIGHT, AND LOCATION WITH MECHANICAL CONTRACTOR.
6. ALL TOP BEARING JOISTS SHALL HAVE A MINIMUM JOIST SEAT OF 5".
7. GC TO COORDINATE BOTTOM BEARING JOISTS WITH PRECASTER



LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

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SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

JERICA A.Y. BARLOW
REGISTERED
No. PE11800818
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PROFESSIONAL ENGINEER
01/30/2026

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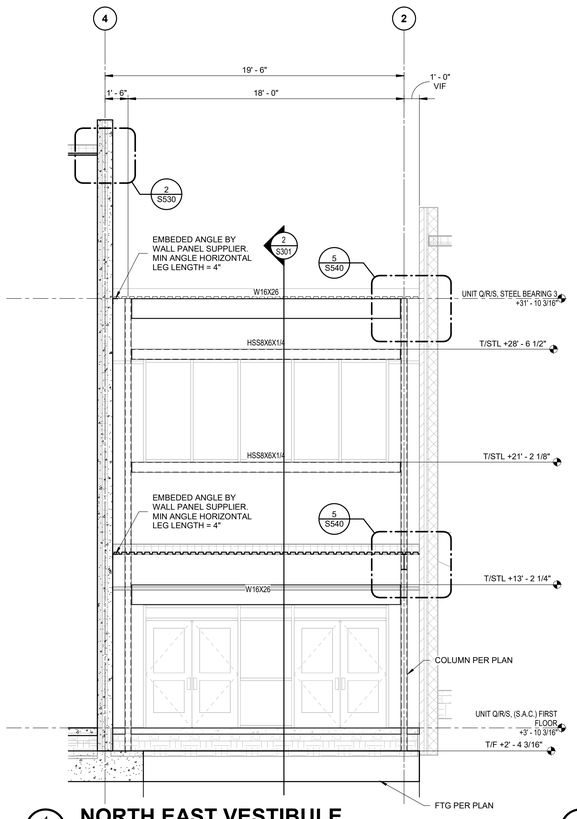
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DATE: 01/06/2026
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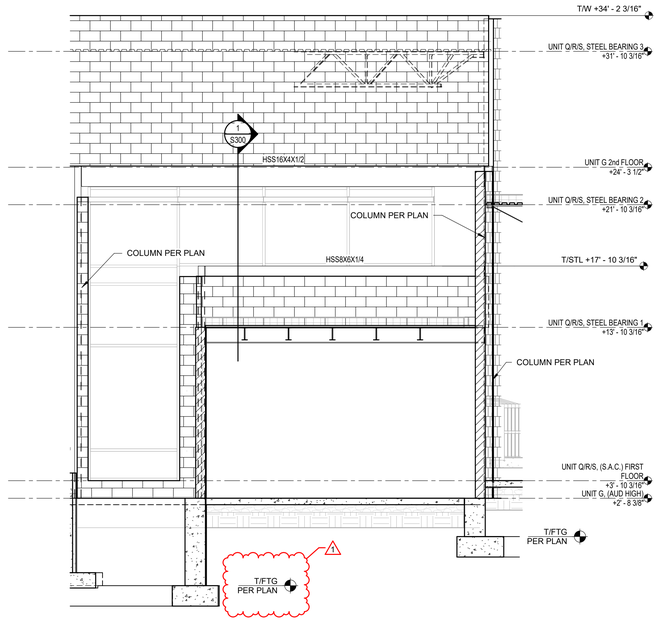
PHASE 1 - OVERALL ROOF FRAMING PLAN

S110

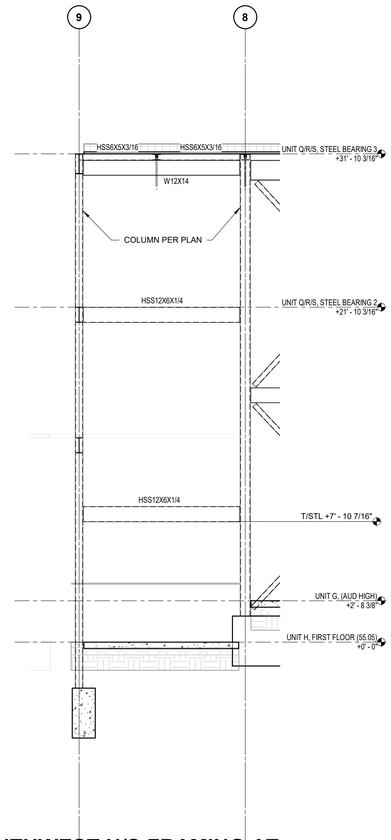
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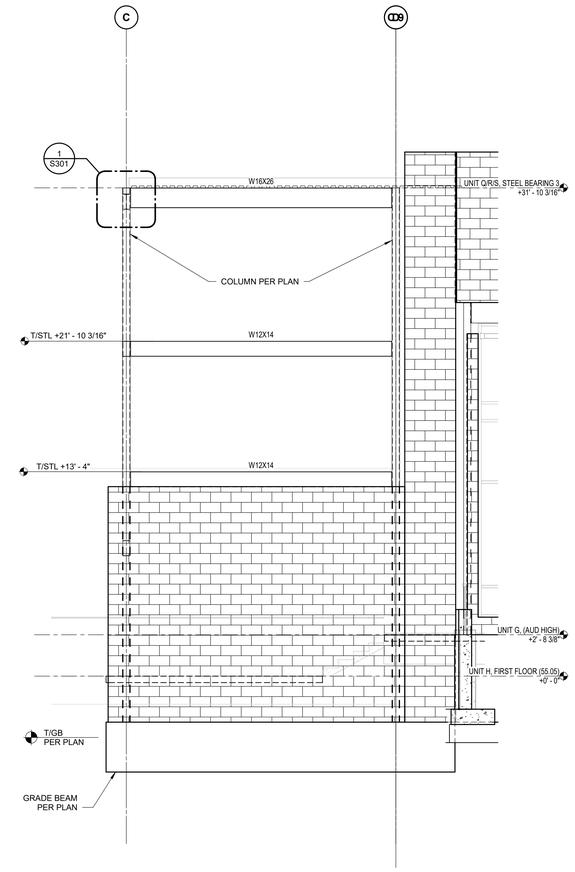
4 S201 **NORTH EAST VESTIBULE**
SCALE: 1/4" = 1'-0"



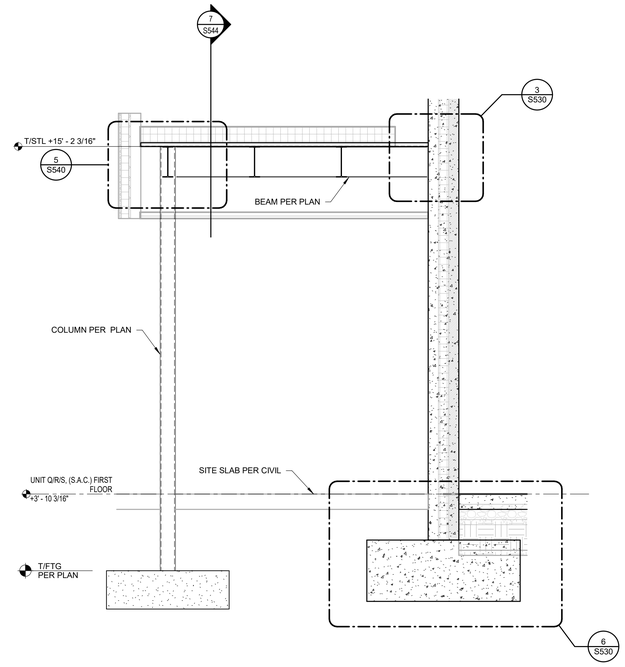
3 S201 **SOUTHWEST VESTIBULE**
SCALE: 1/4" = 1'-0"



2 S201 **SOUTHWEST N/S FRAMING AT EXISTING**
SCALE: 1/4" = 1'-0"



1 S201 **SOUTHWEST E/W FRAMING AT EXISTING**
SCALE: 1/4" = 1'-0"



5 S201 **NORTHEAST CANOPY**
SCALE: 1/2" = 1'-0"

PLOT DATE/TIME: 1/30/2026 4:49:35 PM

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
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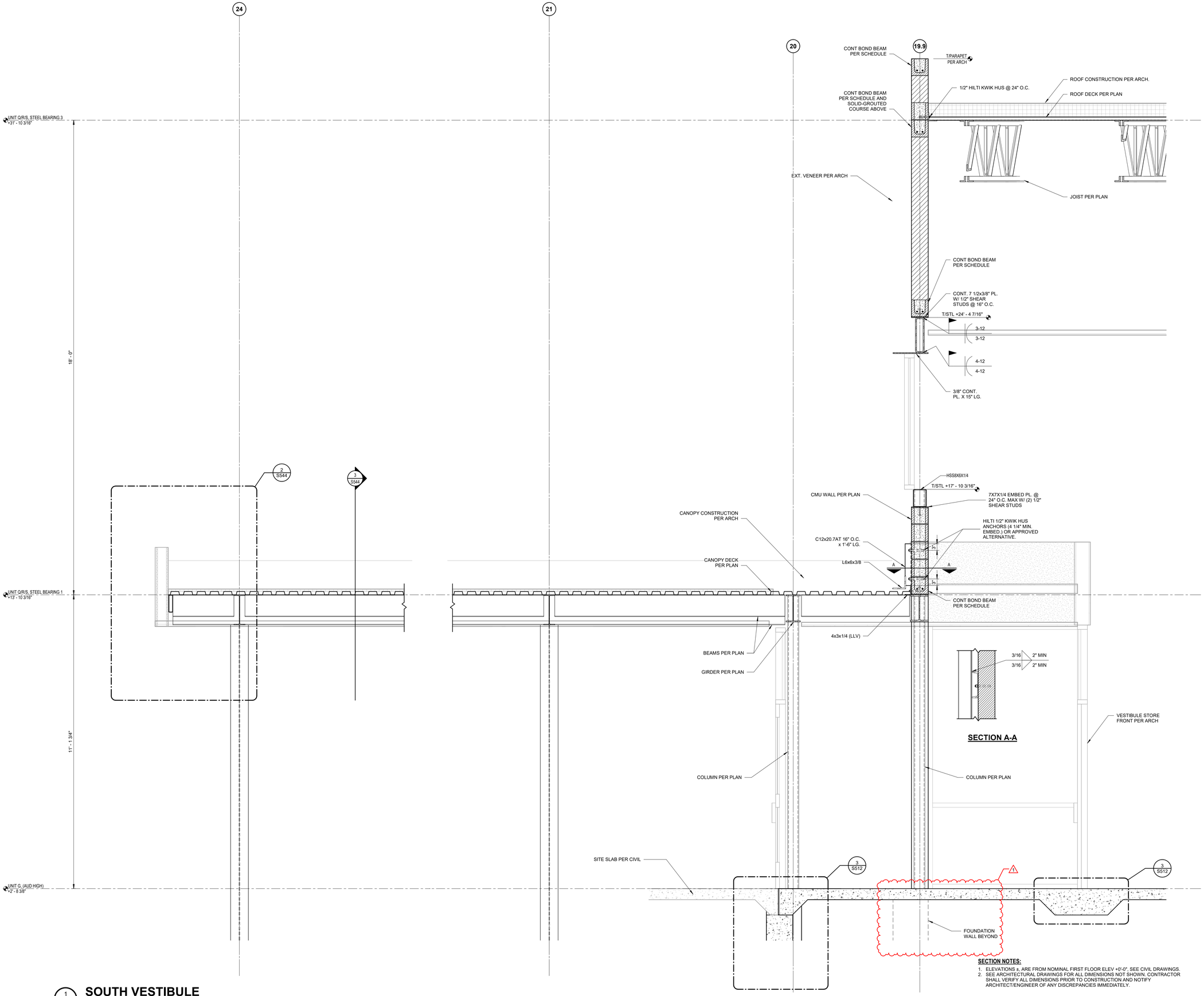
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PROJECT: #24173S
DATE: 01/06/2026
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FRAMING ELEVATIONS

S201



SECTION NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
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1 S300 **SOUTH VESTIBULE**

SCALE: 3/4" = 1'-0"

PLOT DATE/TIME: 1/29/2026 4:45:36 PM

LANCER ASSOCIATES ARCHITECTURE
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INDIANAPOLIS, IN 46204

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01/30/2026

Jesica Kay Barlow

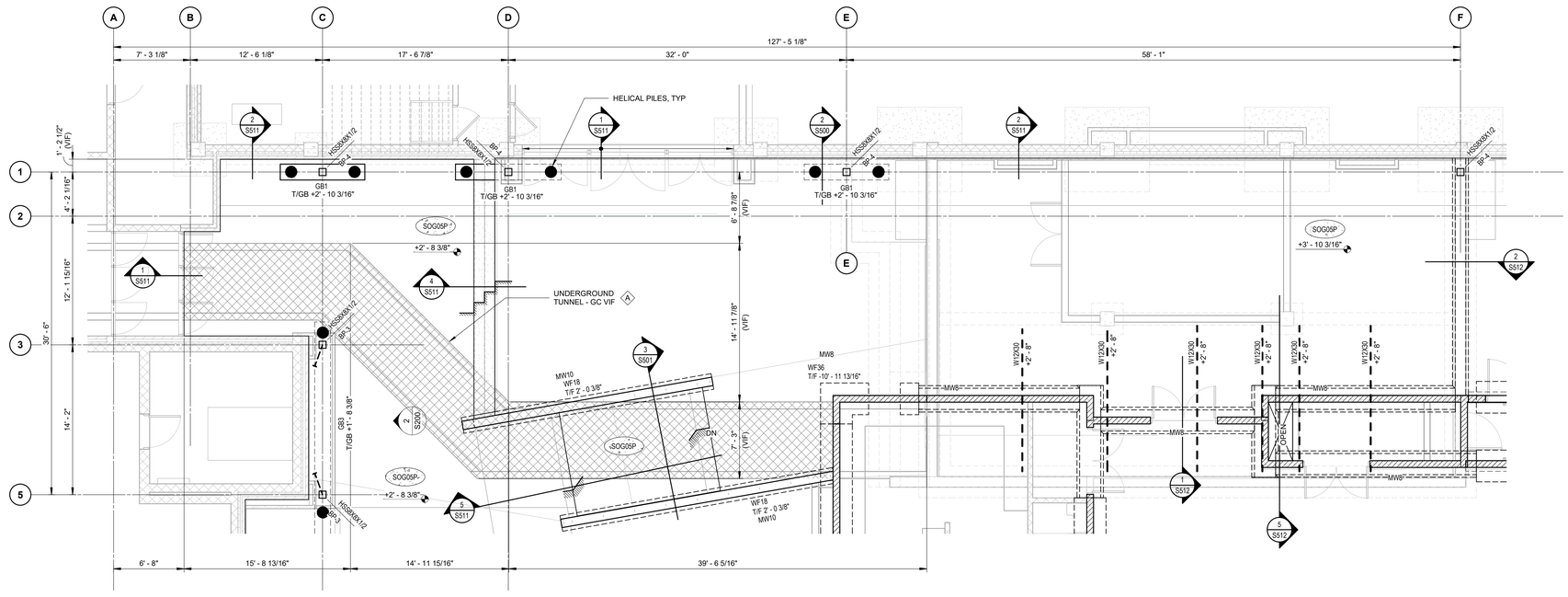
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	1	01.30.2026	Addendum #1

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PROJECT:	#24173S
DATE:	01/06/2026
DRAWN BY:	DWM/CMM

BUILDING SECTIONS

S300



VAULT/TUNNEL FOUNDATION PLAN

1 S400

SCALE: 3/16" = 1'-0"

N

FOUNDATION PLAN NOTES:

1. REFERENCED ELEVATIONS ±, ARE FROM "UNIT H, FIRST FLOOR (0'-0"). SEE CIVIL DRAWINGS.
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Key Note Plan Schedule

#	NOTE
A	GENERAL CONTRACTOR TO FIELD LOCATE AND DETERMINE DEPTH BELOW GRADE THE UNDERGROUND TUNNEL AND SHALL NOTIFY THE SEOR IF CONFLICT WILL OCCUR.

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
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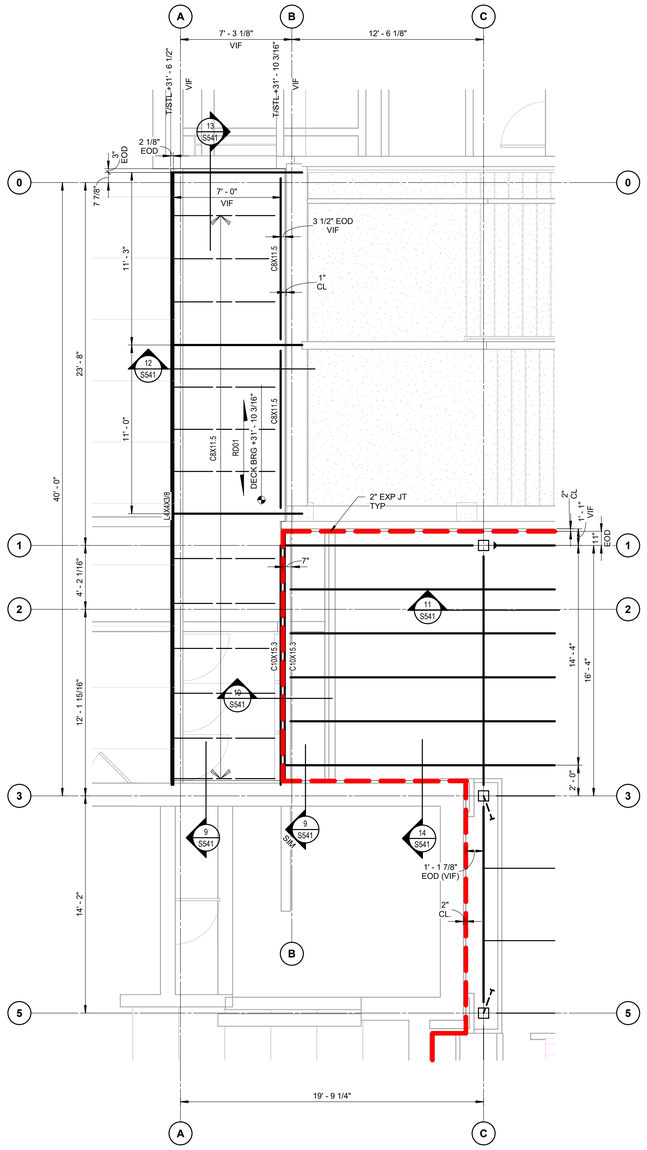
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DATE: 01/06/2026
DRAWN BY: DWM/CMM

ENLARGED FOUNDATION PLANS

N TRUE NORTH

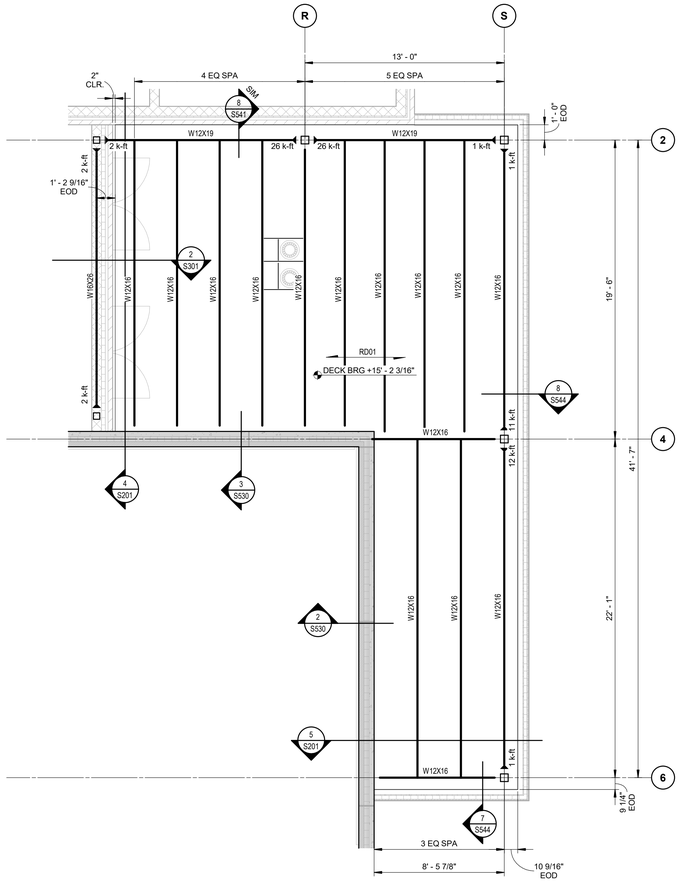
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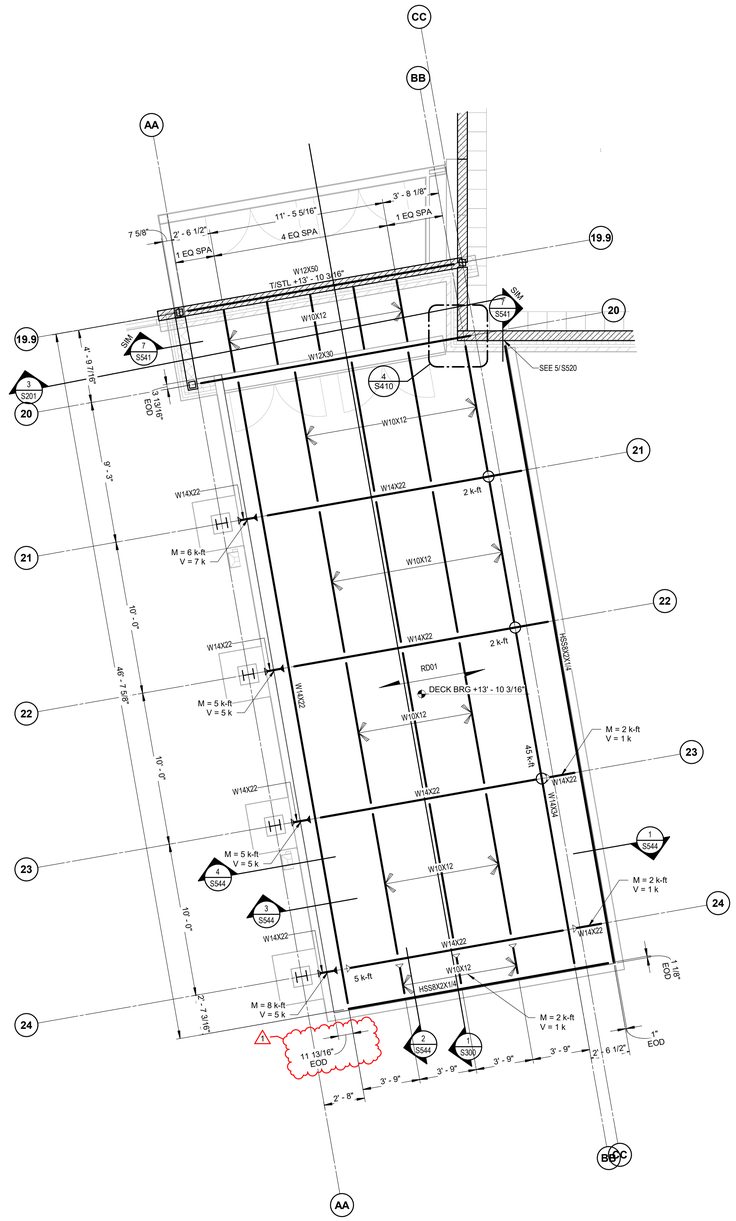
3 S410 NORTH WEST ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"



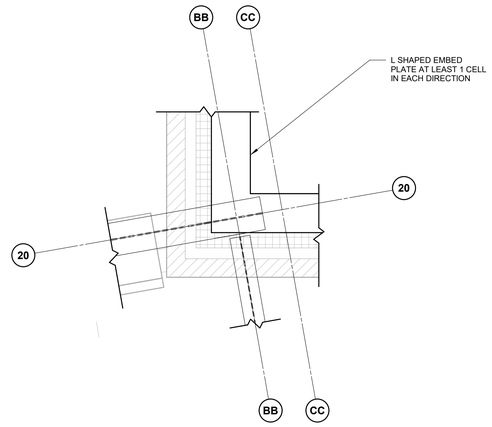
2 S410 NORTH CANOPY ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"



1 S410 SOUTH CANOPY ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"



4 S410 SOUTH CANOPY ROOF FRAMING PARTIAL PLAN

SCALE: 1" = 1'-0"

N

FRAMING PLAN NOTES:

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7. GC TO COORDINATE BOTTOM BEARING JOISTS WITH PRECASTER

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LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

JESSICA KAY BARLOW
REGISTERED
No. PE11800818
STATE OF INDIANA
PROFESSIONAL ENGINEER
01/30/2026
Jessica Kay Barlow

REVISIONS:

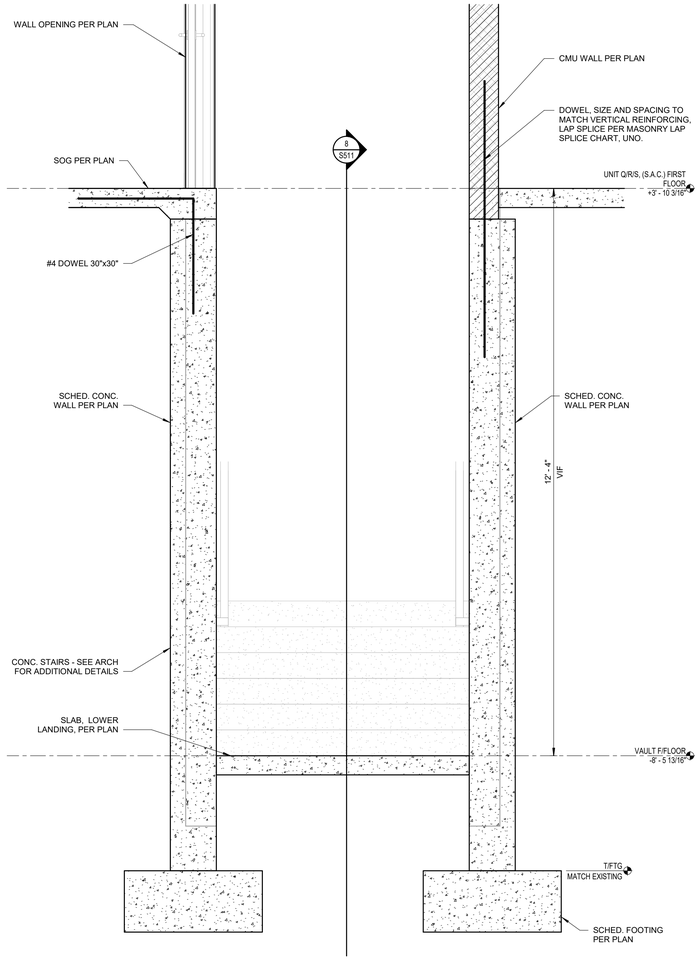
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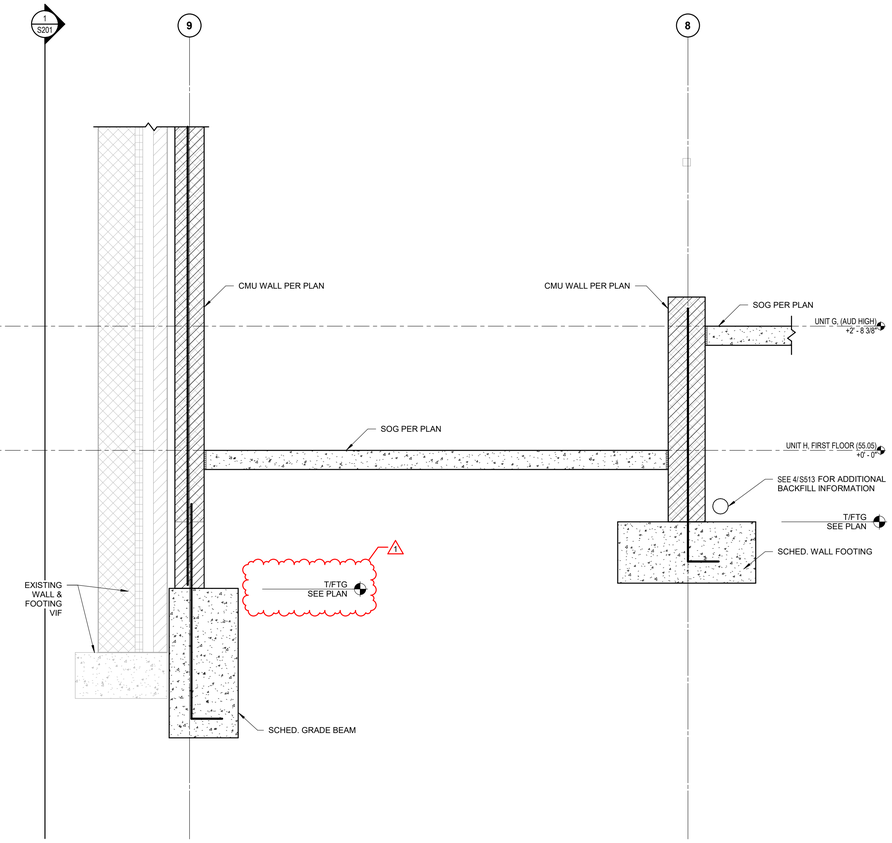
ENLARGED FRAMING PLANS

S410



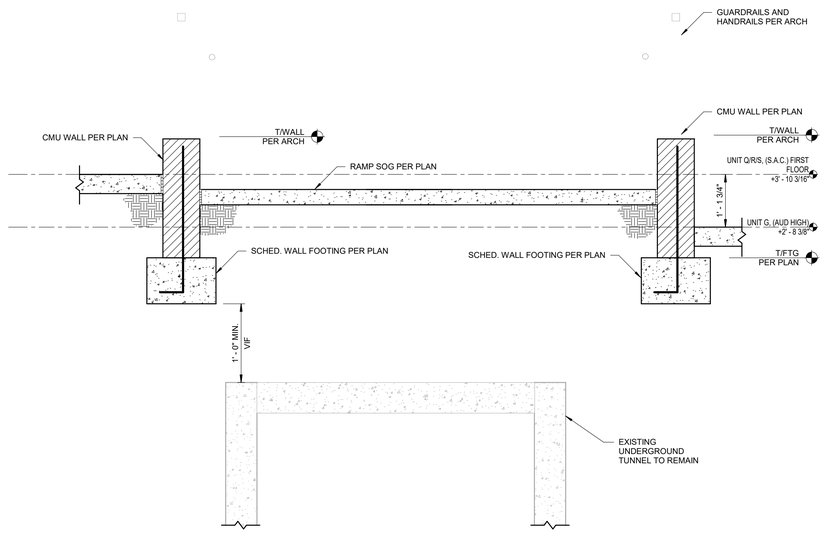
2 S501 VAULT STAIRWAY LOWER LANDING

SCALE: 3/4" = 1'-0"



1 S501 SOUTH STAIR TO EXISTING

SCALE: 3/4" = 1'-0"



3 S501 NORTHWEST RAMP

SCALE: 3/4" = 1'-0"

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145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

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JESSICA KAY BARLOW REGISTERED No. PE11800818 STATE OF INDIANA PROFESSIONAL ENGINEER
01/30/2026

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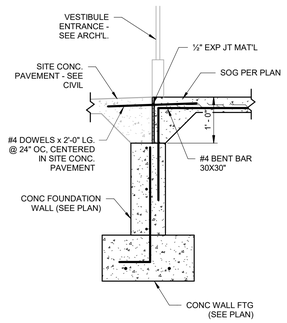
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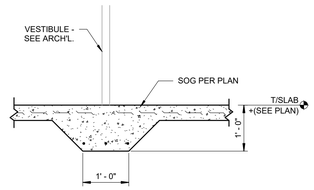
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FOUNDATION SECTIONS

S501

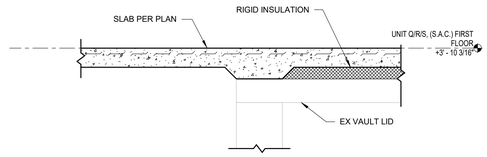
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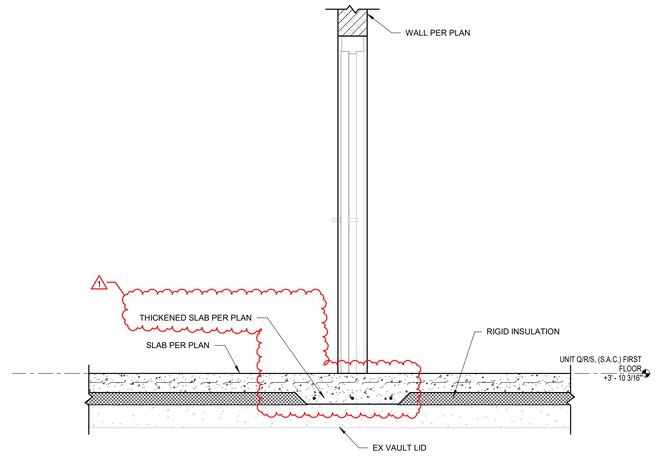
3 S512 VESTIBULE ENTRY FOUNDATION

SCALE: 3/4" = 1'-0"



2 S512 SOG TO SLOB ON VAULT LID

SCALE: 3/4" = 1'-0"

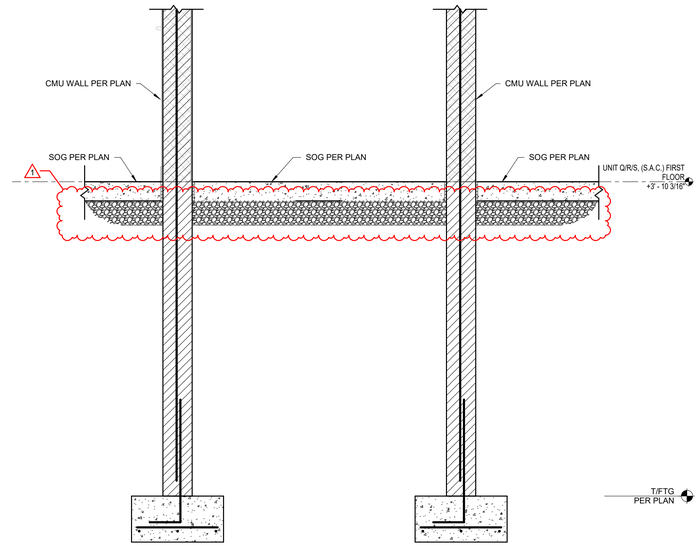


1 S512 CMU MANDOOR OPENING OVER EXISTING VAULT LID

SCALE: 3/4" = 1'-0"

5 S512 INTERIOR WALL OVER VAULT LID

SCALE: 3/4" = 1'-0"



4 S512 VAULT STAIRWAY UPPER LANDING

SCALE: 3/4" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

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971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

JESICA KAY BARLOW REGISTERED No. PE11800818 STATE OF INDIANA PROFESSIONAL ENGINEER
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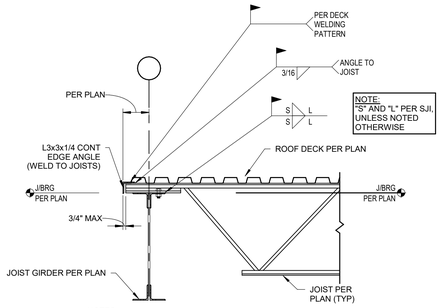
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PROJECT: #24173S
DATE: 01/06/2026
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FOUNDATION SCHEDULES, SECTIONS, & DETAILS

S512

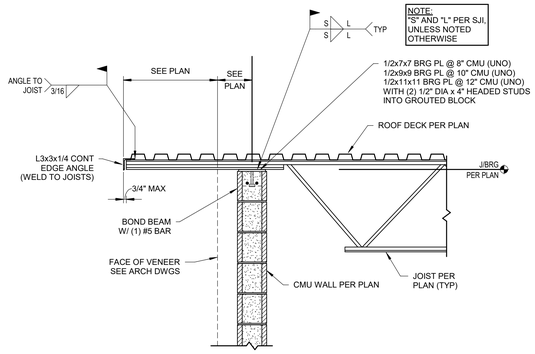
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NOTES:
1. IF JOIST IS AT SKEW TO EDGE ANGLE CLIP END OF JOIST SEAT TO MATCH SKEW & MAINTAIN 3/4" SET BACK.
2. EDGE ANGLE SHALL CONTINUE PAST AND BE SUPPORTED AT COLUMNS. SPLICE AT SUPPORT ONLY.

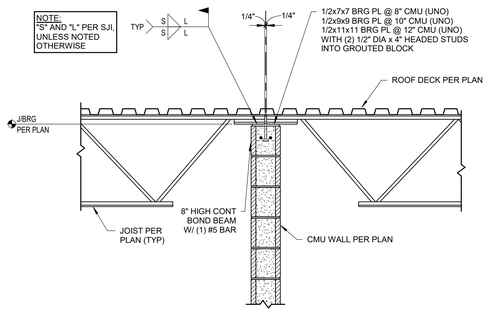
4 S541 TYPICAL JOIST BEARING AT PERIMETER JOIST GIRDER

SCALE: 3/4" = 1'-0"



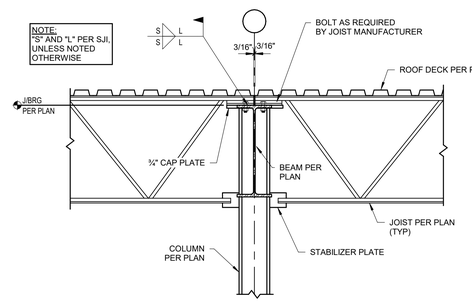
3 S541 TYPICAL JOIST BEARING AT PERIMETER CMU WALL

SCALE: 3/4" = 1'-0"



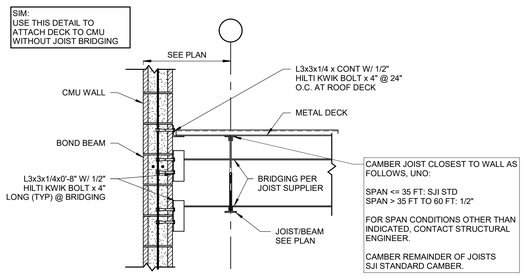
2 S541 TYPICAL JOIST BEARING AT TOP OF CMU WALL

SCALE: 3/4" = 1'-0"



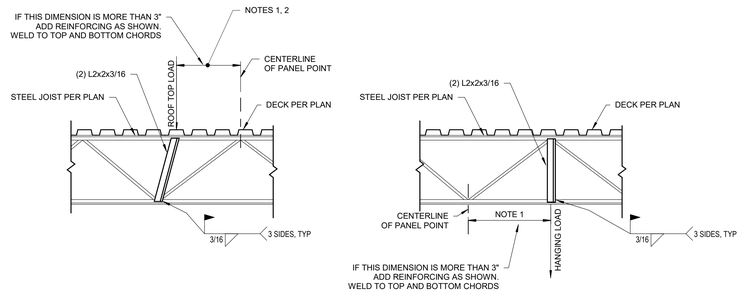
1 S541 JOIST TO COLUMN DETAIL

SCALE: 3/4" = 1'-0"



7 S541 DECK BEARING PARALLEL TO JOISTS

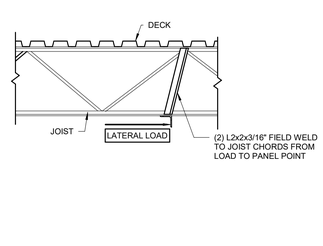
SCALE: 3/4" = 1'-0"

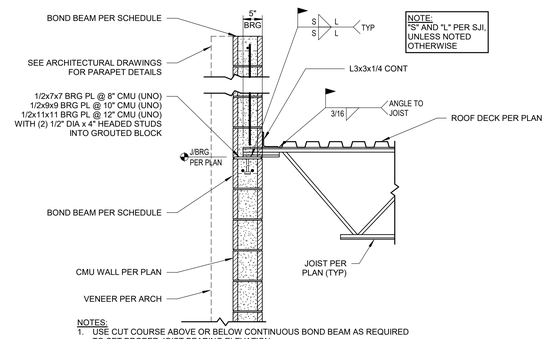


NOTES:
1. PROVIDE REINFORCING AS SHOWN FOR ALL CONCENTRATED LOADS GREATER THAN 100 LBS APPLIED TO UNTOPPED DECK OR DIRECTLY TO STEEL JOIST. IF THE TOTAL WEIGHT OF MULTIPLE CONCENTRATED LOADS APPLIED IN A SINGLE PANEL BETWEEN PANEL POINTS EXCEEDS 100 LBS, PROVIDE REINFORCING AS SHOWN.
2. REINFORCING AS SHOWN IS NOT REQUIRED FOR LOADS APPLIED TO TOP SURFACE OF SLABS ON METAL DECK, UNO.
3. FOR EXISTING JOISTS, FIELD VERIFY INSTALLATION CAN BE PERFORMED AS INDICATED. NOTIFY STRUCTURAL ENGINEER TO COORDINATE ALTERNATE REINFORCEMENT DETAIL(S) IF EXISTING JOIST MEMBER LAYOUT WILL NOT PERMIT INSTALLATION AS SHOWN.

6 S541 TYP JOIST REINFORCING

SCALE: 3/4" = 1'-0"

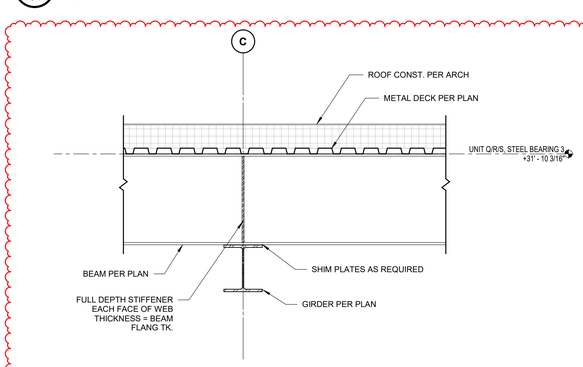




NOTES:
1. USE CUT COURSE ABOVE OR BELOW CONTINUOUS BOND BEAM AS REQUIRED TO SET PROPER JOIST BEARING ELEVATION.
2. IF CUT COURSE IS ABOVE BOND BEAM, GROUT CUT COURSE SOLID AT SAME TIME AS BOND BEAM IS GROUTED.
3. AT AREAS EXPOSED TO VIEW, MAINTAIN COURSING PER ARCH DRAWINGS.
4. FILL SOLID AROUND JOIST SEATS WITH MORTARED CMU OR NON-SHRINK GROUT.
5. JOIST SEAT TO BE DESIGNED FOR 1500 LBS ROLLOVER FORCE UNO.

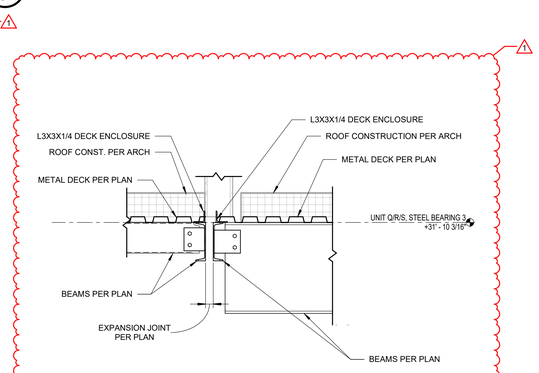
5 S541 TYPICAL JOIST BRG AT PERIMETER CMU WALL

SCALE: 3/4" = 1'-0"



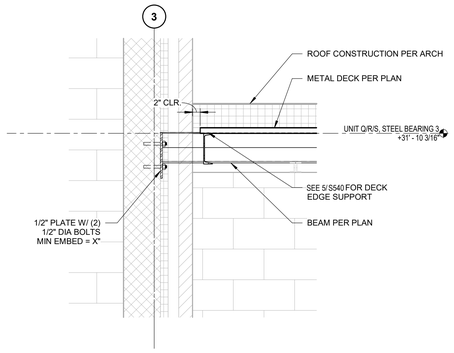
11 S541 BEAM BEARING ON BEAM

SCALE: 3/4" = 1'-0"



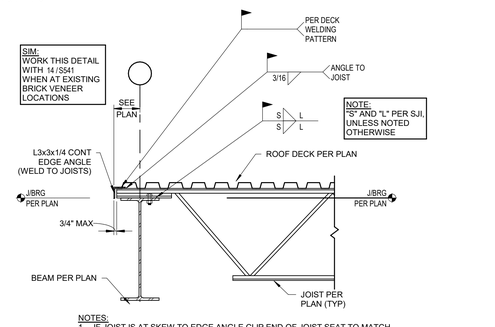
10 S541 NORTHWEST EXPANSION JOINT

SCALE: 3/4" = 1'-0"



9 S541 NORTH WEST ROOF EDGE OF DECK SUPPORT

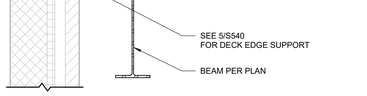
SCALE: 3/4" = 1'-0"



NOTES:
1. IF JOIST IS AT SKEW TO EDGE ANGLE CLIP END OF JOIST SEAT TO MATCH SKEW & MAINTAIN 3/4" SET BACK.
2. EDGE ANGLE SHALL CONTINUE PAST AND BE SUPPORTED AT COLUMNS.SPLICE AT SUPPORT ONLY.

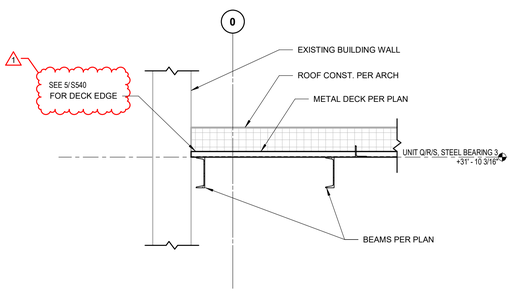
8 S541 TYPICAL JOIST BEARING AT PERIMETER BEAM

SCALE: 3/4" = 1'-0"



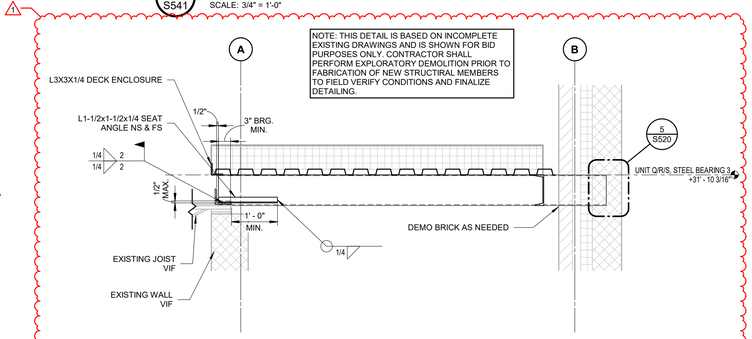
14 S541 DECK EDGE AT EXISTING VENEER, BEAM PARALLEL

SCALE: 3/4" = 1'-0"



13 S541 NORTHWEST DECK EDGE EDGEAT EXISTING BUILDING

SCALE: 3/4" = 1'-0"



12 S541 NORTH WEST ROOF SECTION

SCALE: 3/4" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

JESSICA KAY BARLOW REGISTERED No. PE11800818 STATE OF INDIANA PROFESSIONAL ENGINEER
01/30/2026

REVISIONS:	#	Date	Desc:
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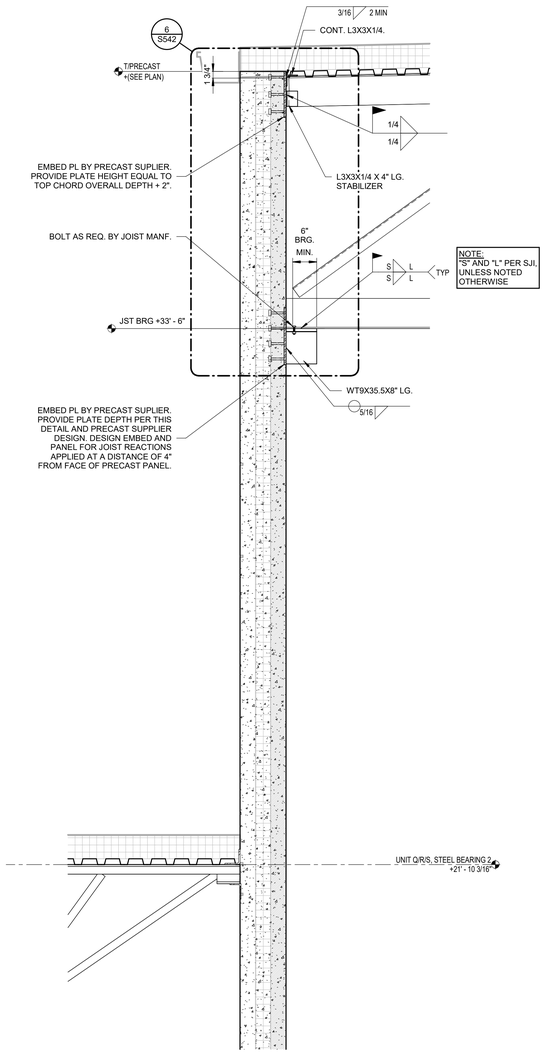
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PROJECT:	#24173S
DATE:	01/06/2026
DRAWN BY:	DWM/CMM

FRAMING SCHEDULES, SECTIONS, & DETAILS

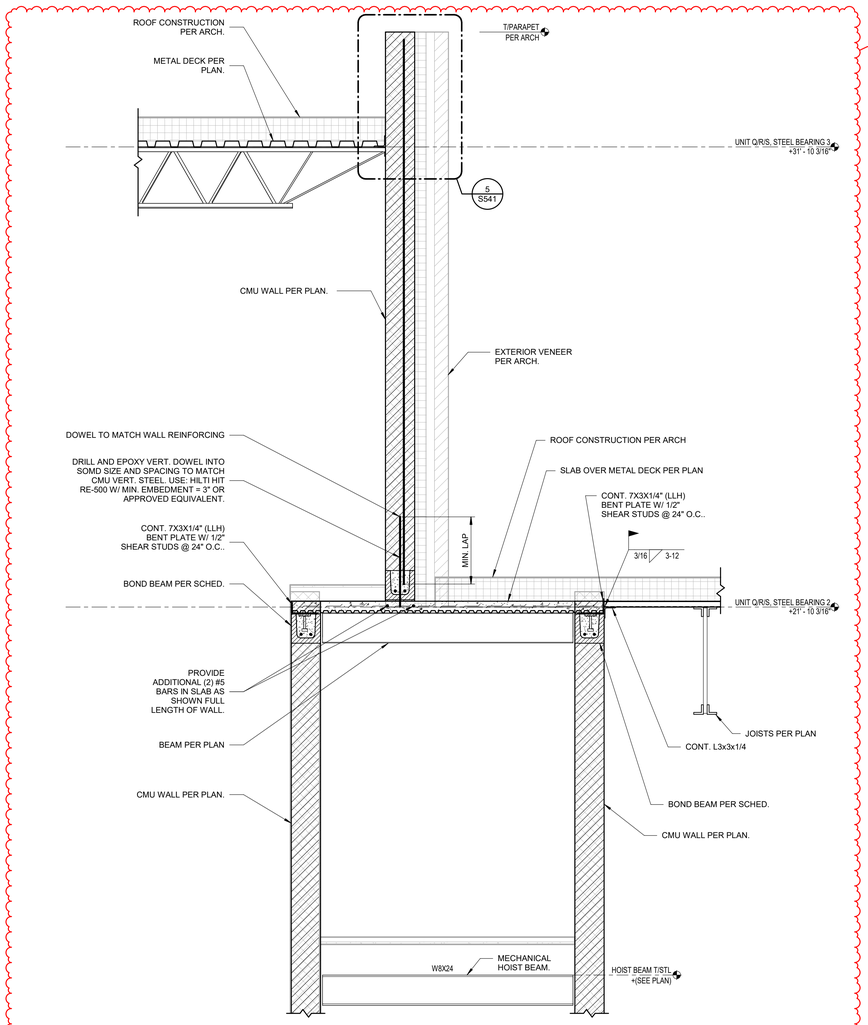
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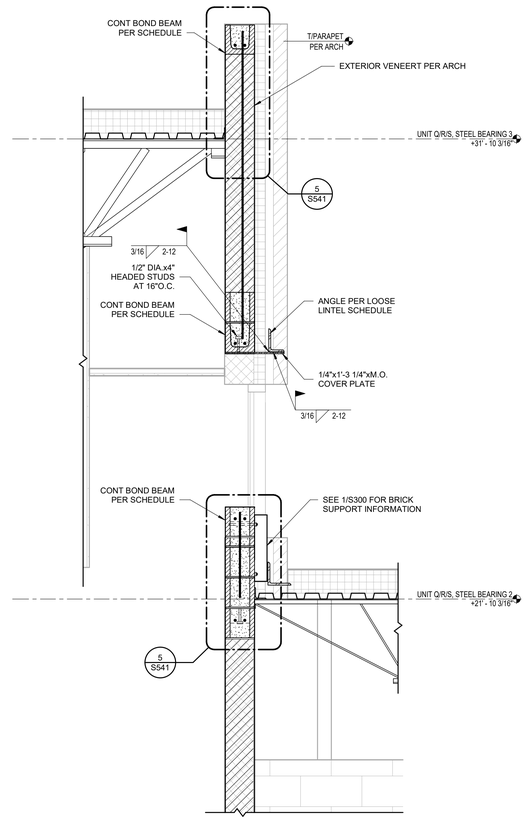
3 S542 FIELD HOUSE TO TIER 2 ROOF

SCALE: 3/4" = 1'-0"



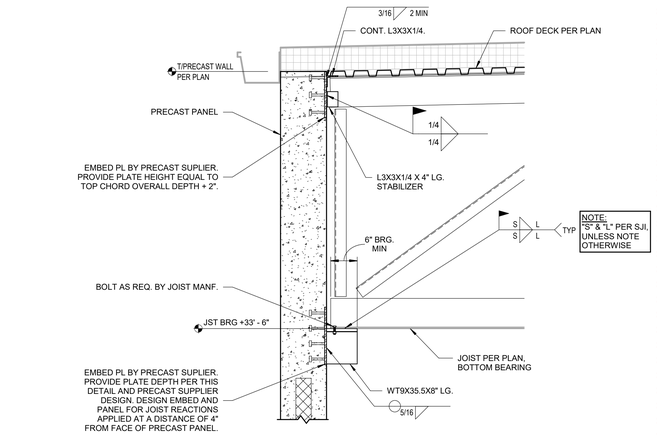
2 S542 CORRIDOR TIER 3 TO TIER 2 ROOF

SCALE: 3/4" = 1'-0"



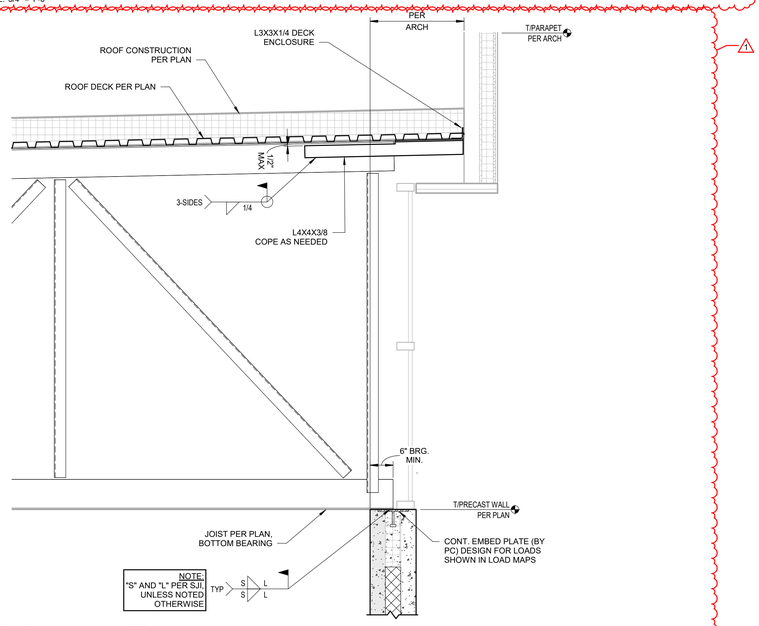
1 S542 AUD LOBBY TIER 3 TO TIER 2 ROOF

SCALE: 3/4" = 1'-0"



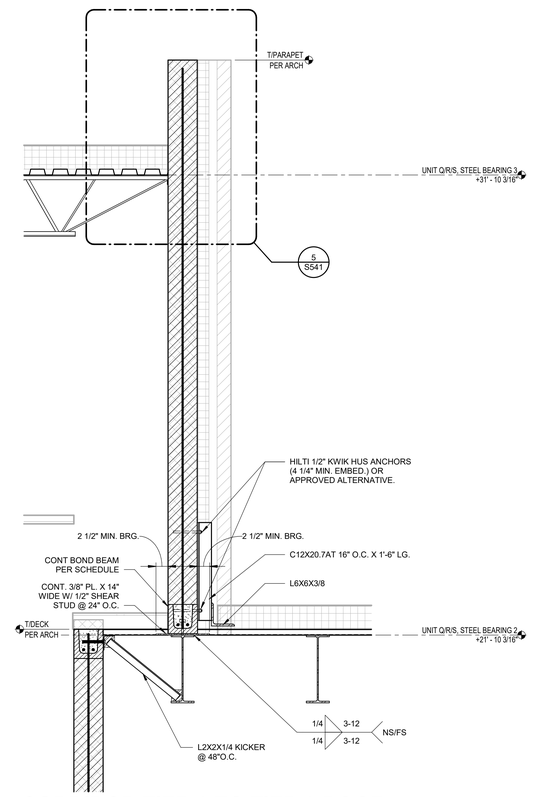
6 S542 FIELD HOUSE TRUSS WALL SIDE MOUNT

SCALE: 3/4" = 1'-0"



5 S542 FIELD HOUSE TRUSS BEARING AT PARAPET

SCALE: 3/4" = 1'-0"



4 S542 CORRIDOR TIER 2 TO TIER 3 ROOF

SCALE: 3/4" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

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SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
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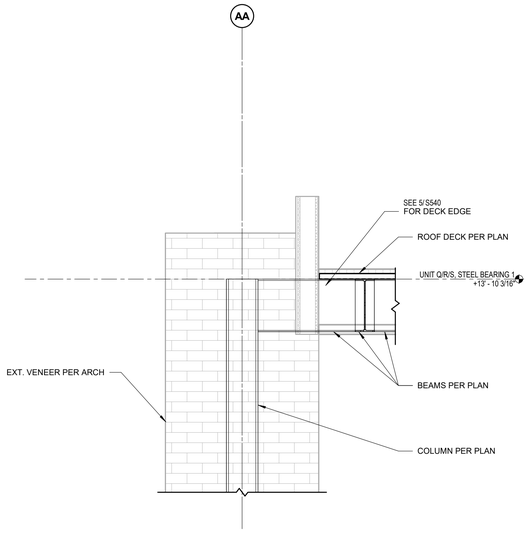
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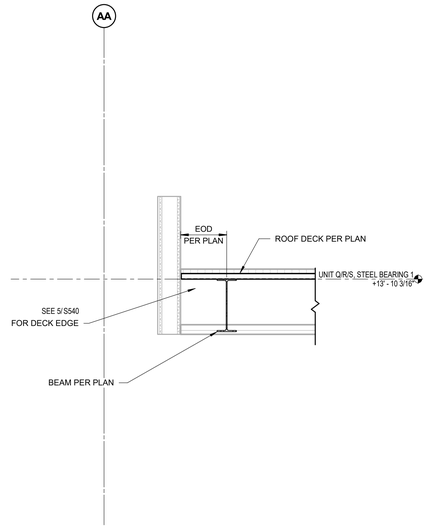
FRAMING SCHEDULES, SECTIONS, & DETAILS

S542

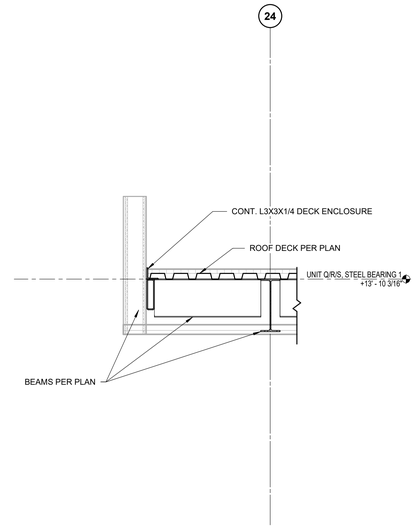
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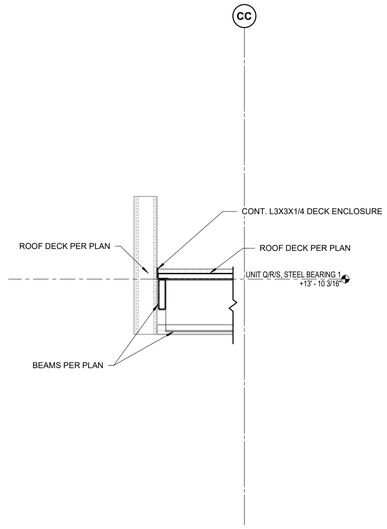
4 S544 **CONNECTION AT COLUMN**
SCALE: 3/4" = 1'-0"



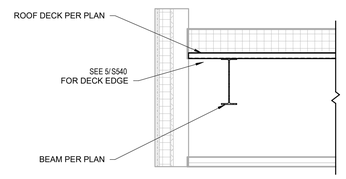
3 S544 **EDGE OF DECK AT SOUTH CANOPY**
SCALE: 3/4" = 1'-0"



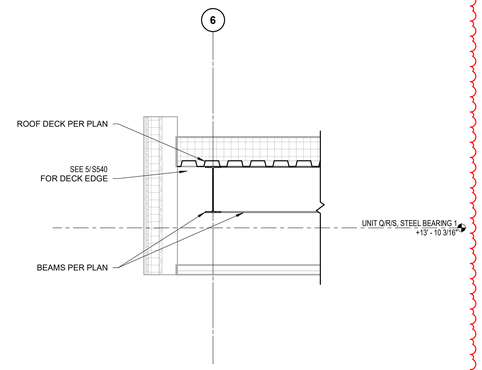
2 S544 **EDGE OF DECK AT SOUTH CANOPY**
SCALE: 3/4" = 1'-0"



1 S544 **EDGE OF DECK AT SOUTH CANOPY**
SCALE: 3/4" = 1'-0"



8 S544 **EDGE OF DECK AT NORTH CANOPY**
SCALE: 3/4" = 1'-0"



7 S544 **EDGE OF DECK AT NORTH CANOPY**
SCALE: 3/4" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

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SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

JESSICA KAY BARLOW
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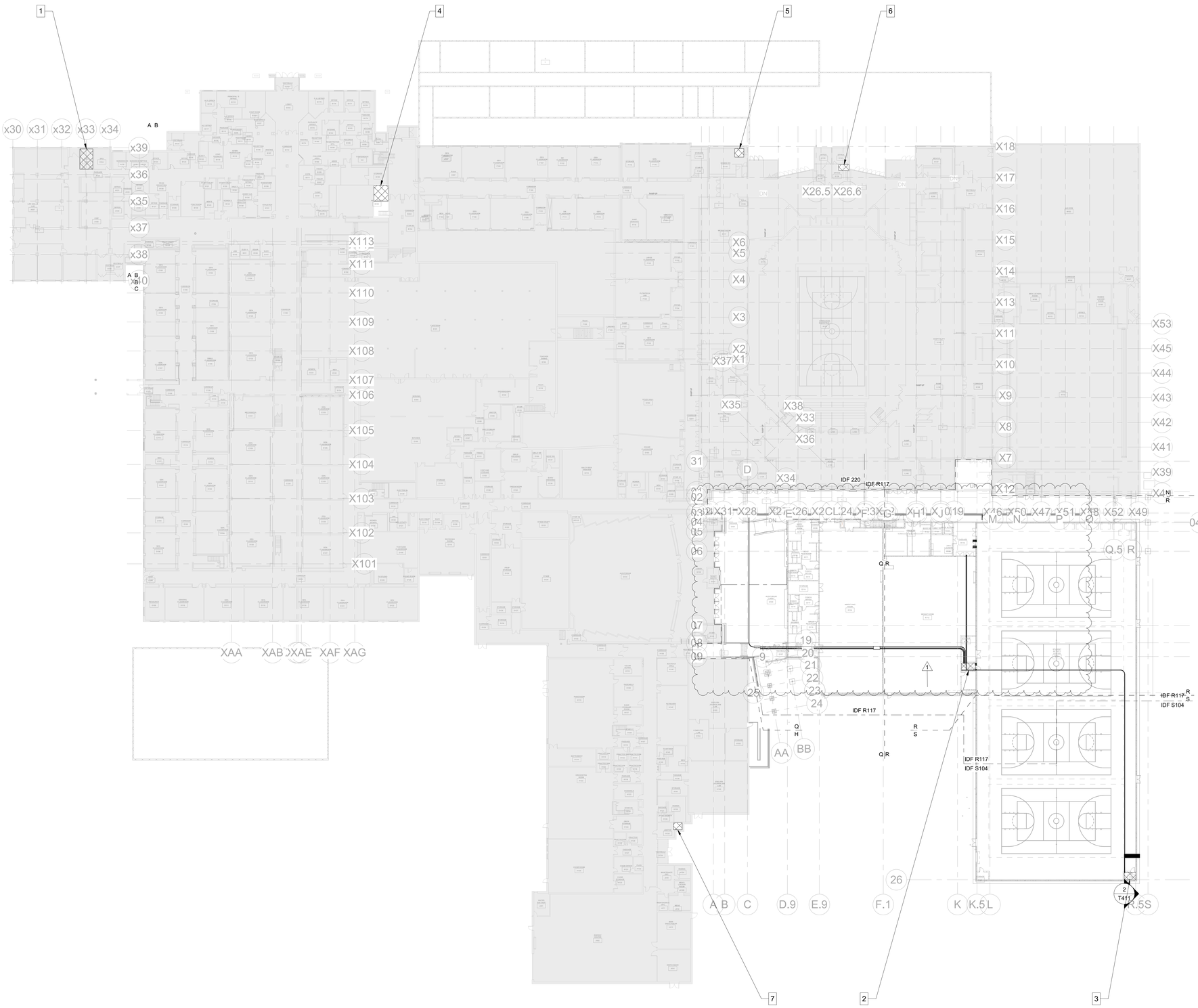
100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01/06/2026
DRAWN BY: DWM/CMM

FRAMING SCHEDULES, SECTIONS, & DETAILS

S544

PLOT DATE/TIME: 1/30/2026 4:06:04 PM



1 FIRST FLOOR OVERALL DISTRIBUTION PLAN
1/32" = 1'-0"

PLOT DATE/TIME: 1/27/2026 10:36:31 AM

GENERAL PATHWAYS NOTES

A	ALL CABLING SHALL BE TERMINATED IN THE ER/TR NOTED IN THE TELECOM SCHEDULES.
B	CONTRACTOR SHALL SUPPLY ALL CONDUIT, BOXES, AND CABLE TRAY AS REQUIRED TO ENSURE ALL TRANSMISSION MEDIA IS FULLY SUPPORTED FROM ALL DEVICE LOCATIONS TO THE POINT OF TERMINATION.
C	ALL TELECOM PATHWAY SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED FROM AND ATTACHED TO THE BUILDING STRUCTURE.
D	ALL TELECOM PATHWAY SYSTEMS SHALL BE COMPLETELY AND PROPERLY LABELED AS REQUIRED IN REFERENCED STANDARDS.
E	CONDUIT SYSTEMS SHALL BE PROVIDED FOR ALL PATHWAYS IN INACCESIBLE CEILING SPACES AND WHERE EXPOSED TO PUBLIC VIEW. ALL CONDUIT SYSTEMS THROUGHOUT THE BUILDING SHALL INCLUDE PROPERLY SIZED SLEEVED PENETRATIONS WITH BUSHINGS THROUGH ALL BARRIERS.
F	ALL TELECOM OUTLET BOXES SHALL BE A MINIMUM 4-11/16" SQUARE BOX NO LESS THAN 2-1/8" DEEP WITH A MINIMUM 1-1/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE WITHIN THE T-SERIES DRAWINGS.
G	CORRIDOR CABLE TRAY SHALL BE PROVIDED AS REQUIRED BY THE CONTRACT DRAWINGS. REFER TO DIVISION 27 SPECIFICATIONS FOR ADDITIONAL PRODUCT DETAILS AND REQUIREMENTS.
H	CONTRACTOR SHALL NOT EXCEED 40% FILL RATIO WITHIN ANY CONDUIT MEANT FOR TELECOMMUNICATIONS CABLING.
I	CONTRACTOR SHALL CALCULATE FILL RATIOS BASED ON ACTUAL CATEGORY 6 CABLING USED. TYPICAL FILL RATIOS FOR CATEGORY 6 CABLE ARE SHOWN HERE FOR REFERENCE PURPOSES ONLY: 1" EMT = 6 CABLES; 1-1/4" EMT = 15 CABLES; 2" EMT = 35 CABLES; 3" EMT = 90 CABLES; 4" EMT = 150 CABLES
J	CONDUIT RUNS SHALL NOT EXCEED 100 FEET WITHOUT A PULLING POINT AND SHALL NOT INCLUDE MORE THAN TWO 90° BENDS BETWEEN PULLING POINTS. IF THE PATH OF THE CONDUIT RUN REQUIRES BENDS EXCEEDING A TOTAL OF 180°, INSTALLATION OF AN APPROPRIATELY SIZED JUNCTION BOX IS REQUIRED.
K	CONTRACTOR SHALL PROVIDE PROPERLY RATED FIRE STOP SYSTEMS FOR ALL CONDUIT AND/OR CABLE TRAY ENTERING THE TELECOMMUNICATIONS ROOMS. EACH CONTRACTOR IS RESPONSIBLE FOR SEALING PENETRATIONS AFTER EACH SCOPE OF WORK IS COMPLETED.
L	CONTRACTOR SHALL PROVIDE FIRE STOPS TO SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, STAIRS, AND ELEVATORS AS NECESSARY TO MEET CODE REQUIREMENTS. FIRE STOPS SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
M	IN RENOVATED AREAS, CONTRACTOR SHALL UTILIZE ALL EXISTING CABLE TRAYS, J-HOOKS, AND CABLE SUPPORTS, WHETHER OR NOT EXPLICITLY SHOWN ON THE DRAWINGS. WHERE PATHWAYS DO NOT EXIST OR ADDITIONAL CABLES EXCEEDS 40% TOTAL FILL, CONTRACTOR SHALL PROVIDE ADDITIONAL CABLE SUPPORTS AS NECESSARY.
N	CONTRACTOR SHALL PROVIDE SOLID BOTTOM LINER FOR CABLE TRAY IN ALL AREAS EXPOSED TO PUBLIC VIEW, INCLUDING BUT NOT LIMITED TO BREAKS IN ARCHITECTURAL CEILING CLOUDS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXTENTS OF CEILING CLOUDS.
O	CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 27 05 28 FOR SPECIFIC ROUTING INFORMATION OF STATION CONDUITS WITHIN WRESTLING ROOM, WEIGHT ROOM, SAC, AND SUPPLEMENTAL SPACES.

SHEET NOTES

1 EXISTING IDF 176 (TR101) LOCATION.
2 NEW IDF R118 LOCATION.
3 NEW IDF S104 LOCATION.
4 EXISTING MDF 102A LOCATION.
5 EXISTING IDF GYM (TR103) LOCATION.
6 EXISTING IDF COACH (TR102) LOCATION.
7 EXISTING IDF 409 (TR104)LOCATION.

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

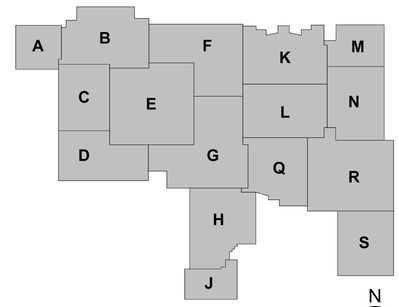
DESIGN 27 TECHNOLOGY + ACOUSTICS

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Jared Klingler
BICSI ID #: 407182
EXPIRES 12-31-27
RCDD

REVISIONS:

#	Date	Desc.
1	01/30/2026	Addendum 1



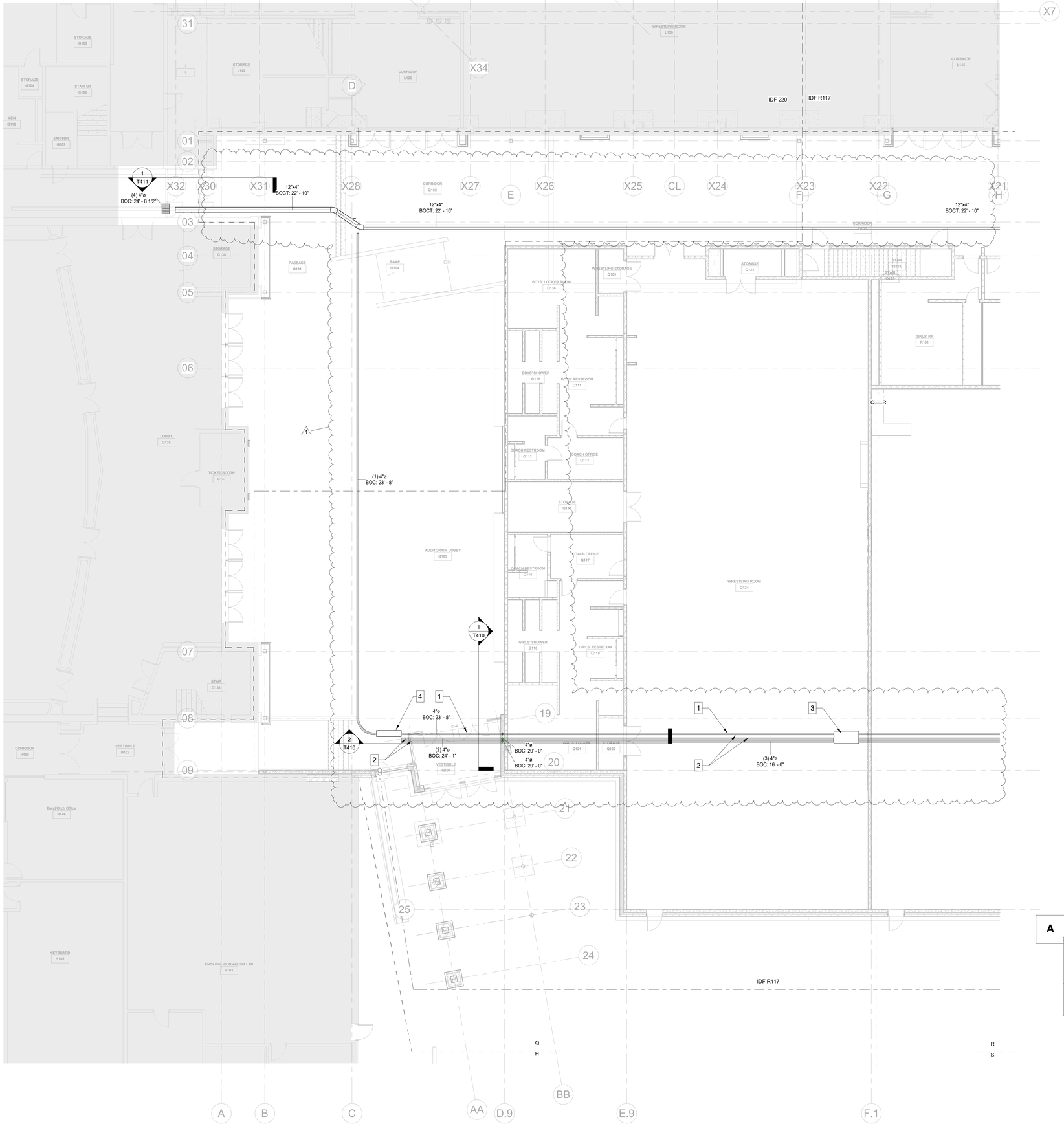
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TRUE NORTH

100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: HMB/KGP/JKK

FIRST FLOOR DISTRIBUTION PLAN - OVERALL

T101

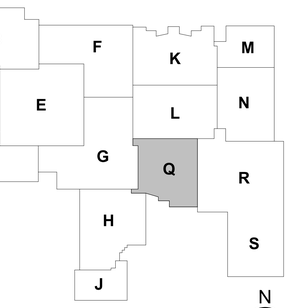


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O	CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 27 05 28 FOR SPECIFIC ROUTING INFORMATION OF STATION CONDUITS WITHIN WRESTLING ROOM, WEIGHT ROOM, SAC, AND SUPPLEMENTAL SPACES.

SHEET NOTES

1. CONDUIT SERVING RISER CABLING FROM MDF.
2. CONDUITS SERVING HORIZONTAL CABLING FROM NEW IDF R117.
3. MINIMUM 60" X 30" X 8" PULL BOX SUPPORTED FROM BUILDING STRUCTURE.
4. MINIMUM 60" X 15" X 8" PULL BOX SUPPORTED FROM BUILDING STRUCTURE.



1 FIRST FLOOR DISTRIBUTION PLAN - UNIT Q
1/8" = 1'-0"

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

DESIGN 27 TECHNOLOGY + ACOUSTICS

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SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Jared Klingler
BICSI ID # 407182
EXPIRES 12-31-27
RCDD

REVISIONS:

#	Date	Desc.
1	01/30/2026	Addendum 1

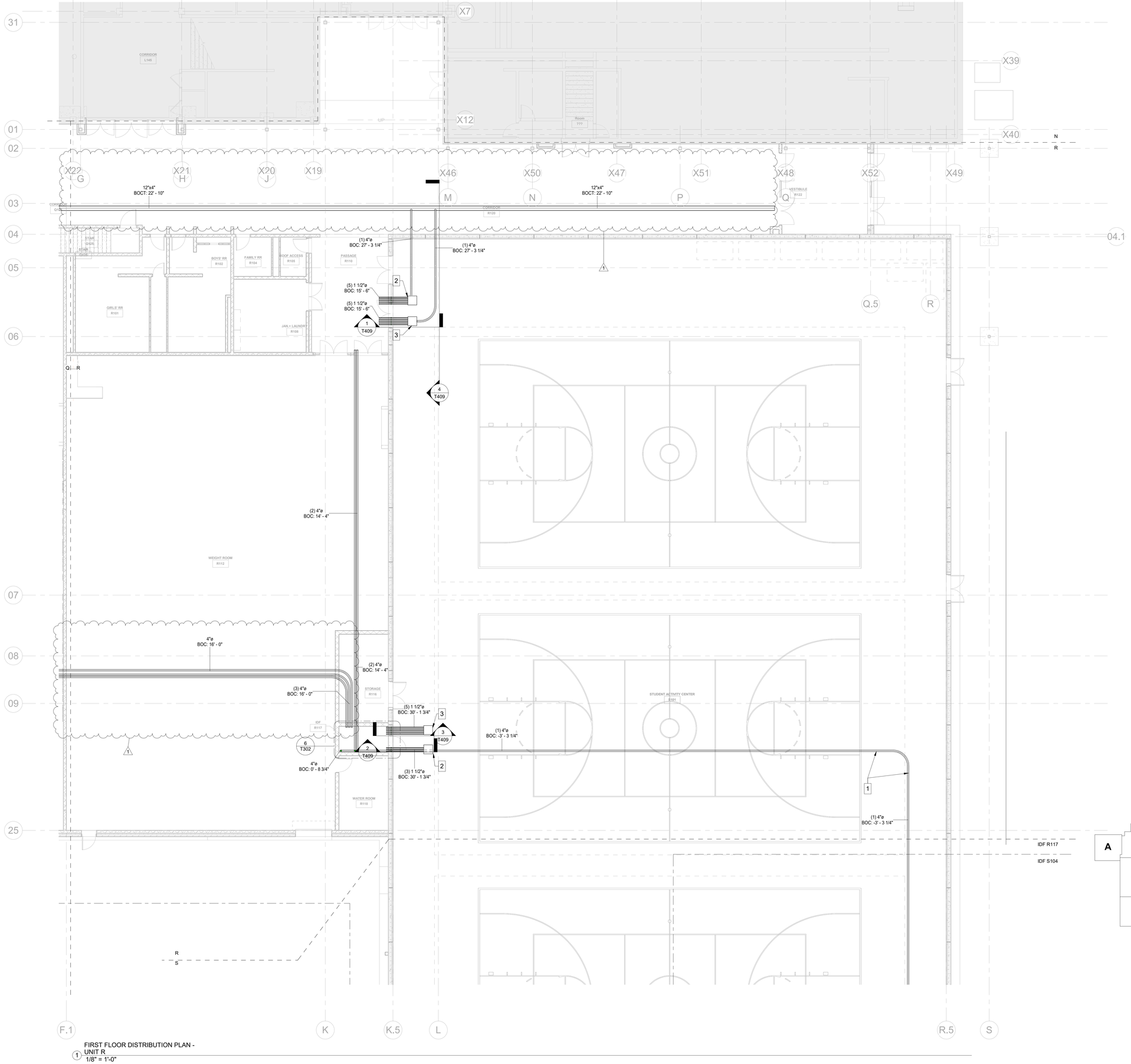
100% CONSTRUCTION DOCUMENTS

PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: HMB/KGP/JKK

FIRST FLOOR DISTRIBUTION PLAN - UNIT Q

T101Q

PLOT DATE/TIME: 1/27/2026 11:26:33 AM



1 FIRST FLOOR DISTRIBUTION PLAN - UNIT R
1/8" = 1'-0"

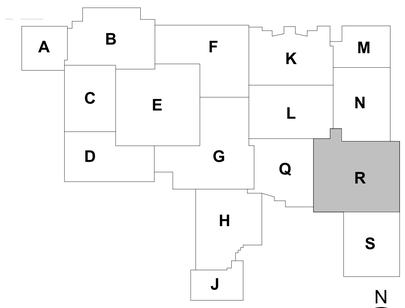
PLOT DATE/TIME: 1/27/2026 10:35:34 AM

GENERAL PATHWAYS NOTES

A	ALL CABLING SHALL BE TERMINATED IN THE ER/TR NOTED IN THE TELECOM SCHEDULES.
B	CONTRACTOR SHALL SUPPLY ALL CONDUIT, BOXES, AND CABLE TRAY AS REQUIRED TO ENSURE ALL TRANSMISSION MEDIA IS FULLY SUPPORTED FROM ALL DEVICE LOCATIONS TO THE POINT OF TERMINATION.
C	ALL TELECOM PATHWAY SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED FROM AND ATTACHED TO THE BUILDING STRUCTURE.
D	ALL TELECOM PATHWAY SYSTEMS SHALL BE COMPLETELY AND PROPERLY LABELED AS REQUIRED IN REFERENCED STANDARDS.
E	CONDUIT SYSTEMS SHALL BE PROVIDED FOR ALL PATHWAYS IN INACCESIBLE CEILING SPACES AND WHERE EXPOSED TO PUBLIC VIEW. ALL CONDUIT SYSTEMS THROUGHOUT THE BUILDING SHALL INCLUDE PROPERLY SIZED SLEEVED PENETRATIONS WITH BUSHINGS THROUGH ALL BARRIERS.
F	ALL TELECOM OUTLET BOXES SHALL BE A MINIMUM 4-11/16" SQUARE BOX NO LESS THAN 2-1/8" DEEP WITH A MINIMUM 1-1/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE WITHIN THE T-SERIES DRAWINGS.
G	CORRIDOR CABLE TRAY SHALL BE PROVIDED AS REQUIRED BY THE CONTRACT DRAWINGS. REFER TO DIVISION 27 SPECIFICATIONS FOR ADDITIONAL PRODUCT DETAILS AND REQUIREMENTS.
H	CONTRACTOR SHALL NOT EXCEED 40% FILL RATIO WITHIN ANY CONDUIT MEANT FOR TELECOMMUNICATIONS CABLING.
I	CONTRACTOR SHALL CALCULATE FILL RATIOS BASED ON ACTUAL CATEGORY 6 CABLING USED. TYPICAL FILL RATIOS FOR CATEGORY 6 CABLE ARE SHOWN HERE FOR REFERENCE PURPOSES ONLY: 1" EMT = 6 CABLES; 1-1/4" EMT = 15 CABLES; 2" EMT = 35 CABLES; 3" EMT = 90 CABLES; 4" EMT = 150 CABLES
J	CONDUIT RUNS SHALL NOT EXCEED 100 FEET WITHOUT A PULLING POINT AND SHALL NOT INCLUDE MORE THAN TWO 90° BENDS BETWEEN PULLING POINTS. IF THE PATH OF THE CONDUIT RUN REQUIRES BENDS EXCEEDING A TOTAL OF 180°, INSTALLATION OF AN APPROPRIATELY SIZED JUNCTION BOX IS REQUIRED.
K	CONTRACTOR SHALL PROVIDE PROPERLY RATED FIRE STOP SYSTEMS FOR ALL CONDUIT AND/OR CABLE TRAY ENTERING THE TELECOMMUNICATIONS ROOMS. EACH CONTRACTOR IS RESPONSIBLE FOR SEALING PENETRATIONS AFTER EACH SCOPE OF WORK IS COMPLETED.
L	CONTRACTOR SHALL PROVIDE FIRE STOPS TO SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, STAIRS, AND ELEVATORS AS NECESSARY TO MEET CODE REQUIREMENTS. FIRE STOPS SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
M	IN RENOVATED AREAS, CONTRACTOR SHALL UTILIZE ALL EXISTING CABLE TRAYS, J-HOOKS, AND CABLE SUPPORTS, WHETHER OR NOT EXPLICITLY SHOWN ON THE DRAWINGS. WHERE PATHWAYS DO NOT EXIST OR ADDITIONAL CABLES EXCEEDS 40% TOTAL FILL, CONTRACTOR SHALL PROVIDE ADDITIONAL CABLE SUPPORTS AS NECESSARY.
N	CONTRACTOR SHALL PROVIDE SOLID BOTTOM LINER FOR CABLE TRAY IN ALL AREAS EXPOSED TO PUBLIC VIEW, INCLUDING BUT NOT LIMITED TO BREAKS IN ARCHITECTURAL CEILING CLOUDS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXTENTS OF CEILING CLOUDS.
O	CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 27 05 28 FOR SPECIFIC ROUTING INFORMATION OF STATION CONDUITS WITHIN WRESTLING ROOM, WEIGHT ROOM, SAC, AND SUPPLEMENTAL SPACES.

SHEET NOTES

1. GRC CONDUIT ROUTED UNDERSLAB BETWEEN IDF R117 AND IDF S104.
2. CONDUIT PATHWAY AND STRUCTURE MOUNTED JUNCTION BOX TO SERVE ELECTRONIC ACCESS CONTROL CABLING. CONNECT ADDITIONAL STATION CONDUITS TO JUNCTION BOX TO SERVE OUTLETS LOCATED WITHIN SAC AS REQUIRED. REFER TO SECTION 27 05 28.3.10. SIZE JUNCTION BOX BASED ON ACTUAL CONDUIT SIZES AND QUANTITIES.
3. CONDUIT PATHWAY AND STRUCTURE MOUNTED JUNCTION BOX TO SERVE DATA CABLING. CONNECT ADDITIONAL STATION CONDUITS TO JUNCTION BOX TO SERVE OUTLETS LOCATED WITHIN SAC AS REQUIRED. REFER TO SECTION 27 05 28.3.10. SIZE JUNCTION BOX BASED ON ACTUAL CONDUIT SIZES AND QUANTITIES.



N
TRUE NORTH

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

DESIGN 27 TECHNOLOGY + ACOUSTICS

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FIRST FLOOR DISTRIBUTION PLAN - UNIT R

T101R



1 FIRST FLOOR TELECOM PLAN - UNIT Q
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

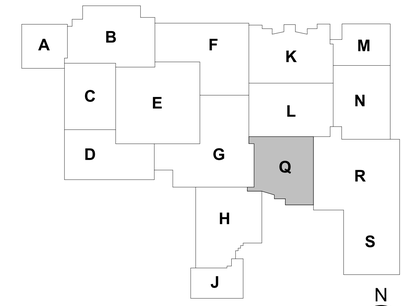
A	MINIMUM CATEGORY 6 COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
C	CONTRACTOR SHALL PROVIDE A DOCUMENTED MANUFACTURER CERTIFIED SOLUTION INCLUDING THE MINIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
B	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.
J	ALL EXISTING PAGING SPEAKERS SUSPENDED ABOVE CEILING DURING DEMOLITION SHALL BE REINSTALLED IN NEW CEILING TILES.
K	ALL WIRELESS ACCESS POINTS SUSPENDED ABOVE CEILING DURING DEMOLITION SHALL BE REINSTALLED IN NEW CEILING TILES.
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TECHNOLOGY LEGEND

- DATA LOCATION - FLUSH MOUNTED
- DATA LOCATION - SURFACE MOUNTED
- WP — WALL PHONE LOCATION
- AP — WIRELESS ACCESS POINT CEILING MOUNTED
- AP — WIRELESS ACCESS POINT - WALL MOUNTED
- C C — DUAL SIDED CLOCK LOCATION
- AVJ — AV FLOORBOX LOCATION
- AV RACK — AV EQUIPMENT RACK LOCATION
- AVD — AUDIO INPUT LOCATION
- AV — AV INPUT TYPE 1
- MP — MICROPHONE INPUT LOCATION - FLUSH MOUNTED
- TP — TOUCHPANEL LOCATION - WALL MOUNTED
- WA — WIRELESS MIC ANTENNA - WALL MOUNTED
- AA — ASSISTED LISTENING ANTENNA LOCATION
- VB — MONITOR LOCATION - FLUSH MOUNTED
- DS — DIGITAL SIGNAGE LOCATION
- VB — INTERACTIVE FLAT PANEL DISPLAY LOCATION
- S — SPEAKER - PROGRAM - PENDANT
- LC — LOUDSPEAKER CONNECTION LOCATION
- SW — SUBWOOFER PROGRAM - CEILING MOUNTED
- S — SPEAKER - PAGING - CEILING MOUNTED
- S — SPEAKER - PAGING - WALL MOUNTED
- SC — SECURITY CAMERA - CEILING MOUNTED
- SC — SECURITY CAMERA - WALL MOUNTED
- D — DOOR POSITION SENSOR LOCATION
- EH — ELECTRIFIED HARDWARE LOCATION
- CR — CARD READER LOCATION

SHEET NOTES

1 OWNER'S SECURITY CONTRACTOR TO PROVIDE PENDANT MOUNT TO DROP CAMERA BELOW EXPOSED CANOPY STRUCTURE.
2 NEW LOCATION OF EXISTING SOFFIT MOUNTED SECURITY CAMERA. CONTRACTOR SHALL PROVIDE NEW PATHWAY IN WALL AT HEIGHT INDICATED AND RE-INSTALL EXISTING CABLE. OWNER'S VENDOR SHALL PROVIDE NEW WALL MOUNT AND ACCESSORIES AS REQUIRED.
3 INSTALL AV RACK BACKBOX CENTERED IN KNOCKOUT PLATE IN REAR OF RACK. COORDINATE WITH AV CONTRACTOR BASED ON ACTUAL RACK TO BE UTILIZED.
4 OWNER'S SECURITY CONTRACTOR TO PROVIDE PENDANT MOUNT TO DROP CAMERA BELOW FABRIC DUCT.



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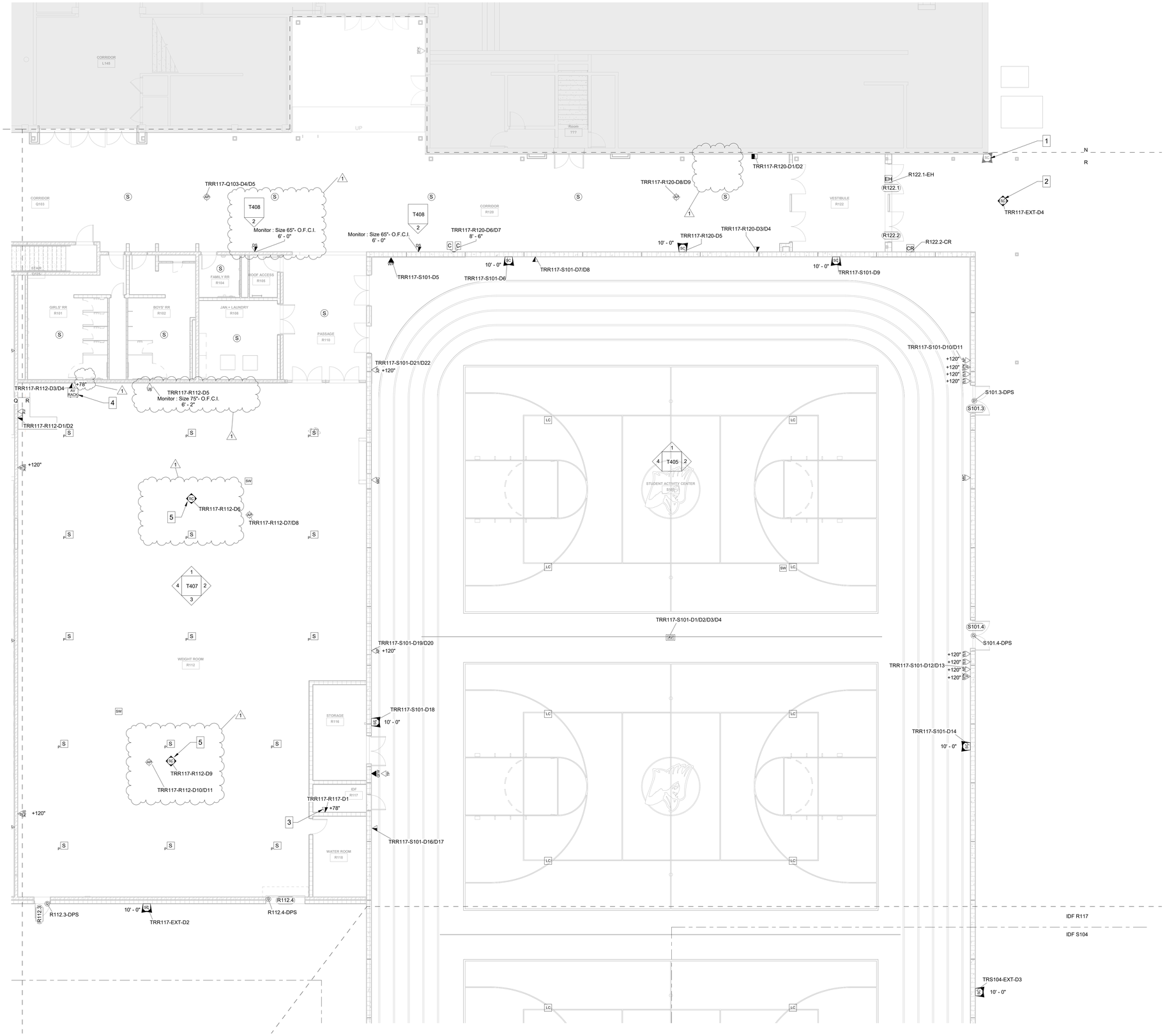
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FIRST FLOOR TECHNOLOGY PLAN - UNIT Q

T201Q

PLOT DATE/TIME: 1/27/2026 10:36:36 AM



1 FIRST FLOOR TELECOM PLAN - UNIT R
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

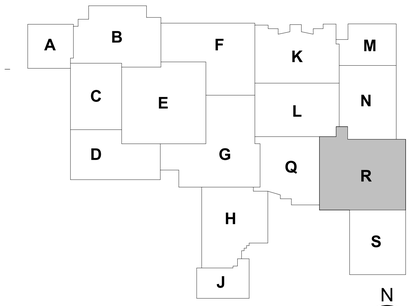
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- D — DOOR POSITION SENSOR LOCATION
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- CR — CARD READER LOCATION

SHEET NOTES

1. OWNER TO ADJUST EXISTING CAMERA VIEWS TO MAXIMIZE COVERAGE OF PARKING LOT.
2. SECURITY CAMERA MOUNTED TO UNDERSIDE OF CANOPY.
3. DATA LOCATION SERVING ELECTRONIC ACCESS CONTROL ENCLOSURE.
4. INSTALL AV RACK BACKBOX CENTERED IN KNOCKOUT PLATE IN REAR OF RACK. COORDINATE WITH AV CONTRACTOR BASED ON ACTUAL RACK TO BE UTILIZED.
5. OWNER'S SECURITY CONTRACTOR TO PROVIDE PENDANT MOUNT TO DROP CAMERA BELOW FABRIC DUCT.



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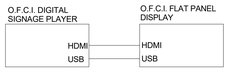
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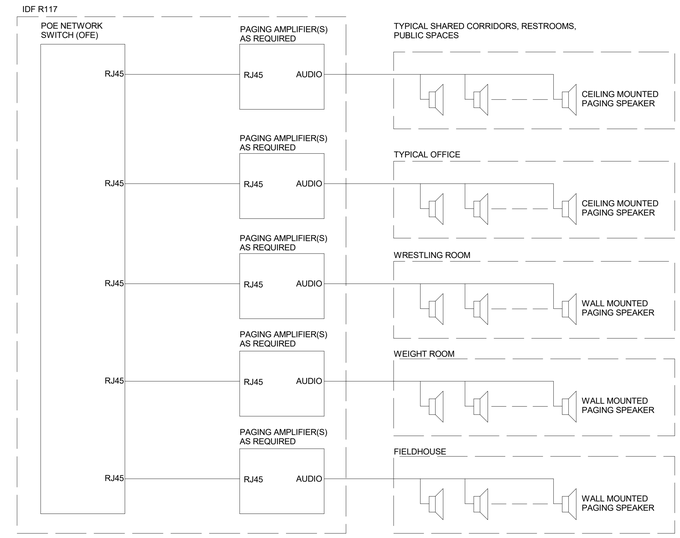
FIRST FLOOR TECHNOLOGY PLAN - UNIT R

T201R

PLOT DATE/TIME: 1/27/2026 10:36:06 AM

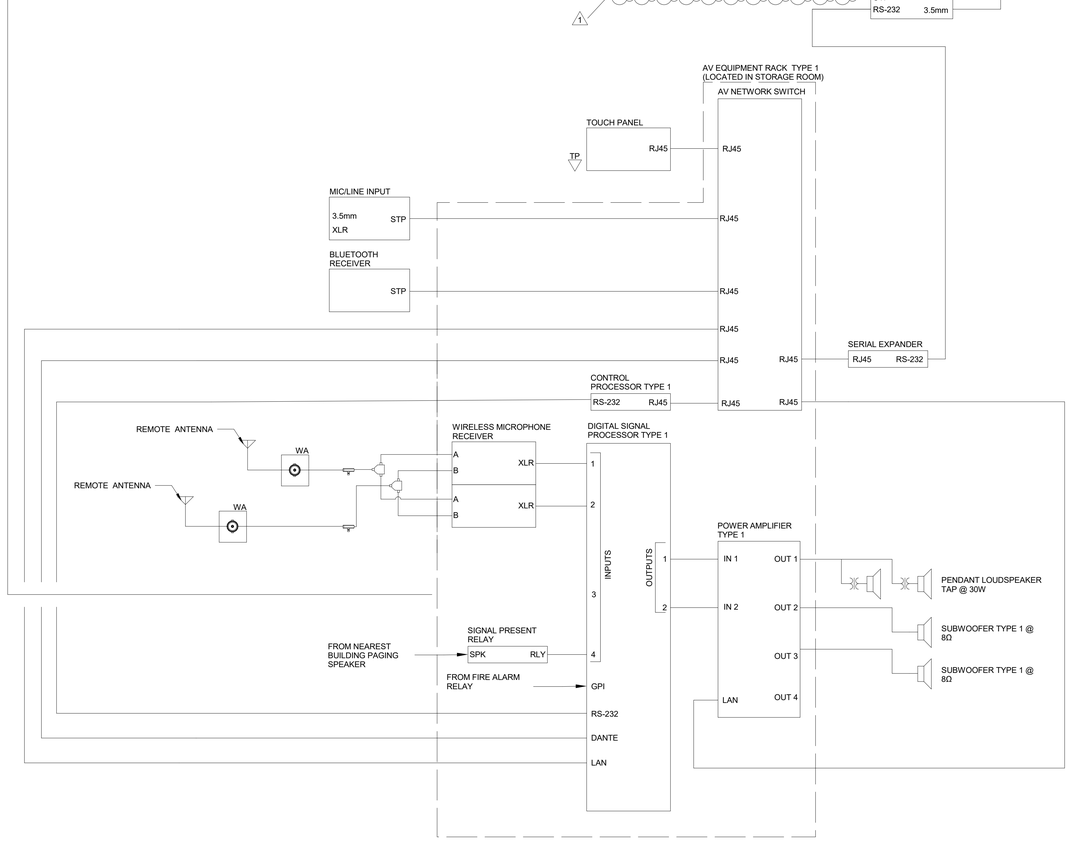


1 TYPICAL DIGITAL SIGNAGE DIAGRAM
N.T.S.

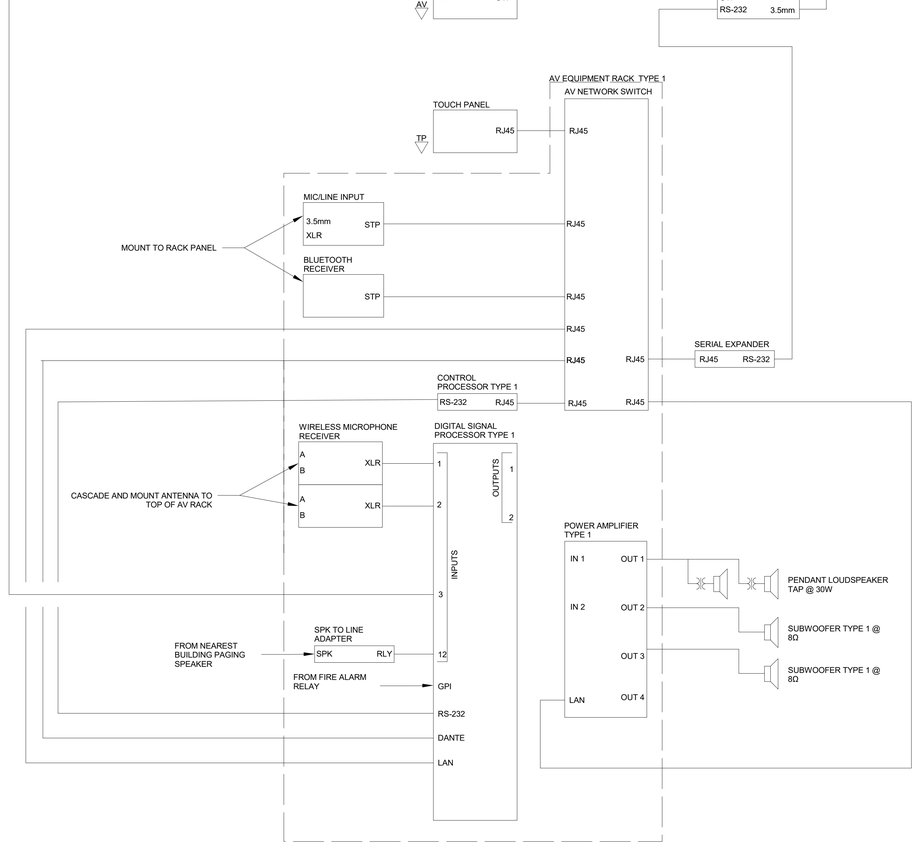


NOTES:
- PROVIDE SINGLE OR MULTI-CHANNEL NETWORK PAGING AMPLIFIERS AS REQUIRED TO SUPPORT WATTAGE OUTPUT OF SPEAKERS.
- ALL SPEAKERS ARE PART OF A SINGLE ZONE.

2 PAGING DIAGRAM
N.T.S.



3 WRESTLING ROOM AV DIAGRAM
N.T.S.



4 WEIGHT ROOM AV DIAGRAM
N.T.S.

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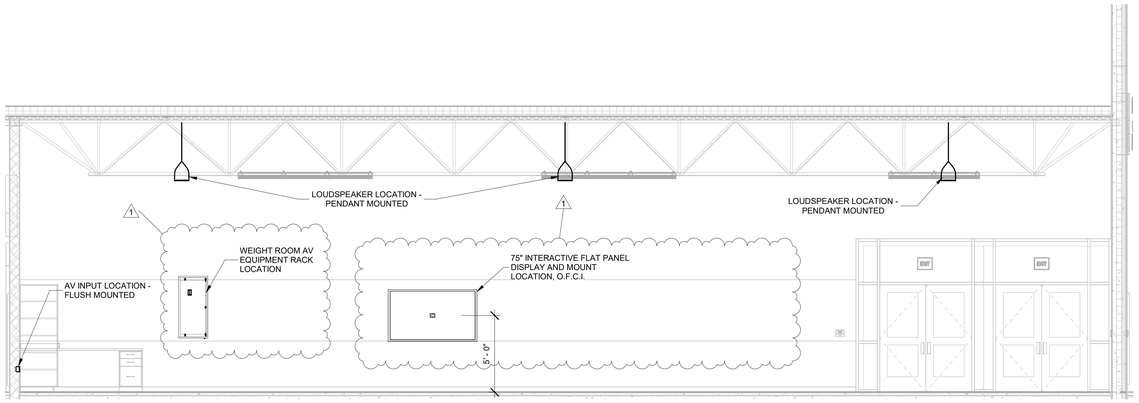
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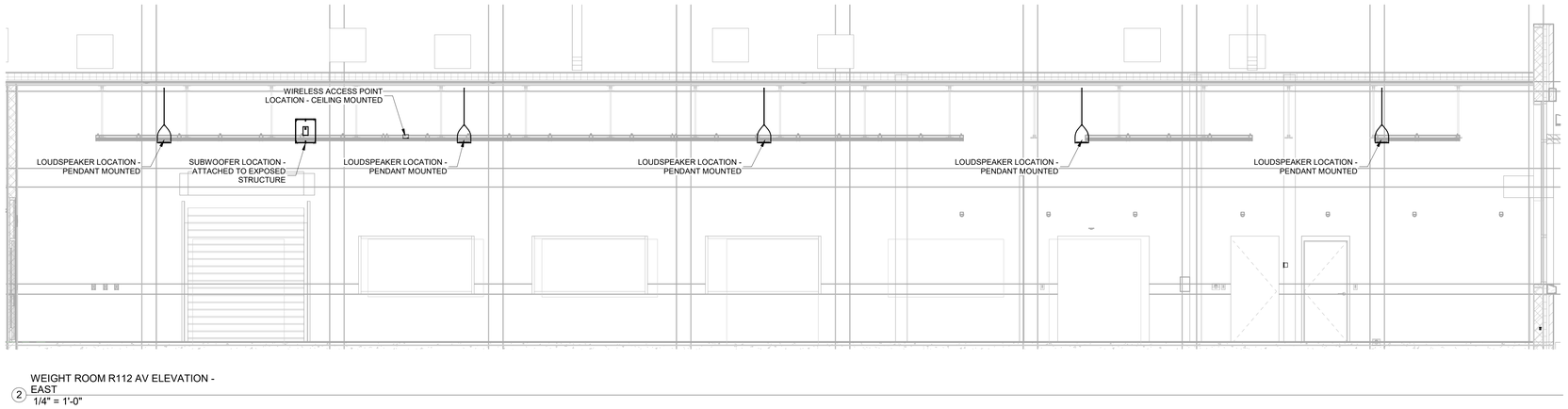
AV DIAGRAMS

T304

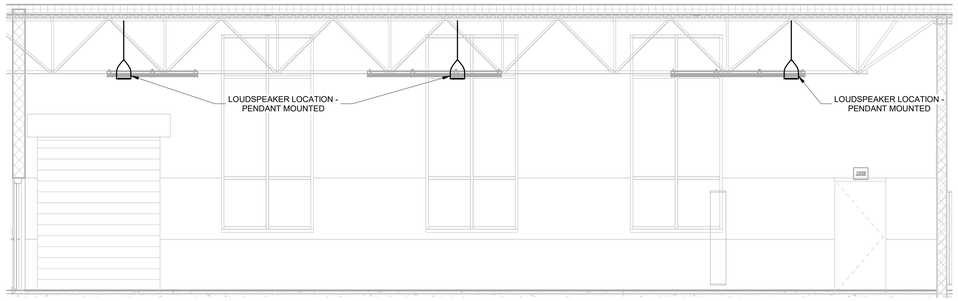
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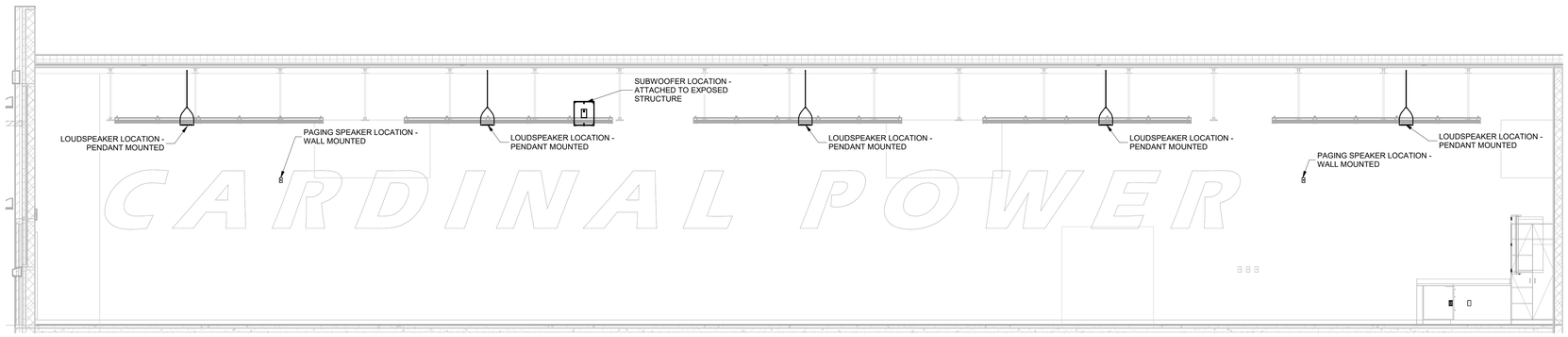
1 WEIGHT ROOM R112 AV ELEVATION - NORTH
1/4" = 1'-0"



2 WEIGHT ROOM R112 AV ELEVATION - EAST
1/4" = 1'-0"



3 WEIGHT ROOM R112 AV ELEVATION - SOUTH
1/4" = 1'-0"



4 WEIGHT ROOM R112 AV ELEVATION - WEST
1/4" = 1'-0"

CARDINAL POWER

PLOT DATE/TIME: 1/27/2026 10:36:42 AM

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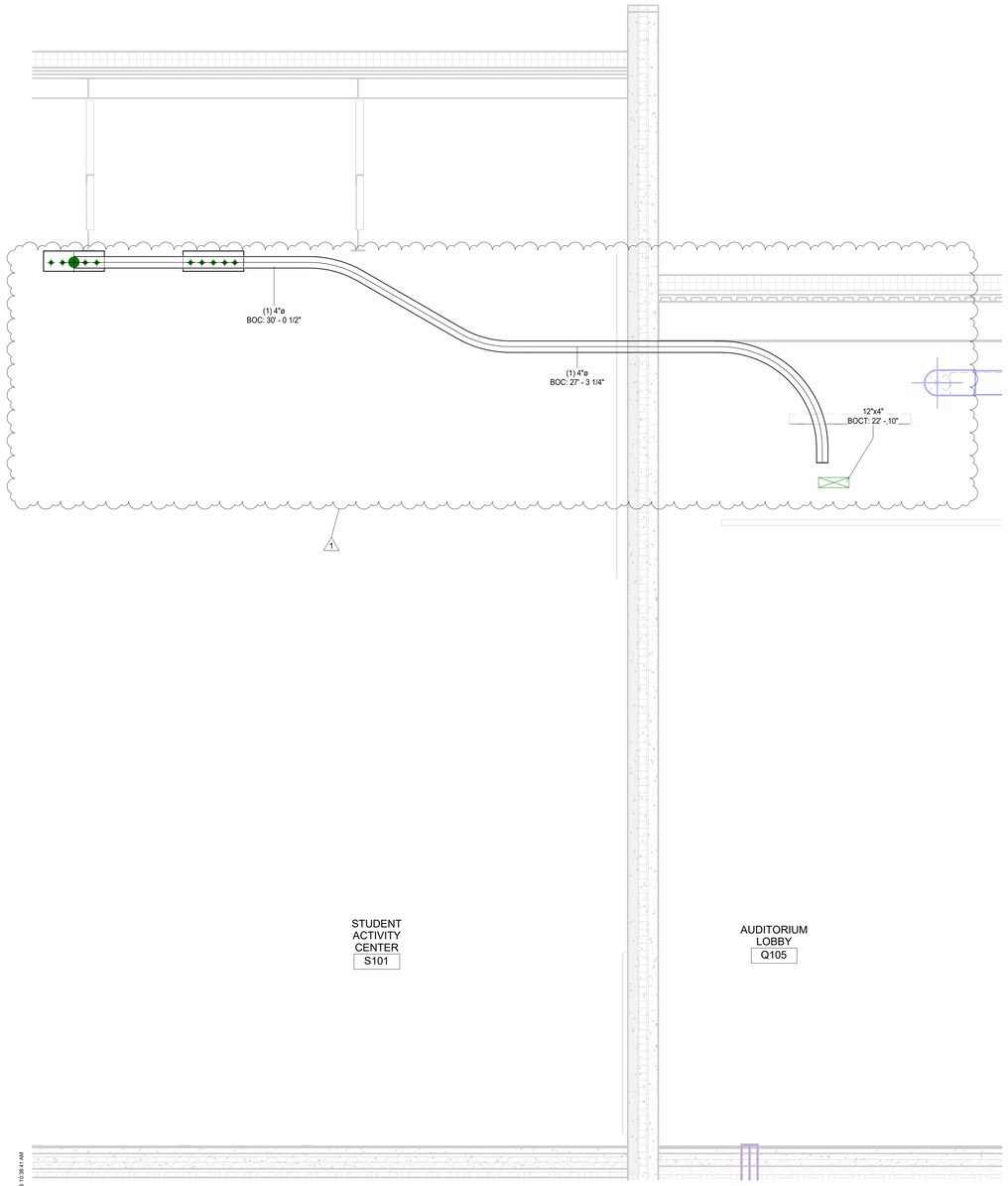
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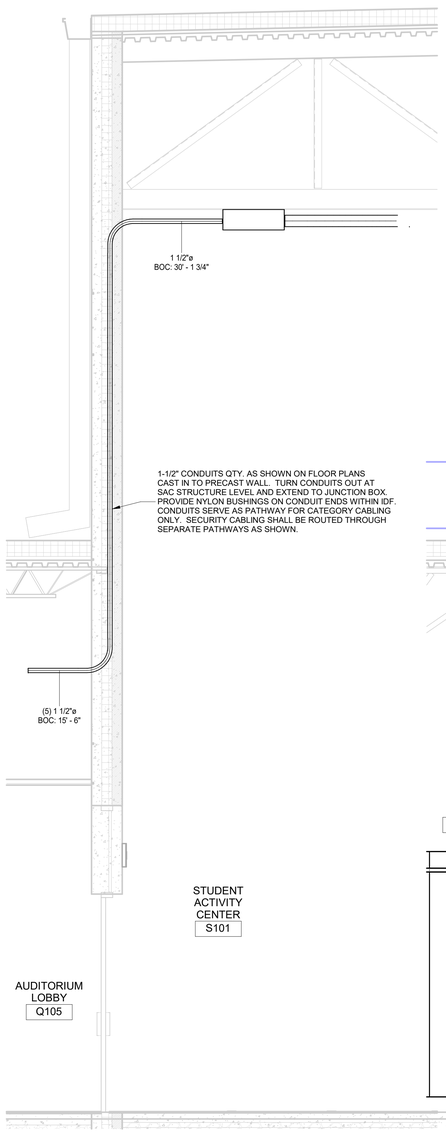
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AV ELEVATIONS

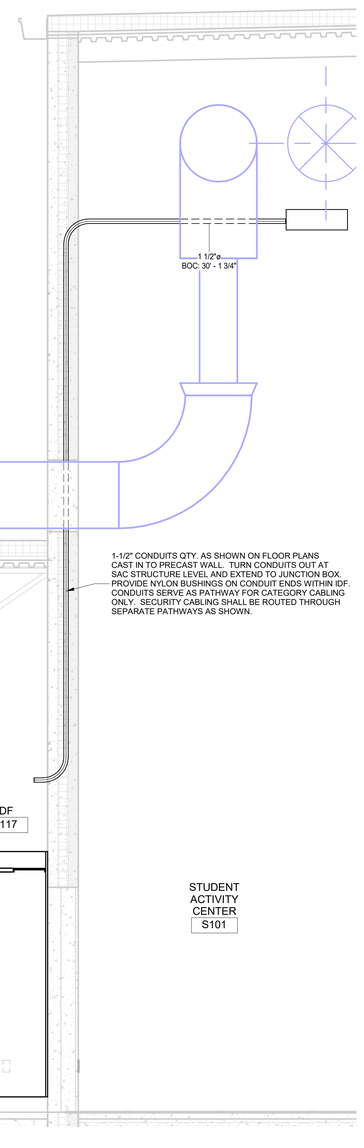
T407



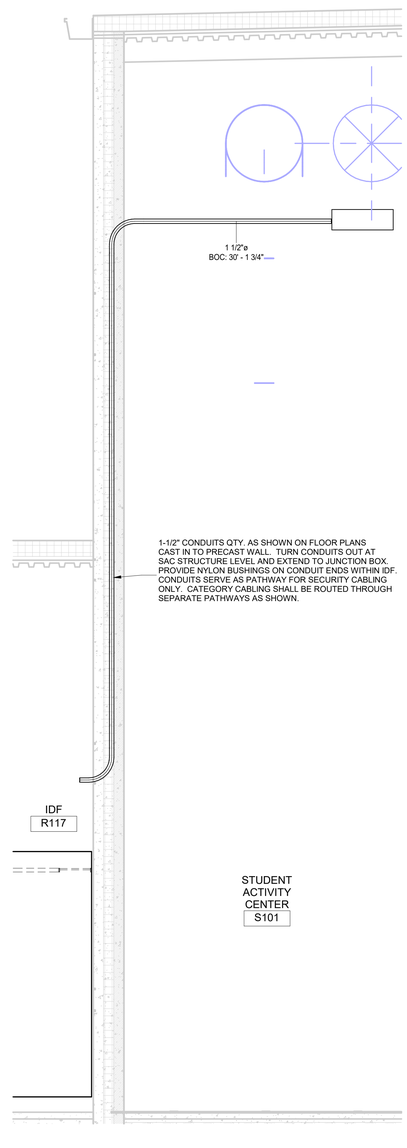
4 S101 TO R120 CONDUIT SECTION VIEW1
1/2" = 1'-0"



1 R110 TO S101 CONDUIT SECTION VIEW
1/2" = 1'-0"



3 R117 TO S101 DATA CONDUIT SECTION
1/2" = 1'-0"



2 R117 TO S101 SECURITY CONDUIT SECTION VIEW
1/2" = 1'-0"

PLOT DATE/TIME: 1/27/2026 10:36:41 AM

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145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

DESIGN 27 TECHNOLOGY + ACOUSTICS

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Jared Klingler
BICSI ID # 407182
EXPIRES 12-31-27
RCDD

REVISIONS:

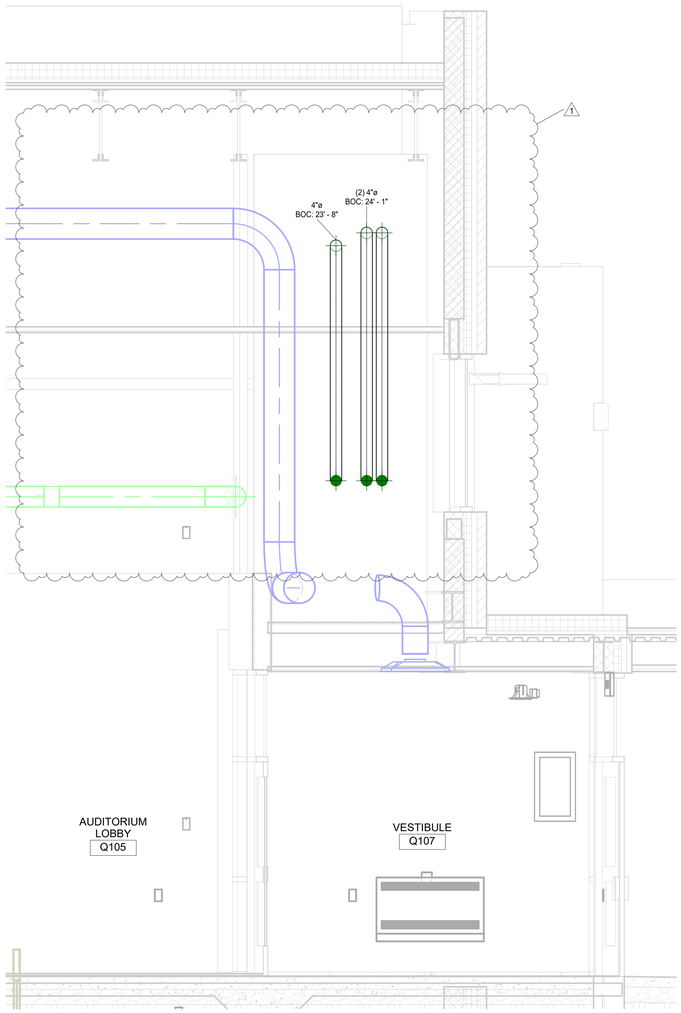
#	Date	Desc.
1	01/30/2026	Addendum 1

100% CONSTRUCTION DOCUMENTS

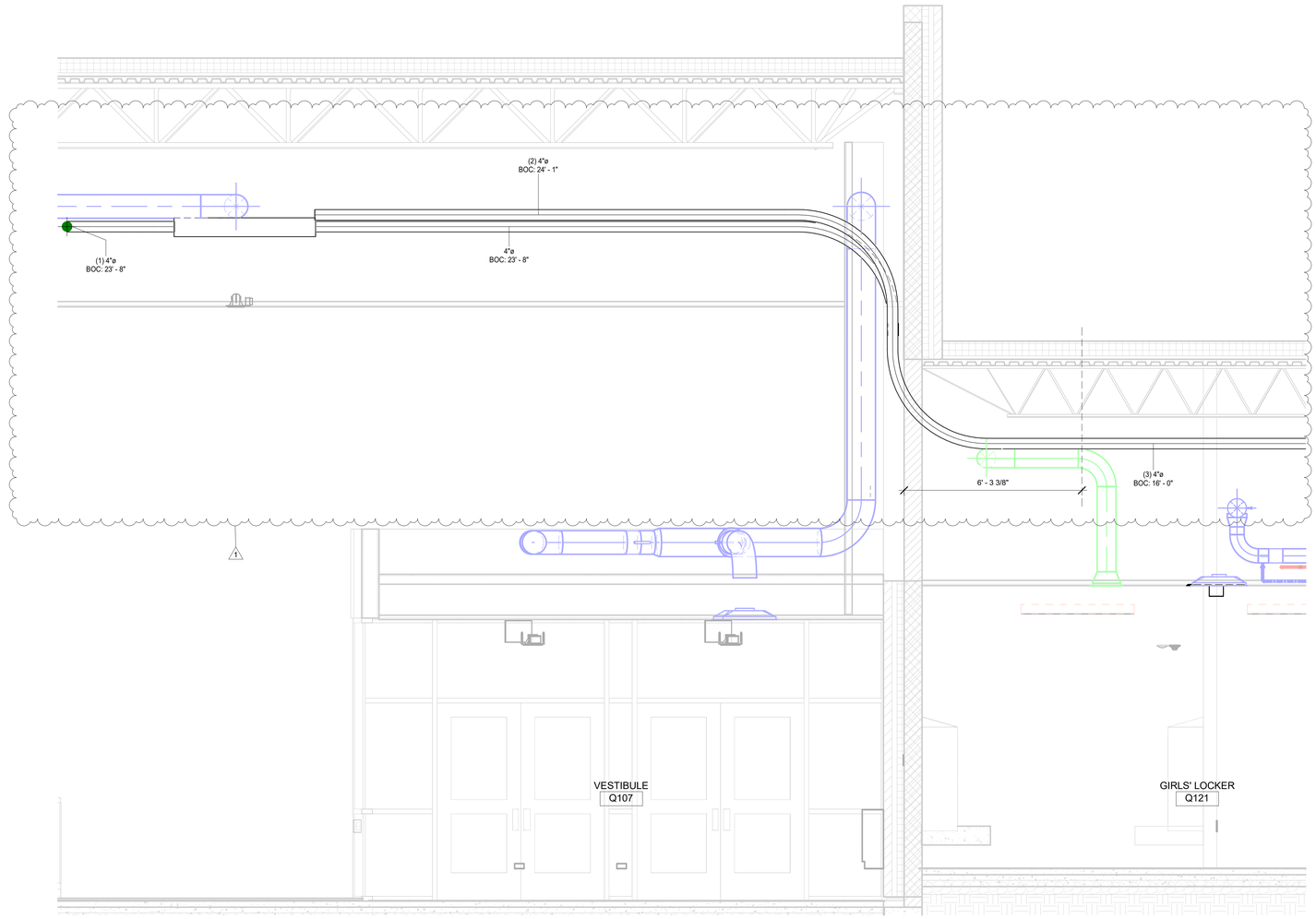
PROJECT: #24173S
DATE: 01-06-2026
DRAWN BY: HMB/KGP/JKK

DISTRIBUTION ELEVATIONS

T409



1 Q105 TO Q107 CONDUIT SECTION VIEW
1/2" = 1'-0"



2 Q107 TO Q121 CONDUIT SECTION VIEW
1/2" = 1'-0"

PLOT DATE/TIME: 1/27/2026 10:38:43 AM

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

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T410

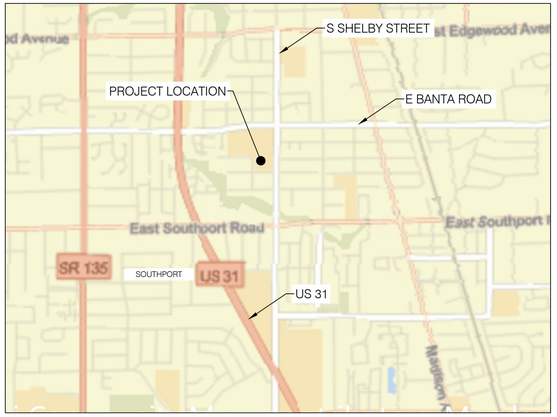
INDIANAPOLIS DEPARTMENT OF BUSINESS AND NEIGHBORHOOD SERVICES (BNS)
CITY-COUNTY BUILDING
200 E. WASHINGTON STREET, SUITE 107
INDIANAPOLIS, IN 46204
TEL: (317) 327-8700
DRNXX-XXXXX
FINAL PLANS APPROVED _____, 20XX

CIVIL CONSTRUCTION PLANS FOR:

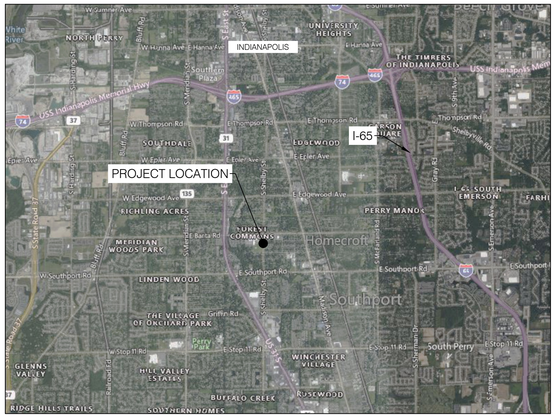
SOUTHPORT HIGH SCHOOL

971 E BANTA ROAD
INDIANAPOLIS, IN 46227

811 Know what's below. Call before you dig.



LOCATION MAP
SCALE: 1"=2000'



VICINITY MAP
SCALE: 1"=XX'

GENERAL NOTES:

1. THE CONSTRUCTION PLANS SHALL GOVERN OVER ANY OTHER FORM OF MEDIA, WHICH INCLUDES DIGITAL FILES OF THIS PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE FOR OBTAINING FROM THE RESPECTIVE CITY, COUNTY, STATE & FEDERAL AGENCIES PRIOR TO STARTING CONSTRUCTION.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DRAWINGS.
4. PRIOR TO WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
5. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS FOR THE GOVERNING MUNICIPALITY REQUIREMENTS.
6. MAINTENANCE OF TRAFFIC NEEDED FOR THIS PROJECT SHALL BE INSTALLED AND MAINTAINED PER INDOT SPECIFICATIONS/STANDARD DRAWINGS, INDOT DESIGN MANUAL, AND THE INDIANA MUTCD MANUAL ALONG WITH GOVERNING MUNICIPALITY REQUIREMENTS AND SHALL BE COORDINATED WITH THE ENGINEER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND SHALL VERIFY ALL DIMENSIONS ON THE SITE PRIOR TO THE START OF CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND IN THE PLAN FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
8. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
9. ALL GRADES AT THE SITE'S BOUNDARY SHALL MEET EXISTING GRADES.
10. NO WORK SHALL BE CONSTRUCTED OFFSITE UNLESS SHOWN OR DENOTED WITHIN THESE PLANS.
11. NO CONSTRUCTION WORK SHALL BE PERFORMED WITHIN THE ADJACENT OR ONSITE WATER TRIBUTARIES/WATERCOURSES UNLESS SHOWN OR DENOTED AS SUCH OTHERWISE WITHIN THESE PLANS
12. CONTRACTOR SHALL MINIMIZE DAMAGE TO ANY EXISTING TREES UNLESS NOTED OTHERWISE.
13. ALL CONSTRUCTION ACTIVITY ON THIS SITE IS TO BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE O.S.H.A. STANDARDS FOR WORKERS' SAFETY.
14. BEARING, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.

SITE DATA:

TOTAL SITE ACREAGE - 33.54 AC.
TOTAL ACREAGE OF DISTURBANCE - 4.60 AC.

PROPOSED CONSTRUCTION START - XXXXXXXXXXXXX
PROPOSED CONSTRUCTION END - XXXXXXXXXXXXX
WORK IS SCHEDULED TO BE COMPLETED IN ONE CONTINUOUS CONSTRUCTION PHASE.

PROJECT LOCATION

THE PROJECT IS LOCATED TO THE SOUTH OF E BANTA ROAD AND TO THE WEST OF SHELBY STREET. THE NEAREST LARGEST INTERSECTION IS E BANTA ROAD AND SHELBY STREET.

BENCHMARK DESCRIPTIONS:

CUT SQUARE ON NW COR OF CONC SIGN BASE, ±50' SOUTH OF THE CENTERLINE OF EAST BANTA ROAD, SE QUADRANT OF EAST BANTA ROAD AND THE WESTERLY ENTRANCE TO SOUTHPORT HIGH SCHOOL.
ELEV. 752.50 (NAVD 88)

ADDITIONAL BENCHMARKS

CUT "X" ON NW BONNET BOLT ON FIRE HYDRANT, ±56' EAST OF CENTERLINE OF SHELBY STREET & ±123' NORTH OF THE CENTERLINE OF MAYNARD DRIVE.
ELEV. 759.26 (NAVD 88)

SPECIFICATIONS:

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE INDIANAPOLIS STANDARDS, DETAILS, AND SPECIFICATIONS (LATEST EDITIONS) - UNLESS OTHERWISE NOTED.
2. INDIANA STATE DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD DRAWINGS AND SPECIFICATIONS (LATEST EDITIONS) SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS (SUPPLEMENTAL SPECIFICATIONS AND DETAILS).
3. CITIZENS WATER STANDARDS, DETAILS, AND SPECIFICATIONS (LATEST EDITIONS) SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS PERTINENT TO WATER LINE CONSTRUCTION.
4. CITIZENS AND INDIANAPOLIS FIRE DEPARTMENT STANDARDS, DETAILS, AND SPECIFICATIONS SHALL BE UTILIZED FOR ALL FIRE PROTECTION WATER LINES AND APPURTENANCE CONSTRUCTION PERTINENT TO THIS PROJECT.
5. CITIZENS SANITARY SEWER STANDARDS, DETAILS, AND SPECIFICATIONS (LATEST EDITIONS) SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS PERTINENT TO THIS PROJECT.
6. THE INDIANA MUTCD MANUAL (LATEST EDITION) SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS.

MAINTENANCE OF TRAFFIC (MOT) NOTES:

ALL MAINTENANCE OF TRAFFIC SHALL BE DESIGNED TO, FOLLOW, AND BE INSTALLED PER THE INDIANA MUTCD MANUAL, INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) SPECIFICATIONS AND STANDARD DRAWINGS, AND INDOT DESIGN MANUAL.

SIGNS AND PAVEMENT MARKING NOTES:

ALL SIGNS, PAVEMENT MARKINGS, AND STRIPING SHALL MEET THE CURRENT EDITION OF THE INDIANA MUTCD MANUAL, TRAFFIC CONTROL FOR BICYCLE FACILITIES, AND INDOT STANDARD DRAWINGS AND SPECIFICATIONS AND SHALL BE INSTALLED PER THE INDIANA MUTCD MANUAL, INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) SPECIFICATIONS AND STANDARD DRAWINGS, AND INDOT DESIGN MANUAL.

STORMWATER INFRASTRUCTURE SUMMARY TABLE (PRIVATE)		
DESCRIPTION	QUANTITY	UNITS
6" HDPE	40	LF
12" RCP	436	LF
15" RCP	359	LF
18" RCP	842	LF
24" RCP	694	LF
30" RCP	72	LF
36" RCP	597	LF
INDOT INLET TYPE A	8	EACH
INDOT MANHOLE TYPE C	7	EACH
INDOT INLET TYPE J	6	EACH
INDOT MANHOLE TYPE J	11	EACH
36" FLARED END SECTION	2	EACH

BMP TABLE		
TYPE	NORTHING	EASTING
DRY DETENTION POND	1610633.12	194445.82
ARC8	1610762.69	194445.13
UNDERGROUND DETENTION	1611510.10	193888.88
ARC10	1611549.60	193958.56

QUANTITIES NOTE:

ANY AND ALL QUANTITY TABLES, NOTES OR VALUES AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THE PLANS, DETAILS, AND SPECIFICATION GOVERN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE ENTIRE CONSTRUCTION SET AND DETERMINE ALL THE FINAL QUANTITIES FOR ALL NECESSARY ITEMS REQUIRED TO COMPLETE THIS PROJECT. THE OWNER OR THE ENGINEER WILL NOT BE HELD LIABLE OR RESPONSIBLE FOR ESTIMATES NOT CONFIRMED BY THE CONTRACTORS. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BIDDING AND CONSTRUCTION. IF DISCREPANCIES ARE FOUND, CONTACT THE ENGINEER IMMEDIATELY.

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C-0.0	COVER SHEET
C-1.0	GENERAL NOTES
C-1.1	OVERALL PHASE LAYOUT
C-2.0	EXISTING CONDITIONS PLAN
C-3.0	DEMO EROSION CONTROL PLAN
~~C-3.1~~	~~DEMO EROSION CONTROL PLAN~~
C-3.2	DEMO EROSION CONTROL PLAN
~~C-3.3~~	~~DEMO EROSION CONTROL PLAN~~
C-3.4	DEMO EROSION CONTROL PLAN
C-4.0	DEMOLITION PLAN
~~C-4.1~~	~~DEMOLITION PLAN~~
C-4.2	DEMOLITION PLAN
~~C-4.3~~	~~DEMOLITION PLAN~~
C-4.4	DEMOLITION PLAN
C-5.0	OVERALL PRE-EROSION CONTROL PLAN
~~C-5.1~~	~~PRE-EROSION CONTROL PLAN~~
C-5.2	PRE-EROSION CONTROL PLAN
~~C-5.3~~	~~PRE-EROSION CONTROL PLAN~~
C-5.4	PRE-EROSION CONTROL PLAN
C-5.5	OVERALL POST-EROSION CONTROL PLAN
~~C-5.6~~	~~POST-EROSION CONTROL PLAN~~
C-5.7	POST-EROSION CONTROL PLAN
~~C-5.8~~	~~POST-EROSION CONTROL PLAN~~
~~C-5.9~~	~~POST-EROSION CONTROL PLAN~~
C-5.10	SWPPP NOTES
C-5.11	EROSION CONTROL DETAILS
C-5.12	EROSION CONTROL DETAILS
C-6.0	SITE PLAN
~~C-6.1~~	~~SITE PLAN~~
C-6.2	SITE PLAN
~~C-6.3~~	~~SITE PLAN~~
C-6.4	SITE PLAN
C-6.5	SITE PLAN
C-6.6	SITE DETAILS
C-7.0	GRADING PLAN
~~C-7.1~~	~~GRADING PLAN~~
C-7.2	GRADING PLAN
~~C-7.3~~	~~GRADING PLAN~~
C-7.4	GRADING PLAN
C-7.5	GRADING PLAN
C-8.0	STORM LAYOUT PLAN
~~C-8.1~~	~~STORM LAYOUT PLAN~~
C-8.2	STORM LAYOUT PLAN
~~C-8.3~~	~~STORM LAYOUT PLAN~~
C-8.4	STORM LAYOUT PLAN
C-8.5	STORM LAYOUT PLAN
C-8.6	STORM LAYOUT PLAN
~~C-8.7~~	~~STORM LAYOUT PLAN~~
C-8.8	PHASE 1 STORM PROFILES
C-8.9	PHASE 1 STORM PROFILES
C-8.10	PHASE 1 STORM PROFILES
C-8.11	PHASE 1 STORM PROFILES
C-8.12	PHASE 1 STORM PROFILES
~~C-8.13~~	~~PHASE 2 STORM PROFILES~~
~~C-8.14~~	~~PHASE 2 STORM PROFILES~~
C-8.15	STORM DETAILS
C-8.16	STORM DETAILS
C-8.17	STORM DETAILS
C-9.0	UTILITY PLAN
~~C-9.1~~	~~UTILITY PLAN~~
C-9.2	UTILITY PLAN
C-9.3	UTILITY PLAN
C-9.4	UTILITY PLAN
C-9.5	UTILITY PLAN
C-9.6	UTILITY DETAILS
C-9.7	UTILITY DETAILS
C-9.8	UTILITY DETAILS

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

ROBERT SANTOS REGISTERED No. 12300688 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS: # DATE DESC.

100% CONSTRUCTION DOCUMENTS

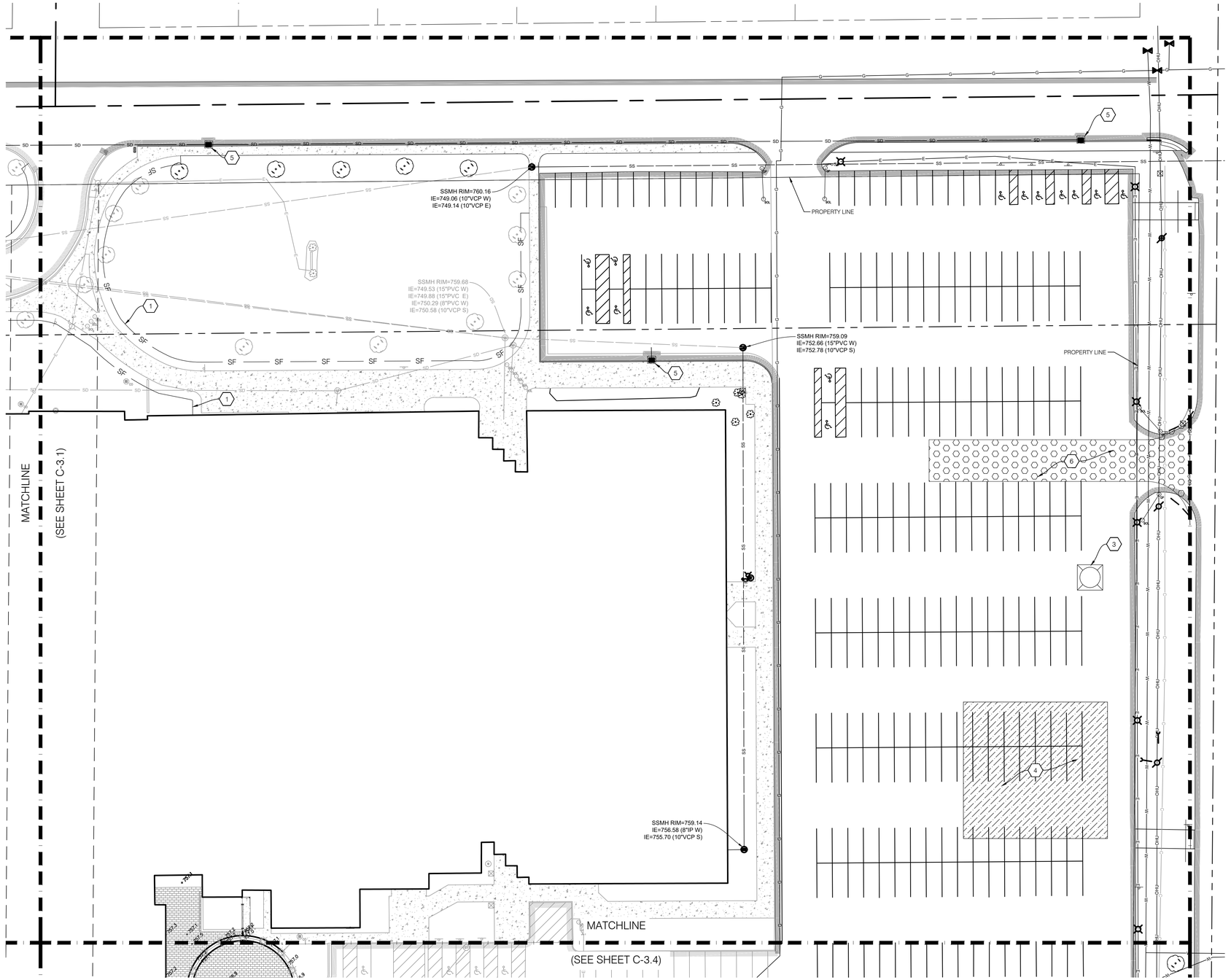
PROJECT: 2025.150
DATE: 12/29/2025
DRAWN BY: KIS

COVER SHEET

Addendum 1 2.2.26

C-0.0

PLOT DATE/TIME



DEMO EROSION CONTROL PLAN LEGEND

1	SILT FENCE	SF
2	LIMITS OF DISTURBANCE	LOD
3	CONCRETE WASHOUT	
4	CONSTRUCTION STAGING AREA	
5	TEMPORARY INLET PROTECTION	
6	TEMPORARY STABLE CONSTRUCTION ENTRANCE, SEE EROSION CONTROL PLAN DETAIL SHEET C-10.5	
7	TEMPORARY TOPSOIL STOCKPILE	

CITY OF INDIANAPOLIS NOTES:

1. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CHAPTER 600 OF THE CITY OF INDIANAPOLIS STORMWATER DESIGN AND SPECIFICATIONS MANUAL (LATEST EDITION).THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS SET FORTH WITHIN THE MANUAL AND ALL OTHER APPLICABLE LAWS.
2. IDEM, MCSW, AND/OR THE CITY INSPECTOR MAY REQUIRE ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES.

SWPPP CONTACT:

NAME: SOUTHPORT HIGH SCHOOL
ADDRESS: 971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227
TELEPHONE: 317-789-3700

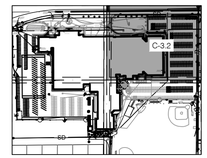
CONSTRUCTION SEQUENCE:

PRE-CONSTRUCTION ACTIVITIES:

1. CALL 811 SERVICE TO VERIFY THE LOCATION OF ANY EXISTING UTILITIES. 811 SHOULD BE NOTIFIED 2 WORKING DAYS BEFORE CONSTRUCTION BEGINS.
2. SILT FENCE IS TO BE INSTALLED ALONG ANY AREAS WHERE STORM RUNOFF MAY POTENTIALLY EXIT THE PROJECT SITE BASED ON THE EXISTING TOPOGRAPHY SHOWN ON THIS SHEET. THE SILT FENCE IS TO BE INSPECTED AND ANY ACCUMULATING SEDIMENT REMOVED.
3. DETERMINE IF EXISTING VEGETATION IS SUITABLE TO BE USED AS FILTER STRIPS ALONG SITE BOUNDARIES.
4. EXISTING PAVEMENT SHALL BE UTILIZED AS A CONSTRUCTION ENTRANCE UNLESS OTHERWISE SHOWN ON THIS SHEET.
5. A CONSTRUCTION STAGING AREA FOR EQUIPMENT AND VEHICLES SHALL BE PLACED AS SHOWN ON THIS SHEET.
6. ONSITE LOCATION IS TO BE ESTABLISHED FOR CONTRACTOR PLACEMENT OF APPROVED PLANS AND INSPECTION DOCUMENTS.

CONSTRUCTION ACTIVITIES:

1. ONCE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN IMPLEMENTED, BEGIN LAND CLEARING FOLLOWED IMMEDIATELY BY ROUGH GRADING. LARGE AREAS ARE NOT TO BE LEFT UNPROTECTED FOR MORE THAN 14 DAYS. ANY LARGE AREAS THAT MAY BE INACTIVE FOR MORE THAN 14 DAYS ARE TO BE STABILIZED.
2. UPON COMPLETION OF ROUGH GRADING, FINAL GRADE; SEED LANDSCAPE BERMS AND SWALES IMMEDIATELY AFTER GRADING IS COMPLETED.
3. UPON COMPLETION OF ROUGH GRADING, INSTALL SANITARY SEWERS, STORM SEWERS, AND SUBSURFACE DRAINS AS APPLICABLE. DURING CONSTRUCTION OF STORM SEWERS, INSTALL INLET PROTECTION MEASURES. INSTALL RIPRAP UPON COMPLETION OF END SECTION INSTALLATION.
4. ONCE SEWERS HAVE BEEN INSTALLED AND INLET PROTECTION MEASURES ARE IN PLACE, PROCEED WITH ASPHALT AND CONCRETE PAVEMENT CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES AND DEVICES DURING THE CONSTRUCTION PHASE AND UNTIL SILTING OF STREETS AND STORM NETWORK WILL NO LONGER OCCUR.
6. ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT FROM INSTALLED EROSION CONTROL DEVICES.
7. UPON ACHIEVING 70% OF VEGETATIVE COVER, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL COMPONENTS.



GRAPHIC SCALE
0' 30' 60' 90'
(IN FEET)

N
TRUE NORTH

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
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ROBERT SANTOS
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No. 12300688
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PROFESSIONAL ENGINEER

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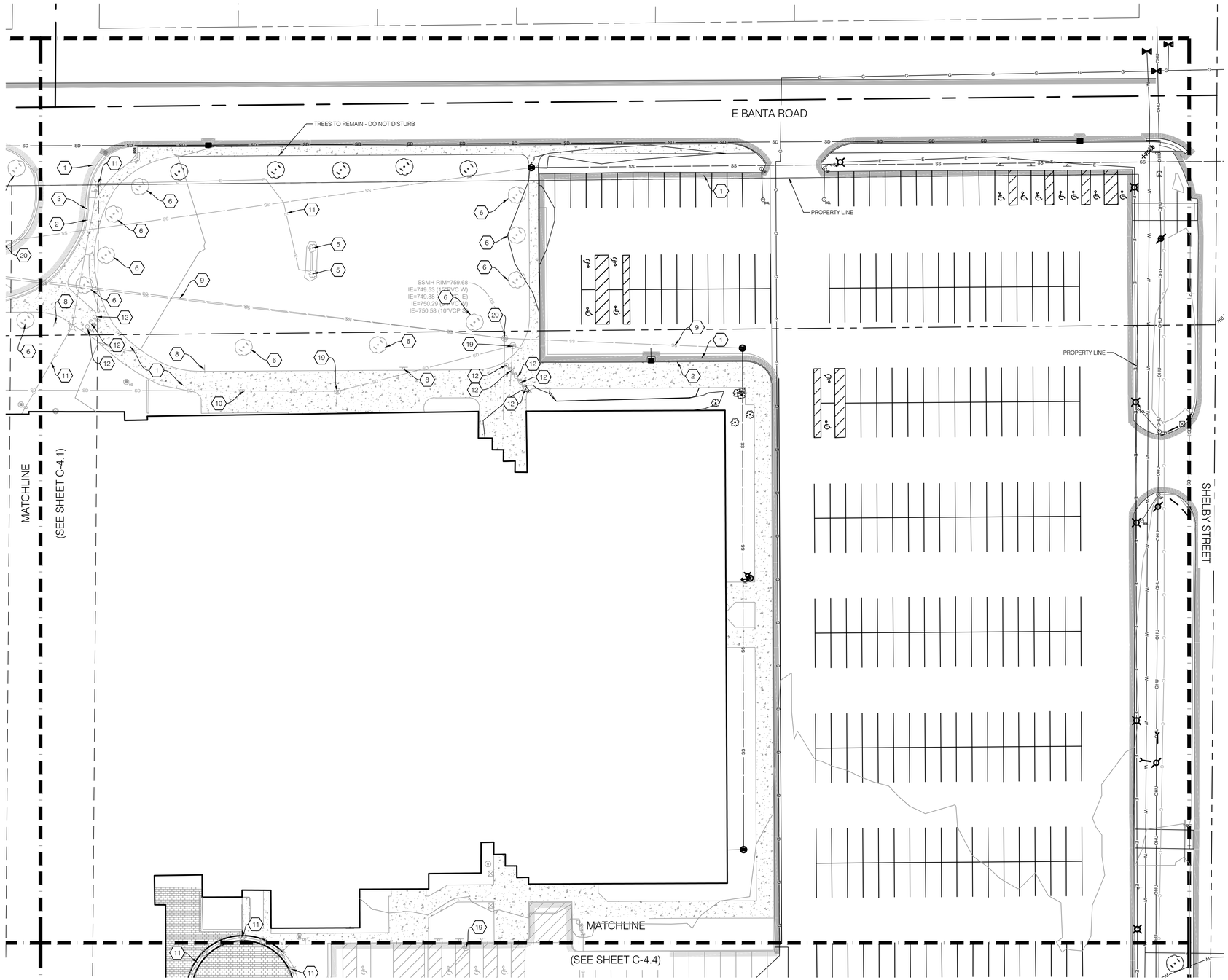
PROJECT:	2025.150
DATE:	12/29/2025
DRAWN BY:	KIS

DEMO EROSION CONTROL PLAN

Addendum 1 2.2.26

C-3.2

PLOT DATE/TIME

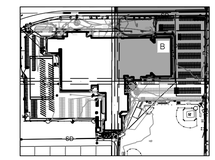


DEMOLITION LEGEND

1. DEMOLISH EXISTING ASPHALT PAVEMENT
2. DEMOLISH EXISTING CURB
3. DEMOLISH EXISTING GUTTER
4. DEMOLISH EXISTING CONCRETE
5. DEMOLISH EXISTING LANDSCAPE
6. DEMOLISH EXISTING TREE
7. REMOVE EXISTING FIRE HYDRANT
8. REMOVE EXISTING SIGN
9. DEMOLISH EXISTING SANITARY PIPE
10. DEMOLISH EXISTING STORM PIPE
11. DEMOLISH EXISTING UTILITY
12. DEMOLISH EXISTING BOLLARD
13. DEMOLISH EXISTING PAVERS
14. DEMOLISH EXISTING FENCE
15. DEMOLISH EXISTING BASEBALL FIELD
16. DEMOLISH EXISTING BUILDING
17. DEMOLISH EXISTING FENCE POST
18. DEMOLISH EXISTING DUGOUT
19. DEMOLISH EXISTING STORM STRUCTURE
20. DEMOLISH EXISTING SANITARY STRUCTURE
21. RELOCATE EXISTING SIGN
22. EDGE OF PAVEMENT REMOVAL
23. ADJUST TO GRADE - CHANGE CASTING GRADE TO MATCH PEDESTRIAN

DEMOLITION GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE ANY TREES, UTILITIES, EXISTING INFRASTRUCTURE THAT CONFLICTS WITH THE INSTALLATION OF THE PROPOSED. UTILITIES SHALL BE ABANDONED IN ACCORDANCE WITH LOCAL STANDARDS. THE CONTRACTOR SHALL NOTIFY THE OWNER (14) DAYS PRIOR TO THE INTERRUPTION OF UTILITY SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR ANY UTILITY CONNECTIONS THAT ARE NECESSARY FOR CONSTRUCTION.



GRAPHIC SCALE

0' 30' 60' 90'

(IN FEET)

N

TRUE NORTH

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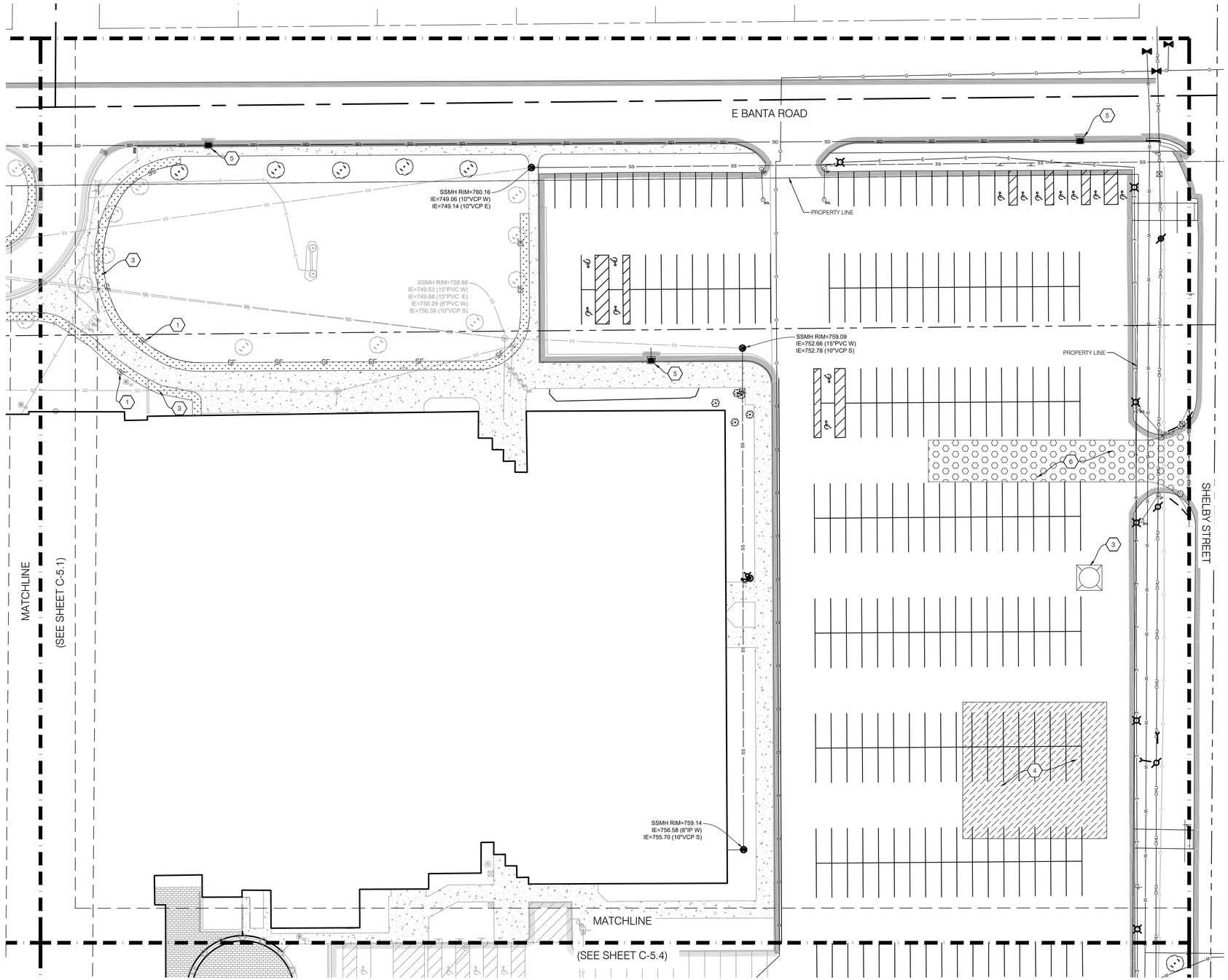
PROJECT:	2025.150
DATE:	12/29/2025
DRAWN BY:	KIS

DEMOLITION PLAN

Addendum 1 2.2.26

C-4.2

PLOT DATE/TIME:



PRE-EROSION CONTROL PLAN LEGEND

1	SILT FENCE	SF
2	LIMITS OF DISTURBANCE	LOD
3	CONCRETE WASHOUT	
4	CONSTRUCTION STAGING AREA	
5	TEMPORARY INLET PROTECTION	
6	TEMPORARY STABLE CONSTRUCTION ENTRANCE, SEE EROSION CONTROL PLAN DETAIL SHEET C-5.11	
7	TEMPORARY TOPSOIL STOCKPILE	
8	TEMPORARY SEEDING	

CITY OF INDIANAPOLIS NOTES:

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SWPPP CONTACT:

NAME: SOUTHPORT HIGH SCHOOL
ADDRESS: 971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227
TELEPHONE: 317-789-3700

CONSTRUCTION SEQUENCE:

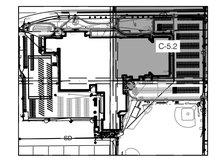
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3. DETERMINE IF EXISTING VEGETATION IS SUITABLE TO BE USED AS FILTER STRIPS ALONG SITE BOUNDARIES.
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6. ONSITE LOCATION IS TO BE ESTABLISHED FOR CONTRACTOR PLACEMENT OF APPROVED PLANS AND INSPECTION DOCUMENTS.

CONSTRUCTION ACTIVITIES:

1. ONCE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN IMPLEMENTED, BEGIN LAND CLEARING FOLLOWED IMMEDIATELY BY ROUGH GRADING. LARGE AREAS ARE NOT TO BE LEFT UNPROTECTED FOR MORE THAN 14 DAYS. ANY LARGE AREAS THAT MAY BE INACTIVE FOR MORE THAN 14 DAYS ARE TO BE STABILIZED.
2. UPON COMPLETION OF ROUGH GRADING, FINAL GRADE; SEED LANDSCAPE BERMS AND SWALES IMMEDIATELY AFTER GRADING IS COMPLETED.
3. UPON COMPLETION OF ROUGH GRADING, INSTALL SANITARY SEWERS, STORM SEWERS, AND SUBSURFACE DRAINS AS APPLICABLE. DURING CONSTRUCTION OF STORM SEWERS, INSTALL INLET PROTECTION MEASURES. INSTALL RIPRAP UPON COMPLETION OF END SECTION INSTALLATION.
4. ONCE SEWERS HAVE BEEN INSTALLED AND INLET PROTECTION MEASURES ARE IN PLACE, PROCEED WITH ASPHALT AND CONCRETE PAVEMENT CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES AND DEVICES DURING THE CONSTRUCTION PHASE AND UNTIL SILTING OF STREETS AND STORM NETWORK WILL NO LONGER OCCUR.
6. ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT FROM INSTALLED EROSION CONTROL DEVICES.
7. UPON ACHIEVING 70% OF VEGETATIVE COVER, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL COMPONENTS.

GRAPHIC SCALE
0' 30' 60' 90'
(IN FEET)



N
TRUE NORTH

LANCER ASSOCIATES ARCHITECTURE
145 NORTH EAST STREET
INDIANAPOLIS, IN 46204

JQOL QUALITY OF LIFE

PERRY TOWNSHIP SCHOOLS
SOUTHPORT HIGH SCHOOL ADDITION AND RENOVATION
971 EAST BANTA ROAD, INDIANAPOLIS, IN 46227

ROBERT SANTOS REGISTERED No. 12300688 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS:
DATE DESC.

100% CONSTRUCTION DOCUMENTS

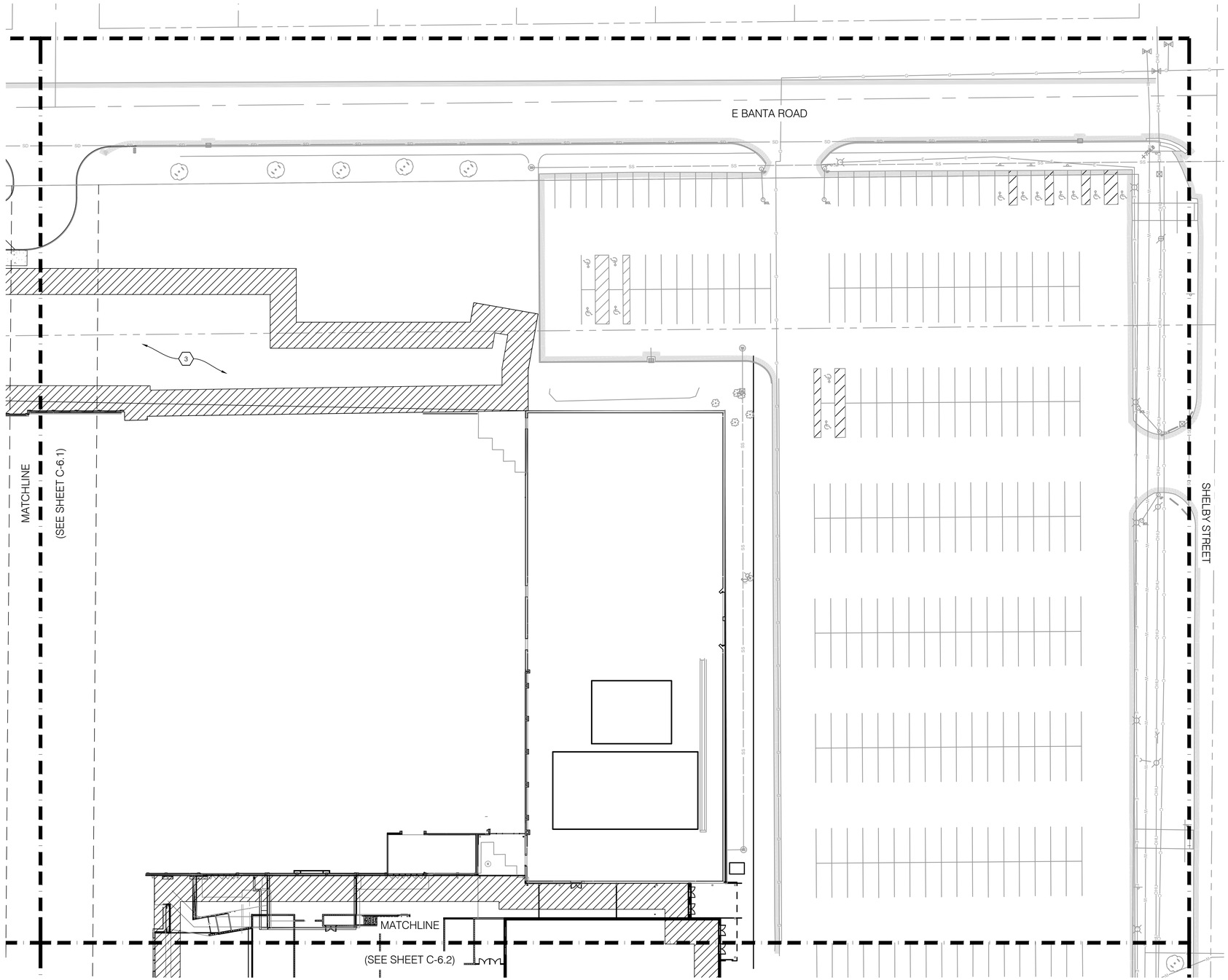
PROJECT:	2025.150
DATE:	12/29/2025
DRAWN BY:	KIS

PRE-EROSION CONTROL PLAN

Addendum 1 2.2.26

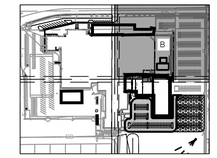
C-5.2

PLOT DATE/TIME:



SITE PLAN LEGEND

1. FULL DEPTH HMA PAVEMENT, SEE SITE DETAIL SHEET C-6.5
2. CONCRETE CURB, SEE SITE DETAIL SHEET C-6.5
3. BUILDING, SEE ARCHITECTURAL PLANS
4. STOP SIGN, SEE SITE DETAIL SHEET C-6.5
5. ADA SIGN, SEE SITE DETAIL SHEET C-6.5
6. LINE, PAINT, SOLID, WHITE, 4 IN.
7. LINE, PAINT, SOLID, YELLOW, 4 IN.
8. LINE, PAINT, SOLID, BLUE, 4 IN.
9. ALTERNATE - SEE ARCHITECTURAL PLANS
10. ADA SYMBOL, SEE SITE DETAIL SHEET C-6.5
11. LANDSCAPE ISLAND
12. DRY DETENTION POND
13. RETAINING WALL, SEE ARCHITECTURAL PLANS
14. SHOTPUT
15. ROLL CURB



GRAPHIC SCALE

0' 30' 60' 90'

(IN FEET)

N

TRUE NORTH

PLOT DATE/TIME:

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REVISIONS:

#	DATE	DESC.

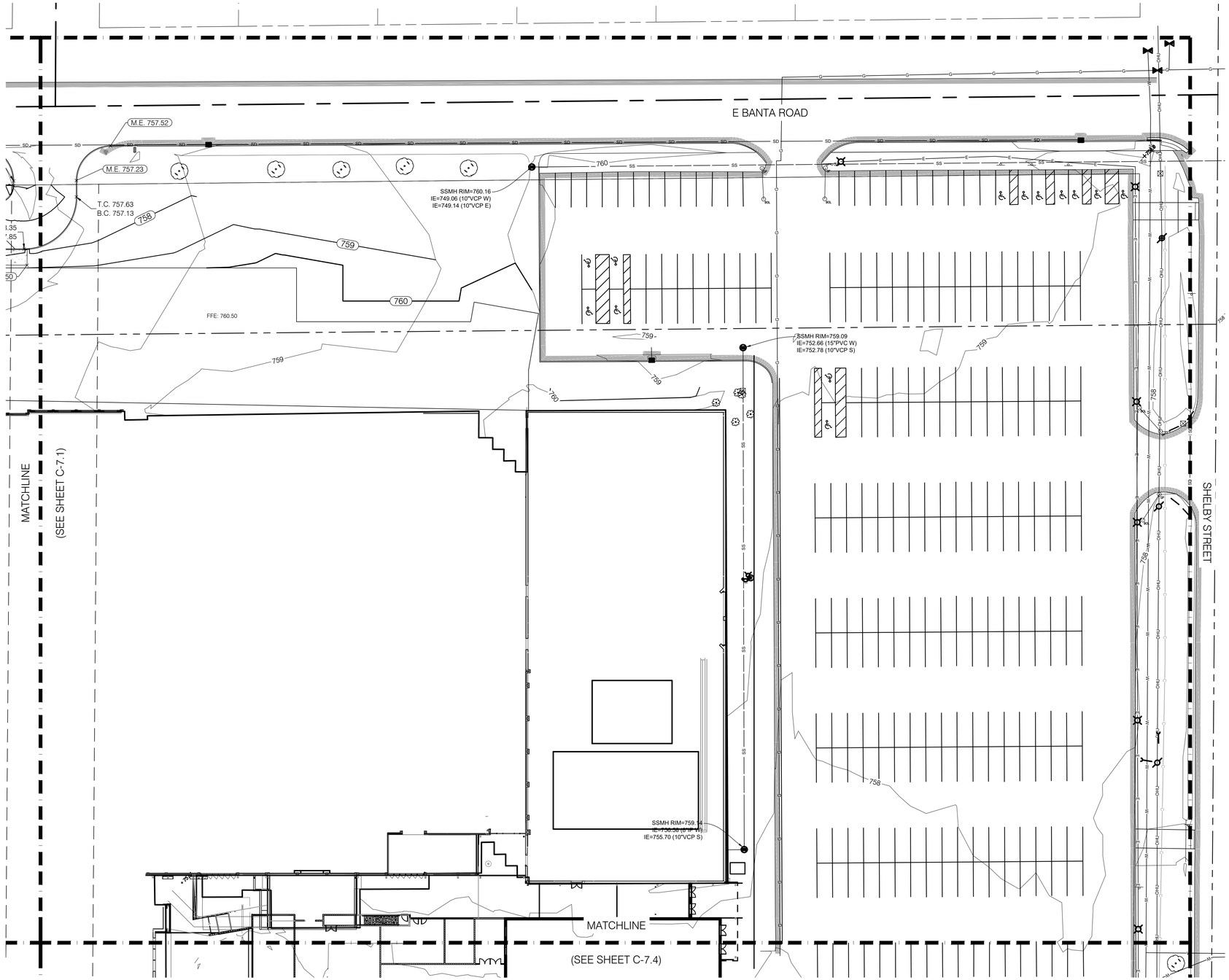
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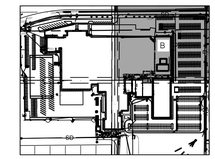
PROJECT:	2025.150
DATE:	12/29/2025
DRAWN BY:	KIS

SITE PLAN

Addendum 1 2.2.26

C-6.2





GRAPHIC SCALE

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(IN FEET)

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REVISIONS:

#	DATE	DESC.

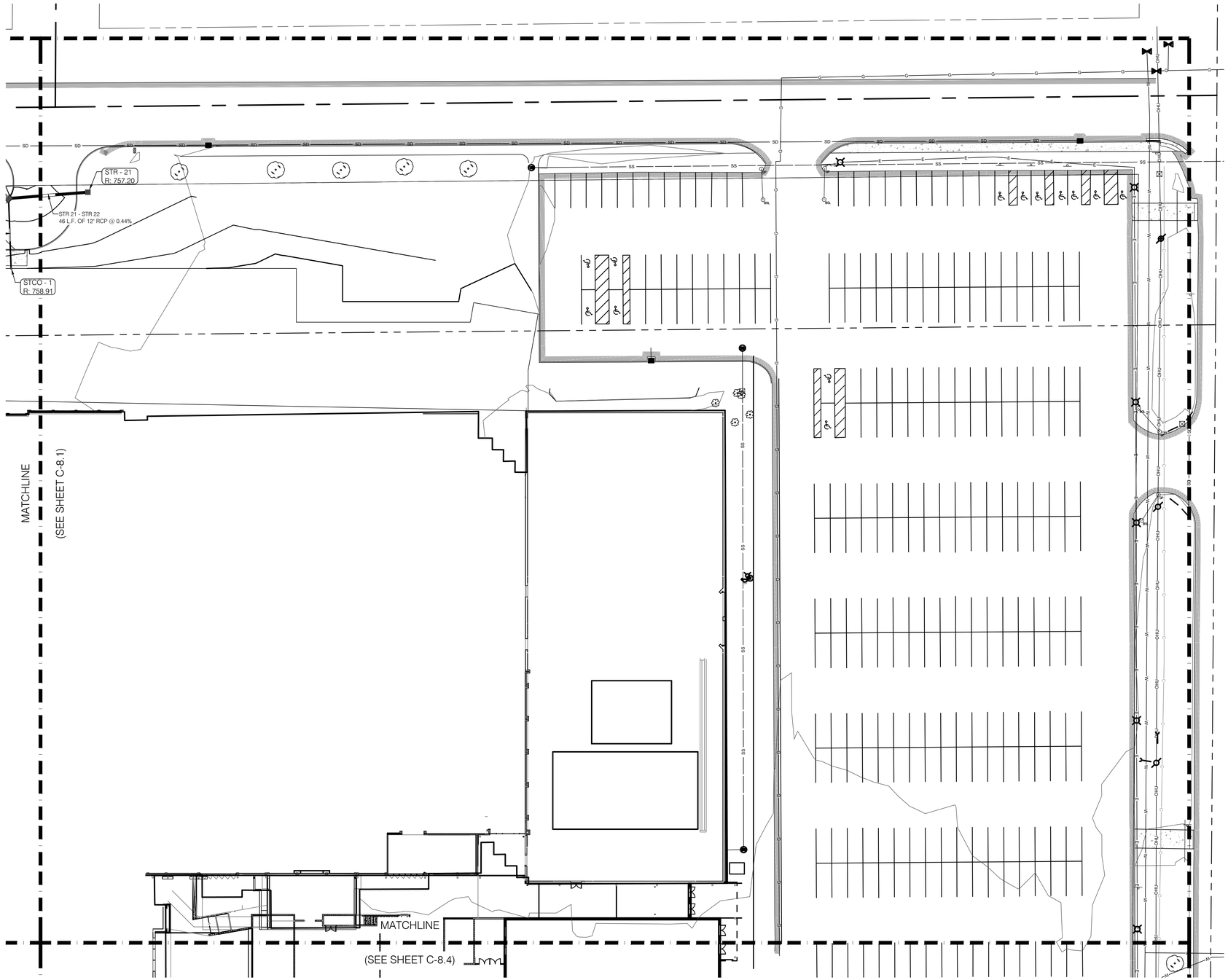
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PROJECT:	2025.150
DATE:	12/29/2025
DRAWN BY:	KIS

GRADING PLAN

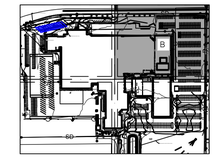
Addendum 1 2.2.26

C-7.2



STORMWATER GENERAL NOTES:

1. WHERE CONNECTIONS ARE MADE TO EXISTING OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THE MINIMUM STANDARDS OUTLINED IN CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEM.
2. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.
3. INLET CASTINGS SHALL HAVE THE WORDS "NO DUMPING, DRAINS TO STREAM" CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM 1" IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.
4. THE BENCHWALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A "U" SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/2-INCH PER FOOT SLOPE TO THE MANHOLE WALL.
5. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT REGARDING ANY EXISTING TREES OR INFRASTRUCTURE THAT CONFLICT WITH PROPOSED STORM SEWER INSTALLATION.
6. ALL STORM SEWER MANHOLE COVERS SHALL HAVE THE WORDS "STORM SEWER" CAST IN RECESSED LETTERS TWO (2) INCHES IN HEIGHT.



GRAPHIC SCALE
0' 30' 60' 90'
(IN FEET)

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DATE DESC.

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DATE: 12/29/2025
DRAWN BY: KIS

STORM LAYOUT PLAN

Addendum 1 2.2.26

C-8.2

PLOT DATE/TIME: January 6, 2026

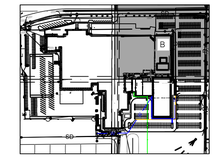
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IE=749.14 (10"VCP E)

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IE=752.78 (10"VCP S)

SSMH RIM=759.14
IE=755.58 (8"PVC W)
IE=755.70 (10"VCP S)

MATCHLINE
(SEE SHEET C-9.1)

MATCHLINE
(SEE SHEET C-9.4)



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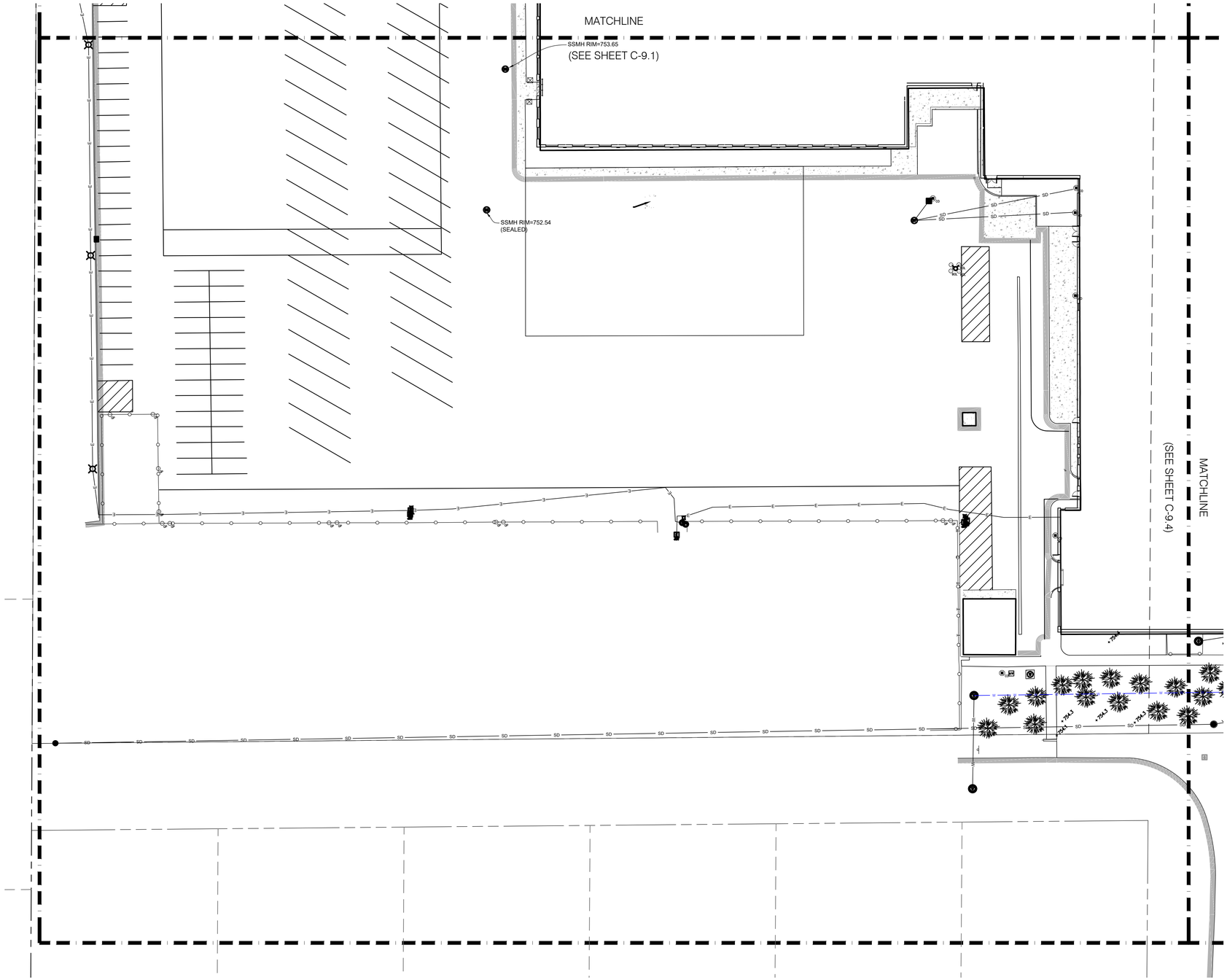
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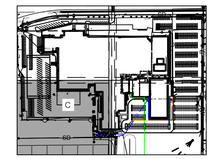
PROJECT:	2025.150
DATE:	12/29/2025
DRAWN BY:	KIS

UTILITY PLAN

Addendum 1 2.2.26

C-9.2





GRAPHIC SCALE

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UTILITY PLAN

Addendum 1 2.2.26

C-9.3