

Hudsonville Public Schools

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DIVISION 00 – BIDDING & CONTRACT REQUIREMENTS

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END OF SECTION

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LIST OF DRAWINGS

File/Name Description

Section

Section 27 10 00 – Low Voltage Cabling - Drawings

Section 27 41 16 – Multimedia System - Drawings

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ALTERNATES:

Section 27 10 00 – Low Voltage Cabling – Alternate Additions Drawings

Section 27 51 16 – Public Address System – Alternate Additions Drawings

Section 27 53 13 – Clock System – Alternate Additions Drawings

APPENDIX:

Camera System Inventory

Typical Drawing

NOTE:

Other coordination drawings may be obtained from the Owner's Construction Manager or may be reviewed on site at the field office at the worksite. Such drawings may include electrical plans, reflected ceiling plans or other plans as may be updated due to issuance of bulletins or field changes.

END OF SECTION

SECTION 00 11 16
INVITATION TO BID

PART 1 - GENERAL

1.01 WORK INCLUDED: NEW BUILDING TECHNOLOGY SYSTEMS

- A. Hudsonville Public Schools (Owner) is seeking bids for purchase and installation of new classroom multimedia, public address, clock, and video monitoring, bus video monitoring and associated equipment and installation. Proposed systems shall be configured and installed as described herein.

- B. Project: Hudsonville Public Schools Technology Additions and Renovations

- C. Owner: Hudsonville Public Schools
3886 Van Buren
Hudsonville, MI 49426

- D. Designer: Communications by Design, Inc.

- E. Sites of Work:
 - 1. Alward Elementary School
3811 Port Sheldon St
Hudsonville, MI 49426

 - 2. Bauer Elementary School
8136 48th Avenue
Hudsonville, MI 49426

 - 3. Forest Grove Elementary School
1645 32nd Avenue
Hudsonville, MI 49426

 - 4. Georgetown Elementary School
3909 Baldwin Street
Hudsonville, MI 49426

 - 5. Jamestown Lower Elementary School
2522 Greenly
Hudsonville, MI 49426

 - 6. Jamestown Upper Elementary School
3291 Lincoln Ct.
Hudsonville, MI 49426

7. Park Elementary School
5525 Park Avenue
Hudsonville, MI 49426
8. South Elementary School
4900 - 40th Avenue
Hudsonville, MI 49426
9. Park Elementary School
5525 Park Avenue
Hudsonville, MI 49426
10. Transportation Building
3550 Allen Street
Hudsonville, MI 49426
11. Hudsonville Sports Complex
7855 36th Avenue
Hudsonville, MI 49426

1.02 GENERAL DESCRIPTION OF PROJECT SEQUENCE

- A. Sequences and dates specified herein are for information only and indicate the plan and intent of the Owner. Actual dates shall be established based on final award of project.
- B. Sequence of operations shall be established by the Contractor within the guidelines established by the Owner as required to meet schedules.
- C. Schedule:
 1. Request for Bid Distributed: August 16, 2023
 2. Pre-Bid Meeting: August 23rd at 4:00 PM
 3. Intent to Bids Due: August 25th at 5:00 PM
 4. Question and Clarification Deadline: August 29th at 5:00 PM
 5. Public Bids Due: September 6th at 4:00 PM

1.03 TYPES OF BIDS

- A. Bids shall be submitted in total and with required detail for each item bid and as is required herein and include all portions of the work identified for the individual bid package as specified herein. Bids shall be made on unaltered bid forms as included herein. Bidder shall fill in all blank spaces and the bid

shall be signed by a legal officer or agent authorized to bind the bidder to a contract.

1.04 PRE-BID CONFERENCE

- A. A pre-bid conference will be held. A discussion of the project and review of bid documents will be followed by a site review and an opportunity to ask questions. Attendance is highly encouraged for all contractors interested in bidding on any components or portions of this project. Attendance at the pre-bid conference will be a factor considered during evaluation of bids.
- B. Time: August 23rd at 4:00 PM
 - 1. Bauer Elementary School
8136 48th Avenue
Hudsonville, MI 49426
 - 2. Any drawings identified in the table of contents herein will be distributed and reviewed at this conference.
- C. Physical building inspections of sites of work will be provided for at this time.

1.05 TIME AND PLACE OF BID RECEPTION

- A. Physically sealed bids for the base bid work will be received at the district office and read aloud at a public opening. Bids arriving after the appointed time as determined by the Owner's representative conducting the public opening, shall be returned unopened. Bids will be accepted beginning forty-eight (48) hours prior to the appointed opening time provided they are in sealed packages and addressed as specified herein.
- B. Bid Receipt Deadline: September 6th at 4:00 PM
- C. Bid Opening Location: Hudsonville Public Schools
3886 Van Buren
Hudsonville, MI 49426
- D. Faxed or electronically delivered bids will not be accepted.

1.06 EXAMINATION AND PROCUREMENT OF DOCUMENTS

- A. Specifications and any relevant Drawings may be obtained from the Technology Designer. Contractors may obtain copies by documented request to Communications by Design, Attn: Rebecca Szilagy. Requests may be made by:
 - 1. Writing – 4101 Sparks Drive Grand Rapids, Michigan 49546

2. Email – rszilagy@cbdconsulting.com

1.07 BID SECURITY

- A. Bid security equal to five percent (5%) of the total bid amount, must accompany each base bid in accordance with the Instruction to Bidders.
- B. Bid security shall be either a Bid Bond issued by a company licensed in the State of Michigan to furnish bid security or Certified Check made payable to the Owner.

1.08 OWNER’S RIGHT TO REJECT BIDS

- A. The Owner reserves the right to reject any and/or all bids. The Owner reserves the right to accept a bid, or portion thereof by issuance of a valid purchase order within ninety (90) calendar days following the bid opening. No bids may be withdrawn during this time without the specific approval of the Owner.
- B. Withdrawal of any Bids after the opening time without specific approval by Owner may result in forfeiture of required bid security by Bidder.

1.09 DEFINITIONS

- A. “Owner” is intended to mean Hudsonville Public Schools, a general powers school district.
- B. For purposes of this project, the terms “Architect”, “Engineer” and “Designer” are used synonymously to refer to Communications by Design, Inc., a Michigan Corporation.
- C. The term “Bidder” refers to any organization properly and accurately submitting a complete “Intent to Bid Form” prior to the required time specified herein and subsequently properly submitting completed set of bid documents as specified herein.
- D. The term “Contractor” herein is a reference to the firm(s) eventually selected by the Owner to provide the intended system(s), or any portion thereof, and fulfill the terms of the contract.
- E. The term Contract is a reference to the collective set of documents, drawings, diagrams, Owner’s Purchase Order, Addenda, and all other materials as provided for herein defining arrangement between Owner and Contractor.
- F. The term Addenda (or Addendum) are that portion of the Contract consisting of modifications, amendments, deletions, or substitutions to the contract documents issued prior to the execution of the Contract.

END OF SECTION

SECTION 00 40 00
BID FORMS
Intent to Bid Form

Complete and submit the following form if you have interest or intend to submit a Bid for this project. Unaltered and completed forms must be received on or before 4:00 PM on September 6 , 2023. Only bidders returning a completed “Intent to Bid Form” will be notified of required addenda.

Company Information

Name: _____

Address Line1: _____

Address Line2: _____

City, State and Zip Code _____

Primary Contact

Information

Name: _____

Phone No.: _____

Fax. No.: _____

E-Mail Address: _____

Portions of the bid for which you will be responding:

- Section 27 10 00 – Low Voltage Cabling
- Section 27 41 16 - Multimedia Systems
- Section 27 51 16 - Public Address System
- Section 27 53 13 - Clock System
- Section 28 13 00 – Building Access System
- Section 28 23 00 - Video Monitoring System

Submit unaltered and completed form to:

Rebecca Szilagy

Communications by Design, Inc.

rszilagy@cbdconsulting.com

SEALED BID LABEL

Separate, or fold over, the label on the line below, and affix to the exterior of sealed container so information is clearly visible for Bid Submission. Ensure label is attached in a manner to prevent accidental removal or defacement. Label shall serve as sole identification for sealed bid at submission.

BID TO: Hudsonville Public Schools
Attention: Mr. Patrick Briggs
3886 Van Buren
Hudsonville, MI 49426

BID FROM: _____

PROJECT: Hudsonville Public Schools Technology Additions and
Renoavations
TECHNOLOGY BID 3019

INCLUDING Addendum No. _____ Dated _____
ADDENDA: Addendum No. _____ Dated _____

DUE: September 6, 2023

BID FORM

BID TO: Hudsonville Public Schools
Attention: Mr. Patrick Briggs
3886 Van Buren
Hudsonville, MI 49426

BID FROM: _____

PROJECT: Hudsonville Public Schools Technology Additions and
Renovations
TECHNOLOGY BID 3019

The undersigned, having familiarized themselves with all local conditions affecting the cost of work, and having examined the site and all applicable Bidding Documents herein, and herein referenced, including, but not limited to, all addenda issued thereto, hereby propose to furnish all labor, material, equipment, applicable taxes and services required for proper completion of each of the following categories of this project for the sum of:

Bid Category _____ Title _____

Dollars (\$) _____).
Said amount written above constituting the Base Bid

Bid Category _____ Title _____

Dollars (\$) _____).
Said amount written above constituting the Base Bid

Bid Category _____ Title _____

Dollars (\$) _____).
Said amount written above constituting the Base Bid

Bid Category _____ Title _____

Dollars (\$) _____).
Said amount written above constituting the Base Bid

Bid Category _____ Title _____
_____ Dollars (\$ _____).

Said amount written above constituting the Base Bid

Bid Category _____ Title _____
_____ Dollars (\$ _____).

Said amount written above constituting the Base Bid

TAXES:

Bid sum includes all applicable taxes.

ALLOWANCES:

Base bid includes all applicable allowance cost(s) as set forth herein.

COST OF BONDS:

Bid sum includes cost of furnishing a Performance Bond and Labor and Material Payment Bond, each in the amount of one hundred percent (100%) of the bid.

ACKNOWLEDGEMENT OF ADDENDA:

The following addenda have been received, are hereby acknowledged, and their execution is included in both base bid and alternate bids herein.

Addendum No. _____ Dated _____ Addendum No. _____ Dated _____

Addendum No. _____ Dated _____ Addendum No. _____ Dated _____

ALTERNATES:

Based bid amount may be increased or decreased in accordance with each of the following alternate bids as may be selected, following procedures stated herein. Voluntary Alternates shown below are identified and described in detail on appropriate attachment(s) as referenced herein.

Alternate A: Low Voltage Cabling Additions _____

Alternate B: Public Address System Additions _____

Alternate C: Clock System Additions _____

Alternate D: 5 Year Warranty on Access Control System Equipment and Software _____

Alternate E: Multimedia Three (3) year parts and labor warranty _____

Alternate F _____

Alternate G _____

PRINCIPAL SUBCONTRACTORS

As required herein, the following Subcontractors are proposed to be used for this project:

Legal Name: _____ Work Proposed _____

Legal Name: _____ Work Proposed _____

Legal Name: _____ Work Proposed _____

BID SECURITY:

Accompanying this Bid, as required herein, is a bid security in the form of Certified Check/Cashier's Check/Bidder's Bond in the amount of:

_____ Dollars (\$ _____), payable to the Owner, which it is agreed, shall be retained as liquidated damages, not as a penalty, by the Owner, if the undersigned fails to execute the Contract in conformity with the form of Contract incorporated and referenced herein and fails to furnish specified bonds within ten (10) days after date of issuance of a Letter of Intent to the undersigned.

If awarded the Contract, the undersigned agrees to commence work within ten (10) calendar days after date of issuance of a Purchase Order, which shall be considered as the notice to proceed, and agrees to complete the work in accordance with the schedule herein.

FAMILIAL DISCLOSURE:

Accompanying this Bid, as required herein, is a legally executed and notarized Michigan Familial Disclosure Statement.

EXCEPTIONS:

Bidder takes no exception to terms, conditions, specifications and/or any other requirements herein unless expressly noted, and specifically identified as provided for herein on unaltered Contract Exception form accompanying this Bid.

SIGNATORY AUTHORITY:

The undersigned certifies they are an authorized agent of the bidding entity, and legally able to bind the bidding entity to the terms, conditions and responsibilities of this, and all referenced bid documents. Furthermore, the undersigned acknowledges an understanding that non-compliance of this authority or any other bidding requirements may result in forfeiture of bid security, dismissal of consideration of bid submitted, and/or personal liability against the signatory.

AGREEMENT:

The undersigned agree(s) to provide the post-bid information required within ten (10) days after notification of a Letter of Intent and to execute an agreement for work covered by this Bid on the Owner's standard Purchase Order for which terms and conditions are expanded to include all Bidding Documents and subsequent addenda issued thereto.

In submitting this bid, it is understood that the Owner reserves the right to reject any or all bids. It is further agreed that this bid is binding for a period of Ninety (90) days from the opening thereof.

Respectfully submitted,

Date: _____

Firm Name: _____

By: _____

Signed: _____

Title: _____

Official Address: _____

Telephone Number: _____

Fax Number: _____

Primary Contact Email Address: _____

(If Corporation, affix Seal

Michigan Familial Relationship Disclosure Statement

In accordance with Section 1267 of Michigan Revised School Code this sworn and notarized statement of an authorized representative, discloses any familial relationship between the owner and/or any employee of the Bidder, and any member of the project Owner’s governing Board(s) or Superintendent(s).

If any conflict of interest is discovered subsequent to submission of bid, written disclosure shall be submitted to the project Owner within seven (7) days of discovery. The project Owner reserves the right to immediately terminate any contract with Bidder upon notification of a conflict of interest. Upon such termination, the project Owner shall compensate Bidder only for the value of any goods or services provided to the Owner prior to such termination as determined by Designer.

(Check only one Box Below)

It is hereby acknowledged and certified by Bidder that no familial relationship exists between the owner or any employee of the Bidder and any member of the project Owner’s governing Board(s) or Superintendent(s).

A familial relationship exists between the owner or an employee of the Bidder and a member of the project Owner’s governing Board(s) or Superintendent(s). The person(s) and the relationship(s) are as follows:

Bidder

Board or Superintendent

Bidder Authorized Representative:

Bidder: _____

Representative’s Signature: _____

Print or Type Name: _____

Representative’s Title: _____

Subscribed and sworn this _____ day of _____, 2023.

In the County of _____ State of _____

By _____
Notary Public Signature

Seal or Stamp:

My commission expires on: _____

IRAN LINKED BUSINESS AFFIDAVIT

All Bids shall be accompanied by a sworn statement disclosing any Iran Linked Business relationship that exists within the owners, including its officers, directors, and employees.

The undersigned, owner or authorized officer of _____ (bidder), pursuant to Michigan Public Act No. 517 of 2012, the “Iran Linked Business” requirement provided in the Hudsonville Public Schools Proposals hereby represents and warrants that the bidder, including its officers, directors and employees, is not an “Iran Linked Business” within the meaning of the applicable Public Act, and that in the event bidder is awarded a contract as a result of this RFB, the bidder will not become an “Iran Linked Business” at any time during the course of performing under the contract. The bidder further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or 2 times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the District investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on future Requests for Bids for three (3) years from the date that it is determined that the person has submitted the false certification.

There is not an “Iran Linked Business” that exists within the bidder and/or owner, officers, directors and employees.

Bidder:

[Company Name]

[Signature]

[Title]

Notary:

This instrument was acknowledged before me, a Notary Public in and for

_____ County, on this

_____ day of _____, 20_____.

[Notary Public Signature]

My Commission expires: _____

Acting in the County of: _____

REFERENCES

Customer name: _____
Address: _____
City/State/Zip: _____
Contact name: _____
Contact title: _____
Phone: _____
E-mail: _____
Scope of project: _____

Date of completion: _____

Customer name: _____
Address: _____
City/State/Zip: _____
Contact name: _____
Contact title: _____
Phone: _____
E-mail: _____
Scope of project: _____

Date of completion: _____

Customer name: _____
Address: _____
City/State/Zip: _____
Contact name: _____
Contact title: _____
Phone: _____
E-mail: _____
Scope of project: _____

Date of completion: _____

CONTRACT EXCEPTIONS

Check one Box

Bidder takes no exception to, and agrees to comply with all sections, terms, conditions and/or requirements of the Contract Documents.

Bidder proposes the following exceptions to the Contract Documents:

<i>Paragraph Number</i>	<i>Explanation</i>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

NOTE:
Exception(s) to any bid sections, terms, conditions and/or requirements deemed excessive for any reason by the Owner and/or Designer may result in disqualification of Bid.

SCHEDULE OF VALUES/BID FORM

(Bidder may submit version of only **this** form with slight variation. All information in this form is required for each division/category of work being bid. Submit a completed separate form for each division/category of work clearly delineating on the form the division/category of work for that form. Form submitted must materially match below both in content and format. Electronic version of this form for each project section/division/category being bid is required with bid package as Microsoft Excel compatible spreadsheet on a USB drive. Failure to provide appropriate and complete **SCHEDULE OF VALUES** for each division/category of work, as determined by the Owner and/or Designer, may result in disqualification of Bid.)

Bidder: _____

Bid Division: _____

<i>ID</i>	<i>Qty</i>	<i>Part Number</i>	<i>Mfg and Description</i>	<i>Unit Cost</i>	<i>Unit Labor Cost</i>	<i>Total Proposed Cost</i>
			PROJECT MANAGEMENT			
			TRAINING			
			BONDS AND INSURANCE			
			GRAND TOTAL (Must match base bid)			

SCHEDULE OF VALUES/BID FORM

*(Bidder may submit version of only **this** form with slight variation. All information in this form is required for each division/category of work being bid. Submit a completed separate form for each division/category of work clearly delineating on the form the division/category of work for that form. Form submitted must materially match below both in content and format. Electronic version of this form for each project section/division/category being bid is required with bid package as **Microsoft Excel** compatible spreadsheet on a USB drive. Failure to provide appropriate and complete SCHEDULE OF VALUES for each division/category of work, as determined by the Owner and/or Designer, may result in disqualification of Bid.)*

Bidder: _____

Bid Division: _____

<i>ID</i>	<i>Qty</i>	<i>Part Number</i>	<i>Mfg and Description</i>	<i>Unit Cost</i>	<i>Unit Labor Cost</i>	<i>Total Proposed Cost</i>
			PROJECT MANAGEMENT			
			TRAINING			
			BONDS AND INSURANCE			
			GRAND TOTAL (Must match base bid)			

SCHEDULE OF VALUES/BID FORM

*(Bidder may submit version of only **this** form with slight variation. All information in this form is required for each division/category of work being bid. Submit a completed separate form for each division/category of work clearly delineating on the form the division/category of work for that form. Form submitted must materially match below both in content and format. Electronic version of this form for each project section/division/category being bid is required with bid package as Microsoft Excel compatible spreadsheet on a USB drive. Failure to provide appropriate and complete SCHEDULE OF VALUES for each division/category of work, as determined by the Owner and/or Designer, may result in disqualification of Bid.)*

Bidder: _____

Bid Division: _____

<i>ID</i>	<i>Qty</i>	<i>Part Number</i>	<i>Mfg and Description</i>	<i>Unit Cost</i>	<i>Unit Labor Cost</i>	<i>Total Proposed Cost</i>
			PROJECT MANAGEMENT			
			TRAINING			
			BONDS AND INSURANCE			
			GRAND TOTAL (Must match base bid)			

END OF SECTION

SECTION 00 21 13
INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.01 OWNERSHIP

- A. Bidders prepare and provide bids without any cost to the Owner and/or Designer. Once opened, bids become the sole property of the Owner. Bidders have no claim to, or ownership of bids opened. Bids become subject to all legal statutes including, if applicable, United States and Michigan Freedom of Information Acts and related laws.

1.02 COMPLIANCE

- A. This document establishes the primary system(s) design configuration. The Bidder's bid response shall include all services, supplies, components, and equipment required to provide a complete turnkey system(s) which meets or exceeds all specifications for each given bid item being proposed.
- B. Owner prefers to enter into a contract with a single bidder for all materials for completion of this project but shall consider combinations of portions of bids from various bidders. The Owner reserves the right to award portions of the project to multiple bidders who will be required to cooperate with one another in order to complete the work.
- C. By their response, Bidders agree to comply with all sections, terms, conditions and/or requirements of the contract documents except as expressly noted, and specifically identified by paragraph number on the unaltered Contract Exceptions Bid Form. Exceptions to any bid sections, terms, conditions and/or requirements deemed excessive by the Owner and/or Bid Coordinator may disqualify Bid.
- D. In compliance with the Freedom of Information Act (FOIA), the Owner shall make bid documents available for public review after issuance of purchase order to the successful bidder/s.
- E. In connection with the execution of this Contract, Contractor and any Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, or national origin.
- F. Negligence in preparation, improper preparation, errors in, or omissions from Bids shall not relieve Bidder from fulfillment of any and all obligations and requirements of the Contract Documents.

- G. All Bid documents and worksheets must be completed in detail and submitted together on time.
- H. All documents constituting the entire present agreement shall be construed in accordance with and governed by the laws of the State of Michigan.
- I. Designer shall have authority for interpretation of Contract Documents. In the event terms, provisions or any other portion of the Contract Documents is/are in dispute, Designer shall have full and final authority to interpret the Contract Documents, and such interpretation shall be final and binding.
- J. In the event of a conflict between any terms or conditions in any of the documents comprising the entire present Agreement, the terms and conditions set forth in this document shall take precedence.

1.03 NOTICE AND RESPONSE

- A. Upon notification of Bidder being considered as a finalist, the Bidder shall provide to the Owner and Designer, within 48 hours, a current “Dunn and Bradstreet Supplier Evaluation Report” and other documentation as may be required of finalists herein and as requested by Owner and/or Bid Coordinator.
- B. Bidder shall provide timely response to all requests from Designer and/or Owner regarding clarification and/or elaboration concerning, but not limited to its Bid as may be deemed relevant by the Owner and/or Designer.

1.04 PROTECTION AND SAFETY

- A. Contractor shall continuously maintain adequate protection of all Work from damage and shall protect the Owner’s property from injury or loss arising in connection with the execution of the Contract. Contractor shall make good any such damage, injury or loss, except such as may be directly caused by agents or employees of the Owner. The Contractor shall adequately protect adjacent property as required by law, by the Contract Documents, or as otherwise required, to cause no damage to them during the execution of the Contract. This requirement shall also apply to structures above and below ground as conditions of the site require.
- B. Contractor shall be solely responsible for, and have control over means, methods, techniques, sequences, and procedures for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the contract. Contractor shall take all necessary precautions for the safety of employees and visitors on the site of the Project and shall comply with applicable provisions of federal, state, and municipal safety laws and building codes to prevent accidents or injury to persons on, about, or adjacent to the premises where the Work is being performed. Contractor shall erect and properly maintain at all times, as required by the conditions and

progress of the Work, all necessary safeguards for the protection of workers and the community.

- C. Contractor shall vigorously defend any and all suits that may be brought against the Owner by any person and/or entity, whether in the employ of the Contractor or not, for damage to property, and/or injury or death to persons alleged or claimed to have been caused by or through the performance of work.

1.05 DRAWINGS DIAGRAMS AND ILLUSTRATIONS

- A. Drawings, Diagrams, and Illustrations are diagrammatic in nature and indicate general arrangement and nature of systems and work included.
- B. Floor plan drawings are provided to assist the contractor in preparing documentation and reports as required herein.

PART 2 - MATERIALS

2.01 VOLUNTARY ALTERNATES AND SUBSTITUTION OF SPECIFIED PRODUCTS

- A. This Request for Bid describes a particular implementation. All Bids must provide pricing on the “base bid” as described herein. Voluntary alternatives providing comparable functionality with significant cost reduction and/or performance enhancement may be proposed. Voluntary alternatives are encouraged but must be identified as “Voluntary Alternates” and detailed on unaltered Bid Forms contained herein. Voluntary Alternates may be further detailed and/or explained in attachments to the unaltered Bid Forms contained herein. Exceptions to the Request for Bid specifications must be clearly noted and explained for each Voluntary Alternate proposed.
- B. No substitutions of specified products may be made without specific prior authorization by Designer and Owner. Individual bid divisions herein contain particular information related to acceptable manufacturer and product requirements.
- C. Trade-in, equipment/license exchanges or other return allowances may be provided as a voluntary alternate. Trade-in, exchange, or other return equipment allowances shall not be included in base bid amount.

PART 3 - EXECUTION

3.01 EXAMINATION OF DOCUMENTS AND SITE

- A. Bidders shall carefully examine the Contract Documents and the construction site to obtain first-hand knowledge of existing conditions and requirements. No plea of ignorance of conditions that exist, or any other relevant matter

concerning work to be performed in the execution of work will be accepted as justification for failure to fulfill every detail of all requirements as described herein.

3.02 QUESTIONS, INTERPRETATIONS, AND ADDENDA

- A. Any bidder finding discrepancies between Drawings, Specifications, and/or Bid Documents, or be in doubt as to the exact meaning of any provision or detail shall notify the Designer at once, and before the deadline for Questions and Clarifications. The Designer may then, at their option, issue Addenda clarifying same. The Designer is not responsible for oral instructions, or Bidder's/Contractor's misinterpretations of Drawings, Specifications, and/or Bid Documents.
- B. The Designer reserves the right to issue Addenda at any time up to thirty-six (36) hours prior to the scheduled bid opening. All such addenda shall become, upon issuance, an inseparable part of the Specification/Contract Documents. Each bidder shall incorporate within their bid all costs for items listed in any/all Addenda and shall acknowledge receipt and identifying number of each Addendum on the Bid Form and on the outside of the sealed bid container.
- C. Addenda will be forwarded to each bidder who has received a copy of the Bidding Documents and has submitted "Intent to Bid Form".

3.03 BID SECURITY, BONDS, AND INSURANCE

- A. Bid Security, Performance and Payment Bonds are required on this project.
 - 1. Bid security equal to five percent (5%) of the bid amount must accompany each bid in accordance with the Instruction to Bidders.
 - a. Bid security shall be either a Bid Bond issued by a company licensed in the State of Michigan to furnish bid security or Certified Check made payable to the Owner.
- B. The selected Contractor will be required to provide a performance bond and a payment bond each in an amount equal to one hundred percent (100%) of the bid amount including any accepted alternates at the Owner's discretion.
 - 1. The surety of the performance bond shall remain in effect until all acceptances and final contract close-out requirements herein have been executed by the Owner.
- C. Contractor shall provide, prior to beginning any work at the sites, certificate of insurance for delivery to Owner indicating all required insurance coverage is in force.

1. Workers' Compensation and Employer's Liability Insurance
 - a. Coverage A – Statutory
 - b. Coverage B - \$1,000,000 Per Accident
 2. Broad Form Comprehensive General Liability Insurance (including – Premises, Elevators, Contractor's Protective Liability, Contractual, Products & Completed Operations – including Broad Form Extensions).
 - a. Each Occurrence - \$1,000,000
 - b. General Aggregate - \$2,000,000
 - c. Products & Completed Operation Aggregate - \$2,000,000
 - d. Personal Injury & Advertising Injury - \$1,000,000
 - e. Fire Legal - \$100,000
 3. Sub-contractors Operations, Products – Completed Operations and Contractual Liabilities, plus such excess coverage as may be appropriate for the limits listed.
 4. Comprehensive Automobile Liability Insurance (owned, hired, and non-owned automobiles).
 - a. Bodily - \$1,000,000 each Person and \$1,000,000 each Occurrence
 - b. Property Damage - \$1,000,000
 5. Furnish Owner with Contingent Liability Insurance Policy with coverage and liability limits the same as for Public Liability Insurance specified herein. Designate on policy as assured, only the Owner.
 6. Furnish Owner with Contingent Property Damage Insurance Policy with coverage and liability limits the same as for Property Damage specified herein. Designate on policy as assured, only the Owner.
 7. Policies shall include notification clause requiring ninety (90) days written notice to Owner in the event of policy cancellation, expiration, non-renewal, coverage reduction or other material change.
 8. Contractor shall not commence work under the Contract until after all insurance required herein has been obtained and certificates for such are approved by Owner.
- D. All such bonds and/or insurance shall be issued by surety licensed by the State of Michigan and acceptable to the Owner.

1. Insurance certificate(s) shall be signed by insurance agent licensed in the state of Michigan or a representative of the insurance company.
- E. Contractor agrees to indemnify and hold harmless the Owner and Designer, including their agents and employees, from and against all claims, damages, losses and expenses, including, but not limited to, attorney fees arising out of, or resulting from the performance of the work to the fullest extent allowed by law on a comparison basis of fault.

3.04 MODIFICATION AND WITHDRAWAL

- A. Bids may be withdrawn and/or changed any time prior to the deadline for submission of bids. Bids may not be withdrawn or changed thereafter and shall be deemed a firm offer continuing for ninety (90) calendar days. Bids received after the deadline for submission will be returned unopened at the Owner's discretion.
- B. Withdrawal of any Bid after the opening time without specific approval by Owner may result in forfeiture of required bid security by Bidder.

3.05 CODES, ORDINANCES, REGULATIONS AND RELATED

- A. All labor and materials shall be furnished and installed in strict accordance with the latest applicable codes, ordinances and regulations of any governing body having jurisdiction over this project.
- B. In the event the quality of labor and materials required by the Drawings and Specifications herein exceeds requirements of current applicable codes, ordinances and regulations, the Drawings and Specifications shall take precedence.
- C. In the event the quality of labor and materials required by current applicable codes, ordinances and regulations having jurisdiction over this project exceeds that of the Drawings and Specifications herein, the applicable codes, ordinances and regulations shall take precedence.
- D. The Contractor shall give all notices and comply with all codes, laws, ordinances, rules, and regulations of any authority having jurisdiction, which bears on the performance of its work. This compliance includes, but is not limited to, the Michigan School Safety Initiative (PA129, PA130, PA131 and PA138) if applicable to work being performed.
- E. The Contractor shall pay for all licenses, permits, taxes, and fees required for this project; and shall comply with all federal, state, local and Owner's codes, laws, ordinances, regulations and other requirements applicable to the work specified at no additional cost to the Owner. Contractor shall submit copies of all approved certificates and approvals to the Owner upon receipt.

3.06 SUB-CONTRACTOR AND MATERIAL SUPPLIER

- A. The successful Bidder shall submit to the Owner and Designer a complete list of all sub-contractors and all material suppliers proposed to engage on the work. Sub-contracts shall not be awarded until after they have been approved by the Designer and Owner.
- B. Finalist bidders may be required to submit additional details related to sub-contractors and suppliers within forty-eight (48) hours after the bid opening.
- C. Names of any principal sub-contractors must be listed on the Bid Form.
- D. All contracts made by the successful Bidder with Subcontractors shall be covered by the terms and conditions herein. The successful Bidder shall see to it that Subcontractors are fully informed in regard to these terms and conditions and shall bind all subcontractors to the same terms and conditions. Failure to do so will absolve the Owner from any liability for additional cost due to subcontractor claims for additional cost, time, or any claim(s) for additional cost by subcontractor(s).

3.07 BID RESPONSE FORMAT

- A. Bidder shall provide complete Bid copies in two formats as described herein.
 - 1. One (1) Hard copy format responses shall be in a bound tabulated format. Each response shall have tab indicators for each section.
 - 2. One (1) Electronic copy format responses shall be submitted on a USB Drive, readable by a standard Microsoft Windows 11 workstation. Electronic media shall contain separate folders to organize response documentation as described herein. Files submitted electronically shall be *Adobe Acrobat* "PDF" format (SCHEDULE OF VALUES is additionally required to be on the disk in the appropriate folder as a Microsoft Excel compatible spreadsheet and as described herein).
- B. All Bid Response formats shall be clearly externally marked to include, but not be limited to:
 - 1. Bidder identification.
 - 2. Project Owner identification.
 - 3. Project name.
 - 4. Bid submission date.

- C. Bid Responses shall include an index containing copies/PDF of a complete index of documents comprising Bid Response. Responses shall include, but not be limited to the following tabbed/folder sections:
1. Section 1 – Forms, which shall contain copies/PDF files of all required and completed bid forms.
 - a. BID FORM
 - b. Michigan Familial Relationship Disclosure Statement
 - c. REFERENCES
 - d. CONTRACT EXCEPTIONS
 - e. SCHEDULE(S) OF VALUES
 - f. BID BOND
 2. Section 2 – Overview, which shall contain copies/PDF files of cover letter and/or executive overview.
 3. Section 3 – Submittals, which shall contain copies/PDF files of all required and voluntary submittals.
 4. Section 4 – Appendices, which shall contain copies/PDF files of other reference materials Bidder wishes to or is required to submit.

3.08 AWARD OF CONTRACT

- A. The material proposed to be used for the completion of work, and the competency, solvency and responsibility of bidders will receive due consideration before award of contract. In the reception of bids for this work, the Owner incurs no obligation to accept the lowest, or any bid submitted. The right to accept or reject any and all bids or portion thereof is reserved by the Owner. The Owner reserves the right to require testimonial, accounting or legal documents pertaining to the solvency of a Contractor, or any other decision factor the Owner deems appropriate, prior to award of contract.
- B. Owner reserves the right to select individual components from schedule of values independent of installation as may be determined in Owners best interest. Selected bidder may be required to install selected components provided by others.
- C. Issuance of a Purchase Order by Owner in response to a valid bid shall be a Notice to Proceed, and shall become part of, but not limited to, all terms, conditions, and requirements herein. Notice to Proceed shall have the full effect of contract award, and shall make all terms, conditions, requirements,

and responsibilities of Bidder binding upon issuance. Notice to Proceed, once issued, shall become an inseparable part of the contract documents herein, and constitute both Bidder and Owner's acceptance of contract.

3.09 TIME, SCHEDULES, PROJECT MANAGEMENT, MEETINGS AND PLANS

- A. Time is of the essence on this project. Award of contracts for this project will be contingent on the bidder's agreement to complete the work on or before the contract completion date stated herein.
- B. All Contractors will commence work in such a manner and at such a time as to expeditiously interface with the work of other Contractors and will pursue the project diligently to completion. All Contractors will work in a cooperative manner with Owner and other Contractors.
- C. Contractor shall appoint an overall Project Manager acceptable to Owner, with skills and experience deemed appropriate by the Owner for the scope and size of the project. Project Manager shall be responsible for the scheduling of all Contractor resources and attending all project meetings. Upon notification of Bidder being considered a finalist, the Bidder shall submit professional resume of proposed Project Manager within forty-eight (48) hours.
 - 1. Project meetings shall be conducted at Owner's selected and identified location weekly and at Owner's and/or Designer's discretion.
 - 2. Within five (5) days of Notice to Proceed (issuance of a Purchase Order by the Owner), Contractor's Project Manager shall provide to the Owner a critical flow path in the form of a "Gantt Chart" (or equivalent) indicating the proposed sequence of events and approximate beginning and completion dates in accordance with, compliance to, and coordinated with requirements herein.
 - 3. Changes of the Project Manager during the project shall not be acceptable without prior written approval from the Owner.
 - 4. It is the responsibility of the Contractor's Project Manager to schedule work, work out issues, ensure that all required products and services are delivered according to schedule and attend to any other matters required by the Owner in the interest of professional and timely completion of the project.
 - 5. The appointed Project Manager, or a designee acceptable to the Owner, shall be in attendance of all project meetings throughout the term of the project. Failure to do so may be considered a material breach of contract.
 - 6. After a ten (10) business day notice, the Owner reserves the right to request a new Project Manager, when it appears that, in the Owner's sole

discretion, the Project Manager is not fulfilling the full responsibilities of the position. Failure by Contractor to provide adequate Project Manager meeting requirements of the Owner, may result in Contract termination.

3.10 CHANGES IN THE WORK

- A. No changes in work with the effect of either increasing or decreasing in the project value shall be made without specific and prior authorization by the Owner and Designer.
- B. Owner, without invalidating the contract and without notice to any surety, may at any time order extra work or make changes by altering, adding to or deducting from the work, the Contract Sum being adjusted accordingly. All such work shall be authorized by a written Change Order approved by Owner and Contract Designer. Upon receipt of such an order Contractor shall promptly proceed with the work involved. All such work shall be executed under the conditions of the original Contract. Owner authorized change order(s) may be issued at any time prior to Contract close out.
- C. When so directed, Contractor shall promptly submit an itemized estimate and a unit price for performing or deleting such extra or changed work as may be contemplated. Any extensions or reductions of the contract time associated with extra or changed work shall be identified at the time Contractor submits such documentation.
- D. At the Owner's discretion, adjustments in the Contract Sum shall be determined by one or more of the following methods:
 - 1. By mutual acceptance of a lump sum cost, including overhead and profit, itemized and supported by sufficient substantiating data to permit evaluation.
 - 2. By unit prices stated in the Contract Documents including, but not limited to, Schedule of Values.
 - 3. By unit prices mutually agreed upon.

3.11 PAYMENT REQUESTS AND PAYMENTS

- A. Contractor's invoices shall be submitted monthly in correlation with the Project Schedule indicating percentage of work completed.
- B. All contract and change order invoices shall be sent directly to Contract Designer.
- C. A 10% retainage shall be held back on all payment requests, including, but not limited to hardware, software, change orders and services, until final

completion and close out of the project or project phase as determined by Owner and Designer.

- D. Contractors are required to submit all invoices on approved AIA Payment Request Forms or other billing format pre-approved by Contract Designer. Each AIA Payment Request Form shall be accompanied by a properly completed, executed, and notarized Waiver of Lien which shall be in a format and contain verbiage approved by Owner.
- E. The Contract Designer and Owner shall process payment requests on a monthly schedule and in accordance with their respective established processes and procedures. Payments will be made by the Owner based only on AIA Request Forms having been previously certified, audited and approved by Contract Designer and accompanied by acceptable Waiver of Lien.

END OF SECTION

SECTION 00 65 00
CONTRACT CLOSE OUT

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Provide an orderly and efficient transfer of the completed work to Owner.
- B. Details affecting work of this Section includes but is not limited to all other Sections herein and all related Contract Documents.
- C. Activities relative to Contract close-out are described in, but not limited to, this and other Sections of this document.

1.02 SUBSTANTIAL COMPLETION

- A. "Substantial Completion" shall be defined as:
 - 1. All responsibilities of Contractor for all provisions and requirements of all divisions and sections of complete Contract herein, and as amended, are properly and fully completed, or properly, accurately and acceptably provisioned for.
 - 2. All systems, equipment, facilities, services, programming and/or components required by all divisions and sections of complete Contract are fully operational, acceptable, and useful to the Owner for their intended purposes.
- B. Prior to requesting inspection by Designer to certify Substantial Completion, Contractor shall use adequate means to assure the Work is completed in accordance with the specified requirements and is ready for such inspection.

PART 2 - MATERIALS

2.01 NOT USED FOR THIS SECTION

PART 3 - EXECUTION

3.01 PROCEDURES

- A. Contractor shall submit a written request to Designer indicating they have achieved Substantial Completion of Work.
- B. Within a reasonable time after receipt of the request, Designer will inspect Work to determine status of completion.
- C. Should Designer determine the Work is not substantially complete:

1. Designer promptly will so notify Contractor, in writing giving reasons therefore and providing sufficient details to allow Contractor to make corrective actions.
 2. Contractor shall then expeditiously remedy the deficiencies and notify Designer in writing when ready for re-inspection.
 3. Designer will re-inspect the Work.
 4. Excessive re-inspections of Work may result in fees being assessed Contractor.
- D. Should Designer concur the Work is substantially complete:
1. Designer will prepare a letter of Substantial Completion.
 2. Designer will submit the letter to Owner and Contractor.
 3. Contract shall be deemed “Closed Out” for retainage purposes.
 4. Final Acceptance of the system shall be deemed complete.

END OF SECTION

SECTION 27 10 00
LOW VOLTAGE CABLING

PART 1 - GENERAL

1.01 DESCRIPTION OF PROJECT

- A. Work described in this specification section pertains to structured cabling to support various types and styles of communications systems. Owner expects structured cable system shall be used to provide connectivity for items including, but not limited to, Access Points, Phones, Computers, Printers, Cameras, and video displays.
- B. At Park and Bauer Elementary School some locations will be provided by a designated contractor tied to the existing construction project. These locations are indicated on the drawings in "BLACK." Other locations indicated in "BLUE" will be provided by the Low Voltage Cabling Contractor responding to this RFP.
- C. Structured cable system shall be compliant with EIA/TIA 568B.
- D. The Contractor shall configure, supply, install, connect, test, document and train Owner representatives and warrant a fully operational and compliant communications transport system, complete and with full functionality as specified herein including, but not limited to:
 - 1. Cables
 - 2. Jacks
 - 3. Cable support hardware
 - 4. Communication distribution racks
 - 5. Cross connect blocks and devices
- E. Contractor shall coordinate their installation with other contractors, Architect, Construction Manager, Architect/Engineer and the Owner as is appropriate.

1.02 DRAWINGS

- A. Drawings show the location and general arrangement of equipment, systems and related items. They shall be followed as closely as elements of construction permit.
- B. Examine drawings of other trades and verify conditions of work sites. Arrange work accordingly.

- C. Deviations from drawings, with the exception of minor changes in routing and other such incidental changes not affecting functionality or serviceability of systems, shall not be made without written approval of Architect/Engineer.

1.03 WARRANTY

- A. Complete installation shall be free from defect and/or failure for a period of fifteen (15) years. Any replacement, upgrade or fix, including labor for any non-conforming or non-operational part of the system shall be fixed and/or replaced at no cost to the Owner.
- B. Manufacturer's warranty shall be provided for all components of the system.
 - 1. Any paperwork and/or submittals required by individual manufacturers for compliance with the standard and/or applicable extended warranty programs shall be provided and submitted for approval by the Contractor.
 - 2. Contractor shall submit all paperwork, apply for warranty or extended warranty certification, and provide a Certificate of Warranty or Extended Warranty as may be applicable from the manufacturer prior to project closeout.
- C. On site services provided under the warranty shall be performed by personnel or representatives of Contractor as herein defined and located within physical proximity to provide response levels deemed acceptable to Owner.
 - 1. Contractor shall provide response times for all malfunctioning equipment of two (2) business days or less.
 - 2. Response time shall be measured from the time Contractor is notified by Owner to the time work is begun to resolve the matter.

1.04 SUBMITTALS

- A. Submittals shall consist of technical cut sheets and information pamphlets on all components of the system to be installed. All cut sheets and submittals shall be distinctly marked to highlight the actual part number of the item being submitted for approval.
- B. Equipment or material installed for this project that does not have an approved submittal associated with it, shall be removed and replaced with acceptable equipment or material as defined by the Architect/Engineer. All replacement costs including, but not limited to material and labor, shall be the sole responsibility of the Contractor.
 - 1. The Owner and/or Architect/Engineer may notify Contractor of any offending situations under this provision allowing Contractor up to forty-

eight (48) hours to correct the situation prior to taking other corrective action.

2. The Owner reserves the right to replace unapproved materials and deduct the costs of doing so as defined herein from any amounts that may be due, or become due Contractor.
- C. Shop drawings and diagrams shall be submitted by Bidder for approval by Architect/Engineer with Bids.
1. Shop drawings and diagrams shall show all data relating to structural, electrical, wiring, cross connect, interconnect, equipment arrangement/layout, and any other information deemed significant by the Architect/Engineer.
 2. No work constituting final installation shall be commenced until after approval of shop drawings by Architect/Engineer.
- D. Determination of acceptance of proposed equal equipment is at the sole discretion of the Designer/Owner.

1.05 REFERENCE STANDARDS

- A. All work, products, and materials shall conform with the following standards as applicable for the intended use:
1. ANSI/NFPA
 2. EIA/TIA Commercial and Administration Standards
 3. NECA
 4. BICSI
 5. UL
 6. MOSHA Safety Standards

1.06 CONTRACTOR

- A. The Contractor shall accept complete responsibility for the installation, certification and support of the system. Contractor shall provide proof of manufacturer support by photocopy of certification and letter of support from major component manufacturers for this specific project. Contractor shall be an authorized vendor of all major components.
- B. All work shall be performed and supervised by Project Managers, Engineers and/or Technicians who are qualified to install system and perform related

tests as recommended by the manufacturer and in accordance with the manufacturer's best practices and methods.

- C. Project Managers, Engineers and Technicians employed on this project shall be properly and fully trained and qualified by the manufacturer on the installation and testing of the equipment and systems to be installed. Certification of such training shall promptly be provided if requested by Architect/Engineer.
- D. The Contractor shall have a proven track record in structured cable configuration and installation. This must be shown by the inclusion of references of at least three (3) projects involving the installation of similar systems completed by the Contractor in the prior two (2) years on unaltered forms with the sealed Bid as provided herein.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturer(s) of major components of the structured cable system shall be a known and leading entities in the communications field, and shall have been designing, manufacturing and installing similar systems for a period of no less than four (4) years.
- B. Acceptable Manufacturers (In alphabetical order):
 - 1. AT&T / Systimax
 - 2. Belden
 - 3. Berk-Tek
 - 4. Corning/Siecor
 - 5. General Cable
 - 6. Hubbell
 - 7. Nordx-CDT
 - 8. Panduit
- C. System shall be built upon an open and standard platform, supporting industry standards. Systems that are deemed Proprietary in nature shall not be considered.

2.02 COPPER CABLE

- A. Station Cable shall meet or exceed:

1. Four (4) pair Category 6 Unshielded Twisted Pair (UTP) cable.
 2. All wiring not installed in conduit shall be plenum type cable and shall be so identified with continuous marking.
 3. Twenty-three (23) AWG
 4. Compliant as per EIA/TIA-36 specifications
 5. Certified under UL's LAN Cable Certification Program
- B. All cables shall be terminated for T568B compliant connection.
- C. Coordinate cable color(s) with Owner requirements prior to installation.
- D. MANDATORY ALTERNATE: Bidders will provide voluntary alternate pricing for additional data drops.

2.03 CROSS CONNECT EQUIPMENT

- A. Cross Connect Equipment shall meet or exceed:
1. Patch Panel for UTP Category 6 Cable Termination.
 - a. Rack mounted category 6 compliant printed circuit board technology, patch panel with T568B compliant terminations on front of panel and 110 type terminations on rear of panel.
 - b. Rack mounted patch panels shall be no larger than Forty-eight (48) ports each.
 - c. Rack mounted patch panels shall be flat.
 2. Furnish and install smear resistant, mechanically imprinted polyester or similar material labels to identify each port of all patch panels (fiber optic and copper) in compliance with EIA/TIA 606 standards or Owner required scheme. Labels shall be permanently affixed to patch panels.

2.04 WIRING DEVICES

- A. All station cable shall terminate on modular jacks that meet or exceed:
1. Category 6A compliant (Access Points Only)
 2. Category 6 compliant
 3. 8 position T568B compliant modular female jack.
 4. Modular jacks that terminate above finished ceiling will be plenum rated.

5. Snap-in, high impact housing
6. Field verify and coordinate insert color to match Owner requirements.
7. Field verify and coordinate plates and/or outlet frame colors and materials to coordinate with electrical devices and Owner requirements.
8. Where station cable is to terminate above finished ceiling or behind a finished wall for cameras, speakers, or other special station devices, modular jack may be surface mounted in appropriate high strength, impact resistant plenum rated plastic enclosure.
9. Furnish and install matching coordinating blank cover plates for all unused communications outlets indicated on drawings.
10. Mount flush plates so all four edges are in continuous contact with finished surfaces.
11. Furnish and install smear resistant, mechanically imprinted polyester or similar material labels to identify each port of all patch panels (fiber optic and copper) in compliance with EIA/TIA 606 standards or Owner required scheme. Labels shall be permanently affixed to modular jack.

2.05 OWNER STANDARDS

- A. Contractor shall provide connectors in a color to match the Owner's existing standards.
- B. Contractor shall provide cover plates and any associated keystone inserts as may be required matching Owner's existing standards.
 1. Stainless Steel cover plates.
 2. Grey keystone inserts.
- C. Contractor shall provide connector identification and labels on all terminations matching Owner's existing standard. Field verify all label conditions per site prior to final installation.

2.06 PROJECT CABLE CONFIGURATIONS

- A. See Appendix A – Communication Drawings for cable locations and quantity.
- B. Wall Data Outlet
 1. Contractor shall provide data outlets including, but not limited to:
 - a. UTP station cable(s) terminated on compliant patch panel in nearest IDF and wire devices in a single box location.

- b. Wire device(s) shall be installed in standard keystone insert with six (6) positions. All unused positions shall be blanked.
 - c. Faceplate compliant with Owner standards shall be provided.
 - 2. Outlet shall be provided at each location indicated on drawings, noting the number of station cables to be terminated.
 - 3. Raceway will need to be provided and installed by the Low Voltage Contractor.
- C. Above Ceiling Outlet
 - 1. Contractor shall provide above ceiling outlets as indicated on the drawings including, but not limited to:
 - a. UTP station cable(s) terminated on compliant patch panel in nearest IDF and wire device with a single surface mounted biscuit jack.
 - b. Device location shall be as indicated on drawings and above finished ceiling/surface, but accessible for station connection.
 - c. Surface mount device box shall be bright in color and/or contain a permanently attached brightly colored reflective identification label to facilitate visual location of connection point behind finished surfaces.
 - 2. Outlet shall be provided at each location indicated on drawings, noting the number of station cables to be terminated.

2.07 ALLOWANCES

- A. Contractor shall include allowances for contract service reimbursements as required in base bid lump sum amount(s).
 - 1. Allowance shall be made in the amount of \$10,00.00 for Owner directed infrastructure upgrades.
- B. Contract services shall be provided and sourced at Owner's discretion, direction and convenience with full cooperation by Contractor, and paid for from successful bidder's contract in the amount(s) provided for herein.
- C. Any allowance amount proving to be excessive for the intended equipment and/or contract services shall be credited to the Owner against contract payment requests.
- D. No material or labor charges and/or mark-ups or margins will be permitted on allowance expenditures approved by Owner and Designer.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Contractor shall conduct detailed walk-through examination with Architect/Engineer verifying equipment and material locations as well as mounting and placement requirements prior to commencement of other installation activities.
- B. Contractor shall ensure all submittals and shop drawings have been provided to, and approval has been obtained from Architect/Engineer prior to commencement of any final installation activities.

3.02 INSTALLATION

- A. Contractor shall be familiar with the environment where work shall be done as specified herein.
- B. Work Areas shall be cleaned at the end of each day. All debris shall be cleared, removed and disposed of in an approved container for the site. All equipment and tools shall be removed from common areas and stored in approved, secure storage locations. Any work that may impede the general use of the space and cannot be removed shall be flagged and cordoned off by the Contractor prior to their departure.
- C. All equipment and materials shall be installed in a neat and workmanlike manner. Best practices installation principles shall be used throughout the project.
- D. The Contractor shall furnish, set in place, and install all equipment necessary for a fully compliant and operational system as specified herein. The installation process includes, but is not limited to the following:
 - 1. Cables installed in a professional manner to prevent tangling and congestion and to facilitate installation or removal of cables in the future.
 - 2. Cables installed without kinks (any bend with a radius less than manufacturer defined minimum).
 - 3. All cable free of abrading or penetrating of cable jacketing.
 - 4. In suspended ceiling where cable trays or conduit are not available, Contractor shall support wiring with “D – rings”, beam clamps or other approved cable support devices at appropriate distances (6 ft. minimum).
 - 5. All information outlets shall be labeled according to the Owner’s cable identification scheme. Labels shall be completed using pre-printed labels. Handwritten labels are not acceptable.

6. The Contractor shall label all cables, jacks, patch panel positions, faceplates and cross connects.
7. In-line cable splicing shall not be permitted.
8. Contractor shall provide 10' minimum service loop above accessible ceiling for each terminated cable in pole access for modular furniture to accommodate future changes.
9. Length of each individual run of horizontal cable from the MDF/IDF to the information outlet shall not exceed 90 meters (295 ft.).
10. IDF(s) and MDF locations have been identified in the appendices herein. Contractor shall calculate distances to ensure the adherence to the EIA/TIA 568 distance limitations. Contractor shall notify Architect/Engineer of cable length exceptions prior to installation in writing and request direction.
11. All copper data cabling shall terminate on Category 6 compliant connectors. Approximately 10 ft. of Category 6 and/or fiber cabling shall be coiled and stored at each cable distribution center in order to accommodate future change.
12. Wiring not installed in conduit shall not be routed within 18 inches of light fixture ballasts or within 36 inches of motors or transformers.
13. Coordinate cable colors with Owner requirements prior to installation.
14. Contractor shall include any sleeves where wall penetrations are needed as identified on provided communications drawings. Sleeves shall be a minimum of 2". All installed sleeves shall be fully fire stopped with compliant fire stop material following cable installation. If other wall penetrations are required to complete work but are not identified on provided drawings, contractor shall supply 1 - 2" sleeve.
15. Provide backboards, properly treated for fire retardation in locations with new racks and required by site conditions.

E. Sites of Work:

1. Alward Elementary School
3811 Port Sheldon St
Hudsonville, MI 49426
2. Bauer Elementary School
8136 48th Avenue
Hudsonville, MI 49426

3. Forest Grove Elementary School
1645 32nd Avenue
Hudsonville, MI 49426
 4. Georgetown Elementary School
3909 Baldwin Street
Hudsonville, MI 49426
 5. Jamestown Lower Elementary School
2522 Greenly
Hudsonville, MI 49426
 6. Jamestown Upper Elementary School
3291 Lincoln Ct.
Hudsonville, MI 49426
 7. Park Elementary School
5525 Park Avenue
Hudsonville, MI 49426
 8. South Elementary School
4900 - 40th Avenue
Hudsonville, MI 49426
 9. Park Elementary School
5525 Park Avenue
Hudsonville, MI 49426
 10. Transportation Building
3550 Allen Street
Hudsonville, MI 49426
- F. It shall be the responsibility of the Contractor to repair or replace any damage done to the structure of finishes in the building by the Contractor. If in the course of work, Contractor damages, marks or misplaces any surfaces or access plates/panels the Contractor shall repair and/or replace the surface, plate or panel to the original condition.
1. Final determination as to the damage condition and/or repair/replacement fitness of any surface, plate or panel shall be the sole responsibility of the Designer.
 2. The building and work area shall be returned to its original condition prior to final sign off of the project.

3.03 DOCUMENTATION

A. Contractor shall be responsible for providing thorough, timely documentation. Documentation shall include, but not be limited to both printed and electronic copies of:

1. CAD as-built drawings of each building.
2. Copper station cable test results.

3.04 TESTING

A. End to end testing of UTP copper Category 6 cables shall be conducted at 350 Mhz to meet or exceed reference standards. 100% of all pairs shall be tested. Documentation of test results shall be provided including, but not limited to the following parameters:

1. Attenuation.
2. Near End Cross Talk (NEXT).
3. Signal to noise ratio.
4. continuity
5. Pair integrity
6. EMI interference.
7. Any cable that does not meet EIA/TIA 568 specifications shall be repaired or replaced at the Contractor's expense.
8. Cable length.

3.05 TRAINING

A. Not Used.

3.06 SCHEDULE, MEETINGS AND PLANS

A. Planned sequence of operations shall be established by the Contractor within the guidelines established by the Owner, as required herein and as required to meet schedules.

B. Schedule

1. Post bid Interviews: September 11 & 12, 2023
2. Contractor Chosen: October 12, 2023
3. Work Commences: October 2023

4. Substantial Completion of Project: March 29, 2024
 5. Project Close-out: April 19, 2024
- C. All work shall be coordinated with Owner's construction manager on site.
 - D. Project progress meetings shall be held, but not limited to, weekly at a site and time identified as convenient for Owner and as required herein. Meetings will be attended as required herein.
 - E. Sequence of operations shall be established by the Contractor within the guidelines established by the Owner, documented herein, required by Architect/Engineer, Architect and/or Construction Manager and as required to meet schedule.

END OF SECTION

SECTION 27 41 16
MULTIMEDIA SYSTEMS

PART 1 - GENERAL

1.01 DESCRIPTION OF PROJECT

- A. Work described in this specification section pertains to new/remodeled classroom multimedia infrastructure and instructional equipment for all of Hudsonville Elementary Schools. This section also includes new audio visual system for Park Elementary's new gymnasium and Bauer Elementary's new gymnasium.
- B. Projectors are existing and to be replaced with all new equipment as listed in this specification section.
- C. Contractors shall propose Systems and/or components to be deployed using standard procedures and technology components and as specified herein. The system components shall be installed and connected to the owner's existing physical infrastructure and as specified herein.
- D. Contractor shall advise, coordinate, and work cooperatively with Owner representatives or owner's designee related to any configuration changes required and/or proposed for Owner's existing physical infrastructure.
- E. Contractor shall work collaboratively with Owner and Designer. Work shall include but not be limited to installation of supplied equipment, removal of existing equipment and full operational capacity of system as specified herein.
- F. The Contractor shall design, engineer, configure, supply, connect, test, document, train Owner representatives and warrant a fully operational and compliant system and/or component connection to the system complete and with full functionality as specified herein.
- G. Contractor shall provide all transportation and delivery services in a timely manner to individual work location(s) at each site of work in preparation for installation activity.
- H. Contractor shall coordinate their installation with other contractors, Designer and the Owner as is appropriate.
- I. Audio coverage of the Gymnasium shall be accomplished with two full-range loudspeakers covering the playing surface. Loudspeakers shall be suspended from overhead roof structure in locations of speaker junction boxes shown on the drawings.
- J. Several hardwire microphone and media audio inputs shall be installed at various locations in the Gymnasium.

- K. Wireless microphone selection shall include a vocal/speech microphone with handheld transmitter and a head-worn microphone with belt pack transmitter.
- L. Several digital and analog (auto-switching) audio-video inputs shall be installed at various locations in the Gymnasium, as well as in the equipment rack, for connection of portable audio-video media sources (laptop, game console, etc.) as furnished by Owner.
- M. A permanently-mounted video projector with adequate security to withstand typical gymnasium physical abuse and a wall-mounted projection screen shall be integrated into the system for display of video sources.
- N. Complete system user controls shall be provided on a wall-mounted LCD touchpanel located in the Gymnasium adjacent to the P.E. office, and shall serve as the only user interface required to operate the system. The control system shall in turn command the function of the audio DSP, audio-video switcher, and various peripheral devices/equipment. Minimum functions controlled at the touchpanel shall include:
 - 1. On/off control of the audio/video rack equipment via interface with the power distribution remote control relay
 - 2. On/off control of video projector
 - 3. Raise/lower control of video projection screen, automatic triggered with projector on/off function, and manual override with virtual buttons.
 - 4. Video media source selection as routed to video projector from various inputs and connected media devices.
 - 5. Volume and mute controls for all audio sources (wired inputs, wireless microphones, audio-video switcher output).
 - 6. Selective ducking of media sources based on microphone sources, selectable for use application:
 - a. Performance Mode: No ducking of media sources; best for musical applications
 - b. Instruction / Presentation Mode: Ducking shall allow for clear intelligibility of teacher or presenter voice to be heard over the media inputs
 - 7. Display of battery status from wireless microphone receivers
 - 8. Passcode lock to prevent unauthorized use of the control station
 - 9. Custom graphics on lock screen to display school name and logo

10. Audio DSP microphone inputs shall be equalized for specific microphones utilized on the project.
 11. A twenty-four-space wall-mounted equipment rack shall be installed in the adjacent P.E. Office. This rack shall hold all system electronics, including mic/line mixers, wireless microphone receivers, amplifiers, audio-video switcher, audio-video media source device (network streaming appliance), audio-video inputs for user-supplied media sources, system audio processing, system control, storage drawers, and other components described herein.
 12. Refer to drawings for locations of all equipment that is to be installed.
- O. Demolition of existing equipment is shown on the drawings with a dashed outline. Contractor is responsible for removal and safe disposal of all associated equipment related to the old multimedia speaker.

1.02 WARRANTY

- A. Complete installation shall be free from defect and/or failure for a period of warranty. Any replacement, upgrade, or fix, including labor for any non-conforming or non-operational part of the system shall be fixed and/or replaced at no cost to the Owner.
- B. Manufacturer's warranty shall be provided for all components of the system.
1. Any documents and/or submittals required by individual manufacturers for compliance with the standard and/or applicable extended warranty programs shall be provided and submitted for approval by the Contractor.
 2. Contractor shall submit all documents, apply for warranty or extended warranty certification, and provide a Certificate of Warranty or Extended Warranty as may be applicable from the manufacturer prior to project closeout.
 3. Standard manufacturer warranty duration and terms shall be identified for each component with bid.
 4. REQUIRED ALTERNATE: Standard manufacturer warranty duration and terms shall be identified for each component with bid as well as additional fee required for warranty duration election of each of the following terms:
 - a. Three (3) year parts and labor warranty.
- C. On site services provided under the warranty shall be performed by personnel or representatives of manufacturer of individual components and/or appropriately trained and certified Contractor representatives as herein defined

and located within physical proximity to provide response levels deemed acceptable to Owner.

- D. Contractor shall provide the following response times for all malfunctioning equipment:
 - 1. Twenty-four (24) hours or less for matters that render twenty percent (20%) or more of the system unable to maintain normal functionality.
 - 2. Two (2) business days for matters not meeting the above criteria.
 - 3. Response time shall be measured from the time Contractor is notified by Owner to the time work is begun to resolve the matter.
- E. Bidder shall provide current annual maintenance contract pricing, terms and conditions for recommended maintenance programs for all equipment following the specified and included warranty periods as a Voluntary Alternate. This information will be considered by Owner and Designer as part of the bid evaluation process.
- F. System Warranty shall commence on date of substantial completion as certified by Designer and provided for herein. Delivery to work site of materials, physical removal from packaging, issuance of Contractor documents including, but not limited to invoices and/or packing slips, or any event or documentation, not specifically provided for herein, shall have no effect on Warranty or System Acceptance by Owner and/or Designer.

1.03 SUBMITTALS

- A. Submittals shall consist of, but not be limited to, technical cut sheets and detailed information pamphlets on all components of the system to be installed. All cut sheets and submittals shall be distinctly marked to highlight the actual part number of the item being submitted for approval with Bid Proposals.
- B. Shop drawings, data sheets and diagrams shall be submitted by Bidder for approval by Designer with Bid Proposals.
 - 1. Shop drawings, data sheets and diagrams shall show all data relating to structural, electrical, wiring, cross connect, interconnect, equipment arrangement/layout, and any other information deemed significant by the Designer.
 - 2. No work constituting final installation shall be commenced until after approval of shop drawings, data sheets and diagrams by Designer.

- C. Contractor shall provide proof of manufacturer support by photocopy of certification and letter of support from major component manufacturers for this specific project with Bid Proposals.
- D. Equipment or material installed for this project that do not have an approved submittal associated with it, will be removed, and replaced with acceptable equipment or material as defined by the Designer. All replacement costs including, but not limited to material and labor, shall be the sole responsibility of the Contractor.
 - 1. The Owner and/or Designer may notify Contractor of any offending situations under this provision allowing Contractor up to forty-eight (48) hours to correct the situation prior to taking other corrective action.
 - 2. The Owner reserves the right to replace unapproved materials and deduct the costs of doing so as defined herein from any amounts that may be due or become due Contractor.
- E. The Contractor shall submit within ten (10) calendar days after the Notice to Proceed, a schedule that reflects the sequence of activities of the contractor's approach to the execution of and completion of the work. The schedule shall be broken into work areas to provide for a clear identification of the planned progress of the work. Included in the schedule will be a list of tasks with list of deliverables and the percentage of work completed. This schedule shall coincide with progress payments applications dates and projected amounts. All durations shown will be in working days. Applications that generate Microsoft Project compatible files shall be management tools of choice. The timeframe described in the Contractor's Schedule shall represent the Contractor's plan for organizing, directing, managing, controlling, staffing, and executing the work required by the Contract Documents. The district will rely on such schedules to coordinate and otherwise plan the work of the District, other separate contractors, or the District's routine daily work.

1.04 REFERENCE SPECIFICATIONS

- A. All work, products, and materials shall conform with the following standards as applicable for the intended use:
 - 1. EIA/TIA Commercial and Administration Standards
 - 2. NEC
 - 3. IEEE 802
 - 4. IETF RFCs
 - 5. FCC – All Applicable Rules and Regulations

6. UL

7. MIOSHA Safety Standards

1.05 CONTRACTOR

- A. The Contractor shall accept complete responsibility for the installation, certification and support of the system and/or components as required herein. Contractor shall be an authorized vendor of all major components.
- B. All work shall be performed and supervised by Project Managers, Engineers and/or Technicians who are qualified to install specified equipment and perform related tests as recommended by the manufacturer and in accordance with the manufacturer's best practices and methods and as required herein.
- C. Project Managers, Engineers and Technicians employed on this project shall be properly and fully trained and qualified by the manufacturer on the installation and testing of the equipment and systems to be installed.
- D. The Contractor shall have a proven track record in comparable system supply, configuration, and installation. This must be shown by the inclusion of references of at least three (3) projects involving the supply and/or installation of similar systems completed by the Contractor in the prior two (2) years with the sealed Bid Proposal as provided herein.

PART 2 - PRODUCTS

2.01 Acceptable Manufacturers

- A. Acceptable manufacturers have been provided to comply with a standard for individual components associated with the specified system. Indicated components include particular models and makes currently installed and/or preferred by Owner.
- B. Any system bid shall be based only on acceptable manufacturer's components.

2.02 Supply most current version of all products provided.

- A. Manufacturer shall have five (5) years of experience and history manufacturing similar products to those specified.
- B. Proposed components shall have been field tested and proven in actual use.
- C. Prior and/or old versions of products, unless specifically approved and documented by Designer and/or Owner shall not be acceptable.

- D. In cases where a newer version of hardware or software is available at the time of installation, Contractor shall request clarification from Designer on which version is to be used.
- 2.03 Furnish only new, first class quality materials and equipment.
- 2.04 STANDARD VIDEO PROJECTORS (Classroom)
- A. Standard video projectors shall be provided and installed in each location as indicated in on drawings.
 - B. Acceptable Manufacturer:
 - 1. EPSON
 - a. PowerLite L250F Standard Throw Projector
 - C. Projectors shall meet or exceed the following minimum output, port availability and other standards:
 - 1. 4,500 lumens of color and white brightness
 - 2. 20,000-hour laser light source with no lamps
 - 3. Full HD 1080p¹ resolution
 - 4. Built-in wireless with Miracast for peer-to-peer connectivity
 - 5. 1.62x optical zoom
 - 6. All other features currently a part of the manufacturer's latest commercial release.
- 2.05 PROJECTOR CEILING PLATES AND MOUNTING BRACKETS
- A. Projector Ceiling Plates and Projector Mounting Brackets shall be provided and installed in each location as indicated in drawings.
 - B. Acceptable Manufacturers:
 - 1. CHIEF
 - 2. PEERLESS
 - a. CMJ500
 - b. PRG-UNV

- C. All projector mounts shall be firmly and securely mounted to finished ceiling, or other surfaces as required and/or specified herein to maximize coverage and minimize tampering potential.
- D. Mounts shall be located in coordination with display boards and/or screens and projectors by others to provide a minimum of 96% coverage for the horizontal viewing area of installed display boards and/or screens with no optical distortion.
- E. Projector mounts shall be complete and safely accommodate particular and specific mounting conditions for standard projectors.
- F. All work shall conform to manufacturers best practices recommendations.
- G. Where standard mounting in drop ceilings is not possible or acceptable to Owner, provide alternative and compliant mounting hardware and installation consistent with other specified materials.
- H. Contractor shall supply and install new projector downpipes in each location as indicated on drawings

2.06 POLE MOUNTED EQUIPMENT SHELF

- A. Pole mounted equipment shelves shall be provided and installed at each location receiving a new standard video projector as indicated on drawings.
- B. Acceptable Manufacturers:
 - 1. EXTRON
 - a. PMK 155
 - 2. Or Equivalent

2.07 MULTIMEDIA INFRASTRUCTURE CABLE

- A. All cable shall be factory manufactured with terminations and connector assemblies fully attached and integral to the cable to industry published quality standards and meet performance requirements specified herein.
- B. Infrastructure cable to connect projector to a teacher station wall plate shall be provided by the contractor.
- C. Acceptable Cable:
 - 1. HDBaseT Digital Video Cable shall be of commercial first-class quality manufacture and meet or exceed the following requirements:
 - a. Cable shall meet or exceed Category 6 certification.

- b. Cable shall be constructed of solid 23 AWG conductors.
 - c. Cable shall be shielded.
 - d. All terminations and connector assemblies shall be shielded.
2. USB-C extension cable shall be of commercial first-class quality manufacture and meet or exceed the following requirements:
- a. Cable shall meet or exceed Category 6 certification
3. Audio cable shall be of commercial first-class quality manufacture and meet or exceed the following requirements:
- a. Two conductor shielded cable with drain wire.
- D. HDBaseT Digital Video Cable shall be constructed using 23 AWG solid conductors and of a high-quality construction method for minimal loss characteristics, to maintain quality high resolution video image and include support for 1080p video resolution for the installed distance plus a fifteen (15) foot extension for device attachment.
- E. All cables originating from wall plate connectors shall terminate in a service loop eight (8) feet in length at projector location.
- F. Cable shall terminate in the following connector gender:
- 1. HDBaseT Digital Video (Category 6 STP)
 - a. Category 6 Male Shielded Modular Plug, 8 Pin, RJ45
 - b. Terminate into an active HDBaseT transmitter wall plate at Teacher Station and include an HDMI Type A 19 pin plug connector to teacher's PC.
 - c. Terminate into an active HDBaseT receiver at Projector location.
- G. Projector Location Wall Plate
- 1. Wall plate provided shall be:
 - a. Constructed of commercial grade stainless steel
 - b. 1-gang, Split
 - c. Pass-Through Rubber Grommet, minimum 1" diameter
 - 2. Wall plate shall be provided at each location indicated on drawings as Projector.

H. EPSON Projector Remote input/switcher device.

1. Remote input/switcher device shall be mounted at the wall box available above the input plate.
2. Power for the device shall be routed to the projector receptacle and extended through the raceway.
3. Low voltage power shall be routed in the raceway with the transformer for the device located with other materials at the projector and the AC power plugged into the projector outlet.

I. HDMI EXTENSION DEVICES

1. HDMI extension devices (transmitter and receiver) shall be provided and installed in locations as indicated in Appendix B and in the Drawings.
2. Acceptable Manufacturers:
 - a. ATLONA
 - b. CRESTRON
 1. HD-TX-101-C-1G-E and HD-RX-101-C-E
 - c. KRAMER
 - d. Or Equal
3. All materials, cables, connectors, and components for a complete and operational system.

2.08 MULTIMEDIA CONNECTION BUNDLES

- A. Fully assembled infrastructure cable bundles shall be provided and installed in all locations.
- B. Acceptable Manufacturer
 1. Cable shall be of commercial first-class quality manufacture.
- C. All Cable shall be fifteen feet (15') in length and terminate in the following connector genders:
 1. HDMI High-Speed Patch Cable (M/M).
 2. Classroom Multimedia Workstation USB-C Category 6 Patch Cable (M/M).

3. 3.5mm Audio Cable M/M
4. A single F6 Woven Wrap-Around Braided Sleeving to contain and protect all associated cable secure with Velcro straps.
 - a. Velcro straps shall be trimmed and flush with sleeving material.
 - b. Velcro straps shall be loose enough for cable movement.
 - c. Coordinate all color selections with Owner and Designer.
 - d. Braided sleeving should be cut and sealed cleanly using a hot knife or similar tool.

2.09 PROJECTION SCREENS (

- A. Projection Screens shall be provided and installed in all locations where a projector is indicated on drawings.
- A. Acceptable Manufacturers (in alphabetical order):
 1. DALITE
 - a. Model C
 1. DRAPER
- B. Projection Screens shall meet or exceed the following minimum standards:
 1. Viewing surface of 96" in width.
 2. Controlled screen return (CSR).
 3. Matte white viewing surface with black masking borders.
 4. Constructed of flame retardant and mildew resistant fabric.
 5. Neutral color painted 21-gauge steel case.
 6. 4' pull cord securely fastened to bottom of screen.
 7. Screens shall be wall mounted at locations indicated by Owner with approved permanent wall L-brackets capable of supporting screen and reasonably expected forces in classroom environment.
 8. In locations where wall mounted is not acceptable, coordinate ceiling mounted screens with Owner and Designer.
- C. Accessories.

1. Installation Hardware: Fasteners and other components of type, size and spacing recommended by manufacturer for complete, functional, and secure installation of projection screen.
2. Wall Brackets:
 - a. Fixed Length: Extends 6 inches.
 - b. Color: White.
 - c. Capacity: 75 lb. (34 kg) per pair maximum.
3. Furnish optional ceiling trim kit at all Model C units.
4. Zinc plated pull rod. Provide (13) units total at ceiling mounted screens.

2.10 DOCUMENT CAMERA

- A. A Document Camera shall be provided and installed in locations where a projector is indicated in classroom spaces on drawings.
- B. Acceptable Manufacturers
 1. Aveer
 - a. M11-8M
- C. Document Camera shall provide for both HDMI connectivity to projector and USB-C connection to workstation.
- D. All features currently a part of the manufacturer's latest commercial release shall be included.

2.11 VOICE AMPLIFICATION EQUIPMENT (Classroom)

- A. Voice Amplification Systems shall be provided and installed in locations where a projector is indicated in classroom spaces on drawings.
- B. Acceptable Manufacturers
 1. LIGHTSPEED
 - a. 975 Access
- C. Voice Amplification systems shall meet or exceed the following minimum standards:
 1. DECT (1.9 GHz) communication for complete classroom coverage of two (2) microphones simultaneously.

2. Two (2) highly durable, rechargeable, battery powered, tamper resistant, impact resistant, lanyard based pendant microphones.
 - a. Lightspeed volume control Flexmikes
- D. Voice Amplification systems shall include four (4) DRQ speakers (or equal) in each space containing an appropriate ceiling. Where lay-in ceilings are not installed, contractor shall provide WMQ (or equal) speakers.
 1. Classrooms have existing ceiling speakers tied to the existing projector. Speakers are to be demolished along with existing cabling and other associated equipment.
 2. Speakers shall be installed professionally following all manufacturer installation recommendations and industry best practices.
 3. All cable shall be routed in support (D-rings, S-hooks, bridle rings, etc.). Cable supported by the ceiling grid or directly by structural members will be acceptable. No exposed cable shall be visible. Any cable that would be exposed shall be protected in appropriate raceway material approved by designer.
- E. In the event of a power failure, system shall automatically re-initialize and “become active” to the last configuration in use with no human intervention.
- F. Contractor shall provide one (1) audio cable to connect input port on amplifier to 3.5mm jack at Teacher Station (TS) for auxiliary device connection at the instructor’s discretion.
- G. Contractor shall provide one (1) audio cable for connectivity from audio output of projector to amplifier to support a fully functional and compliant system.
- H. Contractor shall supply all mounting hardware and materials to securely mount the audio amplifier on the top of the projector wall mount.

2.12 WIRELESS PRESENTATION (Classroom)

- A. The Owner will provide and install the wireless presentation systems Apple TV casting devices in locations as indicated in with every projector and display as indicated on drawings.
- B. VOLUNTARY ALTERNATE: Bidders are encouraged to provide voluntary alternate pricing for the Audio Enhancement OPTIMUM SYSTEM.
- C. Wireless presentation device shall allow teacher and student devices to present to the interactive projector without the use of any AV cables or dongles

attached to their devices. Device shall be compatible with, Windows, Mac, Chrome, iOS, and Android.

- D. In the event of a power failure, system shall automatically re-initialize and “become active” to the last configuration in use with no human intervention.
- E. Contractor shall provide one (1) HDMI cable and one (1) Category 6 UTP network patch cable for connectivity of wireless presentation device to support a fully functional and compliant system.
 - 1. HDMI to projector
 - 2. UTP to Owner provided data drop near projector
- F. Contractor shall supply all mounting hardware, integration components and labor and materials to securely mount all components and insure compliant, fully functional, first-class operation.

2.13 AUDIO SPEAKERS (Classroom)

- A. Classroom speakers are existing unless otherwise noted on Drawings. Speakers are to be removed along with existing cabling and associated equipment.
- B. Four (4) classroom speakers shall be installed in/on finished ceiling surfaces in each room as indicated in classrooms with a projector.
- C. Acceptable Manufacturer:
 - 1. LIGHTSPEED
- D. Where classroom speakers are to be installed in drop ceilings, they shall be near flush mount and cleanly cut into available tiles for optimal and uniform audio fill of the relevant classroom space. Speakers shall meet or exceed the following minimum standard requirements:
 - 1. 6” driver; 1” horn per speaker
 - 2. Frequency response: 40 Hz – 20 kHz
 - 3. Impedance of 8 Ohms
 - 4. Power handling of 30 watts
 - 5. Speakers shall be mounted in fully enclosed, acoustically appropriate, metallic back boxes and fully supported by appropriate tile bridges.
- E. Where flush mounting is not possible or practical, Contractor shall install surface mounted speakers meeting or exceeding all requirements above.

- F. Where specific speaker location is in question, obtain Owner approval prior to any final installation activity.
- G. All speakers shall include attractive finished white grill.
- H. All speaker wire shall be 16 AWG high quality cable.
- I. All speaker cable shall be connected to audio amplifier at the projector location.

2.14 GYMNASIUM EQUIPMENT

- A. The following approved manufacturers, quantities, and model numbers shall form the basis of the system. These are minimum requirements. Installing Contractor shall verify all quantities prior to ordering and installation. Quantities are provided for reference only. Installing Contractor is still responsible to provide a complete and working system without claim for additional payment. All equivalents and alternates must be approved by Engineer prior to system installation.
- B. The Installing Contractor shall furnish all equipment and work as noted or implied on the drawings or specifications. In case of a conflict between the drawings and specification, furnish the equipment and work with the greatest cost impact.
- C. Audio-Video System Components
 - 1. Park Elementary Gymnasium A119
 - 2. Bauer Elementary Gymnasium E121
 - a. Equipment Rack (qty 1): 24-space wall mount sectional rack with lockable perforated front door. Minimum 20" usable depth. Power for rack to be provided from receptacles mounted inside rack backpan by Electrical Contractor. Verify and coordinate outlet location with rack position. Provide vent and blank panels in unused spaces as necessary.
 - 1. Middle Atlantic DWR-24-22 with VFD-24
 - 2. Lowell LWR-2423 with LFD-24FV
 - b. Storage Drawer (qty 1): Drawer shall be rack mounted and shall be 4RU high.
 - 1. Middle Atlantic UD4
 - 2. Lowell UDE-414

- c. Blank Rack Panel (qty as needed): Flanged 16-gauge steel. Use 2RU maximum size.
 - 1. Middle Atlantic SB series
 - 2. Lowell SP series
- d. Power Distribution Unit (qty 1): Listed series-mode suppressor, 20A rating, remote on-off control via contact closure, to be triggered by system control interface.
 - 1. SurgeX SX-1120-RT
 - 2. Lowell ACSPR-RPC1-2009
- e. Power Distribution Strip (qty 1): Ten outlet vertical strip, 15A rating, mounts in rear of rack.
 - 1. Middle Atlantic PDT-1015C-NS
 - 2. Lowell ACS-1512
- f. Microphone Input Plate (qty 4): Custom single gang stainless steel plate with two female XLR connectors for microphone inputs and engraving. Refer to detail on drawings. (Indicated on Drawings as AV-A-W#)
 - 1. ProCo PlateWorks Custom
 - 2. equivalent
- g. Custom Rack Panel (qty 1): 3U rack panel with custom punched openings to mount audio-video inputs and engraving. Refer to detail on drawings.
 - 1. ProCo PlateWorks Custom
 - 2. equivalent
- h. Wireless Microphone Receiver (qty 1): Two-channel rack-mount digital receiver.
 - 1. Shure ULXD4D
 - 2. AKG DSR800
- i. Wireless Microphone Transmitter (qty 1): Handheld transmitter with (super)cardioid dynamic microphone.

1. Shure ULXD2/SM58
 2. AKG DHT800 with D5 WL1
- j. Wireless Microphone Transmitter (qty 1): Belt-pack transmitter with moisture-resistant cardioid condenser head-worn fitness instructor microphone and instrument cable.
1. Shure ULXD1 with SM31FH-TQG
 2. AKG DPT800 with C544 L
- k. Wireless Microphone Antennas (qty 2): Passive omni-directional ½-wave antenna. Provide hardware for mounting antenna on top exterior of audio-video equipment rack and appropriate cable to connect antenna to receiver or antenna distribution system.
1. Shure UA8 with UA505
 2. AKG RA4000 EW
- l. Wireless Microphone Rechargeable Battery System (qty 1): Rechargeable batteries and charger for two wireless transmitters.
1. Shure SBC200 with power supply and (2) SB900
 2. AKG DMS800 CU800 with (2) sets of AA-size NiMH rechargeable batteries
- m. Audio Mixer/DSP (qty 1): 12-in (mic/line), 8-out minimum 24-bit digital signal processor, 24-bit A/D and D/A with 48kHz sample rate, capable of fully configurable matrix mixing, crossover, HPF, LPF, equalization, delay, polarity, compressor/limiter, and ducking functions, Ethernet or USB interface for configuration, I/O expansion capability, Ethernet and RS-232 ports for external control system interface.
1. BSS Soundweb London BLU-100
 2. Biamp Systems TesiraFORTÉ AVB AI
- n. Amplifier (qty 1): Two channel, switch-mode power supply, direct outputs, min. 600W/channel into 8-ohm load. Attenuators, if mounted on front panel, must be covered with security panel or disabled.
1. Ashly nX 8002
 2. Crown DCi 2|600

- o. Loudspeaker (qty 2): High-output two-way coaxial speaker system, 15-inch woofer with large format compression driver, 90 degrees conical nominal HF coverage pattern, white color. Provide appropriate rigging hardware for mounting to roof structure in locations shown on drawings. Bottom of cabinet face shall be parallel to the floor and shall be at the same elevation as the bottom chord of roof trusses. Provide safety cable to secure cabinet to adjacent roof truss, supplementing primary hardware. (Indicated on Drawings as AV-A-S#)
 - 1. Danley Sound Labs OS90
 - 2. JBL AWC159
 - 3. Tannoy VX 15HP

- p. Network Streaming Device (qty 1):
 - 1. Apple TV, furnished by Owner

- q. Rack Shelf Kit (qty 1): For mounting Network Streaming Device, 1RU, includes false faceplates.
 - 1. Extron RSU 129

- r. Audio-Video Presentation System (qty 1): HDBaseT Certified audio-video switcher and scaler (minimum 5x1 configuration, 2 HDBaseT inputs, 1 HDBaseT output), analog audio outputs, integrated control system processing and audio DSP, RS-232 serial ports, relay contact closure output ports, Ethernet interface.
 - 1. Crestron DMPS3-4K-150-C

- s. Audio-Video Transmitter/Switcher (qty 2): HDBaseT Certified wall plate transmitter, HDMI and analog DB15HD video / 3.5mm stereo audio inputs, auto-switching feature, power supplied over HDBaseT connection (PoH), mounts in two-gang wall box. Electrical contractor shall furnish two-gang decorator-style stainless steel wall plate to match other device plates on the project.
 - 1. Crestron DM-TX-200-C-2G

- t. Audio-Video Receiver (qty 1): HDBaseT Certified receiver, HDMI output, CEC/LAN/RS-232 control outputs, power supplied over HDBaseT connection (PoH).
 - 1. Crestron DM-RMC-4K-100-C

- u. Audio-Video Wall Plate (qty 1): HDMI feed-through, black color. (Indicated on Drawings as AV-A-V1)
 - 1. Crestron MP-WP152-B
- v. Audio-Video Wall Plate (qty 1): RGBHV/DB15HD and 3.5mm TRS stereo audio feed-through, black color. (Indicated on Drawings as AV-A-V2)
 - 1. Crestron MP-WP130-B
- w. Control Port Expansion Module (qty 1): Additional RS-232 serial port(s) and relay contact closure output port(s) for interfacing with external equipment, compatible with control system.
 - 1. Crestron C2N-IO
- x. Control Touchpanel User Interface (qty 1): Wall-mounted 7" color touchpanel system control interface, white color. (Indicated on Drawing as Av-A-C1)
 - 1. Crestron TSW-752-W-S
- y. Network Switch (qty 1): Ethernet switch, four unmanaged Gigabit Ethernet ports with Power-over-Ethernet, one Gigabit Ethernet port for uplink.
 - 1. Crestron CEN-SW-POE-5
- z. Control System Programming: All control system programming shall be provided by the Installing Contractor. Programming of touchpanels shall be submitted to the Owner's Representative and Engineer prior to writing of programming code. Bids shall allow for at least two revisions of touchpanel layouts. Contractor shall be responsible for all programming and implementation of the Control System. Programming shall include all necessary integration for control of the system via iPad app on an owner-furnished iPad.
 - 1. Custom Programming by Installing Contractor
- aa. Recessed Wall Box (qty 1): 4-gang recessed wall box (6" deep) with solid steel flush locking cover, white powder-coat paint finish.
 - 1. FSR Metal Products WB-4G-6 and WB-4G-C
- bb. Video Projector (qty 1): Native WUXGA with 4K Enhancement Technology, 8,500 lumens, DVI-Dx1, HDMI (HDCP 2.3) x1, HDBaseTx1, RGB D-Sub 15spin, Variable audio out: Mini stereo x 1,

USB connector Type-B x 1, USB connector Type-A x 2, Serial, RS-232c x 1, Remote Stereo Mini, Network: RJ-45. Coordinate exact position of mount with intended projection surface and with Electrical Contractor for rough-in placement. Image shall fill entire intended projection surface without overlapping the edge or border.

1. Epson PowerLite EB-PU1008W or similar with projector mount, furnished and installed by Contractor.

2. Include Epson ELPLM08 lens.

cc. Video Projector Extension Column (qty 1): 1.5” NPT Schedule 40 pipe column with cable access slot for concealing cables, white epoxy paint finish, exact length to be coordinated by contractor for mounting projector as high as possible while maintaining proper image on projection surface. Provide with appropriate ceiling adapter plate for mounting to overhead structure in intended location. Verify length on site.

1. Chief

2. Peerless Industries

3. Or equivalent

dd. Video Projector Security Enclosure (qty 1): Enclosure for protection against physical damage, adjustable front bars for ideal projector lens placement, pipe clamp attachment to 1.5” NPT Schedule 40 pipe column, hinged design for hands-free projector access during installation or maintenance, steel construction with ventilation slots, white epoxy paint finish.

1. Chief PG3AW

ee. HDMI Patch Cable (qty and lengths as req'd): Pre-terminated, Certified HDMI High Speed, Listed for installation in accordance with NEC, lengths no longer than 30’

1. Crestron CBL-HD

2. Extron HDMI M-M Pro

3. equal

ff. Microphone, General Purpose Vocal (qty 1): (Super)cardioid dynamic.

1. Shure SM58

2. AKG D5 C

gg. Audio Interface Box (qty 1): Unbalanced stereo -10dBV inputs for portable music/media

player, balanced mono microphone-level output.

1. Radial Engineering StageBug SB-5

2. Whirlwind pcDIhw

hh. Mic/Line Cable, Portable (qty 2): 25-foot length.

1. ProCo MN-25

2. Whirlwind MK425

ii. Mic/Line Cable, Portable (qty 2): 10-foot length.

1. ProCo MN-10

2. Whirlwind MK410

jj. Microphone Stand, Floor (qty 1): Cast iron stacking base, straight, black finish, one-hand clutch adjustment.

1. K&M Stands 26075

D. Cables

1. Installation Mic/Line Cable (qty as needed): 22AWG 2-cond. shielded, miniature.

a. Belden 9451

b. Gepco 61801EZ

c. West Penn 454

2. Installation Speaker Cable, 4/8-ohm (qty as needed): 12AWG 2-cond. unshielded.

a. Belden 5000UE

b. Gepco IR122BA19

c. West Penn 227

3. Installation Control Wire (qty as needed): 22AWG 4-cond. unshielded.

- a. Belden 5502UE
 - b. West Penn 241
4. Installation RS-232 Control Cable (qty as needed): 22AWG 4-cond. shielded.
 - a. West Penn D2400 series
 - b. Belden equivalent
 5. Installation Category 6 Cable: 23 AWG solid copper conductors, 4-pair, Category 6 UTP.
 - a. General Cable GenSPEED 6 series only per Owner standard
 6. Installation Category 6A Cable: 23 AWG solid copper conductors, 4-pair, Category 6A F/UTP with foil shield and drain wire, certified by and tested in a HDBaseT Alliance Recognized Testing facility to meet the requirements of the HDBaseT Recommended Cables Program.
 - a. West Penn Wire 4246AF
 7. Installation Antenna Cable (qty as needed): 50-ohm low-loss RG-8X coaxial cable.
 - a. Belden 7808R
 - b. Belden 9258
 - c. West Penn 807
 - d. equivalent pre-terminated by wireless microphone system manufacturer, provided it meets the necessary NEC fire-resistance rating—supply data on cable type, NEC rating, and cable attenuation in Submittals

E. Connectors

1. All connectors shall be manufactured by Neutrik unless otherwise noted or expressly approved on the drawings or specifications. Substitutions shall be pre-approved before bid by the Engineer. All panel-mount receptacles shall be compatible with Neutrik D-series punch holes where possible.
2. Unless otherwise detailed herein, the following types of connectors shall be used on all points of connection in the system, including connection boxes, plates, panels, inter-rack and intra-rack cabling, wireway, and snakes, including shop-terminated, field-terminated, and manufacturer-built custom product.

3. Audio (microphone level) = XLR type
 - a. Cable mounted: NC3FXX-BAG or NC3MXX-BAG
 - b. Panel Mounted: NC3FD-LX-BAG or NC3MD-LX-BAG
4. Audio (line level) = XLR type
 - a. Cable mounted: NC3FXX-BAG or NC3MXX-BAG
 - b. Panel mounted: NC3FD-LX-BAG or NC3MD-LX-BAG
5. Audio (line level) = ¼" TS type (use only for interconnecting equipment with no other means of connection, unbalanced connections only)
 - a. Cable mounted: NP2X-BAG
6. Audio (line level) = ¼" TRS type (use only for interconnecting equipment with no other means of connection, balanced connections only)
 - a. Cable mounted: NP3X-BAG
7. Audio (line level) = stereo RCA phono type (use only for interconnecting equipment with no other means of connection or where noted on the drawings or specifications, unbalanced connections only)
 - a. Cable mounted: NF2CB/2 or two NYS373 (with red and white rings)
 - b. Panel mounted: NF2D-WT-B and NF2D-R-B
8. Audio (speaker) = Neutrik Speakon type—jack shall be insulated from panel
 - a. Cable mounted: NL4FX
 - b. Panel mounted: NL4MP-UC
 - c. Outdoor cable mounted: NL4FX with BSL-WR drip boot
9. Audio (microphone or line level combination) = XLR/¼" combo
 - a. Panel mounted: NCJ6FI-S (NCJ9FI-S also acceptable)
10. Network, Category 5e (RJ45 modular) = Neutrik EtherCon type
 - a. Cable mount version, NE8MC-B or NE8MC-B-1
 - b. Panel mount version, NE8FDV-Y110-B

- c. Panel mount version with feed-through, NE8FDP-B
11. Network, Category 6A (RJ45 modular) = Neutrik EtherCon type
- a. Cable mount version, NE8MX6-B
 - b. Panel mount version, NE8FDX-Y6-B
 - c. Panel mount version with feed-through, NE8FDX-P6-B
12. Plates and Panels for Controls and Connectors All custom plates and panels in non-gang sizes (e.g. rack panels, plates for shall be constructed of engraved and filled anodized aluminum plates, anodized photosensitized aluminum, or suitably engraved aluminum-backed plastic laminate engraving stock. Minimum plate thickness shall be 0.125 inches.
13. Standard gang-size plates shall be stainless steel with beveled edges or be aluminum as described above.
14. Plates for recessed (flush-mount) backboxes shall have suitable overlap in each dimension (height and length) beyond the measure of the backbox to conceal wall construction gap around backbox.

2.15 ALLOWANCES

- A. Contractor shall include allowances for equipment and/or other contract service reimbursements as required below in base bid lump sum amount(s). Equipment and/or contract services shall be provided and sourced at Owner's discretion and convenience with full cooperation by Contractor and paid for from successful bidder's contract in the amount(s) provided for herein. Any allowance amount proving to be excessive for the intended equipment and/or contract services shall be credited to the Owner against contract payment requests.
- 1. Allowance shall be made in the amount of \$15,000 for additional technology program items associated with classrooms.
 - 2. Allowance shall be made in the amount of \$6,000 for additional technology program items associated with Gymnasiums.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Contractor shall conduct detailed walk-through examination with Designer, Construction Manager and Owner verifying equipment and material locations as well as mounting and placement requirements prior to commencement of other installation activities.

- B. Contractor shall completely cooperate with Owner's Construction Manager for all site access, site safety and related matters. Contractor shall obtain current drawings, specifications and plans from Owner's Construction Manager and make field adjustments as required to correctly and reasonably coordinate with other trades. Contractor will attend all CM field coordination and schedule meetings and cooperate with project timelines as directed.
- C. Contractor shall ensure all submittals and have been provided to, and approval has been obtained from Designer and Owner prior to commencement of any final installation activities. Submittals shall include, but not be limited to:
 - 1. Shop drawings, data sheets and system diagrams including specific cable connectors and types proposed to be installed.
 - 2. Asset tag format, composition, attachment method and location on each serialized component being provided.
 - 3. Firmware configuration template to be used for each component provided.
 - 4. Written installation, coordination, and test procedure to be followed by installing technicians and engineers.
 - 5. Final documentation template.

3.02 INSTALLATION

- A. Contractor shall be familiar with the environment where work will be done as specified herein and make every reasonable effort to minimize interference with Owner's or other contractor's activities.
 - 1. Appendices depicting general ceiling conditions for areas of buildings are included herein. Contractors shall field verify specific room conditions.
- B. Work Areas shall be cleaned at the end of each day. All debris shall be cleared, removed, and disposed of off premise. All equipment and tools shall be removed from common areas and stored in approved, secure storage locations.
 - 1. Owner shall not be responsible for disposal or transportation of any packaging materials or other waste items.
 - 2. Owner's waste containers including site dumpsters shall not be used for material disposal.
- C. All equipment and materials shall be installed in a neat and workmanlike manner. Best practices installation principles shall be used throughout the project.

- D. The Contractor shall furnish, set in place, and install all equipment necessary for a fully compliant and operational system as specified herein. The installation process includes, but is not limited to the following:
1. Inventory receipt of all components and equipment.
 2. Storage of all equipment and components until such time those items are installed according to the specifications.
 3. Transport equipment to the Owner's installation location(s).
 4. Assemble, install, configure, and test all equipment and components, maintaining accurate inventory records and status documents and discarding packaging.
 5. Collect all information necessary to accurately program all system devices to the Owner's intended use and need.
 6. Label with asset tags and other markings provided by Owner all system devices as may be appropriate and required by Owner and Designer.
 7. Work shall be performed to meet local codes and industry standards including proper grounding and bonding of installed equipment. Work shall conform to "best practices" observed by industry professional installers and as required by Owner and Designer.
 8. Work shall include careful coordination and cooperation with others to ensure a timely, cost effective and proper installation for Owner's intended application. Such efforts shall include, but not be limited to, coordinating, and cooperating with other contractors, Owner, Designer and Engineer.
 9. Where cables are to be routed through or on a finished wall, standard connectors must be used at the wall location to terminate call cables. All wall plates shall be stainless steel. Plastic or nylon plates shall not be acceptable. Cables routed out of a wall box on a finished wall without proper standard connection termination shall not be acceptable.
 10. All cables shall be proper and adequately supported using hooks or rings no more than eight feet (6') apart. Cables supported by structural steel, ceiling grid or hanger wires will not be acceptable. All cable routing shall be neat and orderly.
 11. All cable connecting components mounted in/on Technology Cart, shall have adequate cable slack to provide for full system inspection and or service without the removal (intentional or inadvertent) of connecting cables, including items that will be placed on the keyboard tray of equipment carts.

12. Label all cable connections for intuitive user access and as directed by Owner and Designer.
 13. Work may include extending cables from installed equipment, and as required and/or specified herein, to Owner identified connection outlets.
 - a. Work includes supply, connection, and testing of any such cables.
 - b. Work includes neatly routing all cables and securing cables with Velcro straps as may be reasonably required to keep cables in position during normal operating, service, and inspection operations.
 - c. Cables for some devices may be routed in air plenum spaces, above finished ceilings, or in other ways require special care and suitable tools to complete. Where air plenum status is in question and/or may change, plenum rated cable shall be used.
- E. All installation and configuration activity shall fully comply with both the manufacturer's recommended procedures as well as industry best practices.

F. VIDEO PROJECTORS

1. Install, configure, and test approved firmware configuration template including, but not limited to:
 - a. Power on Image.
 - b. Lamp setting.
 - c. Firmware based Device ID (Including parameters such as: TCP/IP settings, Host Name, etc.).
 - d. Default port selection.
2. Neatly configure all cables as directed by Owner.
3. Attach projector to mount using projector security mounting plate provided by others.
4. Connect AC power using cord provided to projector.
5. Align projector with screen.
6. Set keystone adjustment(s) as required.
7. Zoom and focus projector as required.
8. Properly and completely secure all adjustment points.

9. Provide for low voltage power from projector electrical outlet to the remote input/switcher mounted above the input plate. Securely mount transformer with the projector.
10. Coordinate with Owner and Designer markerboard location adjustments.
11. Remove and dispose of all excess materials, and packaging as directed by Owner.

G. DOCUMENT CAMERAS

1. Develop with Owner and Designer an approved firmware configuration template for all physical and programmatic settings available on the product.
2. Install, configure, and test approved firmware configuration template in all spaces as indicated on schedules herein.

H. WIRELESS PRESENTATION DEVICES

1. Develop with Owner and Designer an approved firmware configuration template for all physical and programmatic settings available on the product.
2. Install, configure, and test approved firmware configuration template in all spaces as indicated on schedules herein.

I. VOICE AMPLIFICATION SYSTEM

1. Connect all audio input and output device cables.
2. Secure mounting location with mounting screws or Velcro pads to eliminate involuntary equipment movement.
3. Neatly route all cabling and secure slack.
4. Adjust balance levels for standard configuration.
5. Verify target volume level in space with sound meter and record level at installation.

J. It shall be the responsibility of the Contractor to repair or replace any damage done to the structure of finishes in the building by the Contractor. If in the course of work, Contractor damages, marks, or misplaces any surfaces or access plates/panels the Contractor shall repair and/or replace the surface, plate, or panel to the original condition.

1. Repairs shall include, but not be limited to patching and painting.

2. Final determination as to the damage condition and/or repair/replacement fitness of any surface, plate or panel shall be the sole responsibility of the Designer.
3. The building and work area shall be returned to its original condition prior to final sign-off of the project.

K. GYMNASIUM AUDIO VISUAL SYSTEM

1. CONDUIT AND CABLE ROUTING

- a. Electrical Contractor shall furnish and install all conduit and boxes associated with the audio and/or video systems as shown on the drawings or as required by the Installing Contractor.
- b. Electrical Contractor shall provide all junction boxes for the audio and/or video systems with appropriate covers.
- c. All conduits not specifically identified shall be 3/4".
- d. All conduits below grade shall be PVC or as required by code. All conduits above grade shall be
- e. EMT or as required by code. Refer to conduit specification for details.
- f. There shall be no more than two (2) 90-degree bends in audio and/or video conduit between pull points. If a conduit run requires more than two bends or if the conduit run is in excess of 150' in total length, insert a pull box. If it is not practical to install a pull box in the run due to field conditions, the conduit size shall be increased to the next trade size for each additional 90-degree bend. Offsets shall be considered as equivalent to a 90-degree bend.
- g. All conduits shall be labeled at the source box with the destination box in a clear and logical manner.
- h. Ends of all conduits are shall be deburred.
- i. All conduits terminating inside of an audio/video enclosure (e.g. rack) or not terminating in an junction/pull box shall be provided with plastic insulated bushings.
- j. Electrical Contractor shall provide a poly pull-line in each conduit.
- k. Line voltage conduits shall maintain a minimum of 24" separation from audio and/or video signal conduits except to cross at 90-degree angles when necessary.

2. The main audio racks, any auxiliary audio rack, and any other audio panel that has an electrical power supply circuit(s) with isolated ground shall be isolated or insulated from any grounding path that touches the rack, including metallic conduits, hangers, fasteners, and conductive surfaces (including metal, concrete, or masonry).
 - a. The final connection to these audio racks or panels shall be with Type PVC or Type LFNC non-metallic conduit. Or, if not specified to be in conduit, signal cables may enter the rack or panel in a bundle through a bushed opening.
 - b. Junction boxes and pull boxes in the conduit system do not have to be isolated, only racks or panels with electrical power and electronic audio devices.
 - c. The isolated grounding conductor brought with the electrical power feed shall be effectively bonded with the audio rack or audio panel per NEC requirements. This shall be the only point of connection for grounding/bonding the rack and all components therein.
3. All cables shall be laced or tied securely to assure no malfunctions resulting from interference of other trades or routine future maintenance.

L. GYM AUDIO VISUAL SYSTEM CABLING

1. All wires and cables shall be marked at every termination and connection point with permanent clear wrap-around number or letter cable markers. There shall be no unmarked cables in the systems. Any unmarked cables found at Contractor Checkout shall be immediately labeled. Failure to label wires can be cause for rejection of work by the Owner and shall be corrected at no additional cost to the owner. Marking codes used on cables shall correspond to codes shown on drawings or be approved by the Owner.
2. Audio and video cables utilizing molded plastic or solderless insulation displacement connectors shall be unacceptable.
3. All cable installed in ducts, plenums, and other spaces used for environmental air shall be Type CMP (refer to NEC Article 800.53) or be installed in metallic conduit (in compliance with NEC Article 300.22).
4. There shall be no wire splices in conduit.
5. Terminal block, boards, strips, or connectors shall be furnished for all cables, which interface with racks, cabinets, consoles, or equipment modules.

6. All cables shall be grouped according to the signals being carried in order to reduce signal contamination and cross-talk. Separate groups shall be formed for the following cables.
 - a. Group one: Power Cables
 - b. Group two: Control Cables
 - c. Group three: Video Cables
 - d. Group four: Microphone level audio cables.
 - e. Group five: Line level audio cables.
 - f. Group six: Speaker level audio cables.
7. Do not mix audio cables and electrical power cables in the same conduit.
8. Do not tie-wrap or bundle audio cables to an electrical power cable.
9. Power cables, control cables, and high level cables shall be run on the left side of an equipment rack, as viewed from the rear. All other cables shall be run on the right side of the equipment rack, as viewed from the rear.
10. All inter-rack cabling shall be neatly strapped, dressed, and supported as approved by the Owner. Cabling within racks shall be contained in Panduit finger tray or wire-tied to the side of the rack in a neat and orderly fashion. Such cables shall remain separated as indicated herein.
11. All cables routed outside of racks and conduit shall be contained in a suitable harness or wireway to maintain a neat, clean, and finished product.
12. All cables shall be cut to the length dictated by the run. All equipment installed in racks shall have a service loop of appropriate length.
 - a. For equipment mounted in drawers or slides, the interconnecting cables shall be provided with a service loop of appropriate length to allow for full travel of drawer or slide and enough slack to service and remove any necessary items.
 - b. For equipment mounted in racks accessible from both front and back, provide a service loop length sufficient to plug and unplug cable from the unit to allow for trouble-shooting and service of equipment.
 - c. For equipment mounted in racks accessible from the front only, provide a service loop length sufficient to remove the unit from the rack and easily plug and unplug all connectors.

M. LOUDSPEAKER INSTALLATION

1. Mount loudspeakers per manufacturers' specifications using appropriate brackets.
2. Wire rope rigging shall be installed by certified and experienced rigging professionals, and all applicable codes and standards shall be strictly applied. Use galvanized wire rope, terminated with thimbles and plated copper Nicopress or equal compression sleeves. Proper Nicopress or equal compression tools shall be used for all sleeves. Cable clips, or any other method of termination that requires periodic inspection and tightening, or does not have a 100% efficiency rating, shall not be used without approval of the Architect/Engineer.
3. Loudspeakers shall be supported from building structure or structurally-rated extensions thereof. T-bar lay-in ceiling grid systems are not acceptable for sole support of loudspeakers. A secondary support cable shall be required for all ceiling speaker systems designed to mount in or on lay-in ceiling systems. The cable shall be structurally rated and permanently secured between the building structure above the speaker and a rigging point on the speaker enclosure specifically designed for such a purpose.
4. All rigging and support steel required for installation in addition to any building structure shown on the drawings shall be provided by the Installing Contractor. Installing Contractor is responsible to verify weight and load conditions for all rigging to ensure structural integrity of the building. Any additional structural enhancements shall be performed at the expense of the Installing Contractor without claim for additional payment. If significant structural adjustments are necessary, a Structural Engineer licensed to work in the State of Michigan shall be retained by the Installing Contractor to certify the proposed hanging methods.
5. All loudspeakers shall be installed per plans and arranged as shown on the drawings. All conflicts shall be reported and satisfactorily worked out with other trades.
6. If significant changes are required, verify with the Engineer prior to making changes. Failure to verify with the Engineer shall result in the Installing Contractor assuming full liability for speaker placement. If a changed speaker placement is deemed unacceptable by the Owner, the Installing Contractor shall rectify the problems to the Owner's satisfaction without claim for additional payment.
7. Any changes or revisions must be accompanied with EASE data showing the effect of the resulting configuration as compared to the original design. If a changed speaker placement is deemed unacceptable by the Owner, the

Installing Contractor shall rectify the problems to the owner's satisfaction without claim for additional payment.

N. GROUNDING PROCEDURES

1. Electrical Contractor and Installing Contractor shall coordinate all materials and work related to the grounding of the audio system. Carry out drawing details and notes in these specifications and on the drawings.
2. In order to minimize problems resulting from improper grounding, and to achieve maximum signal-to-noise ratios, the following grounding procedures shall be adhered to:
 - a. Under no circumstances shall the racks contact the raceway system, the steel structure of the building or ventilation ducts.
 - b. All ground cables shall be insulated, especially if the cable is enclosed in a conduit or has any possibility of contact with metallic boxes or a conduit system.
 - c. The system ground copper conductor must not touch any metallic object or device between the main building electrical ground point, and the audio racks. Similarly, with any extension of this ground, to the stage manager panel or other audio panel, caution must be observed to preserve the audio system ground potential by insulating the ground wire at all times.
 - d. Under no conditions shall the AC neutral conductor, at any location, be used for a system ground.
3. Audio Cable Shields
 - a. All audio cable shields shall be connected to signal ground terminal on respective equipment at one point only; there shall be no exceptions.
 - b. For both inter-rack and intra-rack wiring, each cable shield be connected at the input of devices/equipment only. Shields shall not be connected (floated) at the outputs of devices/equipment.
 - c. For ungrounded portable equipment, such as microphones, the shield shall be connected at both ends but connected to signal ground at one end only (input of device/equipment).
 - d. Do not connect cable shields to metallic balanced connector shells or housings.

- e. Equipment chassis grounds shall not be connected with signal grounds unless specifically required to eliminate system noise caused by an individual piece of equipment.
4. There shall be no deviations from the above unless specifically required by the manufacturer of the equipment or when necessary to minimize crosstalk and to maximize signal-to-noise ratios in the audio, video, and control systems.
5. If a different installation practice is desired by the Installing Contractor in regards to the signal grounding, the Installing Contractor may submit alternate grounding methods to the Engineer for approval. Installing contractor shall bear all responsibility for any deviations from the above stated grounding procedure, even if allowed by the Owner or Engineer

O. CONTROL SYSTEM INSTALLATION

1. The Installing Contractor shall provide all touchpanel, button panel, and control system programming.
 2. The Installing Contractor shall have all programming performed by a staff Level 2 programmer or contract the services of an approved Independent Programmer.
 3. All touchpanel layouts shall be provided to the Engineer and Owner's representative as an executable file for review of function and design before the Control System programming is implemented.
 4. The Engineer and Owner's representative shall review the touchpanels for confirmation of function and acceptable overall design. Either party may request changes in overall layouts, colors, text fonts, or other aspects of the design. Such changes shall be incorporated into the touchpanel layouts by the Installing Contractor without claim for additional payment.
 5. If the Touchpanel layouts are deemed unacceptable by the Engineer or Owner's Representative, the Installing Contractor shall take whatever means necessary to provide acceptable programming without claim for additional payment.
 6. All uncompiled programming code and touchscreen designs shall be written to USB flash media in native digital file format, turned over to the Owner, and become the intellectual property of the Owner at the completion of the project.
- P. Following installation and system "turn-up", but prior to final acceptance of the system, Contractor shall conduct follow-up interviews with Owner identified administrators and staff to review system functionality, suitability and confirm feature and program fitness for Owner applications.

1. Follow-up interviews shall be fully documented by Contractor and submitted to Owner for approval.

Q. All cable and device labels shall match existing standard.

3.03 TESTING

A. In an effort to ensure a smooth “turn-up” of the new system Contractor shall submit to a thorough testing process as defined herein prior to cut-over.

B. Prior to requesting testing by Designer, the Contractor shall use adequate means to assure the Work is completed in accordance with the specified requirements, meets the owner’s specific application requirements and is ready for functionality and integrity testing.

C. Testing Procedures

1. Prior to system “turn-up”, Contractor shall submit a written request and proposed test plan to Designer indicating they have completed full and final configuration of the system and are ready to have system integrity and functionality tested.
2. Within reasonable time after receipt of request, Designer will accept or revise the proposed test plan, provide a test schedule and coordinate testing date(s) with Owner and Contractor.
3. Should Designer determine the Work is not acceptably configured or not of adequate integrity:
 - a. Designer promptly will so notify Contractor, giving reasons therefore and providing sufficient details to allow Contractor to make corrective actions.
 - b. Contractor shall then expeditiously remedy the deficiencies and notify Designer in writing when ready for re-testing.
 - c. Designer will schedule re-test of the Work.
 - d. Excessive re-testing of Work may result in fees being assessed Contractor.
4. Should Designer and Owner concur the Work is configured properly, and system integrity is as required:
 - a. Designer will review Contractors detailed “turn-up” plan, and upon finding it acceptable issue a memorandum of Testing Completion to Owner and Contractor after which system “turn-up” can proceed.

3.04 DOCUMENTATION

- A. Contractor shall, throughout the completion of the project, provide Owner a file storage system that shall include all necessary equipment, including if reasonably required, file drawers, folders, dividers, etcetera, to contain all as-built drawings, owner's manuals of all equipment installed, warranty and maintenance information and other information the Contractor, Designer and/or Owner deem necessary. Documentation shall also be provided in a digital format in file formats and on media as specified by Owner and/or Designer.

- B. Contractor shall be responsible for providing thorough, timely documentation on all hardware, software. Documentation shall include, but not be limited to:
 - 1. Equipment description.
 - 2. Equipment make.
 - 3. Model number.
 - 4. Software release.
 - 5. Date installed.
 - 6. Location installed.
 - 7. Manufacturer's warranty.
 - 8. Maintenance contract terms.
 - 9. Verification of maintenance contract engagement.
 - 10. Telephone numbers for service and support.
 - 11. Detailed technical support and service procedure instructions.
 - 12. All product (hardware and software) manuals and manufacturer supplied documentation, including, but not limited to owner manuals, system administrator manuals and configuration guides. Where number of duplicate copies for particular manual or documentation item could be reasonably considered excessive, Contractor shall request direction from Owner and Designer.
 - 13. Photocopy of original invoice listing make and model for all components and equipment from individual manufacturer(s), distribution source(s), or authorized agent(s) to establish manufacturer warranty start date for potential use after end of contract warranty provisions.

14. CAD or Visio as built drawings/diagrams for each building.
15. System Configuration Report.
16. Complete inventory of installed hardware and system software including, but not be limited to, model numbers, Ethernet MAC address, serial numbers, physical installation location and software options.
17. A copy of all DSP settings shall be written to USB flash media in native digital file format and placed in the rack that houses the respective DSP after the completion and acceptance of all work and testing. All DSP configuration/programming shall become intellectual property of the Owner at the completion of the project.

3.05 TRAINING

- A. No training shall be conducted prior to training outline and/or syllabus being approved by Owner, Instructional or overview activities conducted without prior content approval with not be deemed contract training, and Contractor shall remain responsible for delivery of approved training.
- B. Contractor shall provide training for the Owner designated system administrator(s). Training shall be a minimum of one (1), one (1) hour session in length, at the convenience of the Owner personnel, and of sufficient duration to satisfactorily complete training on all system administration functions including, but not limited to:
 1. Basic trouble shooting of the installed system and components including diagnostic and problem resolution actions.
 2. System back-up and restore functions and procedures for all system parameters and configurations.
 3. Device additions moves and changes as well as reconfiguration.
 4. Review of system alerts, logs and monitoring of configuration parameters including, but not limited to and system configuration changes.
- C. Contractor shall provide end user training for classroom instructors district wide via the development of video training segments to be posted on an internal website for distribution. Training shall be available prior to substantial completion. End user video training segments shall include, but not limited to the following:
 1. System power up and power down.
 2. Source selection.

3. Volume control.
4. Voice amplification use.
5. Document camera operation.
6. System care and classroom maintenance best practices.
7. Equipment cart relocation and adjustments.
8. Screen operation and care.
9. Problem reporting.

3.06 SCHEDULE, MEETINGS AND PLANS

A. Schedule

1. Post bid Interviews: September 11 & 12, 2023
2. Contractor Chosen: October 12, 2023
3. Work Commences: October 2023
4. Substantial Completion of Project: March 29, 2024
5. Project Close-out: April 19, 2024

B. Planned sequence of operations shall be established by the Contractor within the guidelines established by the Owner, as required herein and as required to meet schedules.

C. All work shall be coordinated with Owner's construction manager on site.

D. Project progress meetings shall be held, but not limited to, weekly at a site and time identified as convenient for Owner and as required herein. Meetings will be attended as required herein.

END OF SECTION

SECTION 27 51 16
PUBLIC ADDRESS SYSTEM

PART 1 - GENERAL

1.01 DESCRIPTION OF PROJECT

- A. Work described in this specification section pertains to Public Address and Intercom System expansion for Hudsonville Public Schools. Work shall include, but not be limited to, head-end equipment, cabling, ceiling and/or wall speakers, interface units and all other components and services required for a full and operational system.
- B. Owner desires to add to systems currently in operation and serving indicated locations on drawings.
- C. The Contractor shall design, engineer, configure, supply, connect, test, document, and warrant a fully operational and compliant system, complete and with full functionality as specified herein.
- D. Contractor shall coordinate their installation with other communication systems, contractors, Designer, and the Owner as is appropriate.
- E. Demolition of existing equipment is shown on the drawings with a dashed outline. Contractor is responsible for removal and safe disposal of all associated equipment related to the old public address speaker.

1.02 WARRANTY

- A. Complete installation shall be fully functional and free from defect and/or failure for a period of three (3) years. Any replacement, upgrade, or fix, including labor for any non-conforming or non-operational part of the system shall be fixed and/or replaced at no cost to the Owner.
 - 1. Owner shall be provided full operation of system functions and features during the complete warranty period incurring absolutely no costs during that time.
- B. Manufacturer's warranty shall be provided for all components of the system.
 - 1. Any paperwork and/or submittals required by individual manufacturers for compliance with the standard and/or applicable extended warranty programs shall be provided and submitted for approval by the Contractor.
 - 2. Contractor shall submit all paperwork, apply for warranty or extended warranty certification, and provide a Certificate of Warranty or Extended Warranty as may be applicable from the manufacturer prior to project closeout.

- C. On site services provided under the warranty shall be performed by personnel or representatives of Contractor as herein defined and located within physical proximity to provide response levels deemed acceptable to Owner.
- D. Contractor shall provide the following response times for all malfunctioning equipment:
 - 1. Four (4) hours or less for matters that render twenty percent (20%) or more of the system users unable to maintain normal productivity.
 - 2. Two (2) business days for matters not meeting the above criteria.
 - 3. Response time shall be measured from the time Contractor is notified by Owner to the time work is begun to resolve the matter.
- E. Bidder shall provide current monthly maintenance/service contract pricing for recommended programs for all equipment following the specified and included period as additional information. This information will be considered by Owner and Designer as part of the bid evaluation process.
- F. System Warranty shall commence on date of substantial completion as certified by Designer and provided for herein. Delivery to work site of materials, connection of circuits, turn-up of system, physical removal from packaging, issuance of Contractor documents including, but not limited to invoices and/or packing slips, or any event or documentation, not specifically provided for herein, shall have no effect on Warranty or System Acceptance by Owner and/or Designer.

1.03 STORAGE OF MATERIALS

- A. All materials shall be secured when not in use by the Contractor.
- B. It shall be the Contractor's responsibility to secure all equipment including material to be installed as part of the contract. No changes shall be made to the contract due to loss or theft of equipment and/or materials not officially accepted by the Owner.
- C. Formal receipt of the materials shall not be completed by the Owner until completion of project closeout. The Contractor shall be responsible for all equipment until time of closeout as provided for herein.

1.04 SUBMITTALS

- A. Submittals shall consist of, but not be limited to, technical cut sheets and detailed information pamphlets on all components of the system to be installed. All cut sheets and submittals shall be distinctly marked to highlight the actual part number of the item being submitted for approval with Bid Proposals.

- B. Shop drawings and diagrams shall be submitted by Bidder for approval by Designer with Bid Proposals.
 - 1. Shop drawings and diagrams shall show all data relating to structural, electrical, wiring, cross connect, interconnect, equipment arrangement/layout, and any other information deemed significant by the Designer.
 - 2. No work constituting final installation shall be commenced until after approval of shop drawings by Designer.
- C. Contractor shall provide proof of manufacturer support by photocopy of certification and letter of support from major component manufacturers for this specific project with Bid Proposals.
- D. Equipment or material installed for this project that does not have an approved submittal associated with it, will be removed, and replaced with acceptable equipment or material as defined by the Designer. All replacement costs including, but not limited to material and labor, shall be the sole responsibility of the Contractor.
 - 1. The Owner and/or Designer may notify Contractor of any offending situations under this provision allowing Contractor up to forty-eight (48) hours to correct the situation prior to taking other corrective action.
 - 2. The Owner reserves the right to replace unapproved materials and deduct the costs of doing so as defined herein from any amounts that may be due or become due Contractor.
- E. The Contractor shall submit within five (5) calendar days after the Notice to Proceed, a schedule that reflects the sequence of activities of the contractor's approach to the execution of and completion of the work. The schedule shall be broken into work areas to provide for a clear identification of the planned progress of the work. Included in the schedule will be a list of tasks with list of deliverables and the percentage of work completed. This schedule shall coincide with progress payments applications dates and projected amounts. All durations shown will be in working days. The timeframe described in the Contractor's Schedule shall represent the Contractor's plan for organizing, directing, managing, controlling, staffing and executing the work required by the Contract Documents. Owner will rely on such schedules to coordinate and otherwise plan related work of Owner personnel, other separate contractors, or the Owner's routine daily work.

1.05 REFERENCE SPECIFICATIONS

- A. All work, products, and materials shall conform with the following standards as applicable for the intended use:

1. EIA/TIA Commercial and Administration Standards
2. NEC
3. IEEE 802
4. IETF RFCs
5. FCC Emissions Ratings
6. UL
7. MOSHA Safety Standards

1.06 CONTRACTOR

- A. The Contractor shall accept complete responsibility for the installation, certification, and support of the system. Contractor shall be an authorized vendor of all major components.
- B. All work shall be performed and supervised by Project Managers, Engineers and/or Technicians who are qualified to install Voice Communication System and perform related tests as recommended by the manufacturer and in accordance with the manufacturer's best practices and methods.
- C. Project Managers, Engineers and Technicians employed on this project shall be properly and fully trained and qualified by the manufacturer on the installation and testing of the equipment and systems to be installed.
- D. The Contractor shall have a proven track record in Public Address System configuration and installation. This must be shown by the inclusion of references of at least three (3) projects involving the installation of similar systems completed by the Contractor in the prior two (2) years on unaltered forms with the sealed Bid Proposal as provided herein.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturer of major components of the included Public Address / Intercom system shall be known and leading entity in the relevant communications field, and shall have been designing, manufacturing, and installing similar systems for a period of no less than three (3) years.
 1. Acceptable Manufacturers
 - a. Advanced Network Devices
 - b. Or Equivalent

- 2.02 Supply most current version of all products provided.
- A. Prior and/or old versions of products, unless specifically approved and documented by Designer and/or Owner shall not be acceptable.
 - B. In cases where a newer version of hardware or software is available at the time of installation, Contractor shall request clarification from Designer on which version is to be used.
- 2.03 Furnish only new, first class quality materials and equipment.
- 2.04 PUBLIC ADDRESS AND INTERCOM SYSTEM HEAD END
- A. Contractor shall supply, install, and configure all necessary materials for a fully IP PoE Paging/Intercom system. System shall fully integrate new speakers and intercom devices as specified herein for a fully working and compliant system.
 - B. System shall be Advanced Network Device
 - C. System shall reside on a Contractor provided server that shall be installed in the building MDF.
 - D. System shall provide for, but not be limited to the following:
 - 1. Building wide paging
 - 2. Individual classroom intercom initiated from the classroom, or from the office.
 - 3. Program bells and alerts for normal school operation, configurable by simple calendar-based user interface.
 - 4. Individual volume control of each IP speaker.
 - 5. Full SIP compliance for communication between devices.
 - 6. All other features and functions that are part of the manufacturer's current release of the product offering.
 - E. The Owner has preference for software licensing based on a persistent or perpetual model. Monthly or annual subscription licensing will not be as favorably considered as the preferred model.
- 2.05 COMMON INTERIOR SPEAKERS
- A. One (1) Common Interior Speaker (one way audio) shall be installed in/on finished ceiling surfaces in corridor as indicated on drawings.

- B. Contractor shall provide and install PoE Speakers as indicated herein:
(Indicated on Drawings as S1)
 - 1. IPSCM-RMe
 - 2. Or Approved Equivalent
- C. Final speaker placement shall be adjusted as needed for appropriate audio intelligibility, volume levels and ceiling obstructions and/or conditions and shall remain the responsibility of the contractor.
- D. Speakers shall provide balanced intelligible sound that is free of distortion, free from noise and evenly dispersed.
- E. 2'x2' lay in speaker with 8" cone speaker complete and assembled shall be installed.
 - 1. Capable of >96 dB at 4'.
 - 2. Frequency range is 45-18,000Hz.
- F. All speakers shall be field firmware changeable to support multiple other SIP based software systems.
- G. Any speaker baffles shall be installed with hardware matching the color of the baffle. Baffle color shall match finished ceiling color.
 - 1. All baffles shall be flush against the ceiling and enclosures shall be fully supported. All speakers shall include a back-box.
- H. All devices shall be mounted square and plumb and as recommended by the manufacturer and required by Owner and Architect.
- I. Each speaker shall be connected to central equipment PoE+ compliant cabling provided by Others and provide for system wide broadcast and/or zone-specific broadcast.
- J. Each speaker shall be volume adjustable at installation to accommodate specific acoustical properties of the intended coverage area.
- K. Where 2x2 lay-in speaker installation is not possible contractor shall supply appropriate and compatible speakers:
 - 1. Where ceilings are open IPSWS-SM or equal shall be used
 - 2. Where ceilings are hard-lid Valcom IPSCM-RMe or equal shall be used complete with backbox and all supporting components as recommended by manufacturer. (Indicated on Drawings as S5 and S6)

- L. Coordinate final placement of speakers with Designer and/or Architect.
 - 1. Area of coverage will be such that calls will be clearly audible in the operating area and surrounding space.
- M. System shall produce audio at a peak level of approximately eighty-five (85) dBA at probable listener's positions.

2.06 COMPONENT INTERCONNECTION

- A. All wiring not installed in conduit shall be plenum type cable and shall be so identified with continuous marking.
- B. No wiring installed shall be visible unless specifically and individually approved by Owner and Designer. All wire that traverses open areas shall be installed in metal raceway of appropriate size for the number of wires installed plus twenty percent more.
 - 1. All metal raceway shall be ordered in standard colors to as closely match the environment in which it is being installed as possible.
 - 2. Metal raceway shall be carefully and neatly installed, to meet manufacturer recommendations and standards for professional installation.
 - 3. Sharp edges, gaps in the covering or corners or other unprofessional workmanship characteristics of installation will not be acceptable.
- C. Wiring color shall remain the same throughout the system. Colors used for coding shall be as directed by the system manufacturer, Owner, and Architect.
- D. Wire shall be copper.

2.07 ALLOWANCES

- A. Contractor shall include allowances for equipment and/or other contract service reimbursements as required below in base bid lump sum amount(s). Equipment and/or contract services shall be provided and sourced at Owner's discretion and convenience with full cooperation by Contractor and paid for from successful bidder's contract in the amount(s) provided for herein. Any allowance amount proving to be excessive for the intended equipment and/or contract services shall be credited to the Owner against contract payment requests.
 - 1. Allowance shall be made in the amount of \$10,000 for contract services related to supply, installation, and connection of contingency upgrades.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Contractor shall conduct detailed walk-through examination with Designer and Owner verifying equipment and material locations as well as mounting and placement requirements prior to commencement of other installation activities.
- B. Contractor shall ensure all submittals and shop drawings have been provided to, and approval has been obtained from Designer prior to commencement of any final installation activities.

3.02 INSTALLATION

- A. Contractor shall be familiar with the environment where work will be done as specified herein.
- B. Work Areas shall be cleaned at the end of each day. All debris shall be cleared, removed, and disposed of in an approved container for the site. All equipment and tools shall be removed from common areas and stored in approved, secure storage locations. Any work that may impede the general use of the space and cannot be removed shall be flagged and cordoned off by the Contractor prior to their departure.
- C. All equipment and materials shall be installed in a neat and workmanlike manner. Best practices installation principles shall be used throughout the project.
- D. The Contractor shall furnish, set in place, and install all equipment necessary for a fully compliant and operational system as specified herein. The installation process includes, but is not limited to the following:
 - 1. Inventory receipt of all components and equipment.
 - 2. Storage of all equipment and components until such time those items are installed according to the specifications.
 - 3. Transport equipment to the Owner's installation location(s).
 - 4. Assemble, install, configure, and test all equipment and components, maintaining accurate inventory records and status documents and discarding packaging.
 - 5. Collect all information necessary to accurately program all sets and/or system devices to the Owner's intended use and need.
 - 6. Complete end user and system administrator training programs as specified herein.

7. Work shall be performed to meet local codes and industry standards, including, but not limited to:
 - a. Adequate gas tube protection for outside plant cable connections.
 - b. Grounding and Bonding.
8. Work includes extending cable bundles, as required, to Owner identified equipment installation locations at all locations.
9. Owner will provide contractor with permanent asset tags for each system component that exceeds \$100.00 in value. Equipment installed in wiring closets will have district asset tags installed in a prominent location. Assets installed in public areas, such as staff desktop devices, will have asset tags installed in discreet but consistent area of each asset.
 - a. Asset number, device/component description, serial number, make, model, part-number, site, room number/name and any other critical asset information shall be recorded for Owner.
- E. It shall be the responsibility of the Contractor to repair or replace any damage done to the structure of finishes in the building by the Contractor. If in the course of work, Contractor damages, marks, or misplaces any surfaces or access plates/panels the Contractor shall repair and/or replace the surface, plate, or panel to the original condition.
 1. Final determination as to the damage condition and/or repair/replacement fitness of any surface, plate or panel shall be the sole responsibility of the Designer.
 2. The building and work area shall be returned to its original condition prior to final sign-off of the project.
- F. Following installation and prior to final acceptance of the system, Contractor shall conduct follow-up interviews with Owner identified administrators and staff to review system functionality, suitability and confirm feature and program fitness for Owner applications.
 1. Follow-up interviews shall be fully documented by Contractor and submitted to Owner for approval.
- G. Contractor shall collect, consolidate and otherwise prepare for shipping or disposal Owner's existing telecommunications system components, including, but not limited to stations, processors, cards, options, and application servers in a manner acceptable to, and consistent with, Owner's intended disposition of the items.

3.03 TESTING

- A. In an effort to ensure a smooth “turn-up” of the new system Contractor shall submit to a thorough testing process as defined herein prior to cut-over. Testing shall include, but not be limited to the following:
- B. Prior to requesting testing by Designer, the Contractor shall use adequate means to assure the Work is completed in accordance with the specified requirements, meets the owner’s specific application requirements and is ready for functionality and integrity testing.
- C. PROCEDURES
 - 1. Prior to system “turn-up”, Contractor shall submit a written request to Designer indicating they have completed full and final configuration of the system and are ready to have system integrity and functionality tested.
 - 2. Within reasonable time after receipt of request, Designer will provide a test schedule and coordinate testing date(s) with Owner and Contractor.
 - 3. Should Designer determine the Work is not acceptably configured or not of adequate integrity:
 - a. Designer promptly will so notify Contractor, giving reasons therefore and providing sufficient details to allow Contractor to make corrective actions.
 - b. Contractor shall then expeditiously remedy the deficiencies and notify Designer in writing when ready for re-testing.
 - c. Designer will schedule re-test of the Work.
 - d. Excessive re-testing of Work may result in fees being assessed Contractor.
 - 4. Should Designer and Owner concur the Work is configured properly, and system integrity is as required:
 - a. Designer will review Contractors detailed cut-over plan, and upon finding it acceptable issue a memorandum of Testing Completion to Owner and Contractor after which system cut-over can proceed.

3.04 DOCUMENTATION

- A. Contractor shall, throughout the completion of the project, provide Owner a file storage system that shall include all necessary equipment (file drawers, folders, dividers, etc.), to contain all as-built drawings, owner’s manuals of all equipment installed, warranty and maintenance information and other information the Contractor, Designer and/or Owner deem necessary.

B. Contractor shall be responsible for providing thorough, timely documentation on all hardware, software. Documentation shall include, but not be limited to:

1. Equipment description.
2. Equipment make.
3. Model number.
4. Software release.
5. Date installed.
6. Manufacturer's warranty.
7. Maintenance contract terms.
8. Verification of maintenance contract engagement.
9. Telephone numbers for service and support.
10. Detailed technical support and service procedure instructions.
11. All product (hardware and software) manuals and manufacturer supplied documentation, including, but not limited to owner manuals, system administrator manuals and configuration guides. Where number of duplicate copies for particular manual or documentation item could be reasonably considered excessive, Contractor shall request direction from Owner and Designer.
12. Photocopy of original invoice listing make and model for all components and equipment from individual manufacturer(s), distribution source(s), or authorized agent(s) to establish manufacturer warranty start date for potential use after end of contract warranty provisions.
13. CAD as built drawings for each building.

3.05 TRAINING

- A. No training shall be conducted prior to training outline and/or syllabus being approved by Owner. Instructional or overview activities conducted without prior content approval with not be deemed contract training, and Contractor shall remain responsible for delivery of approved training.
- B. Contractor shall provide training for the Owner designated system administrator(s). Training shall be a minimum of one (1), one (1) hour session in length, at the convenience of the Owner personnel, and of sufficient

duration to satisfactorily complete training on all system administration functions including, but not limited to:

1. Basic trouble shooting of the installed system and components including diagnostic and problem resolution actions.
 2. System back-up and restore functions and procedures for all system parameters and configurations.
 3. Device additions moves and changes as well as reconfiguration.
 4. Review of system alerts, logs and monitoring of configuration parameters including, but not limited to and system configuration changes.
 5. System power-up and power down process.
 6. Recording and playing pre-recorded content.
 7. System update process
 8. System maintenance procedures.
 9. Problem reporting.
- C. Contractor shall provide in-person end user training for building office staff. Training shall be available at substantial completion. Training shall include, but not limited to the following:
1. System functionality overview.
 2. Bell schedule programming and changes.
 3. Paging zone controls.
 4. Intercom function use incoming and outgoing.
 5. System operation best practices.
 6. Building wide all page.
 7. Recording and playing pre-recorded content.
 8. Problem reporting.

3.06 SCHEDULE, MEETINGS AND PLANS

A. Schedule

1. Post bid Interviews: September 11 & 12, 2023

2. Contractor Chosen: October 12, 2023
 3. Work Commences: October 2023
 4. Substantial Completion of Project: March 29, 2024
 5. Project Close-out: April 19, 2024
- B. Planned sequence of operations shall be established by the Contractor within the guidelines established by the Owner, as required herein and as required to meet schedules.
- C. All work shall be coordinated with Owner's construction manager on site.
- D. Project progress meetings shall be held, but not limited to, weekly at a site and time identified as convenient for Owner and as required herein. Meetings will be attended as required herein.

END OF SECTION

SECTION 27 53 13
CLOCK SYSTEM

PART 0 - GENERAL

1.01 DESCRIPTION OF PROJECT

- A. Work described in this specification section specification section pertains to Clock System expansion for Hudsonville Public Schools. Work shall include, but not be limited to, head-end equipment, cabling, single and dual sided wall clocks, and all other components and services required for a full and operational system.
- B. Contractor shall advise, coordinate, and work cooperatively with Owner representatives and/or owner's designee related to any installation or special security provisions.
- C. The Contractor shall design, engineer, configure, supply, connect, test, document, train Owner representatives and warrant a fully operational and compliant system, complete and with full functionality as specified herein.
- D. Contractor shall coordinate their installation with other contractors, Designer and the Owner as is appropriate.
- E. Clocks will act as the paging/intercom unit in locations where a clock is indicated, and a public address speaker is not indicated. Contractor to integrate clock into public address system and configure for public address and two-way communication.
- F. Demolition of existing equipment is shown on the drawings with a dashed outline. Contractor is responsible for removal and safe disposal of all associated equipment related to the old clock system. Provide and install 12x12 steel cover plate painted white for demolition clock unless otherwise noted on drawings. Clock and Public address combination units that are to be demo will require a 14"x28" steel cover plate painted white.

1.02 WARRANTY

- A. Complete installation shall be free from defect and/or failure for a period of one (1) year. Any replacement, upgrade, or fix, including labor for any non-conforming or non-operational part of the system shall be fixed and/or replaced at no cost to the Owner.
- B. Manufacturer's warranty shall be provided for all components of the system.

1. Any documents and/or submittals required by individual manufacturers for compliance with the standard and/or applicable extended warranty programs shall be provided and submitted for approval by the Contractor.
 2. Contractor shall submit all documents, apply for warranty or extended warranty certification, and provide a Certificate of Warranty or Extended Warranty as may be applicable from the manufacturer prior to project closeout.
- C. On site services provided under the warranty shall be performed by personnel or representatives of Contractor as herein defined and located within physical proximity to provide response levels deemed acceptable to Owner.
- D. Contractor shall provide the following response times for all malfunctioning equipment:
1. Eight (8) hours or less for matters that render twenty percent (20%) or more of the system unable to maintain normal functionality.
 2. Two (2) business days for matters not meeting the above criteria.
 3. Response time shall be measured from the time Contractor is notified by Owner to the time work is begun to resolve the matter.
- E. Bidder shall provide current annual maintenance contract pricing for recommended maintenance programs for all equipment following the specified and included one (1) year period as a Voluntary Alternate. This information will be considered by Owner and Designer as part of the bid evaluation process.
- F. System Warranty shall commence on date of substantial completion as certified by Designer and provided for herein. Delivery to work site of materials, physical removal from packaging, issuance of Contractor documents including, but not limited to invoices and/or packing slips, or any event or documentation, not specifically provided for herein, shall have no effect on Warranty or System Acceptance by Owner and/or Designer.

1.03 STORAGE OF MATERIALS

- A. All materials shall be secured when not in use by the Contractor.
- B. It shall be the Contractor's responsibility to secure all equipment including material to be installed as part of the contract. No changes shall be made to the contract due to loss or theft of equipment and/or materials not officially accepted by the Owner.

- C. Formal receipt of the materials shall not be completed by the Owner until completion of project closeout. The Contractor shall be responsible for all equipment until time of closeout as provided for herein.

1.04 SUBMITTALS

- A. Submittals shall consist of, but not be limited to, technical cut sheets and detailed information pamphlets on all components of the system to be installed. All cut sheets and submittals shall be distinctly marked to highlight the actual part number of the item being submitted for approval with Bid Proposals.
- B. Shop drawings and diagrams shall be submitted by Bidder for approval by Designer with Bid Proposals.
 - 1. Shop drawings and diagrams shall show all data relating to structural, electrical, wiring, cross connect, interconnect, equipment arrangement/layout, and any other information deemed significant by the Designer.
 - 2. No work constituting final installation shall be commenced until after approval of shop drawings by Designer.
- C. Contractor shall provide proof of manufacturer support by photocopy of certification and letter of support from major component manufacturers for this specific project with Bid Proposals.
- D. Equipment or material installed for this project that does not have an approved submittal associated with it, will be removed, and replaced with acceptable equipment or material as defined by the Designer. All replacement costs including, but not limited to material and labor, shall be the sole responsibility of the Contractor.
 - 1. The Owner and/or Designer may notify Contractor of any offending situations under this provision allowing Contractor up to forty-eight (48) hours to correct the situation prior to taking other corrective action.
 - 2. The Owner reserves the right to replace unapproved materials and deduct the costs of doing so as defined herein from any amounts that may be due or become due Contractor.
- E. The Contractor shall submit within ten (10) calendar days after the Notice to Proceed, a schedule that reflects the sequence of activities of the contractor's approach to the execution of and completion of the work. The schedule shall be broken into work areas to provide for a clear identification of the planned progress of the work. Included in the schedule will be a list of tasks with list of deliverables and the percentage of work completed. This schedule shall coincide with progress payments applications dates and projected amounts.

All durations shown will be in working days. Microsoft Project is the software of choice for this schedule. The timeframe described in the Contractor's Schedule shall represent the Contractor's plan for organizing, directing, managing, controlling, staffing, and executing the work required by the Contract Documents. Owner will rely on such schedules to coordinate and otherwise plan related work of Owner personnel, other separate contractors, or the Owner's routine daily work.

1.05 REFERENCE SPECIFICATIONS

- A. All work, products, and materials shall conform with the following standards as applicable for the intended use:
 - 1. IEEE
 - 2. EIA/TIA Commercial and Administration Standards
 - 3. NEC
 - 4. FCC – All Applicable Rules and Regulations
 - 5. UL
 - 6. MOSHA Safety Standards

1.06 CONTRACTOR

- A. The Contractor shall accept complete responsibility for the installation, certification, and support of the system. Contractor shall be an authorized vendor of all major components.
- B. All work shall be performed and supervised by Project Managers, Engineers and/or Technicians who are qualified to install system and perform related tests as recommended by the manufacturer and in accordance with the manufacturer's best practices and methods.
- C. Project Managers, Engineers and Technicians employed on this project shall be properly and fully trained and qualified by the manufacturer on the installation and testing of the equipment and systems to be installed.
- D. The Contractor shall have a proven track record in security system configuration and installation. This must be shown by the inclusion of references of at least three (3) projects involving the installation of similar systems completed by the Contractor in the prior two (2) years on unaltered forms with the sealed Bid Proposal as provided herein. Bid Proposal Form(s) may be duplicated as required in order to provide adequate space to list required number of reference installations for each division Bidder is responding to.

- E. MANDATORY ALTERNATE: Contractor to provide mandatory alternate pricing for additional clocks as specified and show on drawings. Clocks will be a 1-1 replacement of existing. New clock locations are to be above doors. Any hole caused by removal of old clock requires a cover plate. Contractor to assume a 14"x28" steel cover plate painted white will be required.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturers:
 - 1. Advanced Network Devices
 - 2. Or Equal

2.02 Supply most current version of all products provided.

- A. Manufacturer shall have five (5) years of experience and history manufacturing similar products to those specified.
- B. Proposed components shall have been field tested and proven in actual use.
- C. Prior and/or old versions of products, unless specifically approved and documented by Designer and/or Owner shall not be acceptable.
- D. In cases where a newer version of hardware or software is available at the time of installation, Contractor shall request clarification from Designer on which version is to be used.

2.03 Furnish only new, first class quality materials and equipment.

2.04 In the event of a power failure, complete system shall automatically re-initialize and "become active" to the last configuration in use with no human intervention.

2.05 Contractor shall be responsible for final and working system. Use of existing components and materials provided by others during new construction shall be integral to system configuration and cost-effective installation. Bidders are encouraged to use all compatible and working components in system solution. See schedule(s) and reference files for additional detail.

2.06 CLOCK SYSTEM

- A. Contractor shall supply, install, and configure all necessary materials to install a fully compliant simple PoE Clock System attached to NTP server as directed by Owner to fully integrate new clock devices as specified herein.

2.07 SINGLE SIDED CLOCK

- A. Single sided factory assembled digital clocks shall be provided and installed in classrooms and/or other instructional areas as indicated in associated drawings. (C1 on drawings)
- B. Clocks shall meet or exceed the following:
 - 1. Advanced Network Devices or equal.
 - a. IPSWDHD-MW
 - 2. Or Approved Equivalent

2.08 DOUBLE SIDED CLOCK

- A. Double sided factory assembled digital clocks shall be provided and installed on wall surfaces in corridor and as indicated in associated drawings. (C2 on drawings)
- B. Clocks shall meet or exceed the following:
 - 1. Advanced Network Devices
 - a. IPCSHD-DS-MB
 - 2. Or Approved Equivalent

2.09 LARGE IP SIGNBOARD

- A. Large IP signboard assembled digital clock shall be provided and installed on wall surfaces in gymnasium and as indicated in associated drawings. (C3 on drawings)
- B. Clocks shall meet or exceed the following:
 - 1. Advanced Network Devices
 - a. IPSIGNL-RWB
 - 1. Include Cage
 - b. Or approved Equivalent

PART 3 - EXECUTION

3.01 PREPARATION

- A. Contractor shall conduct detailed walk-through examination with Designer and Owner verifying equipment and material locations as well as mounting

and placement requirements prior to commencement of other installation activities.

- B. Contractor shall ensure all submittals and shop drawings have been provided to, and approval has been obtained from Designer prior to commencement of any final installation activities.

3.02 INSTALLATION

- A. Contractor shall be familiar with the environment where work will be done as specified herein and make every reasonable effort to minimize interference with Owner's or other contractor's activities.
- B. Work Areas shall be cleaned at the end of each day. All debris shall be cleared, removed, and disposed of in an approved container for the site. All equipment and tools shall be removed from common areas and stored in approved, secure storage locations. Any work that may impede the general use of the space and/or other contractor's work and cannot be removed shall be flagged and cordoned off by the Contractor prior to their departure.
- C. All equipment and materials shall be installed in a neat and workmanlike manner. Best practices installation principles shall be used throughout the project.
- D. The Contractor shall furnish, set in place, and install all equipment necessary for a fully compliant and operational system as specified herein. The installation process includes, but is not limited to the following:
 - 1. Inventory receipt of all components and equipment.
 - 2. Storage of all equipment and components until such time those items are installed according to the specifications.
 - 3. Transport equipment to the Owner's installation location(s).
 - 4. Assemble, install, configure, and test all equipment and components, maintaining accurate inventory records and status documents and discarding packaging.
 - 5. Collect all information necessary to accurately program all system devices to the Owner's intended use and need.
 - 6. Label all system devices as may be appropriate and required by Owner and Designer.
 - 7. Complete end user and system administrator training programs as specified herein.

8. Work shall be performed to meet local codes and industry standards including proper grounding and bonding of installed equipment.
- E. It shall be the responsibility of the Contractor to repair or replace any damage done to the structure of finishes in the building by the Contractor. If in the course of work, Contractor damages, marks, or misplaces any surfaces or access plates/panels the Contractor shall repair and/or replace the surface, plate or panel to the original condition.
1. Final determination as to the damage condition and/or repair/replacement fitness of any surface, plate or panel shall be the sole responsibility of the Designer.
 2. The building and work area shall be returned to its original condition prior to final sign-off of the project.
- F. Following installation and system “turn-up”, but prior to final acceptance of the system, Contractor shall conduct follow-up interviews with Owner identified administrators and staff to review system functionality, suitability and confirm feature and program fitness for Owner applications.
1. Follow-up interviews shall be fully documented by Contractor and submitted to Owner for approval.

3.03 TESTING

- A. In an effort to ensure a smooth “turn-up” of the new system Contractor shall submit to a thorough testing process as defined herein prior to cut-over.
- B. Prior to requesting testing by Designer, the Contractor shall use adequate means to assure the Work is completed in accordance with the specified requirements, meets the owner’s specific application requirements and is ready for functionality and integrity testing.
- C. Testing Procedures
1. Prior to system “turn-up”, Contractor shall submit a written request to Designer indicating they have completed full and final configuration of the system and are ready to have system integrity and functionality tested.
 2. Within reasonable time after receipt of request, Designer will provide a test schedule and coordinate testing date(s) with Owner and Contractor.
 3. Should Designer determine the Work is not acceptably configured or not of adequate integrity:

- a. Designer promptly will so notify Contractor, giving reasons therefore and providing sufficient details to allow Contractor to make corrective actions.
 - b. Contractor shall then expeditiously remedy the deficiencies and notify Designer in writing when ready for re-testing.
 - c. Designer will schedule re-test of the Work.
 - d. Excessive re-testing of Work may result in fees being assessed Contractor.
4. Should Designer and Owner concur the Work is configured properly, and system integrity is as required:
 - a. Designer will review Contractors detailed “turn-up” plan, and upon finding it acceptable issue a memorandum of Testing Completion to Owner and Contractor after which system “turn-up” can proceed.

3.04 DOCUMENTATION

- A. Contractor shall, throughout the completion of the project, provide Owner a file storage system that shall include all necessary equipment, including if reasonably required, file drawers, folders, dividers, etcetera, to contain all as-built drawings, owner’s manuals of all equipment installed, warranty and maintenance information and other information the Contractor, Designer and/or Owner deem necessary. Documentation shall also be provided in a digital format in file formats and on media as specified by Owner and/or Designer.
- B. Contractor shall be responsible for providing thorough, timely documentation on all hardware, software. Documentation shall include, but not be limited to:
 1. Equipment description.
 2. Equipment make.
 3. Model number.
 4. Software release.
 5. Date installed.
 6. Manufacturer's warranty.
 7. Maintenance contract terms.
 8. Verification of maintenance contract engagement.

9. Telephone numbers for service and support.
10. Detailed technical support and service procedure instructions.
11. All product (hardware and software) manuals and manufacturer supplied documentation, including, but not limited to owner manuals, system administrator manuals and configuration guides. Where number of duplicate copies for particular manual or documentation item could be reasonably considered excessive, Contractor shall request direction from Owner and Designer.
12. Photocopy of original invoice listing make and model for all components and equipment from individual manufacturer(s), distribution source(s), or authorized agent(s) to establish manufacturer warranty start date for potential use after end of contract warranty provisions.
13. As built drawings for each building.
14. System Configuration Report.
15. Complete inventory of installed hardware and system software. Hardware inventory shall include, but not be limited to, model numbers, serial

3.05 TRAINING

- A. Not used.

3.06 SCHEDULE, MEETINGS AND PLANS

A. Schedule

1. Post bid Interviews: September 11 & 12, 2023
2. Contractor Chosen: October 12, 2023
3. Work Commences: October 2023
4. Substantial Completion of Project: March 29, 2024
5. Project Close-out: April 19, 2024

- B. Planned sequence of operations shall be established by the Contractor within the guidelines established by the Owner, as required herein and as required to meet schedules.

- C. All work shall be coordinated with Owner's construction manager on site.

- D. Project progress meetings shall be held, but not limited to, weekly at a site and time identified as convenient for Owner and as required herein. Meetings will be attended as required herein.

END OF SECTION

SECTION 28 13 00
BUILDING ACCESS SYSTEM

PART 1 - GENERAL

3.07 DESCRIPTION OF PROJECT

- A. Work described in this specification section pertains to access control additions to the current available system at Park Elementary School and Bauer Elementary School. Both Elementary schools are currently in a remodeling phase with construction additions of new gymnasiums and renovations to other areas of the buildings. It also includes pulling only cabling to the existing doors as indicated on the drawings.
- B. Then Owner is currently converting all existing doors with some new doors to a single access control system as part of a previous project. Owner intends to change all facilities to the new open industry standard platform. The selected Contractor is expected to work cooperatively with Owner and Designer to implement strategies for successful operation of a “split” system during a period of transition.
- C. Access control additions in this RFP only pertain to doors specified on drawings and in the door hardware schedule.
- D. Contractor shall advise, coordinate, and work cooperatively with Owner representatives and/or owner’s designee related to any installation or special security provisions.
- E. Contractor shall coordinate, and work cooperatively with the existing access control integrator for programming of all new doors that pertain to this project.
- F. The Contractor shall design, engineer, configure, supply, connect, test, document, train Owner representatives and warrant a fully operational and compliant system, complete and with full functionality as specified herein.
- G. Contractor shall coordinate their installation with other contractors, Designer and the Owner as is appropriate.
- H. Door hardware specification 087100 and schedules have been provided for both Park Elementary and Bauer Elementary.

3.08 WARRANTY

- A. Complete installation shall be free from defect and/or failure for a period of three (3) years. Any replacement, upgrade, or fix, including labor for any non-conforming or non-operational part of the system shall be fixed and/or replaced at no cost to the Owner.

1. REQUIRED ALTERNATE – 5 YEAR WARRANTY

- a. Bidder shall provide alternate, as provided for in bid form, for a five (5) year warranty in lieu of base bid warranty term as provided for herein.
- B. Manufacturer's warranty shall be provided for all components of the system.
1. Any documents and/or submittals required by individual manufacturers for compliance with the standard and/or applicable extended warranty programs shall be provided and submitted for approval by the Contractor.
 2. Contractor shall submit all documents, apply for warranty or extended warranty certification, and provide a Certificate of Warranty or Extended Warranty as may be applicable from the manufacturer prior to project closeout.
- C. On site services provided under the warranty shall be performed by personnel or representatives of Contractor as herein defined and located within physical proximity to provide response levels deemed acceptable to Owner.
- D. Contractor shall provide the following response times for all malfunctioning equipment:
1. Eight (8) hours or less for matters that render twenty percent (20%) or more of the system unable to maintain normal functionality.
 2. Two (2) business days for matters not meeting the above criteria.
 3. Response time shall be measured from the time Contractor is notified by Owner to the time work is begun to resolve the matter.
- E. To facilitate continued satisfactory operation during warranty period, Contractor shall provide the following warranty services at least once each year during the warranty term:
1. Review of all central server and/or processor logs and files to address errors and/or system anomalies to ensure continued compliance with manufacturer recommended best practices.
 2. Application of latest versions of all applicable manufacturer firmware, software upgrades/updates and any manufacture recommended patches and/or system fixes across the entire system, including, but not limited to all hardware components as well as server(s), to maintain the system in the most current configuration recommended by manufacturers.
 3. Ensure all Owner documentation and record documents are updated with current and accurate information including, but not limited to

equipment/material locations, specific system component hardware models, serial numbers, Software and firmware versions, installation locations, settings, compliance level with district standards of installation, configuration, workmanship, and Server configuration parameters.

4. Functional testing of each system component across the entire enterprise system to ensure all components are functional at manufacturer documented levels.
- F. Bidder shall provide current annual maintenance contract pricing for recommended maintenance programs for all equipment following the specified and included period as a Voluntary Alternate. This information will be considered by Owner and Designer as part of the bid evaluation process.
- G. System Warranty shall commence on date of substantial completion as certified by Designer and provided for herein. Delivery to work site of materials, physical removal from packaging, issuance of Contractor documents including, but not limited to invoices and/or packing slips, or any event or documentation, not specifically provided for herein, shall have no effect on Warranty or System Acceptance by Owner and/or Designer.

3.09 STORAGE OF MATERIALS

- A. All materials shall be secured when not in use by the Contractor.
- B. It shall be the Contractor's responsibility to secure all equipment including material to be installed as part of the contract. No changes shall be made to the contract due to loss or theft of equipment and/or materials not officially accepted by the Owner.
- C. Formal receipt of the materials shall not be completed by the Owner until completion of project closeout. The Contractor shall be responsible for all equipment until time of closeout as provided for herein.

3.10 SUBMITTALS

- A. Submittals shall consist of, but not be limited to, technical cut sheets and detailed information pamphlets on all components of the system to be installed. All cut sheets and submittals shall be distinctly marked to highlight the actual part number of the item being submitted for approval with Bid Proposals.
- B. Shop drawings and diagrams shall be submitted by Bidder for approval by Designer with Bid Proposals.
 1. Shop drawings and diagrams shall show all data relating to structural, electrical, wiring, cross connect, interconnect, equipment

arrangement/layout, and any other information deemed significant by the Designer.

2. No work constituting final installation shall be commenced until after approval of shop drawings by Designer.
- C. Contractor shall provide proof of manufacturer support by photocopy of certification and letter of support from major component manufacturers for this specific project with Bid Proposals.
- D. Equipment or material installed for this project that does not have an approved submittal associated with it, will be removed, and replaced with acceptable equipment or material as defined by the Designer. All replacement costs including, but not limited to material and labor, shall be the sole responsibility of the Contractor.
1. The Owner and/or Designer may notify Contractor of any offending situations under this provision allowing Contractor up to forty-eight (48) hours to correct the situation prior to taking other corrective action.
 2. The Owner reserves the right to replace unapproved materials and deduct the costs of doing so as defined herein from any amounts that may be due, or become due Contractor.
- E. The Contractor shall submit within ten (10) calendar days after the Notice to Proceed, a schedule that reflects the sequence of activities of the contractor's approach to the execution of and completion of the work. The schedule shall be broken into work areas to provide for a clear identification of the planned progress of the work. Included in the schedule will be a list of tasks with list of deliverables and the percentage of work completed. This schedule shall coincide with progress payments applications dates and projected amounts. All durations shown will be in working days. The timeframe described in the Contractor's Schedule shall represent the Contractor's plan for organizing, directing, managing, controlling, staffing, and executing the work required by the Contract Documents. Owner will rely on such schedules to coordinate and otherwise plan related work of Owner personnel, other separate contractors, or the Owner's routine daily work.

3.11 REFERENCE SPECIFICATIONS

- A. All work, products, and materials shall conform with the following standards as applicable for the intended use:
1. IEEE
 2. EIA/TIA Commercial and Administration Standards
 3. NEC

4. FCC – All Applicable Rules and Regulations
5. UL
6. MIOSHA Safety Standards

3.12 CONTRACTOR

- A. The Contractor shall accept complete responsibility for the installation, certification, and support of the system. Contractor shall be an authorized vendor of all major components.
- B. All work shall be performed and supervised by Project Managers, Engineers and/or Technicians who are qualified to install system and perform related tests as recommended by the manufacturer and in accordance with the manufacturer's best practices and methods.
- C. Contractor shall comply with Owner's policies related to background checks for any personnel who work on the project.
- D. Project Managers, Engineers and Technicians employed on this project shall be properly and fully trained and qualified by the manufacturer on the installation and testing of the equipment and systems to be installed.
- E. The Contractor shall have a proven track record in security system configuration and installation. This must be shown by the inclusion of references of at least three (3) projects involving the installation of similar systems completed by the Contractor in the prior two (2) years on unaltered forms with the sealed Bid Proposal as provided herein. Bid Proposal Form(s) may be duplicated as required in order to provide adequate space to list required number of reference installations for each division Bidder is responding to.

PART 4 - PRODUCTS

4.01 MANUFACTURERS

- A. Acceptable Manufacturers (In alphabetical order):
 1. HID
 - a. Credentials
 2. ASSA ABLOY
 - a. Door Interface Hardware
 3. Avigilon

- a. Central Management Software
 - 4. Bosch
 - a. REX, Door Position Switch, Door Cord
 - 5. General Electric
 - a. REX, Door Position Switch, Door Cord
 - 6. HES
 - a. Integrated Door Hardware
 - 7. HID / Mercury
 - a. Control Panel, Credential Reader, Credentials
 - 8. Honeywell
 - a. Motion Sensor/Motion Request to Exit Device
 - 1. IS310WH
 - 9. Lenel / S2
 - a. S2 Central Management Software
 - 10. Securitron
 - a. Door Position Switch
 - 1. DPS-M BK SU
 - 11. Trine
 - a. Door Interface Hardware
 - 12. Or equal
- 4.02 Supply most current version of all products provided.
- A. Manufacturer shall have five (5) years of experience and history manufacturing similar products to those specified.
 - B. Proposed components shall have been field tested and proven in actual use.
 - C. Prior and/or old versions of products, unless specifically approved and documented by Designer and/or Owner shall not be acceptable.

- D. In cases where a newer version of hardware or software is available at the time of installation, Contractor shall request clarification from Designer on which version is to be used.
- 4.03 Furnish only new, first-class quality materials and equipment.
- 4.04 System shall be comprised of interoperable components including, but not limited to, controller, credential sensors and management software integrated into a common working system.
- 4.05 System administrator shall be capable of complete system back-up and full system restoration from a previously saved configuration.
- 4.06 System shall be of a distributed processing design with a fully distributed database including, but not limited to time, date, valid codes, access levels and related data so that each Controller makes access control decisions for that location. If communications with central station equipment is lost, all transactions shall be buffered until the restoration of a connection to the central station.
- 4.07 In the event of a power failure, complete system shall automatically re-initialize and “become active” to the last configuration in use with no human intervention.
- 4.08 Contractor shall be responsible for final and working system. Use of existing components and materials provided by others during new construction shall be integral to system configuration and cost-effective installation. Bidders are encouraged to use all compatible and working components in system solution. See schedule(s) and reference files for additional detail.
- 4.09 CENTRAL MANAGEMENT SOFTWARE
- A. Central management software shall meet or exceed the following:
1. Accessed natively from a standard Apple Macintosh Personal Computer provided by Owner. Addition of other OS based access to platform will not be favorably considered. Owner preference will be to provide a virtual server on existing Hyper Converged based system.
 2. Capable of being fully administered from any web browser attached to the network to view alarm notifications.
 3. Administration access shall be protected by unique and secure log on (User ID and Password).
 4. Update industry standard controller(s) in real-time for changes including, but not limited to adding and deleting access levels, adding, and deleting card holders and deactivating card holders.

5. Provide badge creation enabling Owner to create customized photo identification credentials. System shall be compatible with both real-time video camera to capture images, or with images taken with a standard digital camera and saved in a standard picture format.
6. Provide communication to credential readers, each with individual associated door interface hardware. See associated schedules herein.
7. System reporting shall include, but not be limited to:
 - a. Access through entrance doors.
 - b. Attempted access per entrance.
 - c. Propped and unsecured door alerting.
8. Systems providing Microsoft Active Directory integration will be favorably considered.
9. System shall provide for Owner definition of access groups, schedules and door groups that can be combined by Owner's system administrator into combinations of access policies for users.
10. All licensing shall be provided for in base bids for complete and functional system as specified herein.
11. Systems providing integration with Video Monitoring System and/or Intrusion Detection System as specified herein shall be favorably considered.
 - a. Owner's existing VMS is Exacqvision
 - b. The Owner does not currently deploy a standard Intrusion Detection System across all facilities.

4.10 CONTROLLERS

- A. In general, Contractor shall provide and install the appropriate number of controllers and I/O monitoring/control expansion interfaces as needed to handle the number of card readers, locking devices, door status devices, and alarm inputs provided for herein and in the included appendices or a fully integrated, functional, and operational system.
 1. Mercury based hardware to support multiple software vendor's systems. Proprietary hardware will not be favorably considered.
 2. Mercury based hardware flashed with manufacturer's supported firmware may be considered.

- B. Where new doors are added to the system, Contractor shall provide PoE+ based IP Door Controller(s) as needed (Additional Doors) which shall provide, but not be limited to:
1. Support a wide range of reader technologies, including OSDP, Wiegand, NFC, Bluetooth, and biometric.
 2. 802.3at compliant 10/100/1000 PoE+ Ethernet port.
 3. Two (2) inputs for credential readers.
 4. Two (2) outputs for door interface hardware.
 5. Door controllers shall be installed above/behind the finished surfaces on the secure side of the opening and be enclosed in an appropriate tamper proof enclosure.
 6. Product shall be Mercury LP series

1.01 CREDENTIAL READERS

- A. New Credential Readers (For Additional Doors) shall be provided that meet or exceed the following requirements:
1. Compatible with industry standard 125 kHz proximity and 13.56 MHz contactless technologies.
 2. Read Schlage (Allegion Brand) Part #7410 Proximity HID Credentials.
 3. DC powered from associated Controller.
 4. Response time for passage requests of 800ms.
 5. Sealed weatherproof shell enclosure rated for outdoor operation.
 6. Surface mounted on exterior or interior surface of structure as indicated herein.
 7. LED or other type of visual indicator indicating request status.
 8. Audible status indicator upon user prompt.
 9. Range of four inches (4”).
 10. Native OSDP secure channel compatibility.
 11. IP65 Rating
- B. Product shall be HID Signo Reader Model 20, or equal.

C. See associated schedule(s) herein for location and quantity.

3.02 DOOR INTERFACE HARDWARE (ELECTRIC STRIKE)

A. Door Interface Hardware shall meet or exceed the following:

1. End-of-line resistors terminated at the controller to protect against surges generated by activation of electric door strikes.
2. Preference will be given to configurations that integrate Door interface hardware Devices (electric strike) with PoE+ based door controllers and eliminate the necessity for additional power sources.
3. Door Interface Hardware shall be Low Current Draw devices from Trine 4000 Series, Trine EN Series, or Equal.
4. Appropriate Door Interface Hardware model and type shall match and be compatible with existing door hardware types and conditions.

B. In locations where Door Interface Hardware is to be installed on a removable mullion, contractor shall provide adequate slack cable and a secure and durable, “quick disconnect point” on power cable for easy and damage free removal and replacement of mullion.

C. Contractor shall provide and install an armored door cord for each door with a continuous hinge that requires power transfer from frame to door.

1. Armored door cord shall be Alarm Controls DL series, or equal.

D. See associated schedule(s) herein for location and quantity.

3.03 REQUEST TO EXIT (REX) DEVICES

A. Each door controlled by the system shall be equipped with PIR REX device.

B. Devices not included integral to door hardware shall be mounted on the overhead door casing.

C. Devices shall provide three (3) beam configurations and include appropriate contact closure for system signaling.

D. Devices shall operate on low DC power (PoE+ friendly). Preference will be given to configurations that integrate REX Devices with PoE+ based door controllers and eliminate the necessity for additional power sources.

3.04 DOOR POSITION SWITCH (DPS)

- A. Where new door controllers are to be provided, each door shall be equipped with magnetic DPS and shall be integrated into the door controller installation by Contractor.
- B. DPS devices shall be mounted internally to the frame and door wherever possible and shall not be surface mounted except for in rare cases without alternative “hidden” mounting options being available and must be approved by the Designer and Owner on a case by case basis.

3.05 COMPONENT INTERCONNECTION

- A. All wiring not installed in conduit shall be plenum type cable and shall be so identified with continuous marking.
- B. Wiring color shall remain the same throughout the system. Colors used for coding shall be as directed by the system manufacturer, Owner, and Designer.
- C. Wire shall be copper.

3.06 ALLOWANCES

- A. Contractor shall include allowances for equipment and/or other contract service reimbursements as required below in base bid lump sum amount(s). Equipment and/or contract services shall be provided and sourced at Owner’s discretion and convenience with full cooperation by Contractor and paid for from successful bidder’s contract in the amount(s) provided for herein. Any allowance amount proving to be excessive for the intended equipment and/or contract services shall be credited to the Owner against contract payment requests.
 - 1. Allowance shall be made in the amount of \$10,000.00 for contract services related to supply, installation and connection of related Owner provided hardware.

PART 4 - EXECUTION

4.01 PREPARATION

- A. Contractor shall conduct detailed walk-through examination with Designer and Owner verifying equipment and material locations as well as mounting and placement requirements prior to commencement of other installation activities.
- B. Contractor shall insure all submittals and shop drawings have been provided to, and approval has been obtained from Designer prior to commencement of any final installation activities.

4.02 INSTALLATION

- A. Contractor shall be familiar with the environment where work will be done as specified herein and make every reasonable effort to minimize interference with Owner's or other contractor's activities.
- B. Work Areas shall be cleaned at the end of each day. All debris shall be cleared, removed, and disposed of in an approved container for the site. All equipment and tools shall be removed from common areas and stored in approved, secure storage locations. Any work that may impede the general use of the space and/or other contractor's work and cannot be removed shall be flagged and cordoned off by the Contractor prior to their departure.
- C. All equipment and materials shall be installed in a neat and workmanlike manner. Best practices installation principles shall be used throughout the project.
- D. The Contractor shall furnish, set in place, and install all equipment necessary for a fully compliant and operational system as specified herein. The installation process includes, but is not limited to the following:
 - 1. Inventory receipt of all components and equipment.
 - 2. Storage of all equipment and components until such time those items are installed according to the specifications.
 - 3. Transport equipment to the Owner's installation location(s).
 - 4. Assemble, install, configure, and test all equipment and components, maintaining accurate inventory records and status documents and discarding packaging.
 - 5. Collect all information necessary to accurately program all system devices to the Owner's intended use and need.
 - 6. Label all system devices as may be appropriate and required by Owner and Designer.
 - 7. Complete end user and system administrator training programs as specified herein.
 - 8. Work shall be performed to meet local codes and industry standards including proper grounding and bonding of installed equipment.
 - 9. Additional Door Upgrade Locations:
 - a. New door panel shall be mounted in accessible ceiling above the secure side of the door location.

- b. Connect door controller to Owner's PoE+ data network using Contractor supplied patch cords at both ends of tested and certified cable drop supplied by others, and verify connection to Central Management Software.
- c. Test to ensure that all components are functioning and configured properly.
 - 1. Doors shall be configured to remain locked until a valid credential is presented.
 - 2. Electric strikes shall be unlocked when energized.
 - 3. Door position switches shall report door status to central management software.
 - 4. REX shall be installed to provide optimal coverage for capturing valid exits and reduce or eliminate false readings.
- d. Where possible, all cabling shall be installed inside walls, doors, door frames, and mullions. Provide appropriate metallic channels for cables in locations where it is not possible to install otherwise. There shall be no exposed cabling.
- e. All devices shall be securely attached to building structure using manufacturer's installation recommendations and industry best practices.

10. New Construction Locations:

- a. Coordinate with Owner's Construction Manager, construction trades and hardware suppliers to ensure functionality of doors provided for herein and as described in respective construction specification documents.
- b. Provide licensing and central management system configuration(s) for all devices provided for herein and as described in respective construction specification documents.

E. Worksites include the following:

- 1. Bauer Elementary
8136 48th Avenue
Hudsonville, Michigan 49426
- 2. Park Elementary
5525 Park Avenue
Hudsonville, Michigan 49426

- F. It shall be the responsibility of the Contractor to repair or replace any damage done to the structure of finishes in the building by the Contractor. If in the course of work, Contractor damages, marks, or misplaces any surfaces or access plates/panels the Contractor shall repair and/or replace the surface, plate, or panel to the original condition.
 - 1. Final determination as to the damage condition and/or repair/replacement fitness of any surface, plate or panel shall be the sole responsibility of the Designer.
 - 2. The building and work area shall be returned to its original condition prior to final sign off of the project.
- G. Following installation and system “turn-up”, but prior to final acceptance of the system, Contractor shall conduct follow-up interviews with Owner identified administrators and staff to review system functionality, suitability and confirm feature and program fitness for Owner applications.
 - 1. Follow-up interviews shall be fully documented by Contractor and submitted to Owner for approval.

4.03 TESTING

- A. In an effort to ensure a smooth “turn-up” of the new system Contractor shall submit to a thorough testing process as defined herein prior to cut-over.
- B. Prior to requesting testing by Designer, the Contractor shall use adequate means to assure the Work is completed in accordance with the specified requirements, meets the owner’s specific application requirements and is ready for functionality and integrity testing.
- C. Testing Procedures
 - 1. Prior to system “turn-up”, Contractor shall submit a written request to Designer indicating they have completed full and final configuration of the system and are ready to have system integrity and functionality tested.
 - 2. Within reasonable time after receipt of request, Designer will provide a test schedule and coordinate testing date(s) with Owner and Contractor.
 - 3. Should Designer determine the Work is not acceptably configured or not of adequate integrity:
 - a. Designer promptly will so notify Contractor, giving reasons therefore and providing sufficient details to allow Contractor to make corrective actions.

- b. Contractor shall then expeditiously remedy the deficiencies and notify Designer in writing when ready for re-testing.
 - c. Designer will schedule re-test of the Work.
 - d. Excessive re-testing of Work may result in fees being assessed Contractor.
4. Should Designer and Owner concur the Work is configured properly and system integrity is as required:
- a. Designer will review Contractors detailed “turn-up” plan, and upon finding it acceptable issue a memorandum of Testing Completion to Owner and Contractor after which system “turn-up” can proceed.

4.04 DOCUMENTATION

- A. Contractor shall, throughout the completion of the project, provide Owner a file storage system that shall include all necessary equipment, including if reasonably required, file drawers, folders, dividers, etcetera, to contain all as-built drawings, owner’s manuals of all equipment installed, warranty and maintenance information and other information the Contractor, Designer and/or Owner deem necessary. Documentation shall also be provided in a digital format in file formats and on media as specified by Owner and/or Designer.
- B. Contractor shall be responsible for providing thorough, timely documentation on all hardware, software. Documentation shall include, but not be limited to:
 - 1. Equipment description.
 - 2. Equipment make.
 - 3. Model number.
 - 4. Software release.
 - 5. Date installed.
 - 6. Manufacturer's warranty.
 - 7. Maintenance contract terms.
 - 8. Verification of maintenance contract engagement.
 - 9. Telephone numbers for service and support.
 - 10. Detailed technical support and service procedure instructions.

11. All product (hardware and software) manuals and manufacturer supplied documentation, including, but not limited to owner manuals, system administrator manuals and configuration guides. Where number of duplicate copies for particular manual or documentation item could be reasonably considered excessive, Contractor shall request direction from Owner and Designer.
12. Photocopy of original invoice listing make and model for all components and equipment from individual manufacturer(s), distribution source(s), or authorized agent(s) to establish manufacturer warranty start date for potential use after end of contract warranty provisions.
13. CAD as built drawings for each building.
14. System Configuration Report.
15. Complete inventory of installed hardware and system software. Hardware inventory shall include, but not be limited to, model numbers, serial number, physical installation location and software/firmware options.

4.05 TRAINING

- A. Training shall be conducted at the Owner's discretion and at times and places convenient to Owner personnel. Prior to any training being conducted, Contractor shall provide Owner and Designer with detailed training syllabus and schedule for proposed training event. Compliant syllabus and schedule shall be provided at least ninety-six 96 hours in advance. Owner reserves the right to postpone training if syllabus and/or schedule submitted are deemed inadequate. Training shall not be conducted until such time a syllabus and schedule submitted by Contractor are found to be acceptable to Owner.
- B. Contractor shall provide training for the Owner designated system operators(s). Owner shall designate up to six (6) system operators to be trained. Training shall be a minimum of one (1), four (4) hour session(s) in length, at the convenience of the Owner personnel, and of sufficient duration to satisfactorily complete training on all system administration functions including, but not limited to:
 1. Basic credential and user adds, changes, and management.
 2. Creation of, review of, communication of and response to system alerts.
 3. Review of system alerts, logs and monitoring of configuration parameters including, but not limited to, configuration changes and device status.
- C. Contractor shall provide training for the Owner designated system administrator(s). Owner shall designate up to four (4) administrators to be trained. Training shall be a minimum of one (1), four (4) hour session(s) in

length, at the convenience of the Owner personnel, and of sufficient duration to satisfactorily complete training on all system administration functions including, but not limited to:

1. Basic trouble shooting of the installed system and components including diagnostic and problem resolution actions.
2. System back-up and restore functions and procedures for all system parameters and configurations.
3. Review of system alerts, logs and monitoring of configuration parameters including, but not limited to, configuration changes and device status.

4.06 SCHEDULE, MEETINGS AND PLANS

A. Schedule

1. Post bid Interviews: September 11 & 12, 2023
2. Contractor Chosen: October 12, 2023
3. Work Commences: October 2023
4. Substantial Completion of Project: March 29, 2024
5. Project Close-out: April 19, 2024

B. Planned sequence of operations shall be established by the Contractor within the guidelines established by the Owner, as required herein and as required to meet schedules.

C. All work shall be coordinated with Owner's construction manager on site.

D. Project progress meetings shall be held, but not limited to, weekly at a site and time identified as convenient for Owner and as required herein. Meetings will be attended as required herein.

END OF SECTION

SECTION 28 20 00
VIDEO MONITORING SYSTEM

PART 1 - GENERAL

1.01 DESCRIPTION OF PROJECT

- A. Work described in this specification section pertains to a Video Monitoring System addition for Hudsonville Public Schools. This included new video monitoring cameras and equipment for approximately half of its bus fleet
- B. Contractor shall propose a System to be deployed using IEEE Ethernet technology. The system components shall be installed and connected to the owner's Ethernet infrastructure and as specified herein. System shall be of a "network" architecture using Ethernet cameras and centrally located Ethernet server(s).
 - 1. Owner will provide adequate IEEE 802.3at 10/100/1000 Ethernet switch ports for the number of devices specified herein on existing Cisco switch infrastructure at building locations.
- C. The system components shall be installed in vehicles such that they connect to the owner's Ethernet WiFi infrastructure upon return to the transportation center and as specified herein. System shall be of a "network" architecture using standard cameras and centrally located onboard storage server(s) that communicate with, and transmit stored content to, Owner's existing central server and storage farm across the Owner's network.
- D. The centralized server recording equipment shall be installed in the Owner's existing district data center and as required.
- E. Contractor shall advise, coordinate and work cooperatively with Owner representatives or owner's designee related to any configuration changes required and/or proposed for Owner's existing Ethernet infrastructure (VLAN configuration, QoS mapping, routing, Firewall security provisions etc.).
- F. The Contractor shall design, engineer, configure, supply, connect, test, document, train Owner representatives and warrant a fully operational and compliant network video monitoring system, complete and with full functionality as specified herein.
- G. Contractor shall coordinate their installation with other contractors, Designer and the Owner as is appropriate.

1.02 WARRANTY

- A. Complete installation shall be free from defect and/or failure for a period of Three (3) years. Any replacement, upgrade or fix, including labor for any non-conforming or non-operational part of the system shall be fixed and/or replaced at no cost to the Owner.
- B. Manufacturer's warranty shall be provided for all components of the system.
 - 1. System integrator or local vendor warranty, without underlying manufacturer's warranty/extended warranty will not be considered an acceptable base bid.
 - 2. Any documents and/or submittals required by individual manufacturers for compliance with the standard and/or applicable extended warranty programs shall be provided and submitted for approval by the Contractor.
 - 3. Contractor shall submit all documents, apply for warranty or extended warranty certification, and provide a Certificate of Warranty or Extended Warranty as may be applicable from the manufacturer prior to project closeout.
- C. On site services provided under the warranty shall be performed by personnel or representatives of Contractor as herein defined and located within physical proximity to provide response levels deemed acceptable to Owner and without additional charge for any offending components.
- D. Contractor shall provide the following response times for all malfunctioning equipment:
 - 1. Twenty-four (24) hours or less for matters that render twenty percent (20%) or more of the system unable to maintain normal functionality.
 - 2. Two (2) business days for matters not meeting the above criteria.
 - 3. Response time shall be measured from the time Contractor is notified by Owner to the time work is begun to resolve the matter.
- E. System Warranty shall commence on date of acceptance by Owner. Delivery to work site of materials, physical removal from packaging, issuance of Contractor documents including, but not limited to invoices and/or packing slips, or any event or documentation, not specifically provided for herein, shall have no effect on Warranty or System Acceptance by Owner and/or Designer.
- F. Bidder shall provide current annual maintenance contract pricing for recommended maintenance programs for all equipment following the specified and included period as an alternate. This information will be considered by Owner and Designer as part of the bid evaluation process.

1.03 STORAGE OF MATERIALS

- A. All materials shall be secured when not in use by the Contractor.
- B. It shall be the Contractor's responsibility to secure all equipment including material to be installed as part of the contract. No changes shall be made to the contract due to loss or theft of equipment and/or materials not officially accepted by the Owner.
- C. Formal receipt of the materials shall not be completed by the Owner until completion of project closeout. The Contractor shall be responsible for all equipment until time of closeout as provided for herein.

1.04 SUBMITTALS

- A. Submittals shall consist of, but not be limited to, technical cut sheets and detailed information pamphlets on all components of the system to be installed. All cut sheets and submittals shall be distinctly marked to highlight the actual part number of the item being submitted for approval with Bid.
- B. Shop drawings and diagrams shall be submitted by Bidder for approval by Designer with Bid.
 - 1. Shop drawings and diagrams shall show all data relating to structural, electrical, wiring, cross connect, interconnect, equipment arrangement/layout, and any other information deemed significant by the Designer.
 - 2. No work constituting final installation shall be commenced until after approval of shop drawings by Designer.
- C. Contractor shall provide proof of manufacturer support by photocopy of certification and letter of support from major component manufacturers for this specific project with Bid.
- D. Equipment or material installed for this project that does not have an approved submittal associated with it, will be removed and replaced with acceptable equipment or material as defined by the Designer. All replacement costs including, but not limited to material and labor, shall be the sole responsibility of the Contractor.
 - 1. The Owner and/or Designer may notify Contractor of any offending situations under this provision allowing Contractor up to forty-eight (48) hours to correct the situation prior to taking other corrective action.
 - 2. The Owner reserves the right to replace unapproved materials and deduct the costs of doing so as defined herein from any amounts that may be due, or become due Contractor.

- E. The Contractor shall submit within ten (10) calendar days after the Notice to Proceed, a schedule that reflects the sequence of activities of the contractor's approach to the execution of and completion of the work. The schedule shall be broken into work areas to provide for a clear identification of the planned progress of the work. Included in the schedule will be a list of tasks with list of deliverables and the percentage of work completed. This schedule shall coincide with progress payments applications dates and projected amounts. All durations shown will be in working days. Microsoft Project is the software of choice for this schedule. The timeframe described in the Contractor's Schedule shall represent the Contractor's plan for organizing, directing, managing, controlling, staffing and executing the work required by the Contract Documents. Owner will rely on such schedules to coordinate and otherwise plan related work of Owner personnel, other separate contractors, or the Owner's routine daily work.

1.05 REFERENCE SPECIFICATIONS

- A. All work, products, and materials shall conform with the following standards as applicable for the intended use:
1. EIA/TIA Commercial and Administration Standards
 2. NEC
 3. IEEE 802
 4. IETF RFCs
 5. FCC – All Applicable Rules and Regulations
 6. UL
 7. MOSHA Safety Standards

1.06 CONTRACTOR

- A. The Contractor shall accept complete responsibility for the installation, certification and support of the system. Contractor shall be an authorized vendor of all major components.
- B. All work shall be performed and supervised by Project Managers, Engineers and/or Technicians who are qualified to install system and perform related tests as recommended by the manufacturer and in accordance with the manufacturer's best practices and methods.
- C. Project Managers, Engineers and Technicians employed on this project shall be properly and fully trained and qualified by the manufacturer on the installation and testing of the equipment and systems to be installed.

- D. The Contractor shall have a proven track record in video monitoring system configuration and installation. This must be shown by the inclusion of references of at least three (3) projects involving the installation of similar systems completed by the Contractor in the prior two (2) years on unaltered forms with the sealed Bid as provided herein. Bid Form(s) may be duplicated as required in order to provide adequate space to list required number of reference installations for each division Bidder is responding to.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturers (In alphabetical order):

- 1. Exacqvision
- 2. Or Equivalent

2.02 Supply most current version of all products provided.

- A. Manufacturer shall have five (5) years of experience and history manufacturing similar products to those specified.
- B. Proposed components shall have been field tested and proven in actual use.
- C. Prior and/or old versions of products, unless specifically approved and documented by Designer and/or Owner shall not be acceptable.
- D. In cases where a newer version of hardware or software is available at the time of installation, Contractor shall request clarification from Designer on which version is to be used.

2.03 Furnish only new, first-class quality materials and equipment.

2.04 System shall be comprised of fully interoperable components including, but not limited to, camera licenses (which shall be installed on Owner's existing centrally located servers), Ethernet attached cameras, camera mounting brackets and housings, patch cords and all other necessary components integrated into a common working system.

2.05 CENTRAL VIDEO MONITORING CONTROL SOFTWARE

- A. Central control software has been provided by others and is installed on standard servers provided by Owner. Servers are, and expected to remain located in the district head end. Contractor shall ensure that cameras and supporting units provided integrate into a common system using the existing Owner provided control software as indicated herein, and that Owner

objectives for focal points and video motion are recorded as required by Owner.

2.06 CAMERAS

A. Ethernet cameras shall be provided as indicated herein. Cameras shall meet or exceed the following specified capabilities:

a. Mounting conditions are indicated on the drawings.

2. Interior Single Lens 2MP Network Camera (SC1)

a. Axis P3265-LV

b. Or Equivalent

3. Interior single lens 5MP Network Camera (SC2)

a. Axis P3267-LV

b. Or Equivalent

4. Interior dual lens (2) 2MP Network Camera (SC3)

a. Axis P4705-PLVE

b. Or Equivalent

5. Interior/Exterior Mutli-Lens 8MP Network Camera (SC4)

a. Axis P3807-PVE

b. Or Equivalent

6. Interior/Exterior multi-lens 12MP Network Camera (SC5)

a. AXIS M3058-PLVE Network Camera

b. Or Equivalent

7. Exterior multi-lens 15MP Network Camera (SC6)

a. Axis P3719-PLE

b. Or Equivalent

B. Five cameras shall be provided for each bus indicated. Camera System Inventory. See Schedule(s) provided herein for information on quantity and locations. All power, cable, lenses, mounting hardware, storage and

configuration shall be included. Cameras shall meet or exceed the following specified capabilities: 28

1. Two (2) Passenger Interior Cameras shall be provided on each bus
 - a. Axis M4308-PLE Panoramic Camera
 2. One (1) Doghouse view Interior Camera shall be provided on each bus
 - a. Axis P3935-LR Network Camera or equal
 3. Two (2) Exterior Swing Arm Cameras shall be provided on each bus. One camera looking forward, and one looking rearward.
 - a. Axis P3925-LRE Network Camera or equal
 - b. Cameras shall be installed in mechanical flush mounted, integrated, tamper and impact resistant dome enclosure mount adapter to facilitate installation directly on bus exterior at, or near the stop swing arm location. Enclosures shall also meet or exceeding the following requirements:
 1. Optically correct polycarbonate or acrylic dome with integral UV protection and light loss not greater than 11.5 f-stops.
 2. Puncture resistant with capability to withstand a pointed impact force of 35 foot-pounds without creating an internal depression greater than .2 inches.
 3. Impact resistant with capability to withstand repeated multiple blunt impact forces up to 100 foot-pounds.
 4. Dust and water protection based on IEC/EN60529 standard of IP66/67.
 5. All non-translucent components shall be of a color matching the exterior surface of the bus and as acceptable to Owner.
- C. Cameras shall properly and acceptably be powered by, communicate over and attach to, standard communications cables provided and installed by Contractor.
- D. Ethernet cameras shall properly and acceptably communicate over, and attach to, Owner's standard Ethernet communications network provided by others and be powered by use of IEEE 802.3at compliance.

- E. Cameras shall conform to and/or support the following certifications, features, standards and/or protocols:
 - 1. Secure network access incorporating user ID and password protection
 - 2. NTP
 - 3. SNMP
 - 4. FCC Part 15 Subpart B Class B
 - 5. Underwriters Laboratories Listed
- F. IEEE 802.3 (Ethernet) UTP eight (8) pin modular connector.
- G. Each camera shall be provided with an appropriate license for operation with the Central Video Monitoring and Control Software system and include the warranty provisions for continual operation and support for the period described herein.
- H. All cameras and/or camera enclosures shall be firmly and securely mounted to finished ceiling, wall, or other surfaces as required and/or specified herein to maximize coverage and minimize tampering potential. Bidder shall provide, in base bid, all mounting materials and labor to comply with mounting conditions documented herein.
- I. Include SD Card for all cameras.

2.07 BUS UPLOAD

- A. Each bus must maintain a minimum of twelve (12) hours of stored video and audio information compiled during bus operation. Bus cameras may overwrite oldest video and audio information provided it is at least twelve (12) hours old (based on bus operating hours – not lapse time).
- B. All new information stored on buses shall be uploaded to central system each time bus returns to the HPS Transportation Center. System shall only upload video and audio information not previously confirmed as uploaded successfully.
- C. Upload function shall not require the bus engine to remain running, and shall self-initiate upon bus being within range of Owner provided 5Ghz WiFi signal emanating from bus canopy at the Transportation Center. Such upload shall commence within five (5) minutes of bus arriving at a canopy parking location and shall not take longer than 90 minutes to complete.
- D. System must provide for notification/alert for bus equipment uploads being completed successfully, or exception notification/alert for unsuccessful

video/audio uploads. Such alerts may be provided by any one, or combination of the following methods:

1. System logs
2. Email transmission
3. SMS transmission
4. Visual indicators inside buses.

2.08 VOLUNTARY ALTERNATE – HANWA OR AVIGILON CAMERAS

- A. Bidders are encouraged to provide voluntary alternate pricing for Hanwa Techwin and/or Avigilon cameras as alternates to Axis for building cameras only. Alternate cameras shall meet or exceed all camera requirement as specified herein and meet or exceed all features of the specified Axis model for each configuration.

2.09 ALLOWANCES

- A. Contractor shall include allowances for equipment and/or other contract service reimbursements as required below in base bid lump sum amount(s). Equipment and/or contract services shall be provided and sourced at Owner's discretion and convenience with full cooperation by Contractor, and paid for from successful bidder's contract in the amount(s) provided for herein. Any allowance amount proving to be excessive for the intended equipment and/or contract services shall be credited to the Owner against contract payment requests.
 1. Allowance shall be made in the amount of \$15,000 for contract services related to renovation and configuration of necessary infrastructure upgrades at the Owner's sole discretion.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Contractor shall conduct detailed walk-through examination with Designer, Construction Manager and Owner verifying equipment and material locations as well as mounting, view and placement requirements prior to commencement of other installation activities.
- B. Owner and Designer shall approve a written final installation plan provided by Contractor prior to commencement of installation activity.

- C. Contractor shall ensure all submittals and shop drawings have been provided to, and approval has been obtained from Designer prior to commencement of any final installation activities.

3.02 INSTALLATION

- A. Contractor shall be familiar with the environment where work will be done as specified herein and make every reasonable effort to minimize interference with Owner's or other contractor's activities.
- B. Work Areas shall be cleaned at the end of each day. All debris shall be cleared, removed and disposed of in an approved container for the site. All equipment and tools shall be removed from common areas and stored in approved, secure storage locations. Any work that may impede the general use of the space and/or other contractor's work and cannot be removed shall be flagged and cordoned off by the Contractor prior to their departure.
- C. All equipment and materials shall be installed in a neat and workmanlike manner. Best practices installation principles shall be used throughout the project.
- D. The Contractor shall furnish, set in place, and install all equipment necessary for a fully compliant and operational system as specified herein. The installation process includes, but is not limited to the following:
 - 1. Inventory receipt of all components and equipment.
 - 2. Storage of all equipment and components until such time those items are installed according to the specifications.
 - 3. Transport equipment to the Owner's installation location(s).
 - 4. Assemble, install, configure and test all equipment and components, maintaining accurate inventory records and status documents and discarding packaging.
 - 5. Carefully aim and focus each system camera to meet Owner's required views and focal points.
 - 6. Collect all information necessary to accurately program all system devices to the Owner's intended use and need.
 - 7. Label all system devices as may be appropriate and required by Owner and Designer.
 - a. Owner will provide appropriate asset tags for all cameras in the project. Contractor shall ensure the tags are permanently affixed to the cameras in/on locations coordinated with the

Owner. Tag numbers along with other inventory records for the installation shall be documented as specified herein.

8. Complete end user and system administrator training programs as specified herein.
9. Work shall be performed to meet local codes and industry standards including proper grounding and bonding of installed equipment.
10. Work includes extending Ethernet from installed equipment, as required, to Owner identified connection outlets at all locations.
 - a. Work includes supply and connection of Category 6 Ethernet patch cables. Cables for some cameras may be in air plenum spaces, above finished ceilings, or in other ways require special care and suitable tools to complete.
 - b. Patch cables at camera location shall not exceed twenty-five (25) feet in length.
 - c. Patch cables at wire closets for cross connection to Owner's existing Ethernet switching infrastructure shall not be excessive in length, but be installed and routed to efficiently reach each connection point with reasonable and adequate slack for efficient "clean" access and ongoing maintenance.
 - d. Contractor shall cross connect and report back switch port locations back to Owner for programming as necessary.
 - e. Patch cables color shall be green in color.
11. Camera mounting and penetrations:
 - a. Where cameras will be mounted on interior or exterior walls, Video Monitoring Contractor shall be responsible for making final penetration to extend existing data cabling or data cabling provided by Others.
 - b. In locations where new data cabling will be provided, low voltage cabling contractor shall be responsible for installing cabling to adjacent area for connection to camera device.
 - c. Where penetrations are made through fire rated walls, Contractor shall be responsible for supplying appropriate fire stop material.

E. Additional and Specific Requirements:

1. Contractor shall install all new cameras in locations indicated on appendices and detailed in related installation sections herein, and/or as directed by Owner and Designer. New equipment shall be installed and mounted to facilitate desired views and focal points.
 2. Contractor shall use care and employ best industry practices to ensure mounting of new equipment is professional and appropriate.
 3. Contractor shall use care and employ best industry practices to ensure installation of Owner provided repair materials, which may include, but not be limited to, ceiling tiles/pads, block/brick filler, and paint professionally and appropriately restores the surface and location vacated by prior equipment to the best possible condition.
 4. Contractor shall supply and install stainless steel faceplates in all abandoned wall locations.
 5. All cabling shall be removed to source including all accessories, housings, brackets and connectors.
- F. It shall be the responsibility of the Contractor to repair or replace any damage done to the structure of finishes in the building by the Contractor. If in the course of work, Contractor damages, marks or misplaces any surfaces or access plates/panels the Contractor shall repair and/or replace the surface, plate or panel to the original condition.
1. Final determination as to the damage condition and/or repair/replacement fitness of any surface, plate or panel shall be the sole responsibility of the Designer.
 2. The building and work area shall be returned to its original condition prior to final sign off of the project.
- G. Following installation and system “turn-up”, but prior to final acceptance of the system, Contractor shall conduct follow-up interviews with Owner identified administrators and staff to review system functionality, suitability and confirm feature and program fitness for Owner applications.
1. Follow-up interviews shall be fully documented by Contractor and submitted to Owner for approval.

3.03 TESTING

- A. In an effort to ensure a smooth “turn-up” of the new system Contractor shall submit to a thorough testing process as defined herein prior to cut-over.
- B. Prior to requesting testing by Designer, the Contractor shall use adequate means to assure the Work is completed in accordance with the specified

requirements, meets the owner's specific application requirements and is ready for functionality and integrity testing.

C. Testing Procedures

1. Prior to system "turn-up", Contractor shall submit a written request to Designer indicating they have completed full and final configuration of the system, and are ready to have system integrity and functionality tested.
2. Within reasonable time after receipt of request, Designer will provide a test schedule and coordinate testing date(s) with Owner and Contractor.
3. Should Designer determine the Work is not acceptably configured or not of adequate integrity:
 - a. Designer promptly will so notify Contractor, giving reasons therefore and providing sufficient details to allow Contractor to make corrective actions.
 - b. Contractor shall then expeditiously remedy the deficiencies and notify Designer in writing when ready for re-testing.
 - c. Designer will schedule re-test of the Work.
 - d. Excessive re-testing of Work may result in fees being assessed Contractor.
4. Should Designer and Owner concur the Work is configured properly and system integrity is as required:
 - a. Designer will review Contractors detailed "turn-up" plan, and upon finding it acceptable issue a memorandum of Testing Completion to Owner and Contractor after which system "turn-up" can proceed.

3.04 DOCUMENTATION

- A. Contractor shall, throughout the completion of the project, provide Owner a file storage system that shall include all necessary equipment, including if reasonably required, file drawers, folders, dividers, etcetera, to contain all as-built drawings, Owner manuals of all equipment installed, warranty and maintenance information and other information the Contractor, Designer and/or Owner deem necessary. Documentation shall also be provided in a digital format in file formats and on media as specified by Owner and/or Designer.

B. Contractor shall be responsible for providing thorough, timely documentation on all hardware, software. Documentation shall include, but not be limited to:

1. Equipment description.
2. Equipment make.
3. Model number.
4. Serial Number
5. MAC Address
6. Asset Tag Number
7. Software release.
8. Date installed.
9. Manufacturer's warranty.
10. Maintenance contract terms.
11. Verification of maintenance contract engagement.
12. Telephone numbers for service and support.
13. Detailed technical support and service procedure instructions.
14. All product (hardware and software) manuals and manufacturer supplied documentation, including, but not limited to owner manuals, system administrator manuals and configuration guides. Where number of duplicate copies for particular manual or documentation item could be reasonably considered excessive, Contractor shall request direction from Owner and Designer.
15. Photocopy of original invoice listing make and model for all components and equipment from individual manufacturer(s), distribution source(s), or authorized agent(s) to establish manufacturer warranty start date for potential use after end of contract warranty provisions.
16. CAD as built drawings for each building.
17. System Configuration Report.
18. Complete inventory of installed hardware and system software.

3.05 TRAINING

- A. Training shall be conducted at the Owner's discretion and at times and places convenient to Owner personnel. Prior to any training being conducted, Contractor shall provide Owner and Designer with detailed training syllabus and schedule for proposed training event. Compliant syllabus and schedule shall be provided at least ninety-six 96 hours in advance. Owner reserves the right to postpone training if syllabus and/or schedule submitted are deemed inadequate. Training shall not be conducted until such time a syllabus and schedule submitted by Contractor are found to be acceptable to Owner.
- B. Contractor shall provide User/Operator Level Training for the Owner designated system operator(s). Owner shall designate up to four (4) operators to be trained. Training shall be a minimum of one (1), two (2) hour sessions in length, at the convenience of the Owner personnel, and of sufficient duration to satisfactorily complete training on all system administration functions including, but not limited to:
1. View live video from camera(s) identified to be of interest.
 2. View stored video from camera(s) identified to be of interest, from a range of time in history.
 3. Zoom stored video to better identify or better review visual details of portions of video of interest.
 4. Review historical video to watch a historical event such as damage to property after normal hours of operation.
- C. Contractor shall provide physical on-site training for the Owner designated system administrator(s). Owner shall designate up to Four (4) system administrators to be trained. Training shall be a minimum of one (1), four (4) hour session(s) in length, at the convenience of the Owner personnel, and of sufficient duration to satisfactorily complete training on all system administration functions including, but not limited to:
1. Add, remove and reconfigure cameras on system.
 2. Basic configuration and system administration of the installed system
 3. Basic trouble shooting of the installed system and components including diagnostic and problem resolution actions.
 4. System back-up and restore functions and procedures for all system parameters and configurations.
 5. Review of system alerts, logs and monitoring of configuration parameters including, but not limited to, configuration changes and device status.

6. System database updates and maintenance.
7. Review standard system reports

3.06 SCHEDULE, MEETINGS AND PLANS

A. Schedule

1. Post bid Interviews: September 11 & 12, 2023
2. Contractor Chosen: October 12, 2023
3. Work Commences: October 2023
4. Substantial Completion of Project: March 29, 2024
5. Project Close-out: April 19, 2024





- B. Planned sequence of operations shall be established by the Contractor within the guidelines established by the Owner, as required herein and as required to meet schedules.
- C. All work shall be coordinated with Owner's construction manager on site.
- D. Project progress meetings shall be held, but not limited to, weekly at a site and time identified as convenient for Owner and as required herein. Meetings will be attended as required herein.

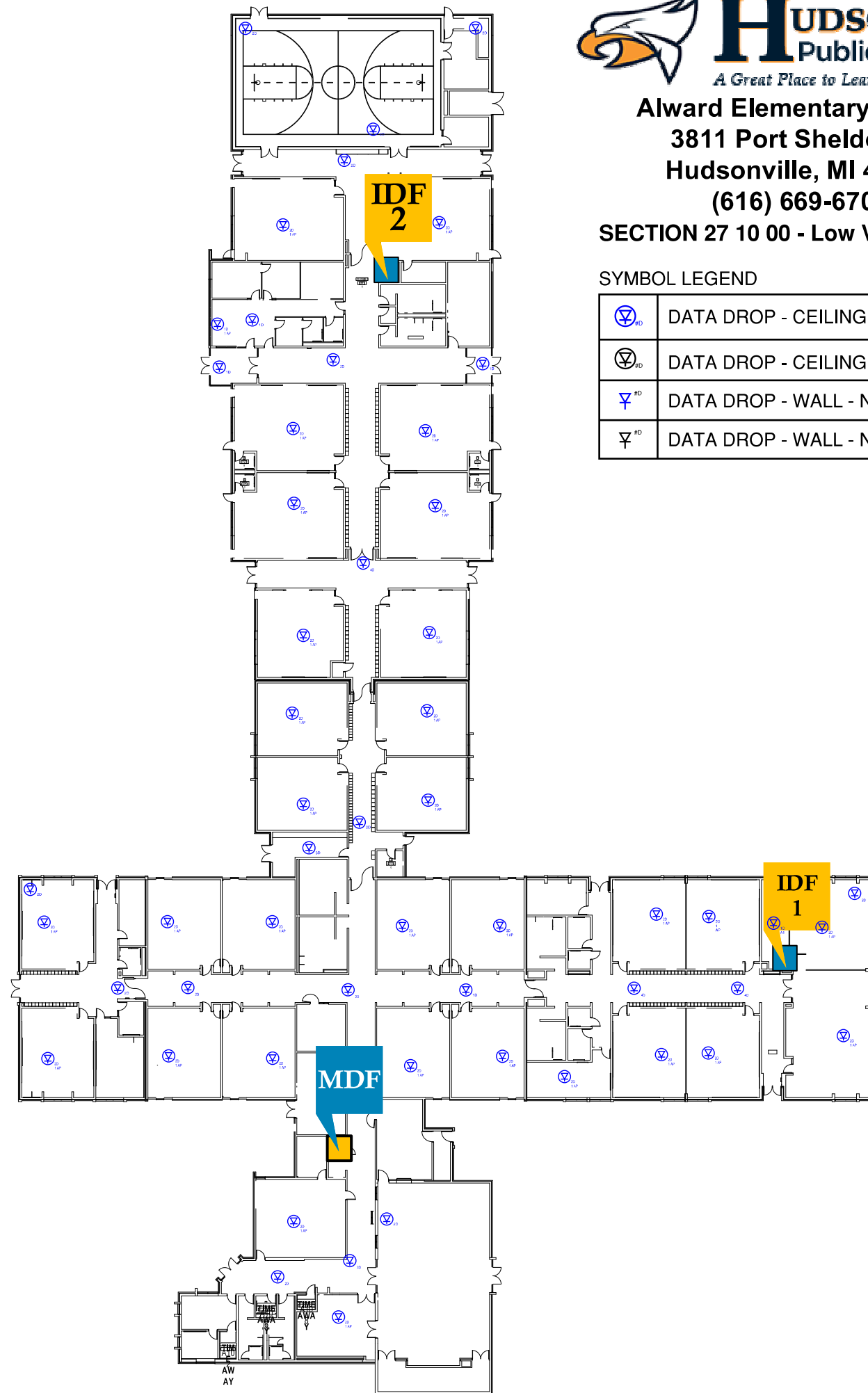
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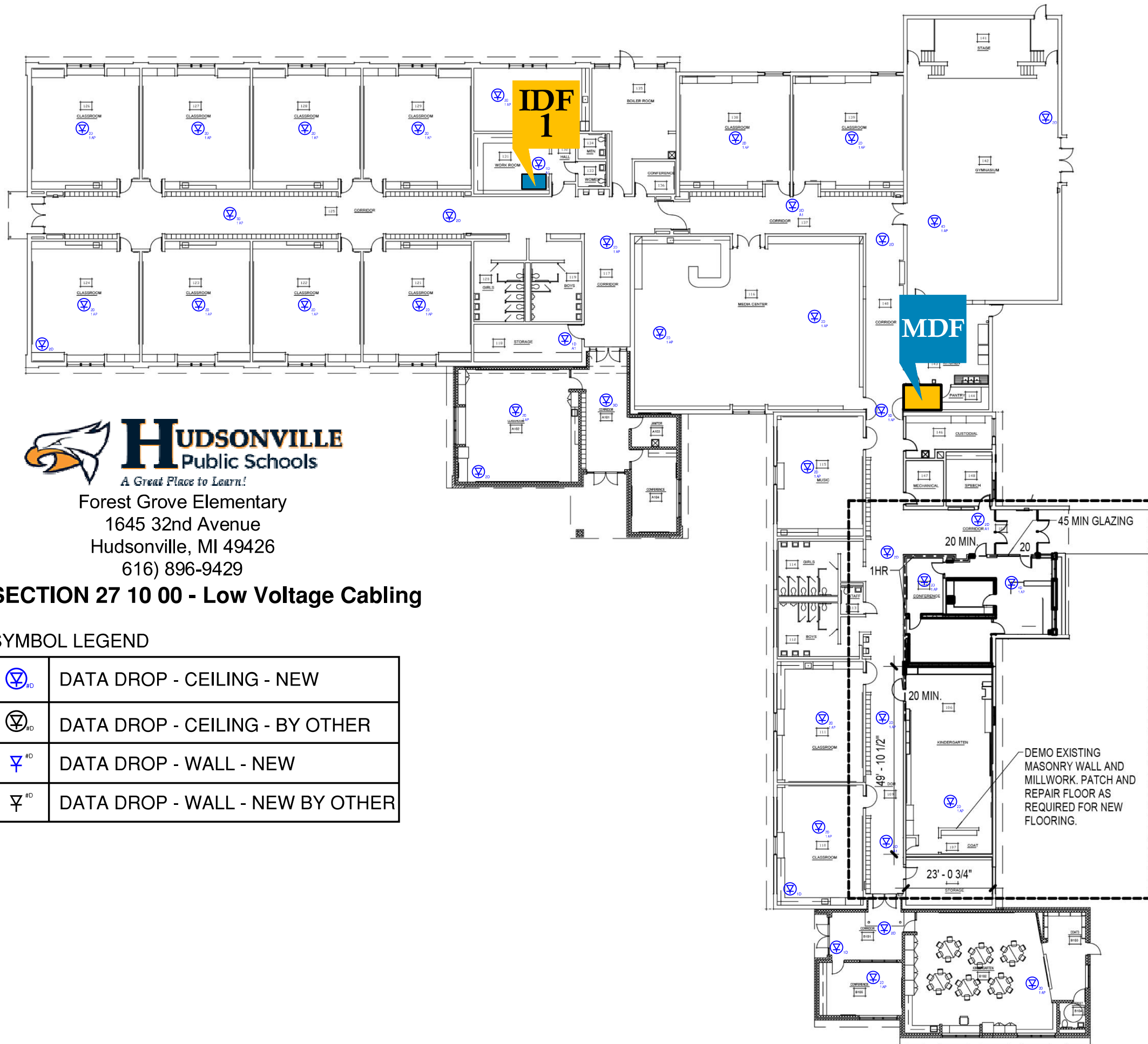
Alward Elementary School
3811 Port Sheldon St
Hudsonville, MI 49426
(616) 669-6700

SECTION 27 10 00 - Low Voltage Cabling

SYMBOL LEGEND

	DATA DROP - CEILING - NEW
	DATA DROP - CEILING - BY OTHER
	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER





Forest Grove Elementary
 1645 32nd Avenue
 Hudsonville, MI 49426
 616) 896-9429

SECTION 27 10 00 - Low Voltage Cabling

SYMBOL LEGEND

	DATA DROP - CEILING - NEW
	DATA DROP - CEILING - BY OTHER
	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER



Georgetown Elementary School

3909 Baldwin Street
Hudsonville, MI 49426

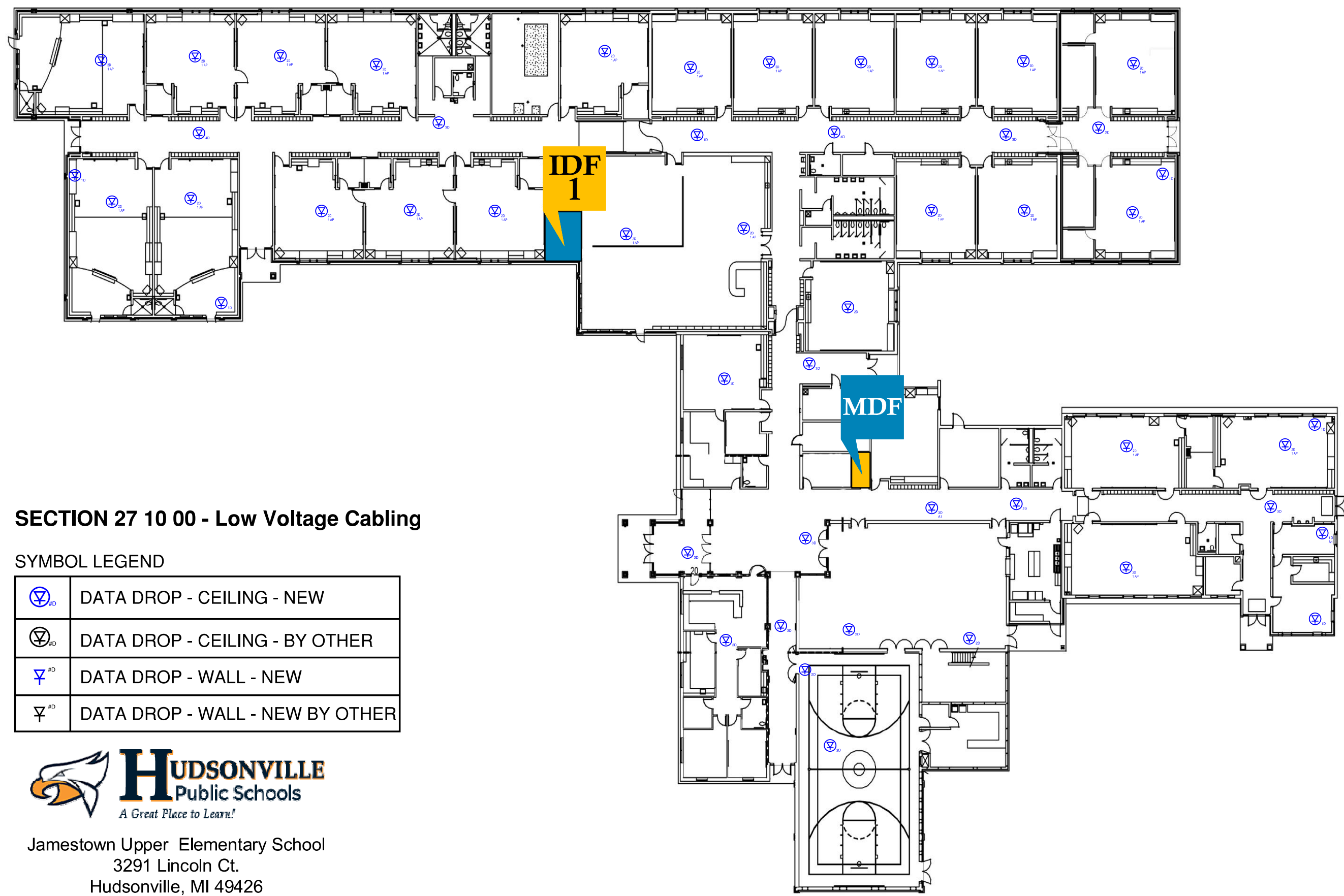
(616) 797-9797

SECTION 27 10 00 - Low Voltage Cabling

SYMBOL LEGEND

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	DATA DROP - WALL - NEW BY OTHER





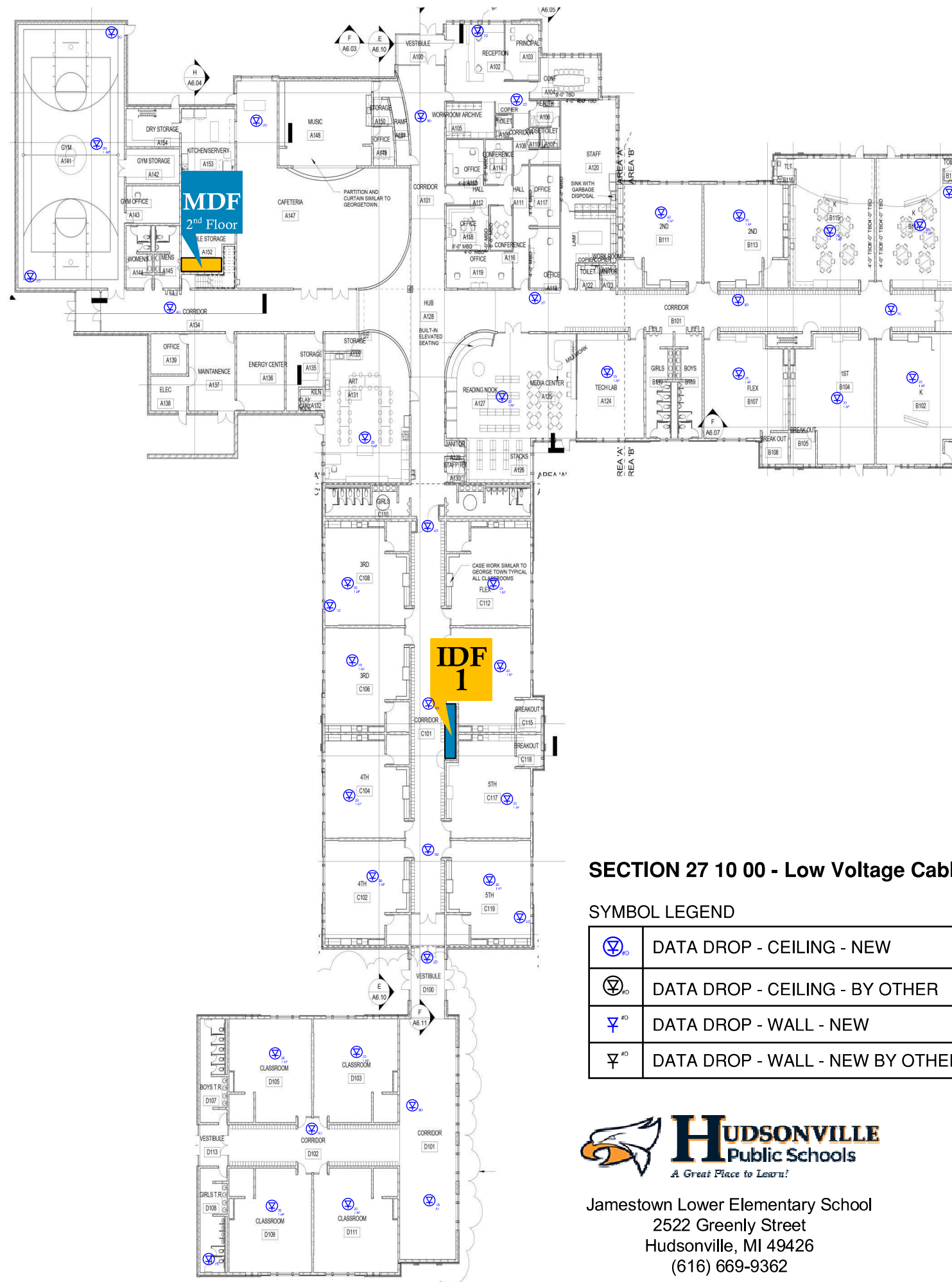
SECTION 27 10 00 - Low Voltage Cabling

SYMBOL LEGEND

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	DATA DROP - CEILING - BY OTHER
	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER



Jamestown Upper Elementary School
 3291 Lincoln Ct.
 Hudsonville, MI 49426
 (616) 896-9375



SECTION 27 10 00 - Low Voltage Cabling

SYMBOL LEGEND

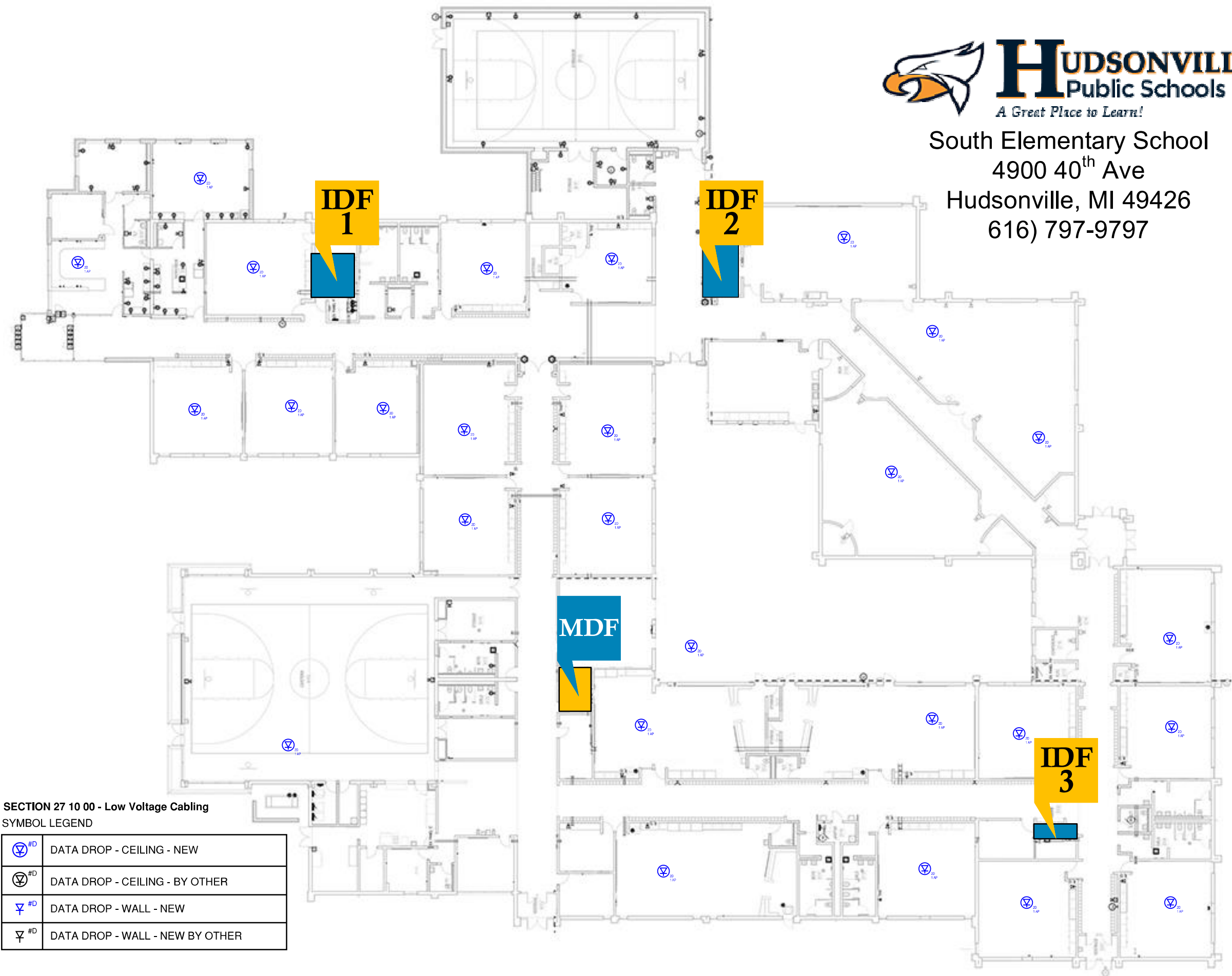
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	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER



Jamestown Lower Elementary School
 2522 Greenly Street
 Hudsonville, MI 49426
 (616) 669-9362



South Elementary School
4900 40th Ave
Hudsonville, MI 49426
616) 797-9797



SECTION 27 10 00 - Low Voltage Cabling
SYMBOL LEGEND

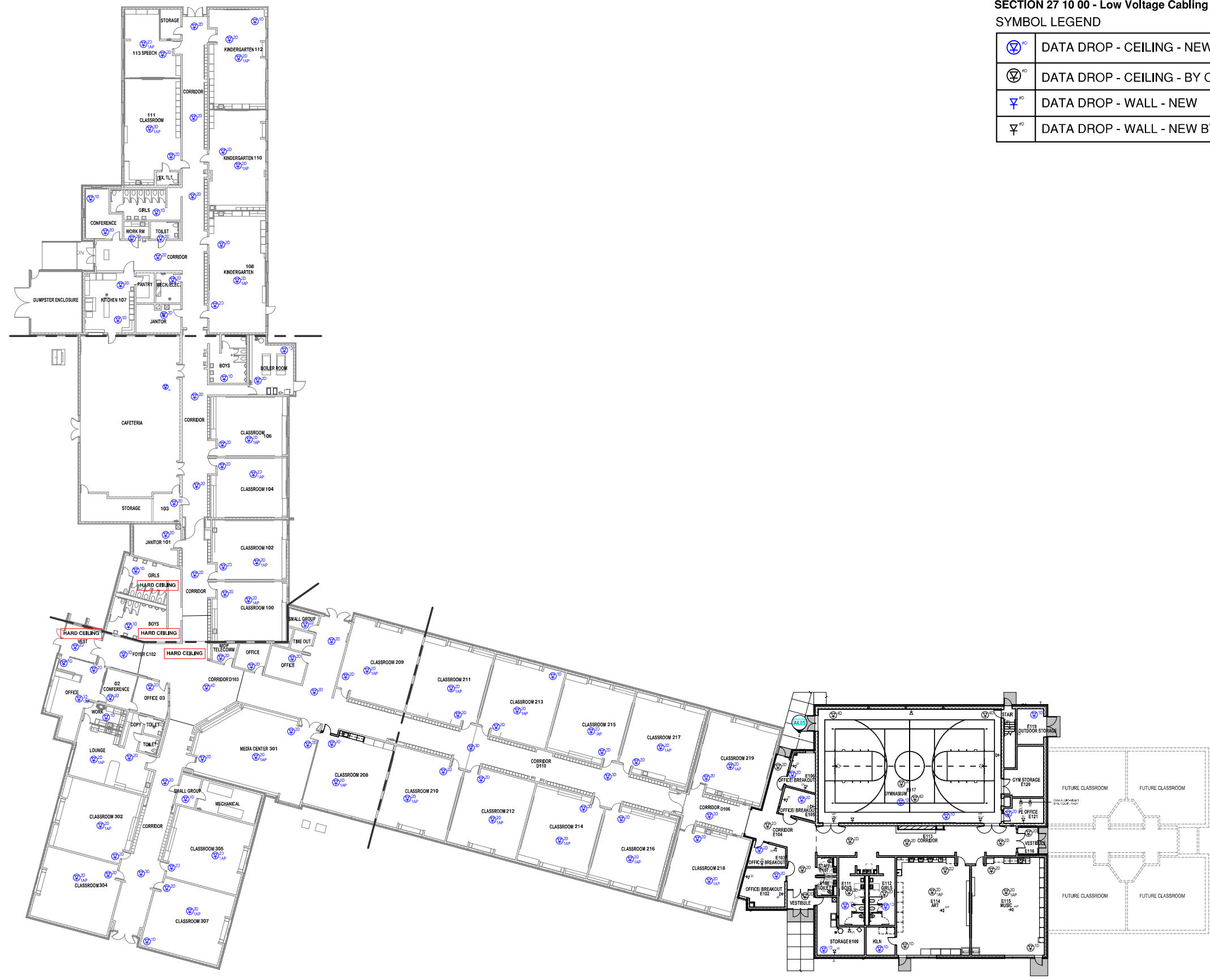
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SECTION 27 10 00 - Low Voltage Cabling
 SYMBOL LEGEND

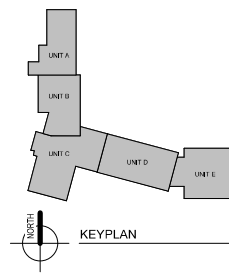
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	DATA DROP - WALL - NEW BY OTHER



BAUER ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
 HUDSONVILLE, MICHIGAN



OVERALL FLOOR PLAN
 1/16" = 1'-0"



ISSUANCES

10.04.2022	BIDS AND CONSTRUCTION
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DRAWN	MEE
REVIEWED	TGD
PROJECT NO.	5-5769

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OVERALL FLOOR PLAN

A0.01

BM 36016-5769 Hudsonville Bauer Elementary Classroom & Gym Addition-5769A, 2018-21
 12/12/2022 6:16:14 PM

SECTION 27 10 00 - Low Voltage Cabling
SYMBOL LEGEND

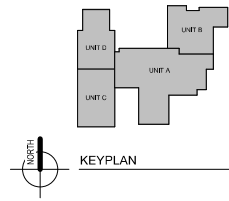
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	DATA DROP - CEILING - BY OTHER
	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN



OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"



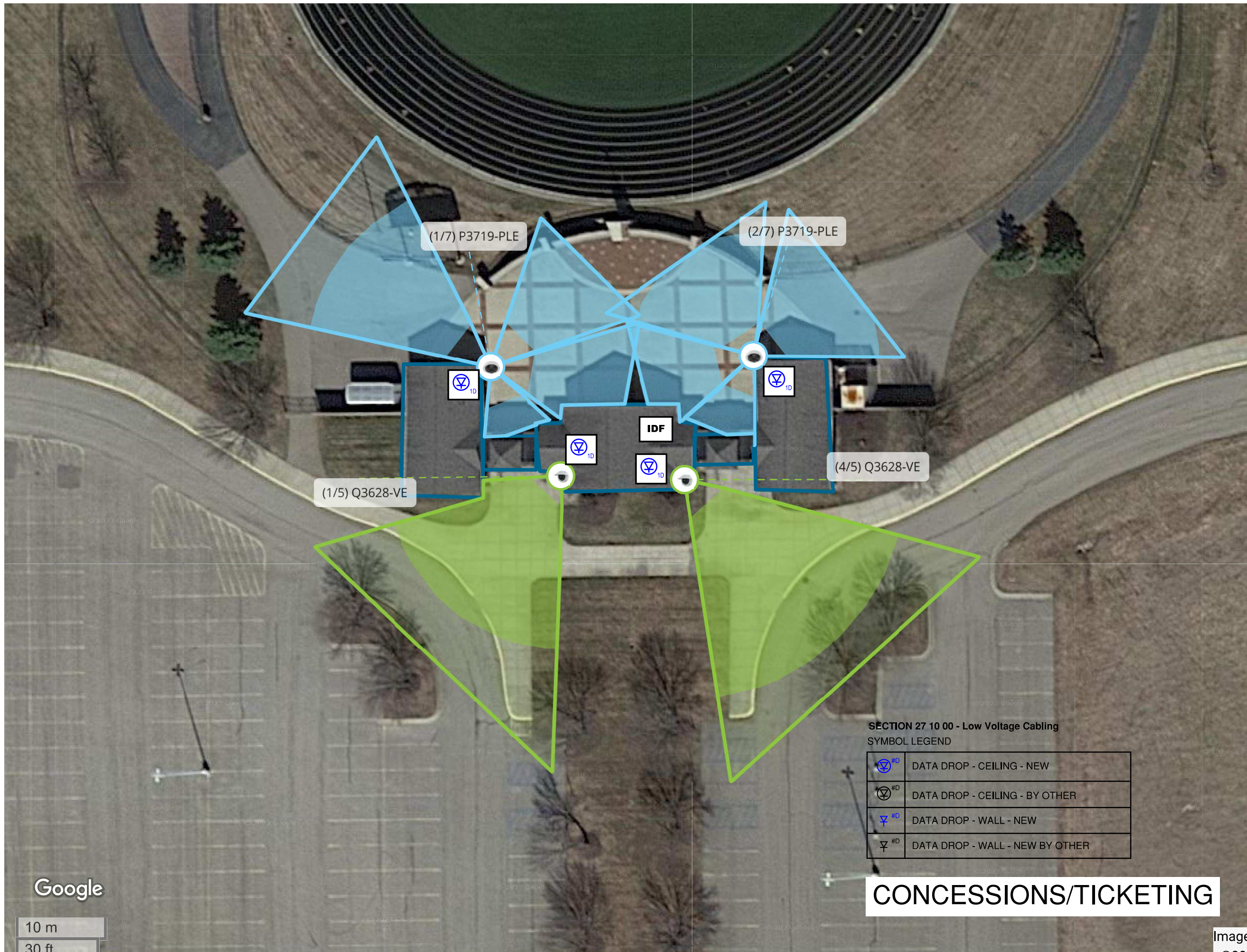
ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5798
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OVERALL FIRST FLOOR PLAN

BM 26016-5798 Hudsonville Park Elementary Additions & Renovation 5-5798A_2018.rvt
3/23/2023 12:02:37 AM



(1/7) P3719-PLE

(2/7) P3719-PLE

(1/5) Q3628-VE

(4/5) Q3628-VE

IDF

SECTION 27 10 00 - Low Voltage Cabling
SYMBOL LEGEND

	DATA DROP - CEILING - NEW
	DATA DROP - CEILING - BY OTHER
	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER

CONCESSIONS/TICKETING

Google

10 m
30 ft

Image © 2023

PRESSBOX AND FIELD

SECTION 27 10 00 - Low Voltage Cabling

SYMBOL LEGEND

	DATA DROP - CEILING - NEW
	DATA DROP - CEILING - BY OTHER
	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER

(2/5) Q3628-VE

(5/7) P3719-PLE

(3/7) P3719-PLE

Q1786-LE

IDF

(4/7) P3719-PLE

Google

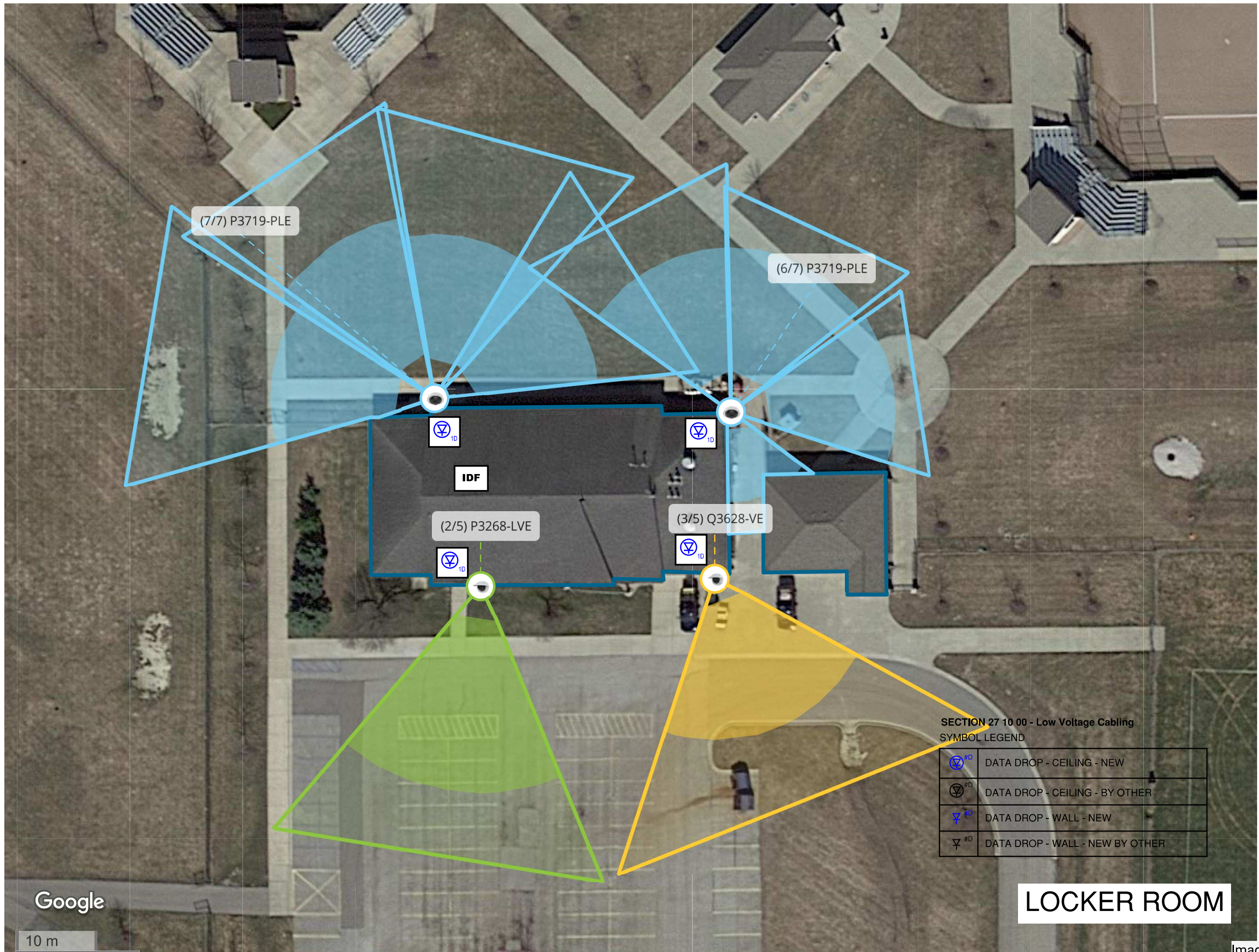
10 m

50 ft

Image

©202

Max



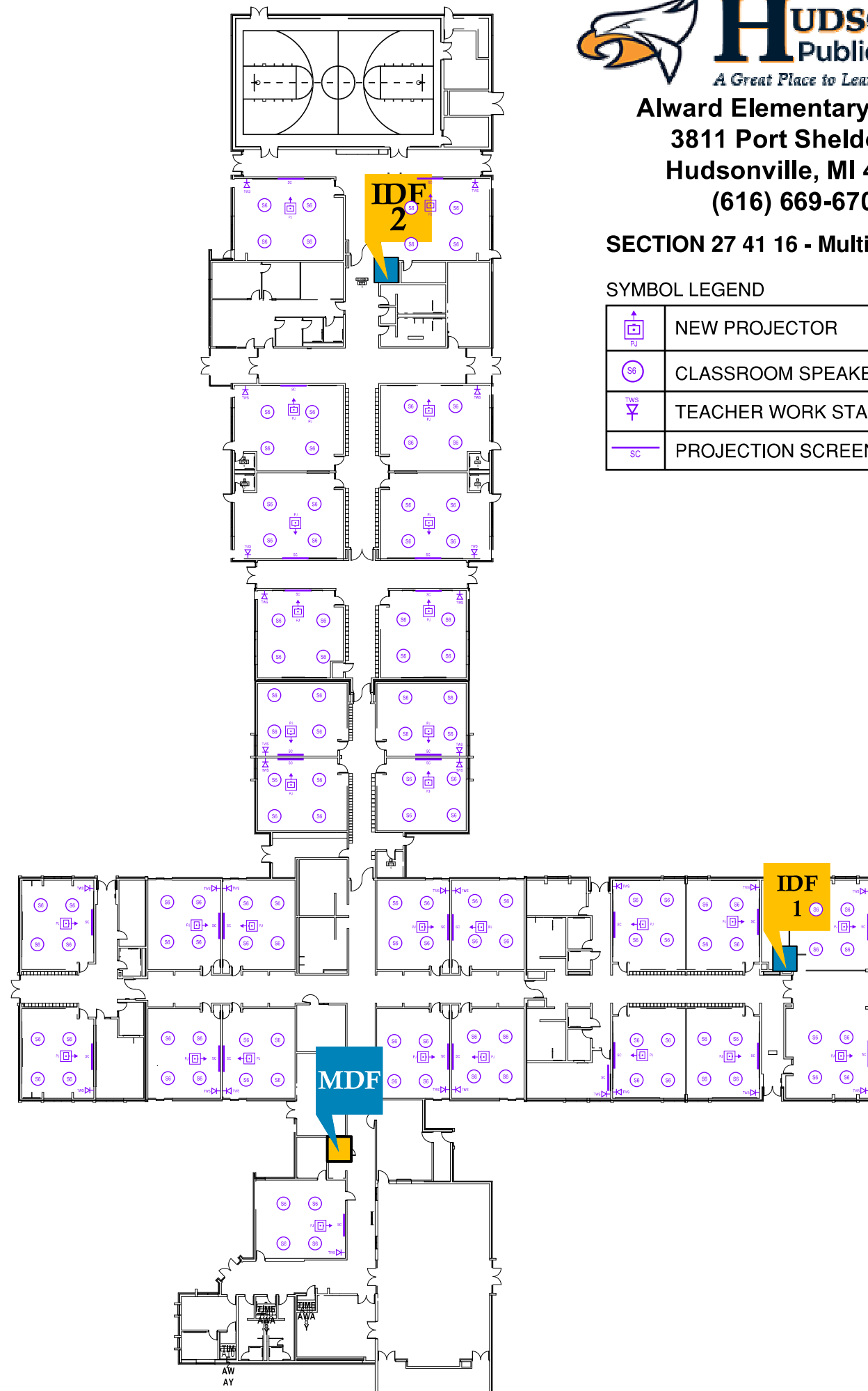


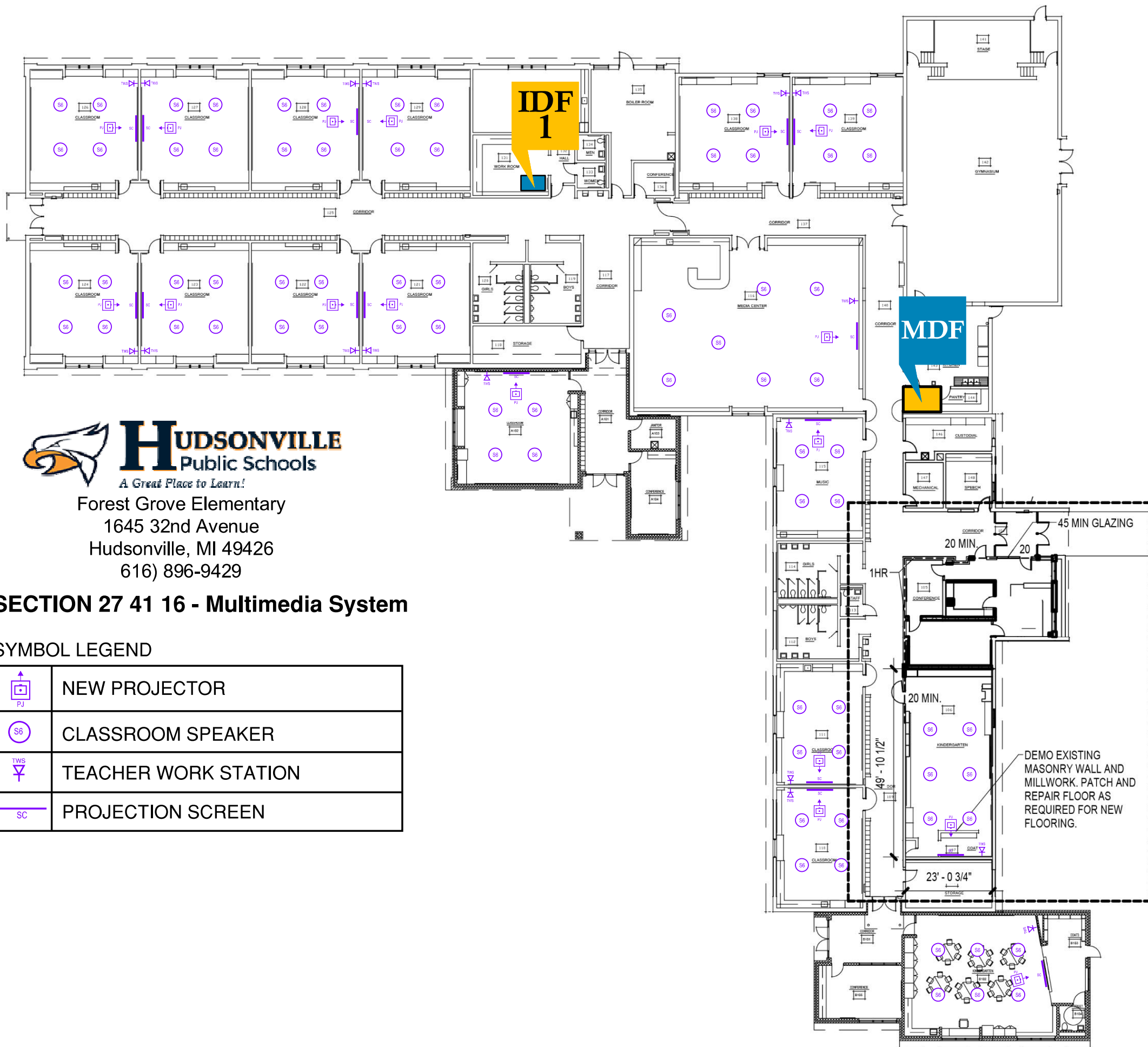
Alward Elementary School
3811 Port Sheldon St
Hudsonville, MI 49426
(616) 669-6700

SECTION 27 41 16 - Multimedia System

SYMBOL LEGEND

	NEW PROJECTOR
	CLASSROOM SPEAKER
	TEACHER WORK STATION
	PROJECTION SCREEN





Forest Grove Elementary
 1645 32nd Avenue
 Hudsonville, MI 49426
 616) 896-9429

SECTION 27 41 16 - Multimedia System

SYMBOL LEGEND

	NEW PROJECTOR
	CLASSROOM SPEAKER
	TEACHER WORK STATION
	PROJECTION SCREEN



Georgetown Elementary School

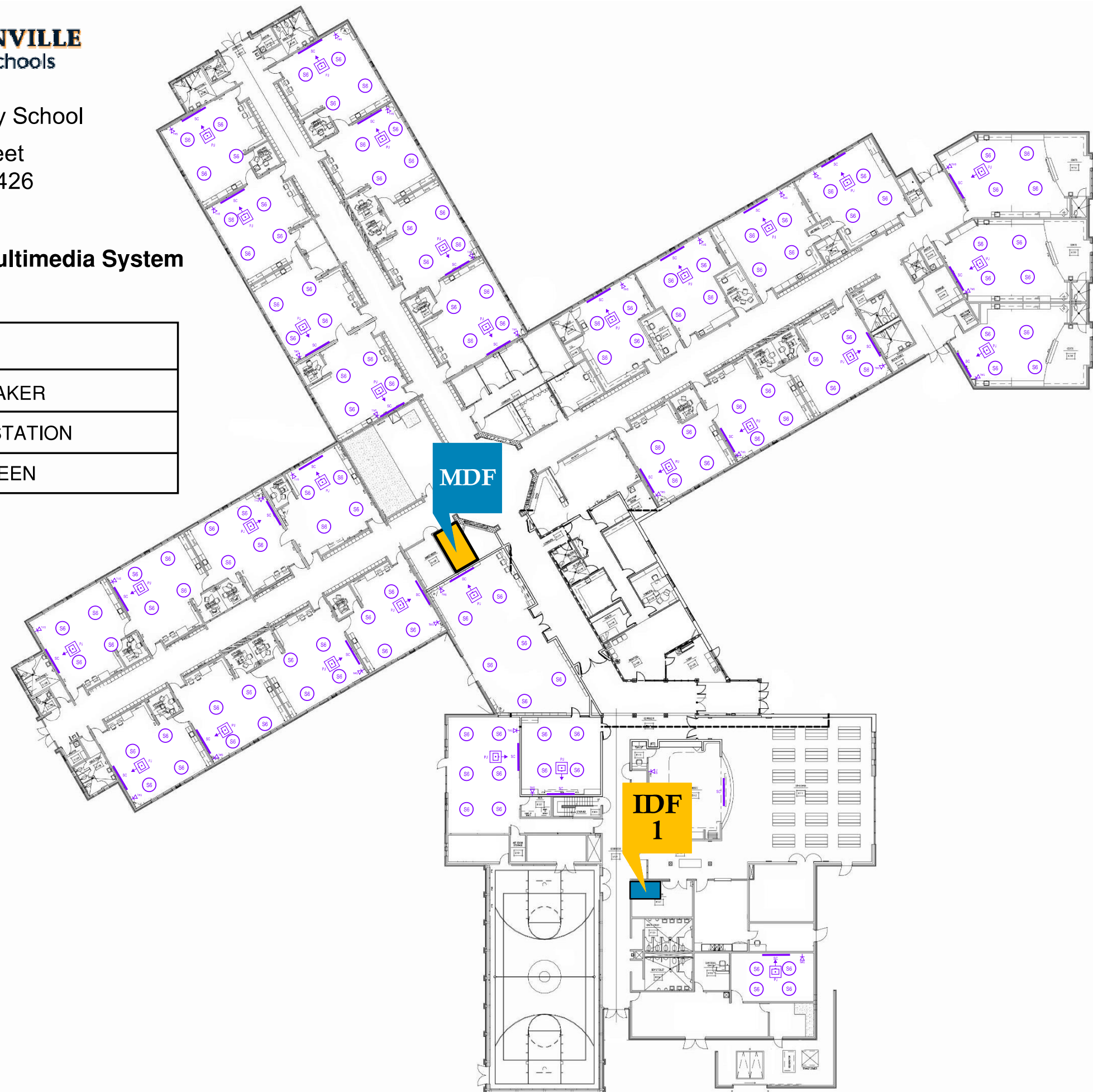
3909 Baldwin Street
Hudsonville, MI 49426

(616) 797-9797

SECTION 27 41 16 - Multimedia System

SYMBOL LEGEND

	NEW PROJECTOR
	CLASSROOM SPEAKER
	TEACHER WORK STATION
	PROJECTION SCREEN





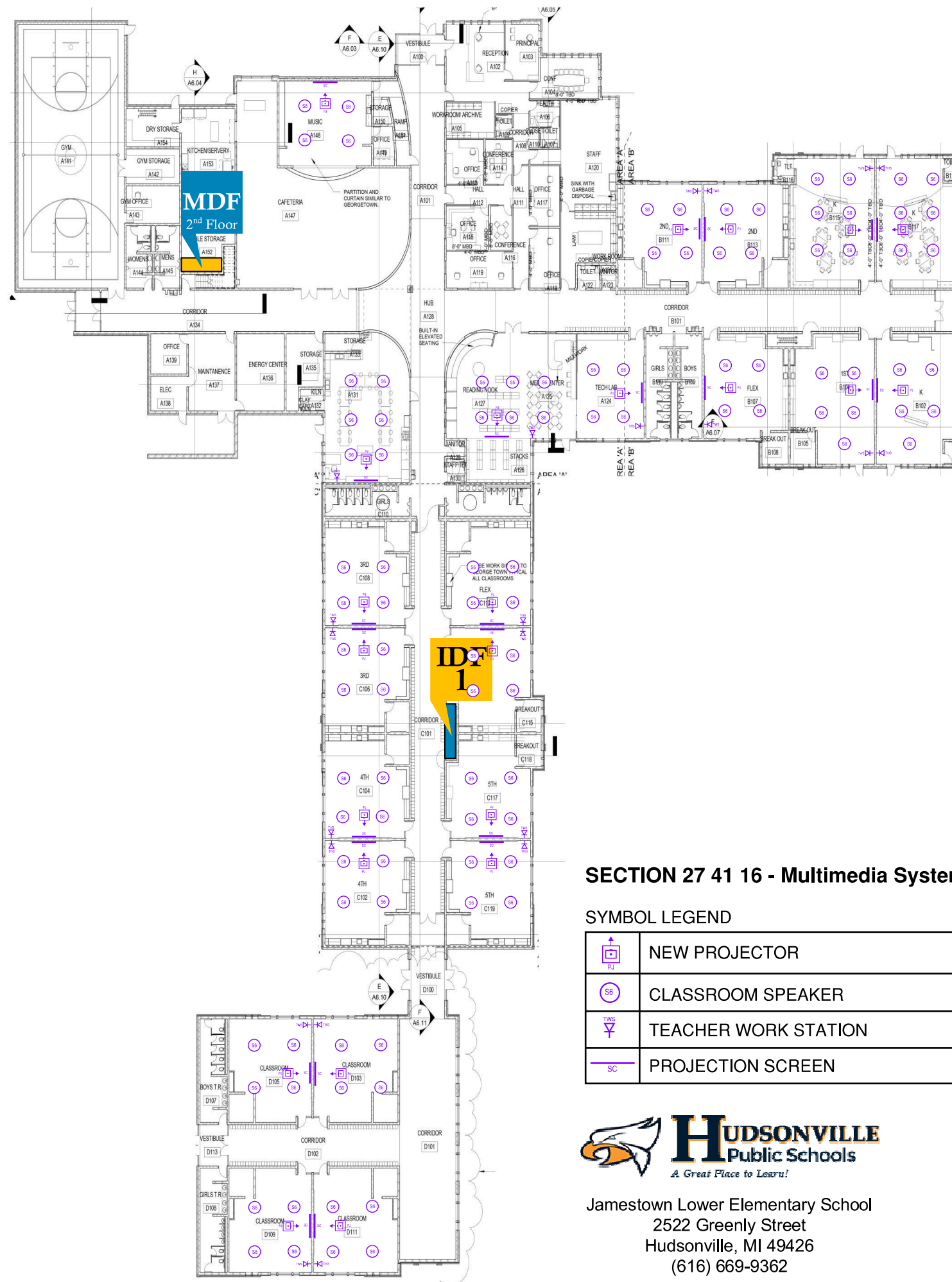
SECTION 27 41 16 - Multimedia System

SYMBOL LEGEND

	NEW PROJECTOR
	CLASSROOM SPEAKER
	TEACHER WORK STATION
	PROJECTION SCREEN



Jamestown Upper Elementary School
 3291 Lincoln Ct.
 Hudsonville, MI 49426
 (616) 896-9375



SECTION 27 41 16 - Multimedia System

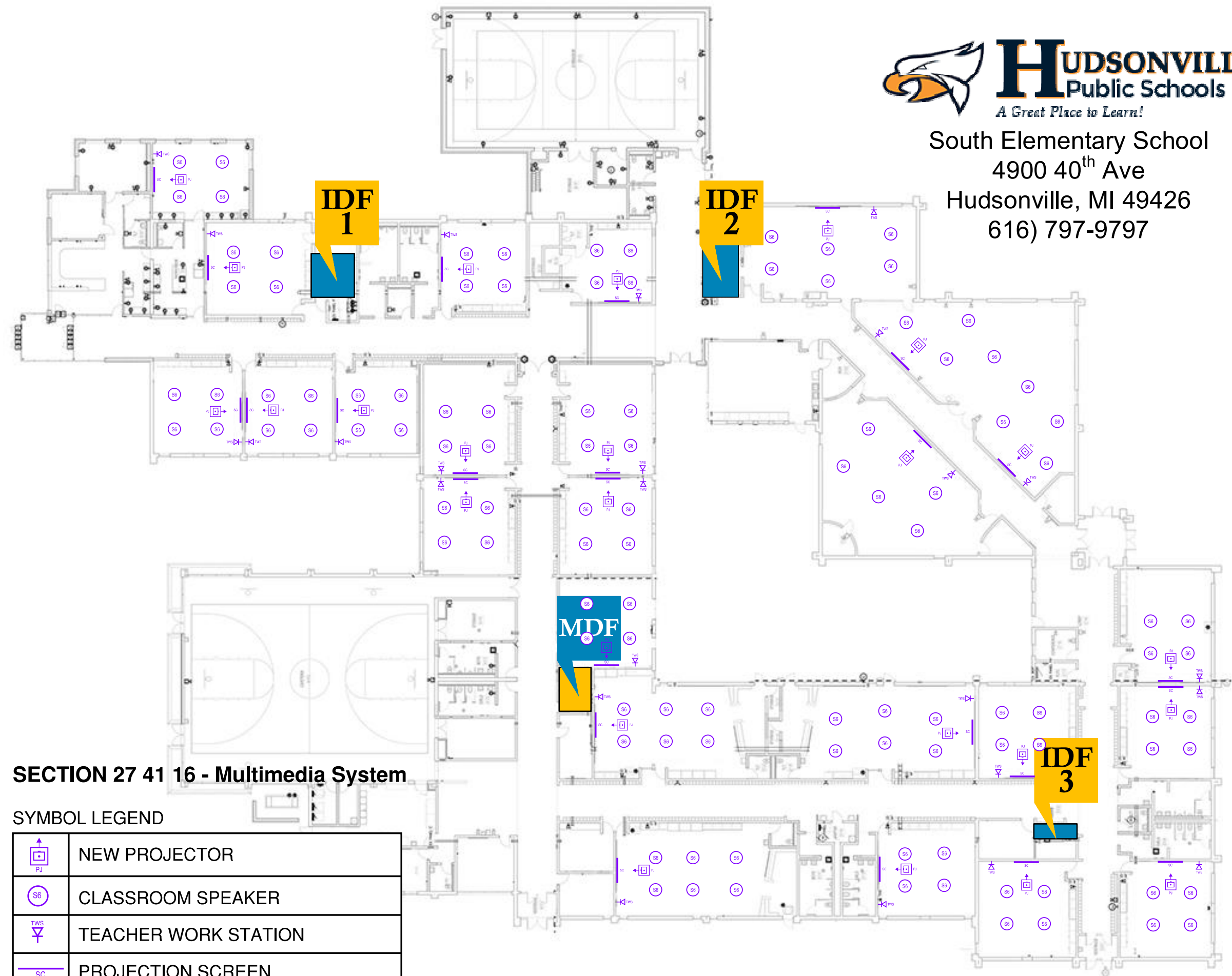
SYMBOL LEGEND

	NEW PROJECTOR
	CLASSROOM SPEAKER
	TEACHER WORK STATION
	PROJECTION SCREEN







Jamestown Lower Elementary School
 2522 Greenly Street
 Hudsonville, MI 49426
 (616) 669-9362

South Elementary School
4900 40th Ave
Hudsonville, MI 49426
616) 797-9797



SECTION 27 41 16 - Multimedia System

SYMBOL LEGEND

	NEW PROJECTOR
	CLASSROOM SPEAKER
	TEACHER WORK STATION
	PROJECTION SCREEN

SECTION 27 41 16 - Multimedia System

SYMBOL LEGEND

	NEW PROJECTOR
	CLASSROOM SPEAKER
	TEACHER WORK STATION
	PROJECTION SCREEN



616.766.000
WWW.GMB.COM

BAUER ELEMENTARY ADDITIONS AND RENOVATIONS

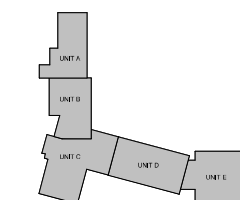
HUDSONVILLE PUBLIC SCHOOLS

HUDSONVILLE, MICHIGAN



OVERALL FLOOR PLAN

1/16" = 1'-0"



KEYPLAN

ISSUANCES

10.04.2022	BIDS AND CONSTRUCTION
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REVIEWED	TGD

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OVERALL FLOOR PLAN

SYMBOL LEGEND

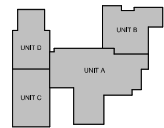
	NEW PROJECTOR
	CLASSROOM SPEAKER
	TEACHER WORK STATION
	PROJECTION SCREEN



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

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REVIEWED TGD
PROJECT NO. 5-5738
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OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

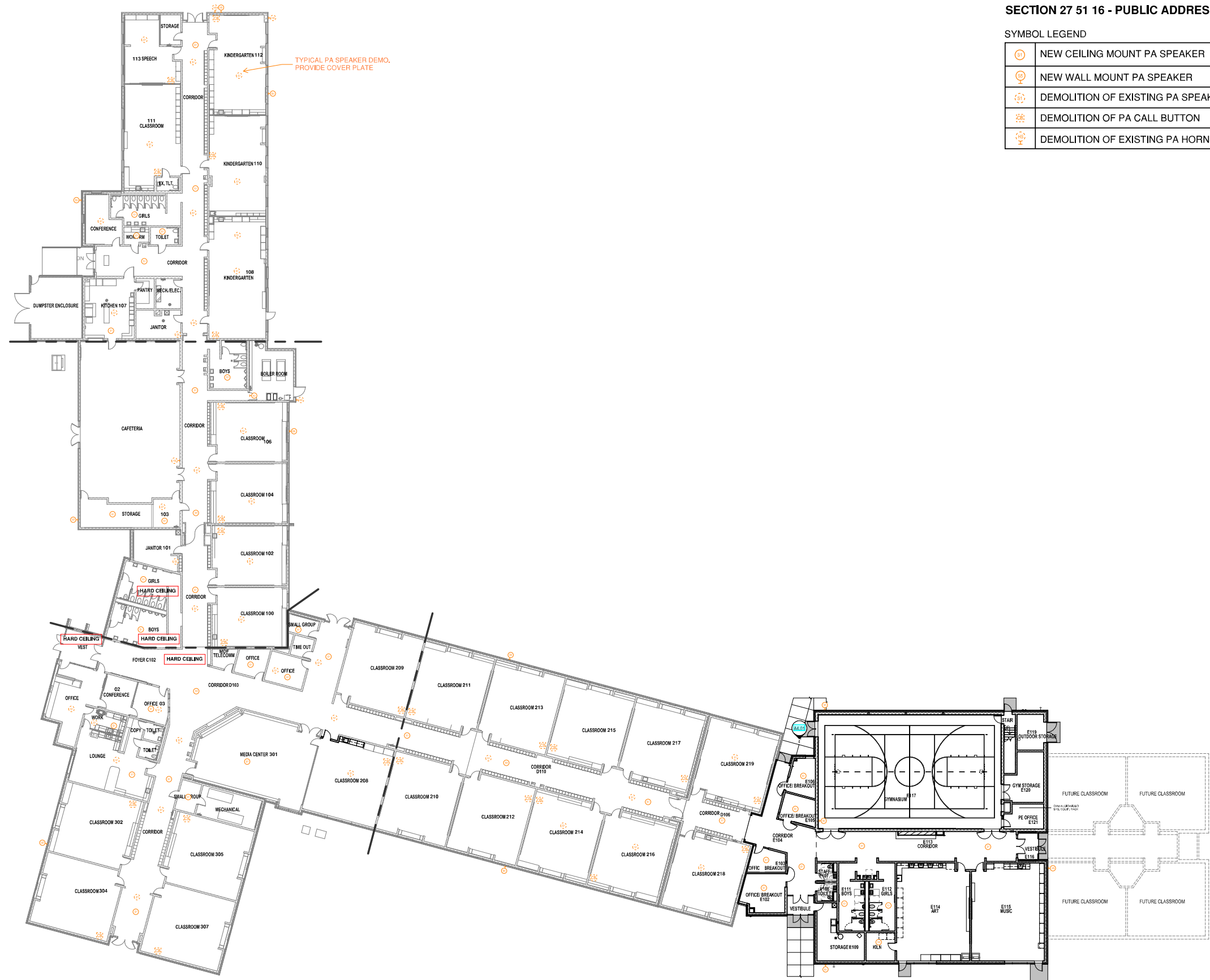
KEYPLAN

OVERALL FIRST FLOOR PLAN

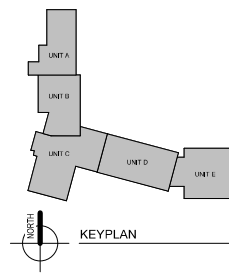
B:\162616-5738 Hudsonville Park Elementary Additions & Renovations\5738A_2018.rvt
3/23/2023 12:02:37 AM

SYMBOL LEGEND

	NEW CEILING MOUNT PA SPEAKER
	NEW WALL MOUNT PA SPEAKER
	DEMOLITION OF EXISTING PA SPEAKER
	DEMOLITION OF PA CALL BUTTON
	DEMOLITION OF EXISTING PA HORN



OVERALL FLOOR PLAN
1" = 1/8" = 1/4"



BAUER ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES

10.04.2022	BIDS AND CONSTRUCTION
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DRAWN	MEE
REVIEWED	TGD

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OVERALL FLOOR PLAN

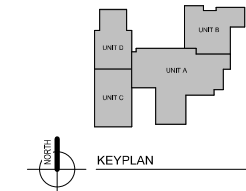
BM 36016-5769 Hudsonville Bauer Elementary Classroom & Gym Addition-5769A, 2018-21
10/2022 6:16:14 PM

SYMBOL LEGEND

	NEW CEILING MOUNT PA SPEAKER
	NEW WALL MOUNT PA SPEAKER
	DEMOLITION OF EXISTING PA SPEAKER
	DEMOLITION OF PA CALL BUTTON
	DEMOLITION OF EXISTING PA HORN



OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"



KEYPLAN

PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

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OVERALL FIRST FLOOR PLAN

B:\1\2610\5-5798 Hudsonville Park Elementary Additions & Renovations\5-5798A_2018.rvt
3/23/2023 12:02:37 AM

SECTION 27 53 13 -Clock System

SYMBOL LEGEND

	NEW SINGLE SIDE CLOCK
	NEW DOUBLE SIDED CLOCK
	NEW LARGE SCREEN CLOCK
	DEMOLITION OF EXISTING CLOCK

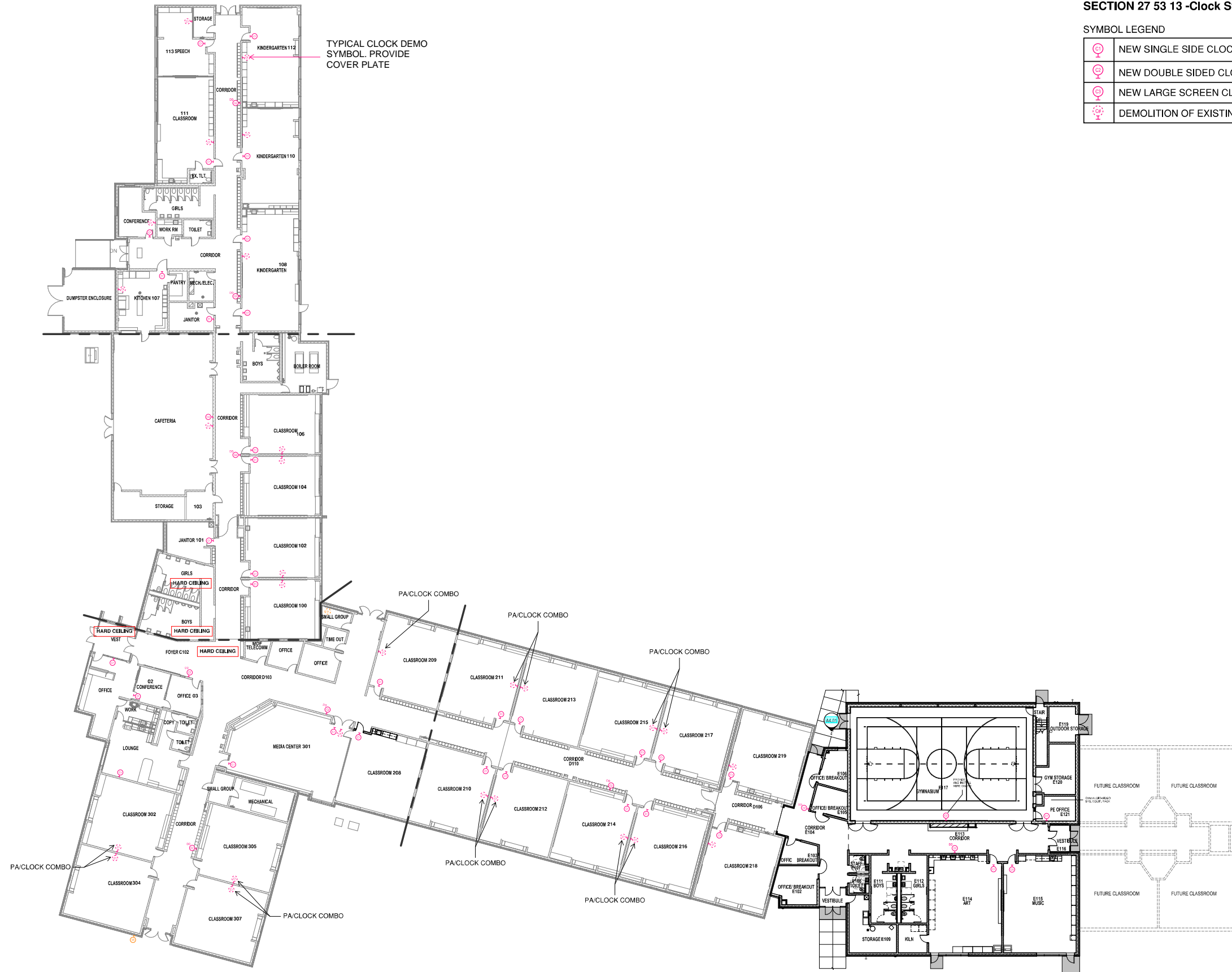


616.766.000
WWW.GMB.COM

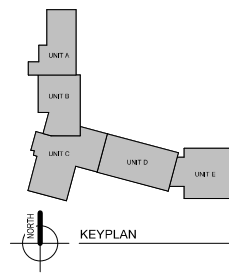
BAUER ELEMENTARY ADDITIONS AND RENOVATIONS

HUDSONVILLE PUBLIC SCHOOLS

HUDSONVILLE, MICHIGAN



OVERALL FLOOR PLAN
1" = 1/8" = 1/4"



ISSUANCES

10.04.2022	BIDS AND CONSTRUCTION
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REVIEWED	TGD

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OVERALL FLOOR PLAN

BIM 360://5-5789 Hudsonville Bauer Elementary Classroom & Gym Addition-5/30/2022 10:18:04
 10/2022 6:16:14 PM

SECTION 27 53 13 -Clock System

SYMBOL LEGEND

	NEW SINGLE SIDE CLOCK
	NEW DOUBLE SIDED CLOCK
	NEW LARGE SCREEN CLOCK
	DEMOLITION OF EXISTING CLOCK

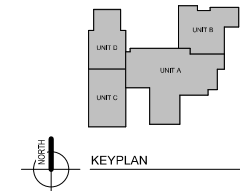


616.796.0000
WWW.GMB.COM

PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN



OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"



KEYPLAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

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REVIEWED TGD

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


OVERALL FIRST FLOOR PLAN

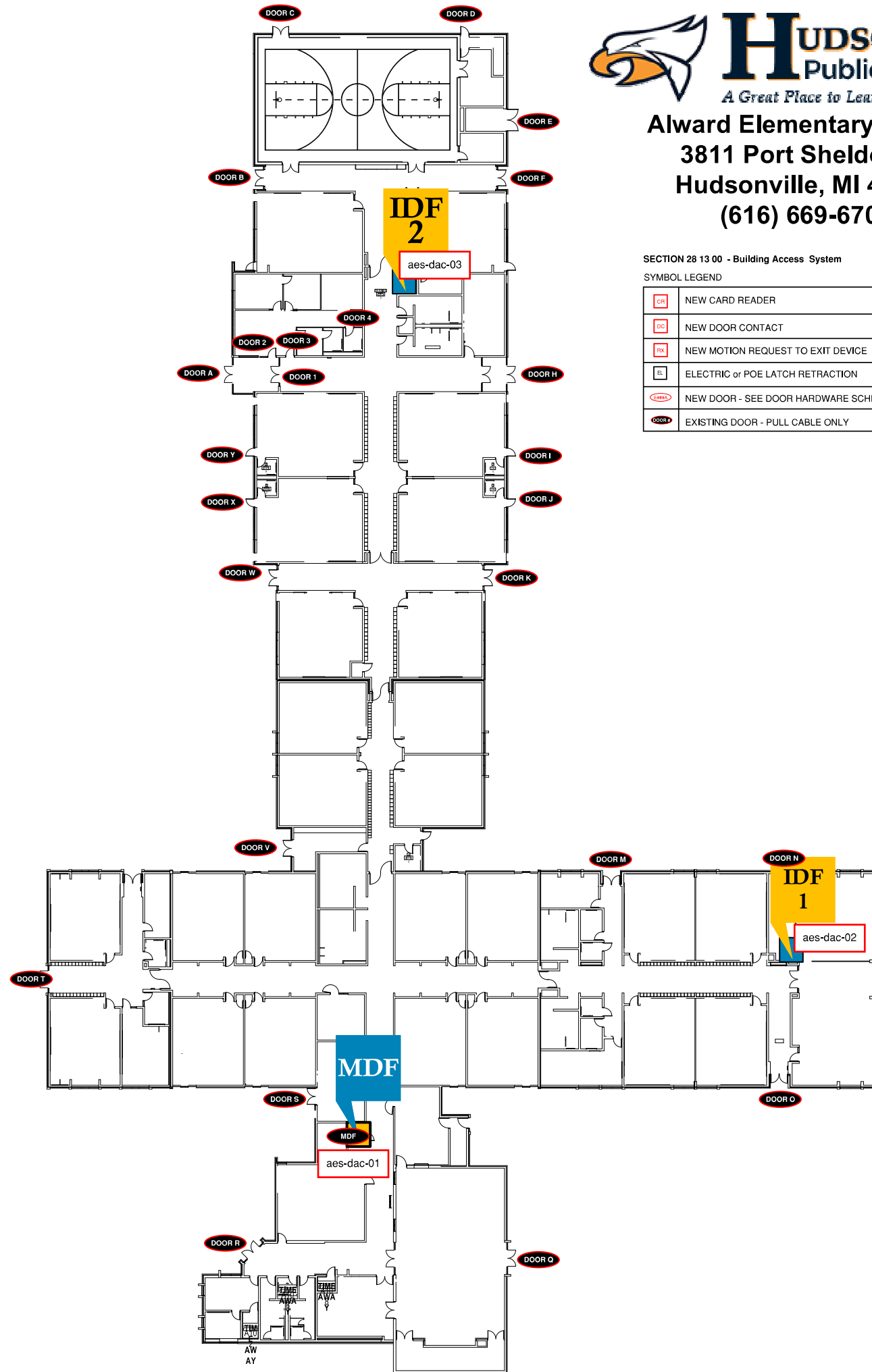
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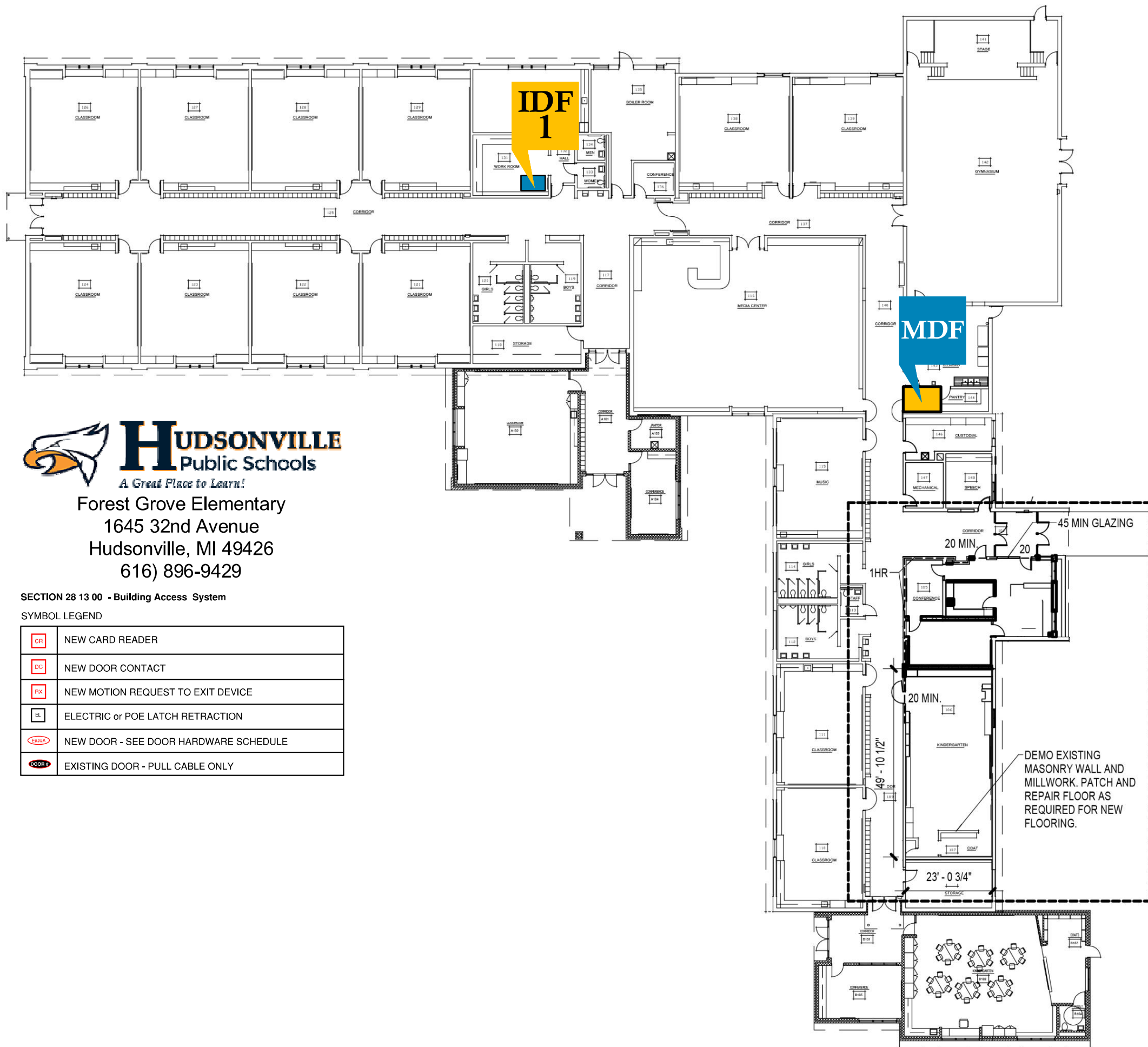
Alward Elementary School
3811 Port Sheldon St
Hudsonville, MI 49426
(616) 669-6700

SECTION 28 13 00 - Building Access System

SYMBOL LEGEND

	NEW CARD READER
	NEW DOOR CONTACT
	NEW MOTION REQUEST TO EXIT DEVICE
	ELECTRIC or POE LATCH RETRACTION
	NEW DOOR - SEE DOOR HARDWARE SCHEDULE
	EXISTING DOOR - PULL CABLE ONLY





Forest Grove Elementary
 1645 32nd Avenue
 Hudsonville, MI 49426
 616) 896-9429

SECTION 28 13 00 - Building Access System

SYMBOL LEGEND

	NEW CARD READER
	NEW DOOR CONTACT
	NEW MOTION REQUEST TO EXIT DEVICE
	ELECTRIC or POE LATCH RETRACTION
	NEW DOOR - SEE DOOR HARDWARE SCHEDULE
	EXISTING DOOR - PULL CABLE ONLY



Georgetown Elementary School

3909 Baldwin Street
Hudsonville, MI 49426

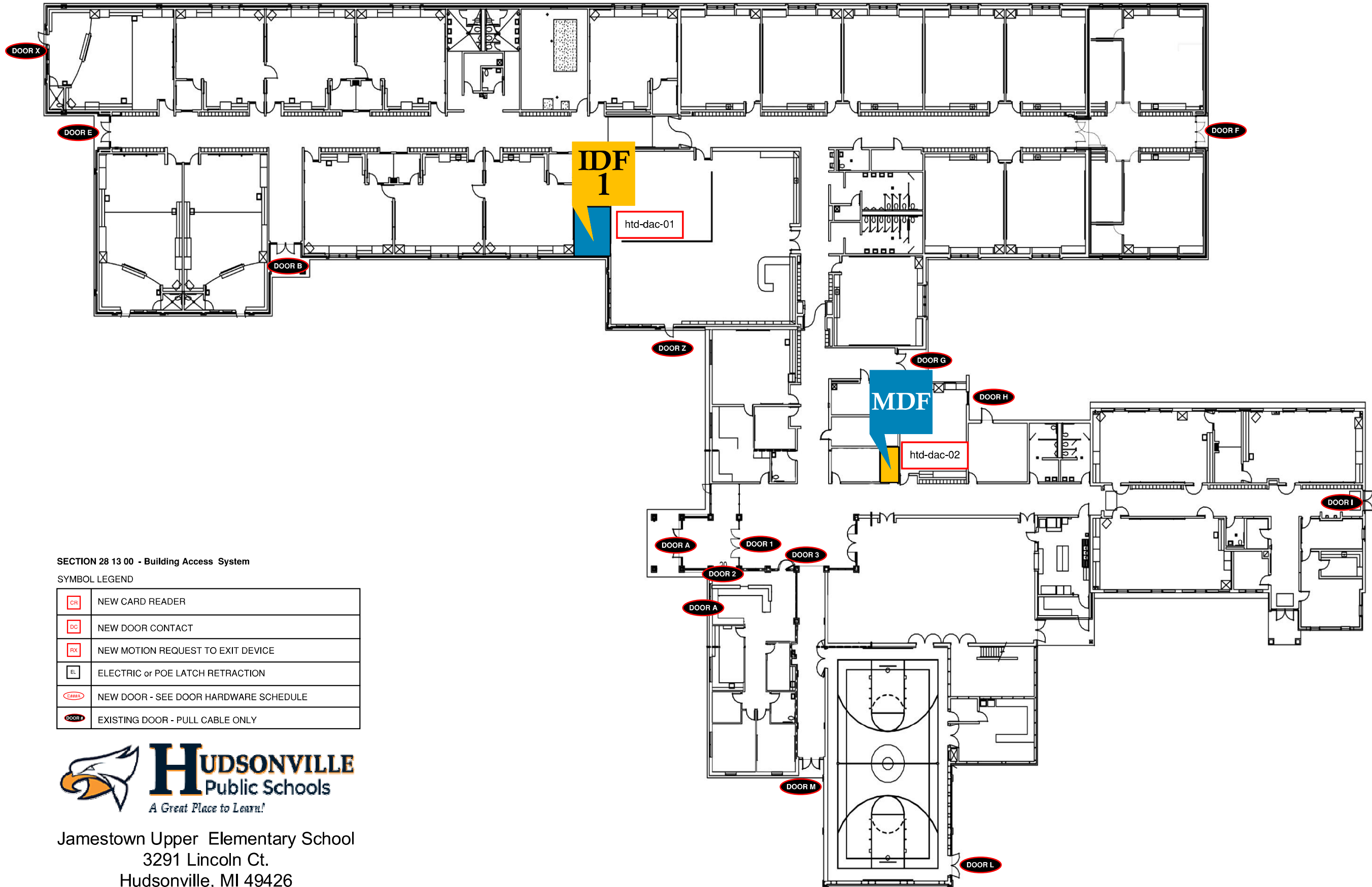
(616) 797-9797

SECTION 28 13 00 - Building Access System

SYMBOL LEGEND

	NEW CARD READER
	NEW DOOR CONTACT
	NEW MOTION REQUEST TO EXIT DEVICE
	ELECTRIC or POE LATCH RETRACTION
	NEW DOOR - SEE DOOR HARDWARE SCHEDULE
	EXISTING DOOR - PULL CABLE ONLY





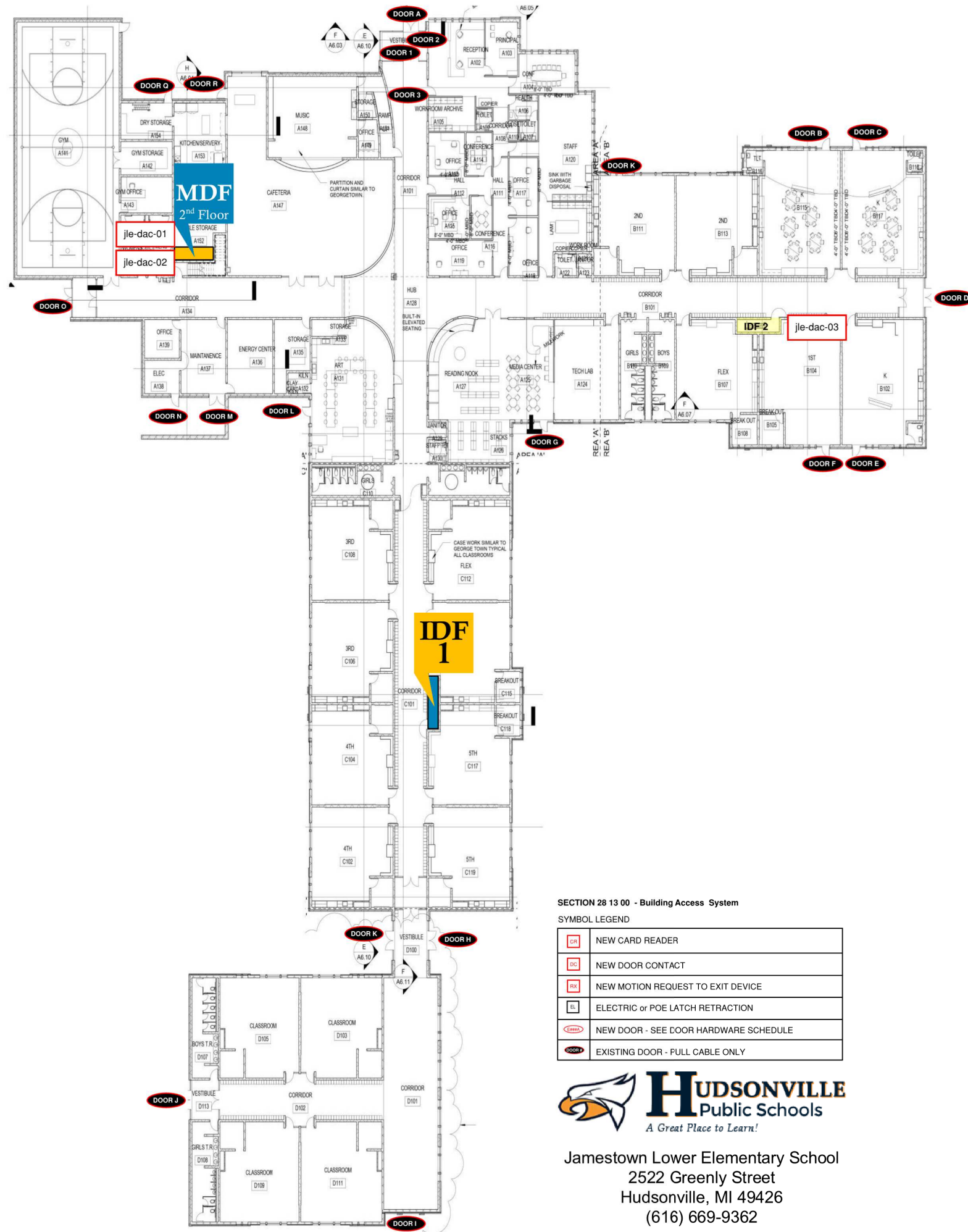
SECTION 28 13 00 - Building Access System

SYMBOL LEGEND

	NEW CARD READER
	NEW DOOR CONTACT
	NEW MOTION REQUEST TO EXIT DEVICE
	ELECTRIC or POE LATCH RETRACTION
	NEW DOOR - SEE DOOR HARDWARE SCHEDULE
	EXISTING DOOR - PULL CABLE ONLY



Jamestown Upper Elementary School
 3291 Lincoln Ct.
 Hudsonville, MI 49426
 (616) 896-9375



SECTION 28 13 00 - Building Access System

SYMBOL LEGEND

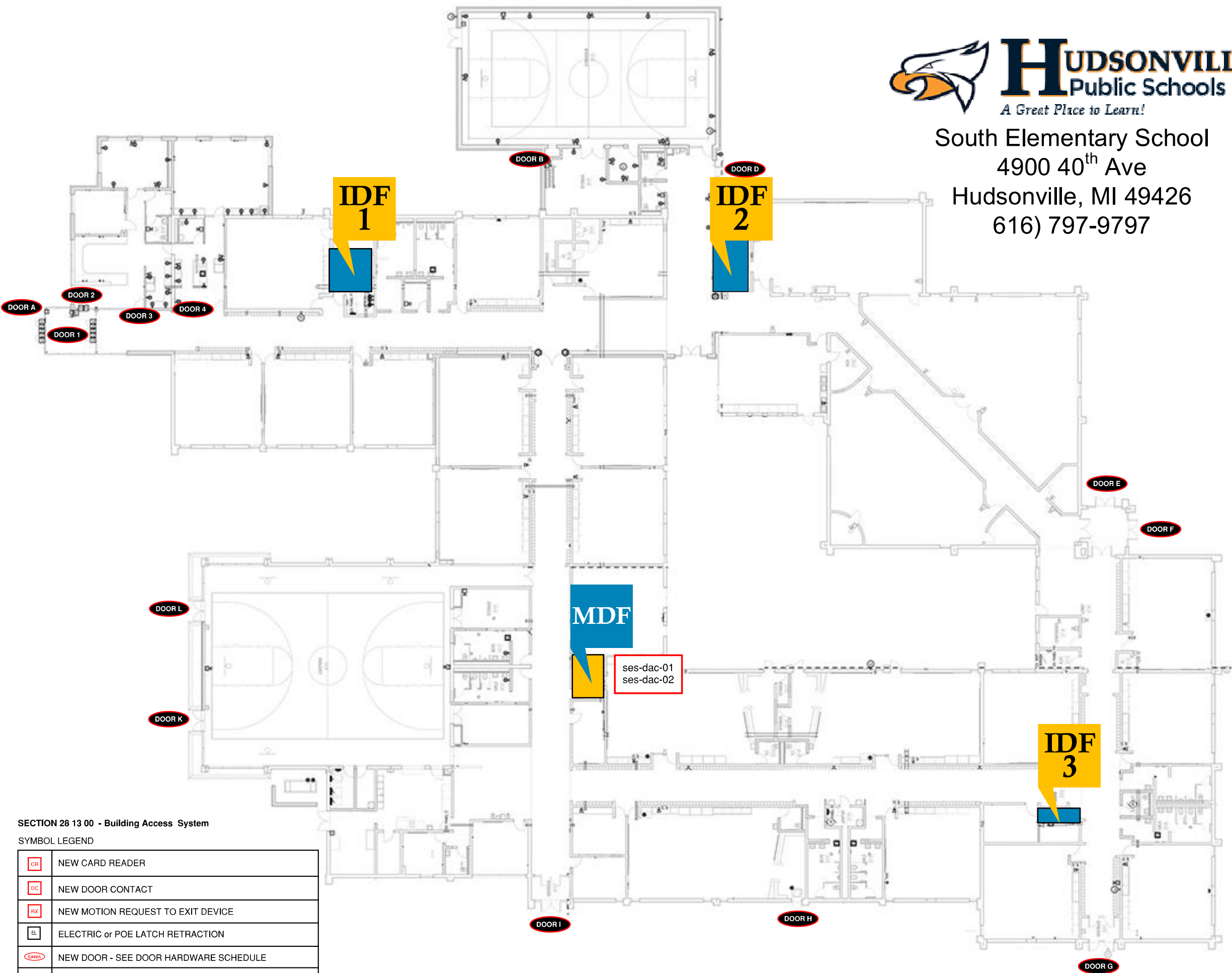
	NEW CARD READER
	NEW DOOR CONTACT
	NEW MOTION REQUEST TO EXIT DEVICE
	ELECTRIC or POE LATCH RETRACTION
	NEW DOOR - SEE DOOR HARDWARE SCHEDULE
	EXISTING DOOR - FULL CABLE ONLY



Jamestown Lower Elementary School
 2522 Greenly Street
 Hudsonville, MI 49426
 (616) 669-9362



South Elementary School
 4900 40th Ave
 Hudsonville, MI 49426
 616) 797-9797



SECTION 28 13 00 - Building Access System

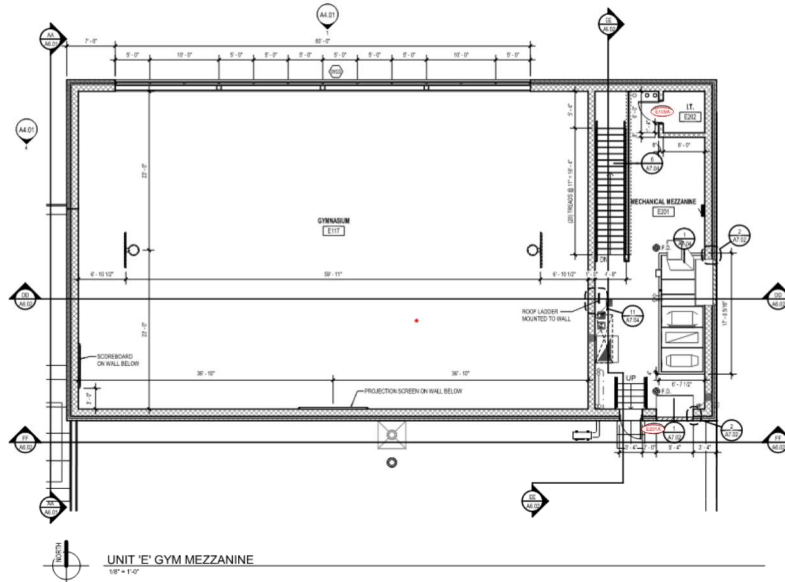
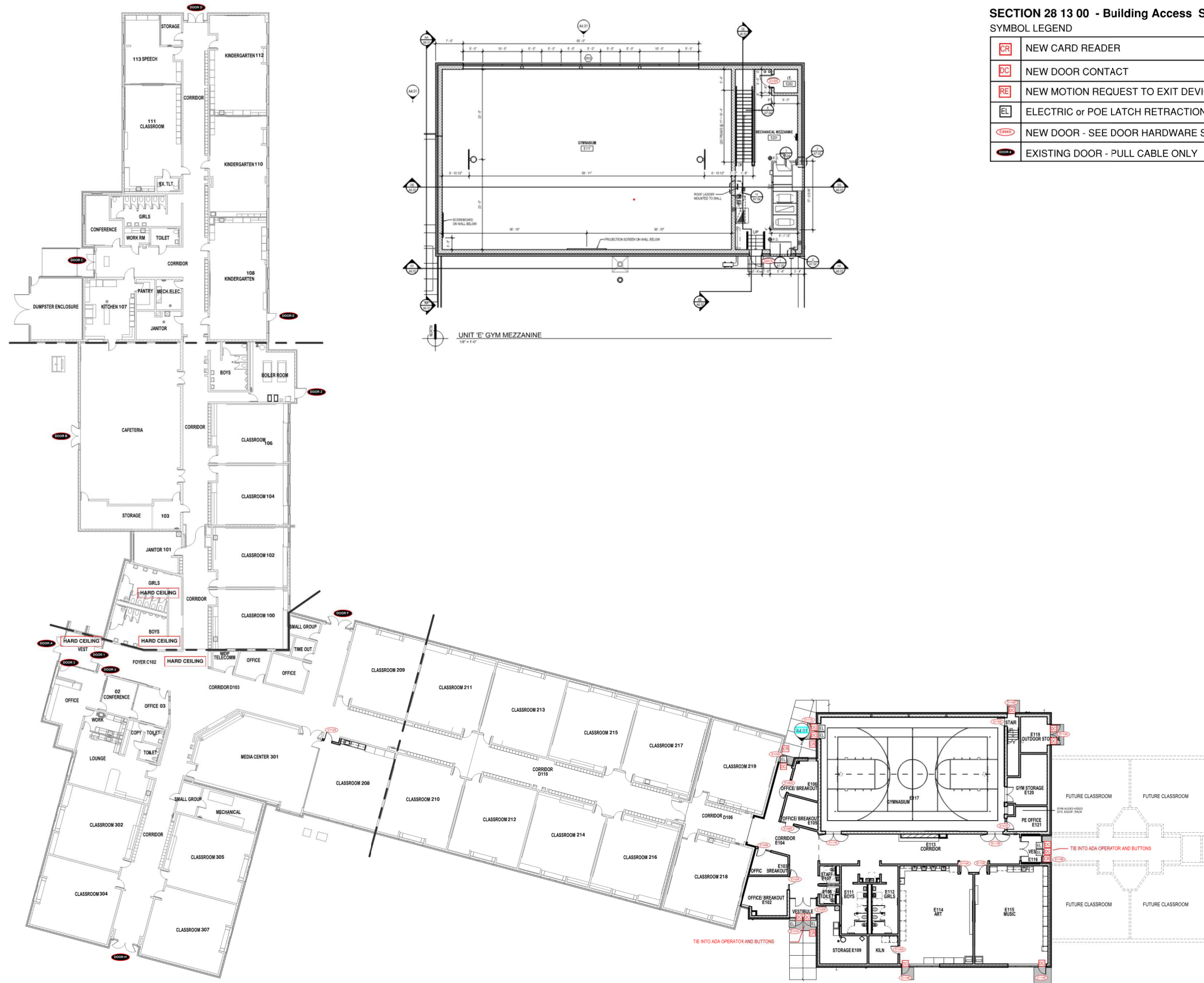
SYMBOL LEGEND

	NEW CARD READER
	NEW DOOR CONTACT
	NEW MOTION REQUEST TO EXIT DEVICE
	ELECTRIC or POE LATCH RETRACTION
	NEW DOOR - SEE DOOR HARDWARE SCHEDULE
	EXISTING DOOR - PULL CABLE ONLY

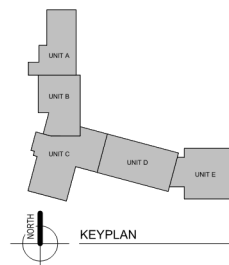
SECTION 28 13 00 - Building Access System

SYMBOL LEGEND

	NEW CARD READER
	NEW DOOR CONTACT
	NEW MOTION REQUEST TO EXIT DEVICE
	ELECTRIC or POE LATCH RETRACTION
	NEW DOOR - SEE DOOR HARDWARE SCHEDULE
	EXISTING DOOR - PULL CABLE ONLY



OVERALL FLOOR PLAN
1/18" = 1'-0"



BAUER ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

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OVERALL FLOOR PLAN

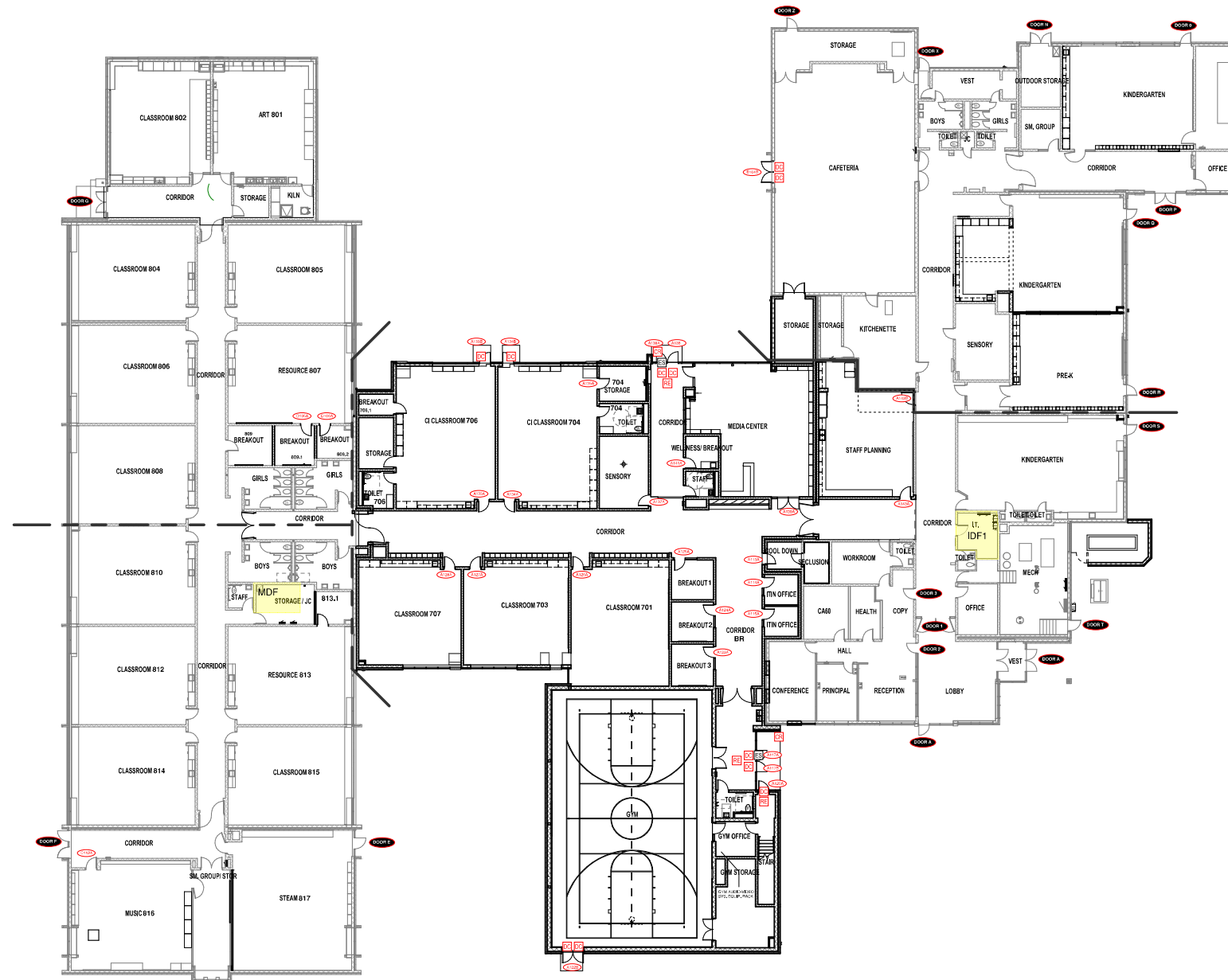
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SECTION 28 13 00 - Building Access System
SYMBOL LEGEND

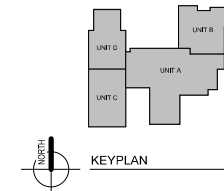
	NEW CARD READER
	NEW DOOR CONTACT
	NEW MOTION REQUEST TO EXIT DEVICE
	ELECTRIC or POE LATCH RETRACTION
	NEW DOOR - SEE DOOR HARDWARE SCHEDULE
	EXISTING DOOR - PULL CABLE ONLY



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
 HUDSONVILLE, MICHIGAN



OVERALL FIRST FLOOR PLAN
 1/16" = 1'-0"



ISSUANCES
 03.23.2023 BIDS &
 CONSTRUCTION

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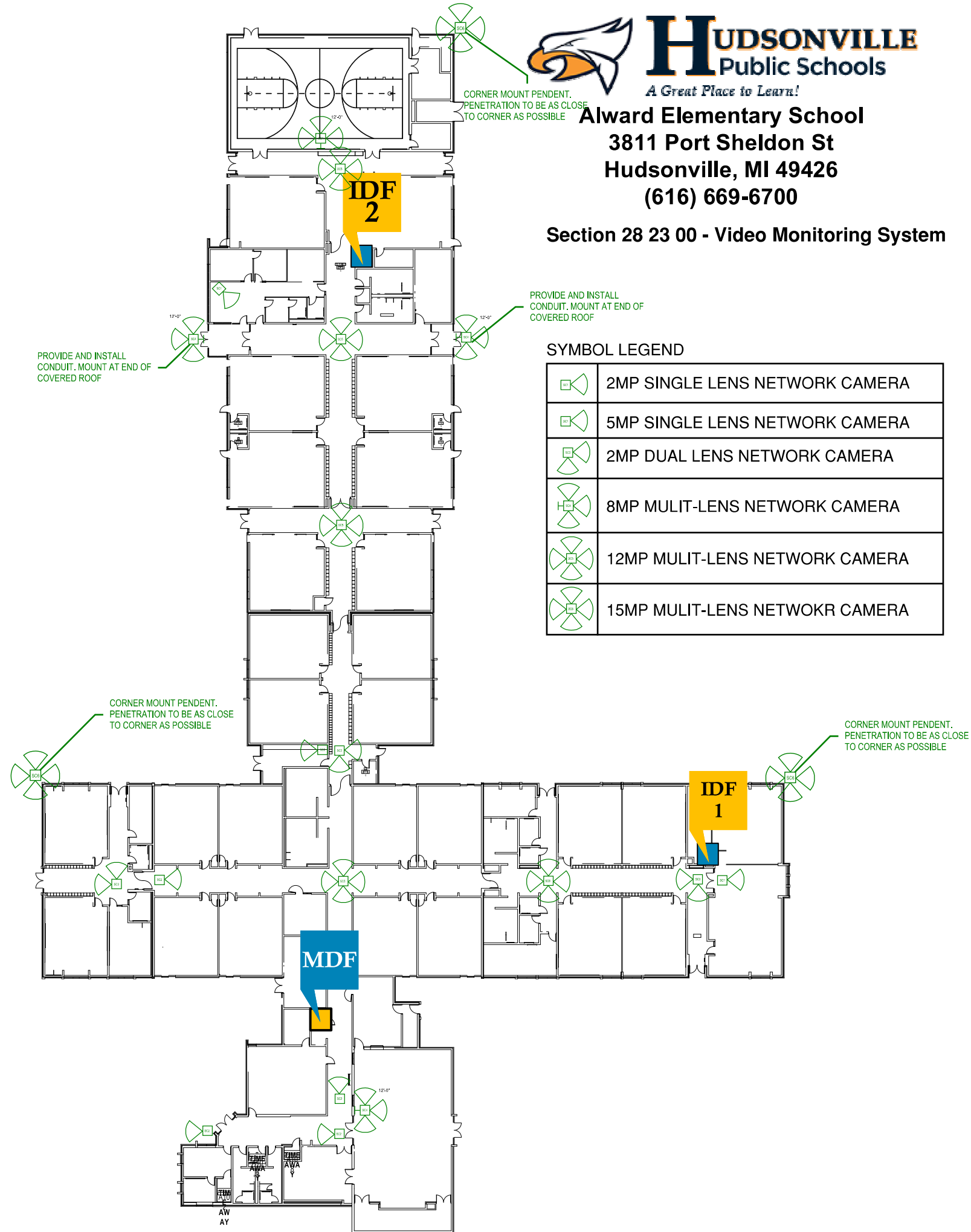
OVERALL FIRST FLOOR PLAN

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
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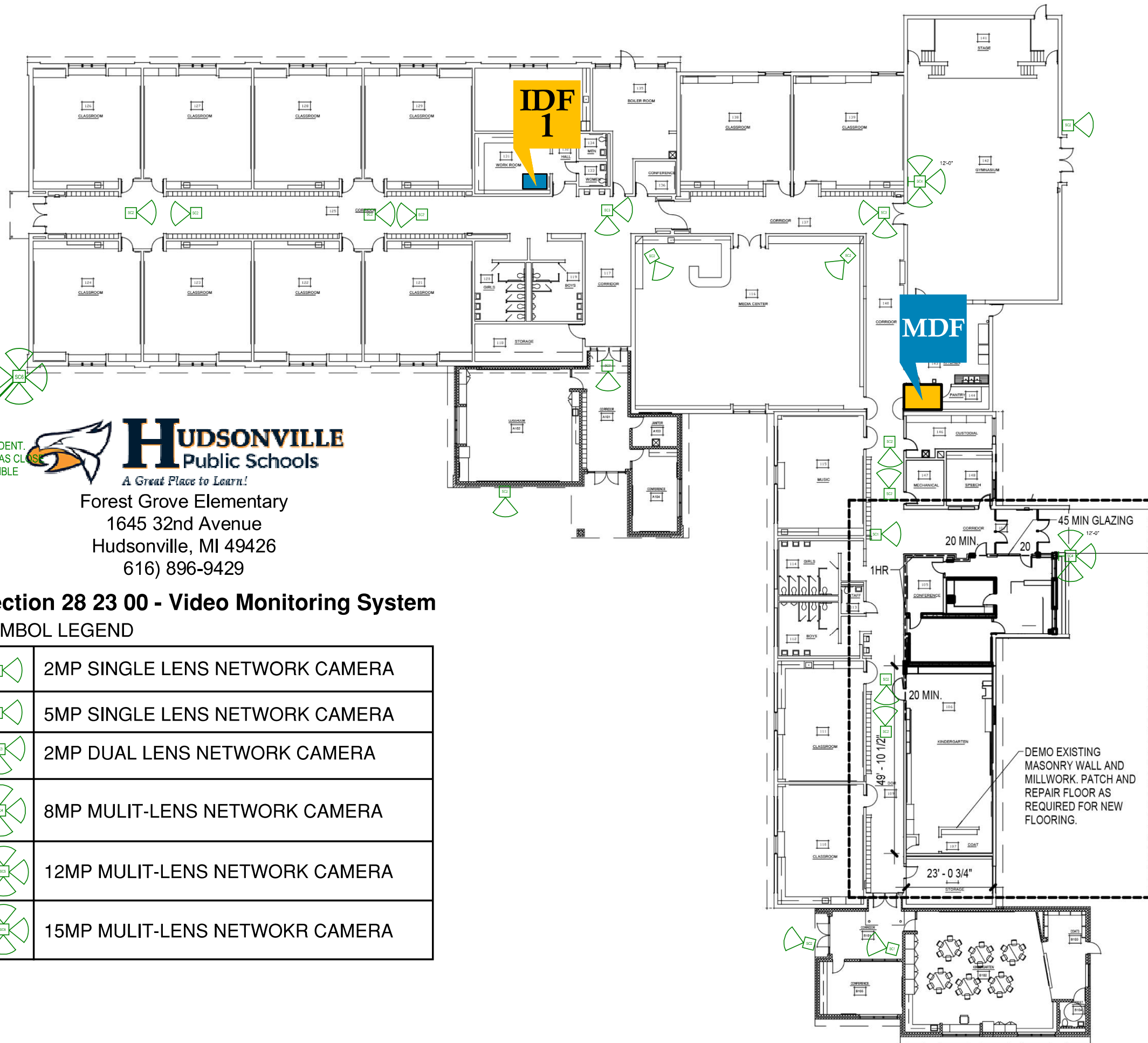
Alward Elementary School
3811 Port Sheldon St
Hudsonville, MI 49426
(616) 669-6700

Section 28 23 00 - Video Monitoring System



SYMBOL LEGEND

	2MP SINGLE LENS NETWORK CAMERA
	5MP SINGLE LENS NETWORK CAMERA
	2MP DUAL LENS NETWORK CAMERA
	8MP MULIT-LENS NETWORK CAMERA
	12MP MULIT-LENS NETWORK CAMERA
	15MP MULIT-LENS NETWORK CAMERA



CORNER MOUNT PENDENT.
PENETRATION TO BE AS CLOSE
TO CORNER AS POSSIBLE



HUDSONVILLE
Public Schools
A Great Place to Learn!

Forest Grove Elementary
1645 32nd Avenue
Hudsonville, MI 49426
616) 896-9429

Section 28 23 00 - Video Monitoring System
SYMBOL LEGEND

	2MP SINGLE LENS NETWORK CAMERA
	5MP SINGLE LENS NETWORK CAMERA
	2MP DUAL LENS NETWORK CAMERA
	8MP MULIT-LENS NETWORK CAMERA
	12MP MULIT-LENS NETWORK CAMERA
	15MP MULIT-LENS NETWORK CAMERA

Georgetown Elementary School

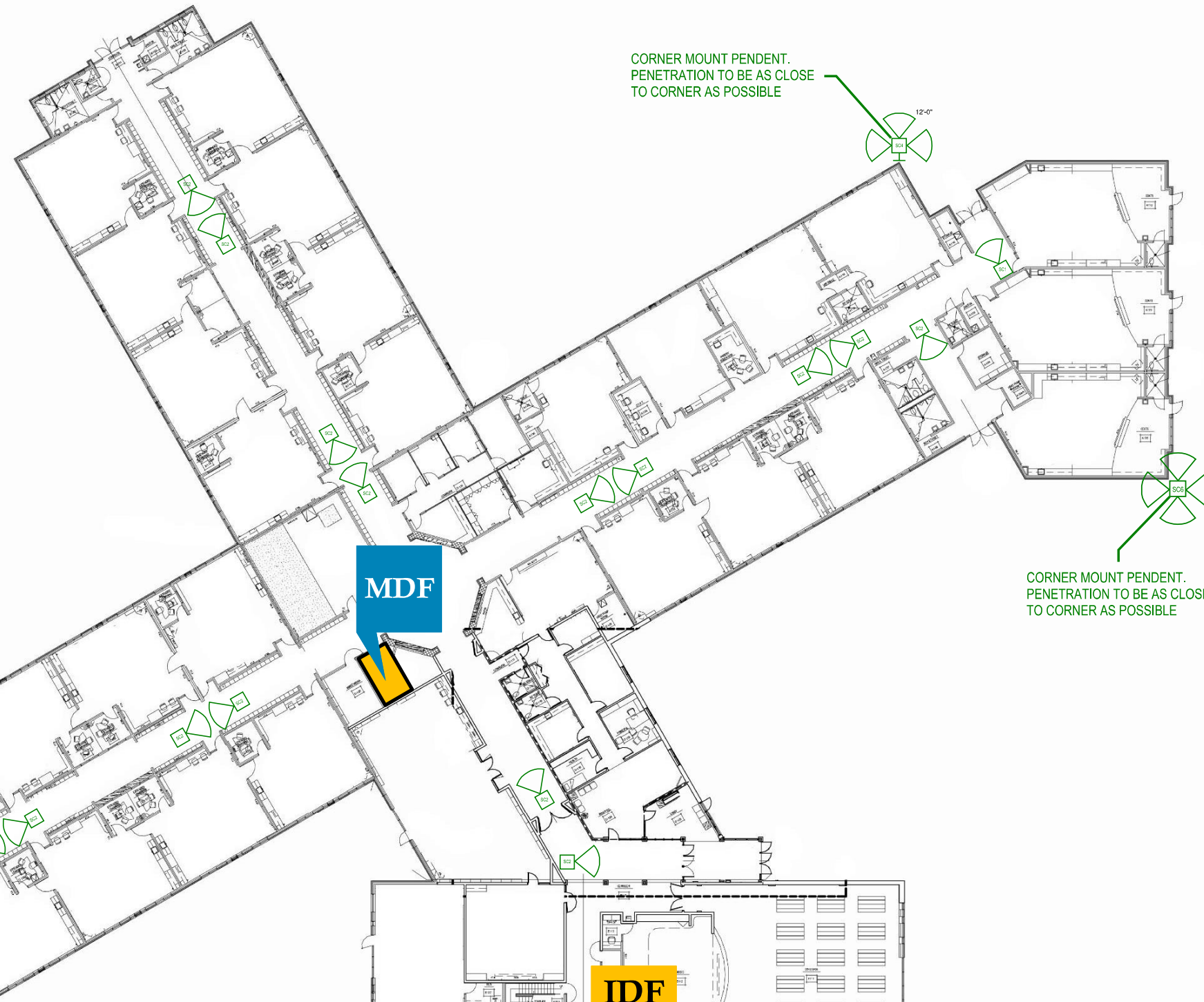
3909 Baldwin Street
Hudsonville, MI 49426

(616) 797-9797

CORNER MOUNT PENDENT.
PENETRATION TO BE AS CLOSE
TO CORNER AS POSSIBLE







CORNER MOUNT PENDENT.
PENETRATION TO BE AS CLOSE
TO CORNER AS POSSIBLE

CORNER MOUNT PENDENT.
PENETRATION TO BE AS CLOSE
TO CORNER AS POSSIBLE



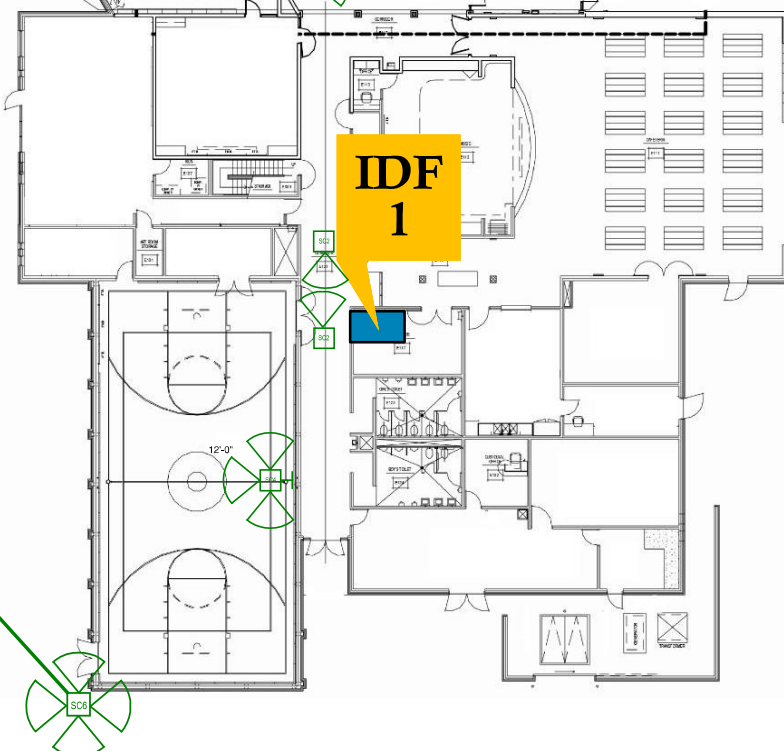
Section 28 23 00 - Video Monitoring System

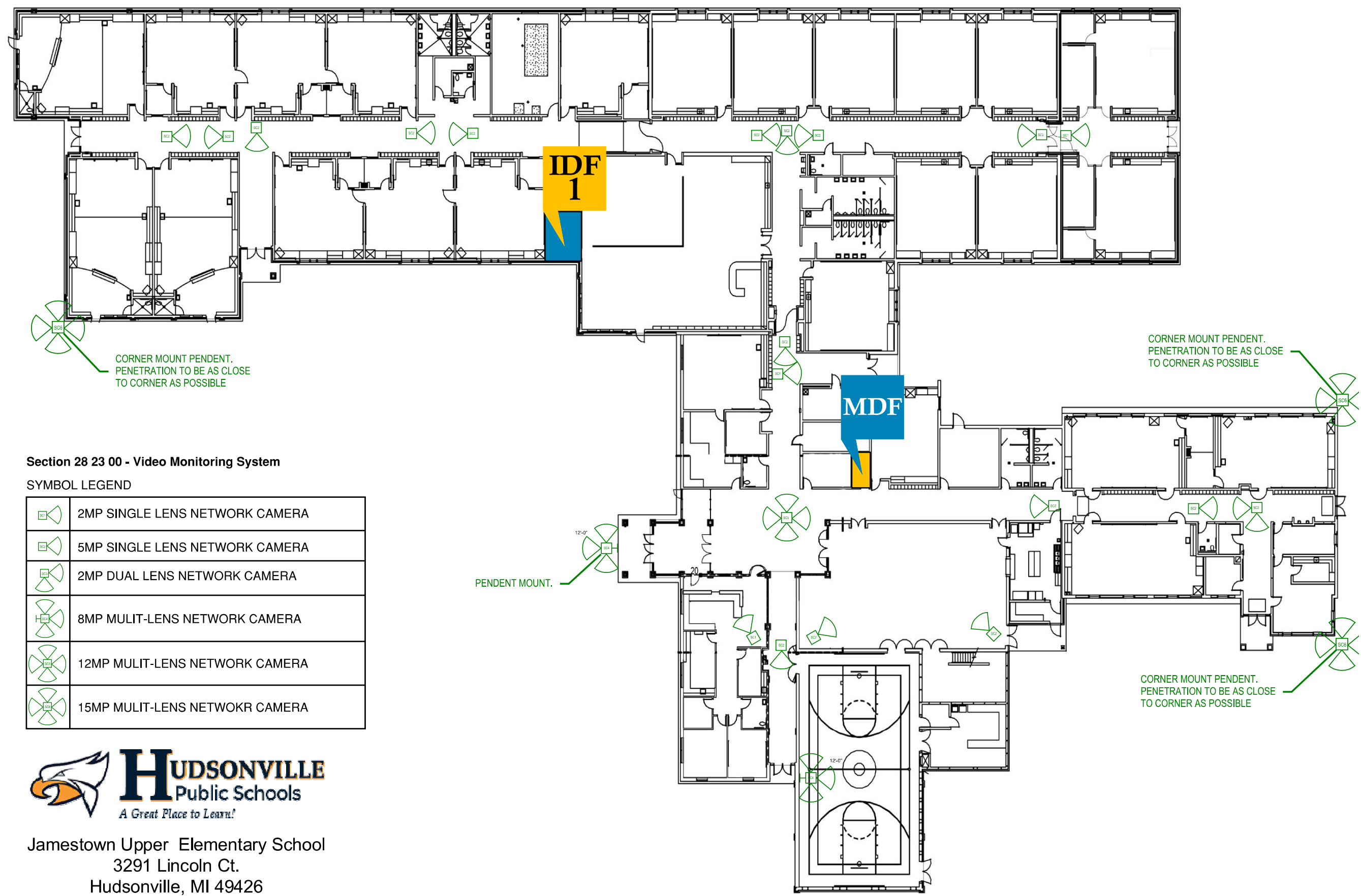
SYMBOL LEGEND

	2MP SINGLE LENS NETWORK CAMERA
	5MP SINGLE LENS NETWORK CAMERA
	2MP DUAL LENS NETWORK CAMERA
	8MP MULIT-LENS NETWORK CAMERA
	12MP MULIT-LENS NETWORK CAMERA
	15MP MULIT-LENS NETWORK CAMERA

**IDF
1**

CORNER MOUNT PENDENT.
PENETRATION TO BE AS CLOSE
TO CORNER AS POSSIBLE





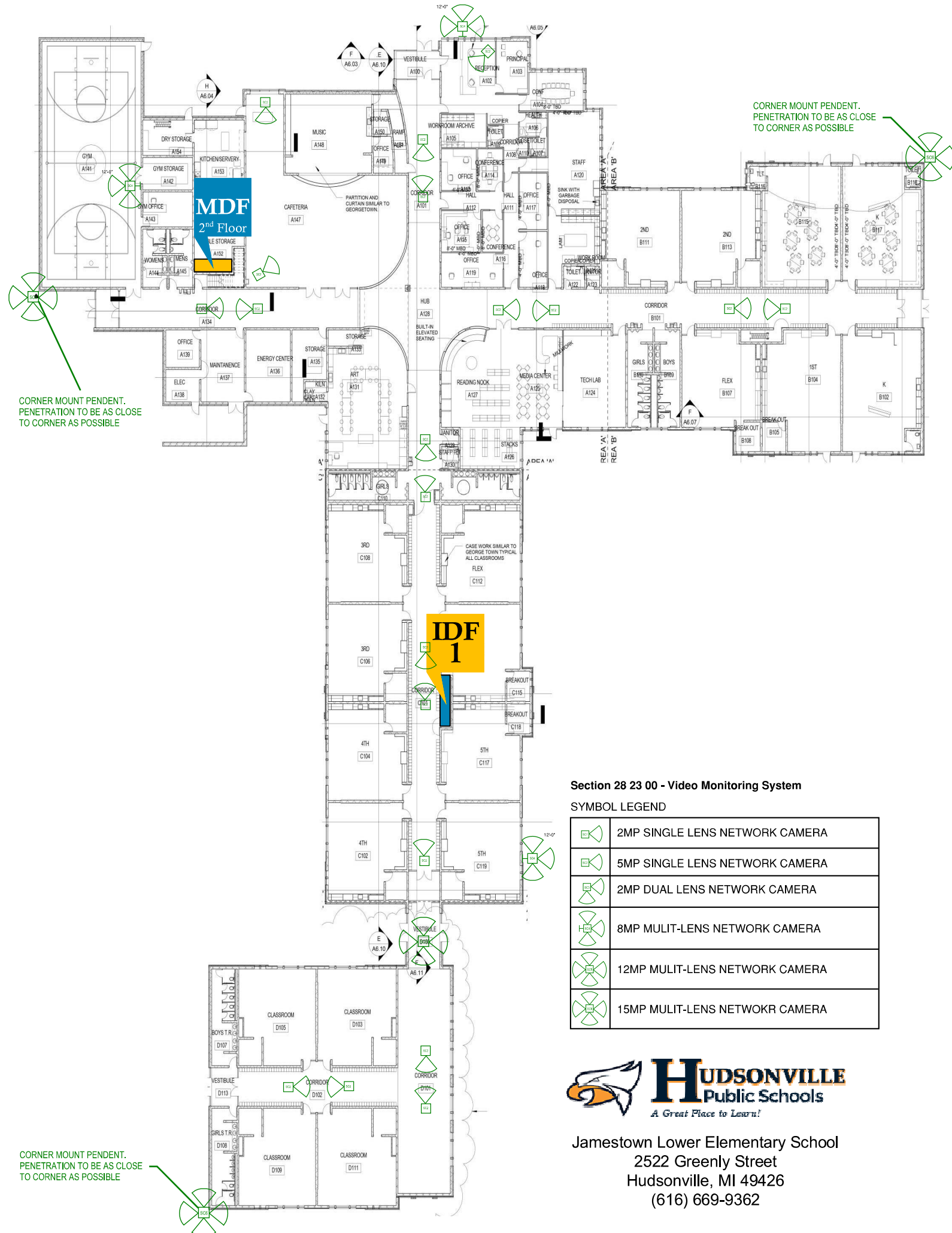
Section 28 23 00 - Video Monitoring System

SYMBOL LEGEND

	2MP SINGLE LENS NETWORK CAMERA
	5MP SINGLE LENS NETWORK CAMERA
	2MP DUAL LENS NETWORK CAMERA
	8MP MULIT-LENS NETWORK CAMERA
	12MP MULIT-LENS NETWORK CAMERA
	15MP MULIT-LENS NETWORK CAMERA



Jamestown Upper Elementary School
 3291 Lincoln Ct.
 Hudsonville, MI 49426
 (616) 896-9375



Section 28 23 00 - Video Monitoring System

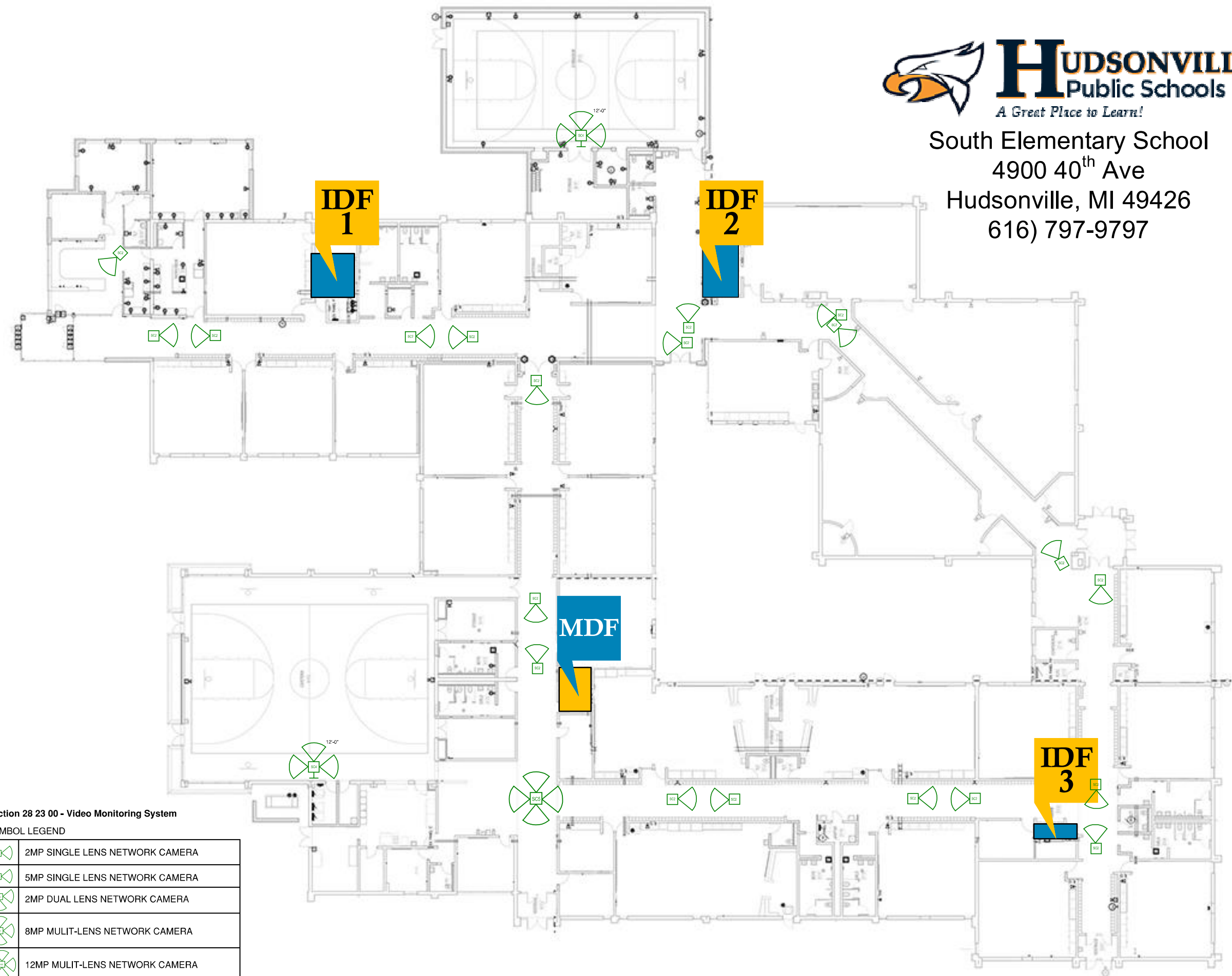
SYMBOL LEGEND

	2MP SINGLE LENS NETWORK CAMERA
	5MP SINGLE LENS NETWORK CAMERA
	2MP DUAL LENS NETWORK CAMERA
	8MP MULT-LENS NETWORK CAMERA
	12MP MULT-LENS NETWORK CAMERA
	15MP MULT-LENS NETWORK CAMERA









Jamestown Lower Elementary School
 2522 Greenly Street
 Hudsonville, MI 49426
 (616) 669-9362

South Elementary School
4900 40th Ave
Hudsonville, MI 49426
616) 797-9797



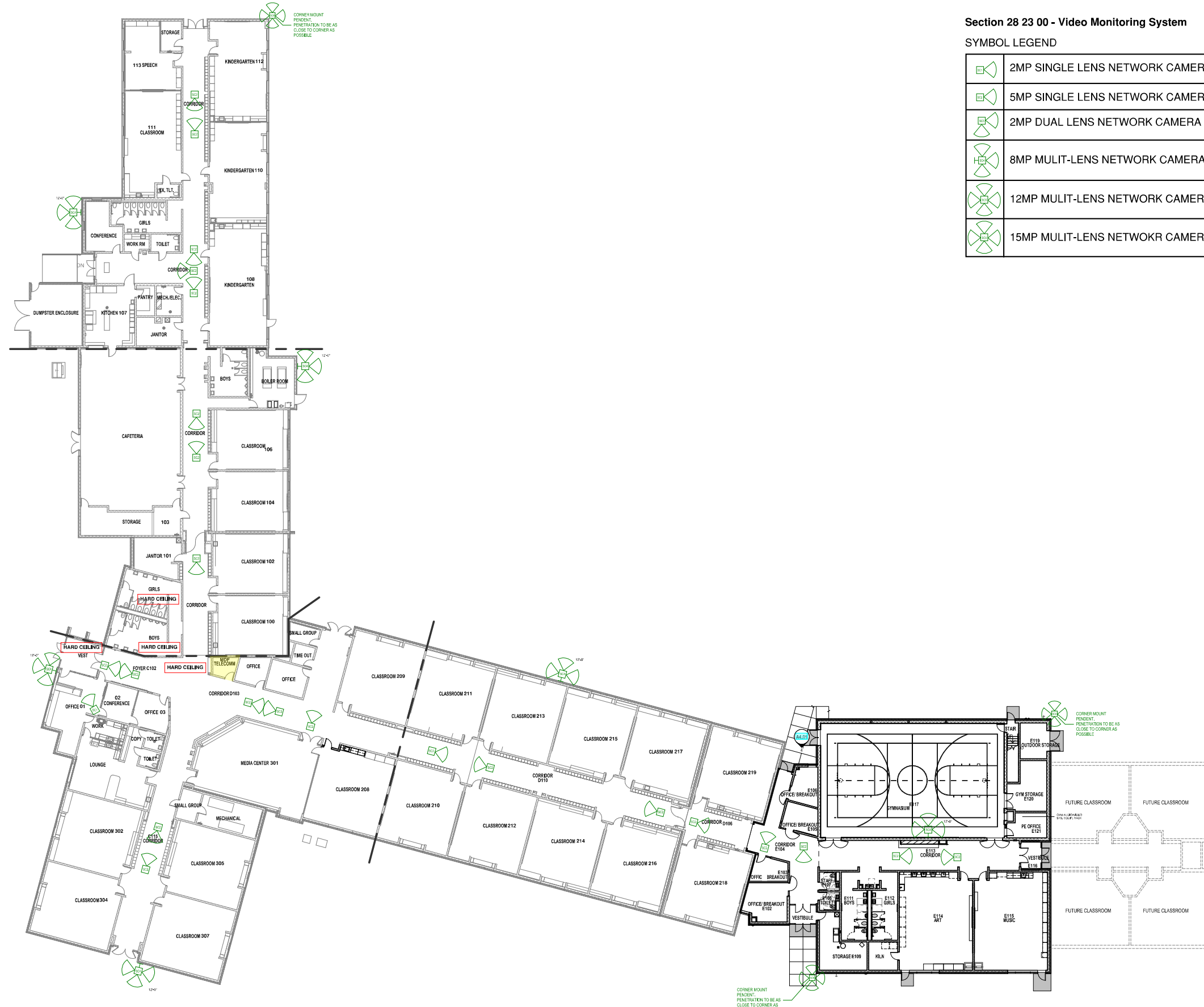
Section 28 23 00 - Video Monitoring System
SYMBOL LEGEND

	2MP SINGLE LENS NETWORK CAMERA
	5MP SINGLE LENS NETWORK CAMERA
	2MP DUAL LENS NETWORK CAMERA
	8MP MULIT-LENS NETWORK CAMERA
	12MP MULIT-LENS NETWORK CAMERA
	15MP MULIT-LENS NETWORK CAMERA

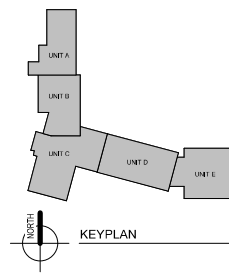
Section 28 23 00 - Video Monitoring System

SYMBOL LEGEND

	2MP SINGLE LENS NETWORK CAMERA
	5MP SINGLE LENS NETWORK CAMERA
	2MP DUAL LENS NETWORK CAMERA
	8MP MULT-LENS NETWORK CAMERA
	12MP MULT-LENS NETWORK CAMERA
	15MP MULT-LENS NETWORK CAMERA



OVERALL FLOOR PLAN
 1/16" = 1'-0"



BAUER ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
 HUDSONVILLE, MICHIGAN

ISSUANCES

10.04.2022	BIDS AND CONSTRUCTION
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DRAWN	MEE
REVIEWED	TGD
PROJECT NO.	5-5769







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OVERALL FLOOR PLAN

BIM 360://5-5769 Hudsonville Bauer Elementary Classroom & Gym Additions-5769A_2019.rvt
 1/14/2022 6:16:14 PM

Section 28 23 00 - Video Monitoring System

SYMBOL LEGEND

	2MP SINGLE LENS NETWORK CAMERA
	5MP SINGLE LENS NETWORK CAMERA
	2MP DUAL LENS NETWORK CAMERA
	8MP MULT-LENS NETWORK CAMERA
	12MP MULT-LENS NETWORK CAMERA
	15MP MULT-LENS NETWORK CAMERA

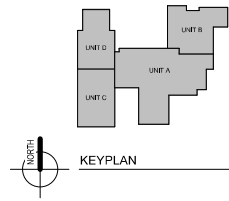


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PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN



OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"



KEYPLAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

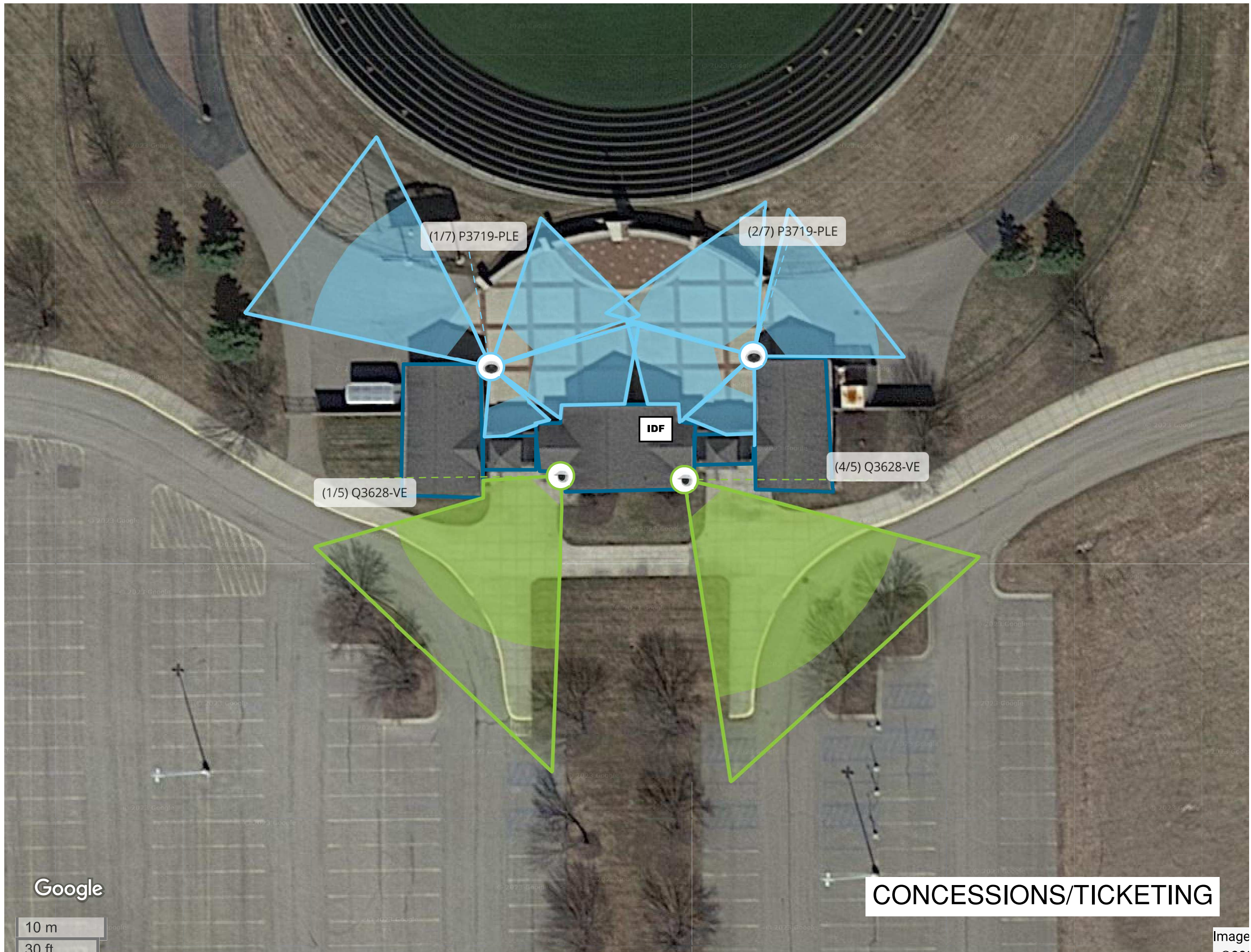
DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5798
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OVERALL FIRST FLOOR PLAN

A0.01

BM 36016-5798 Hudsonville Park Elementary Additions & Renovations 5/7/2023 12:02:37 AM



(1/7) P3719-PLE

(2/7) P3719-PLE

IDF

(1/5) Q3628-VE

(4/5) Q3628-VE

Google

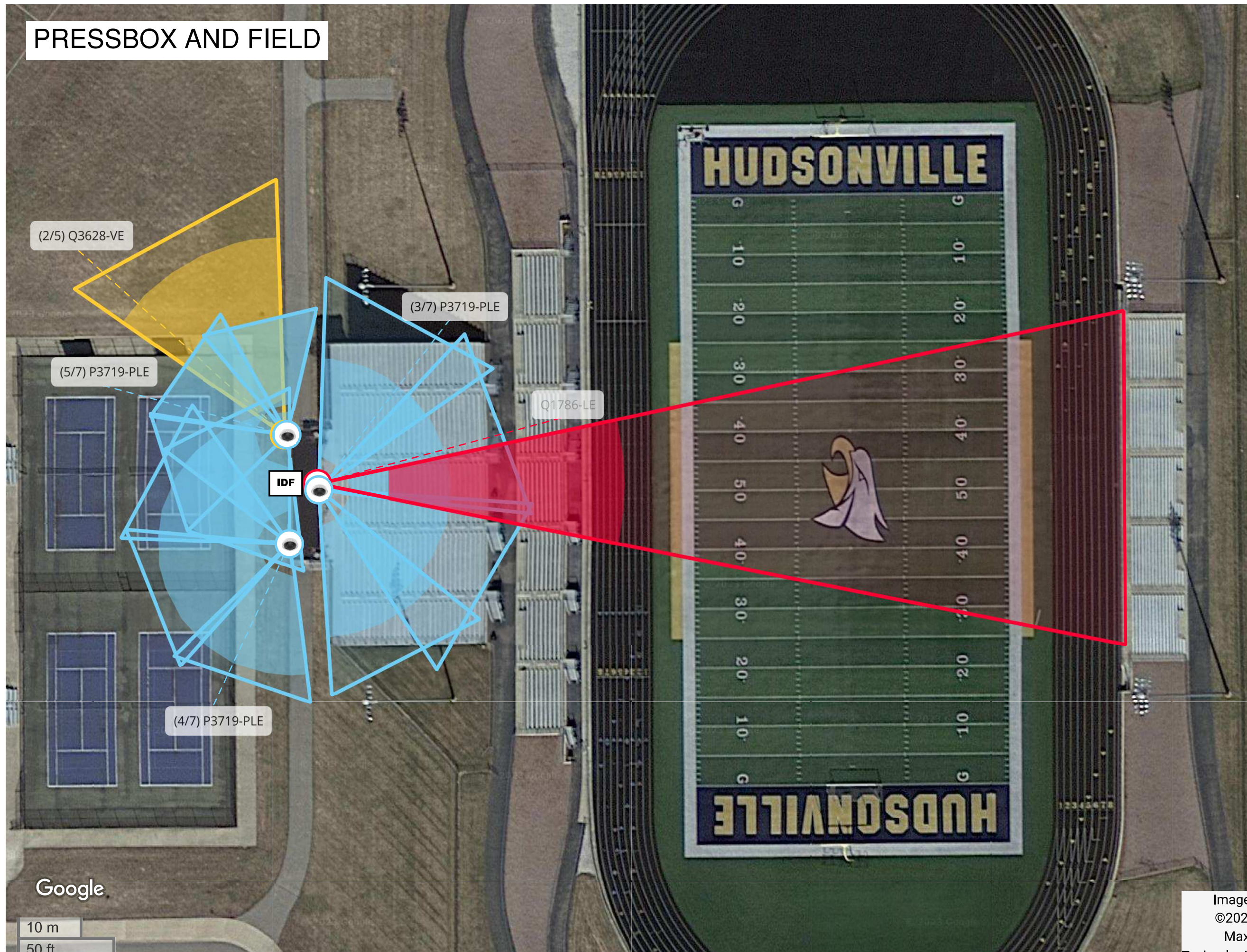
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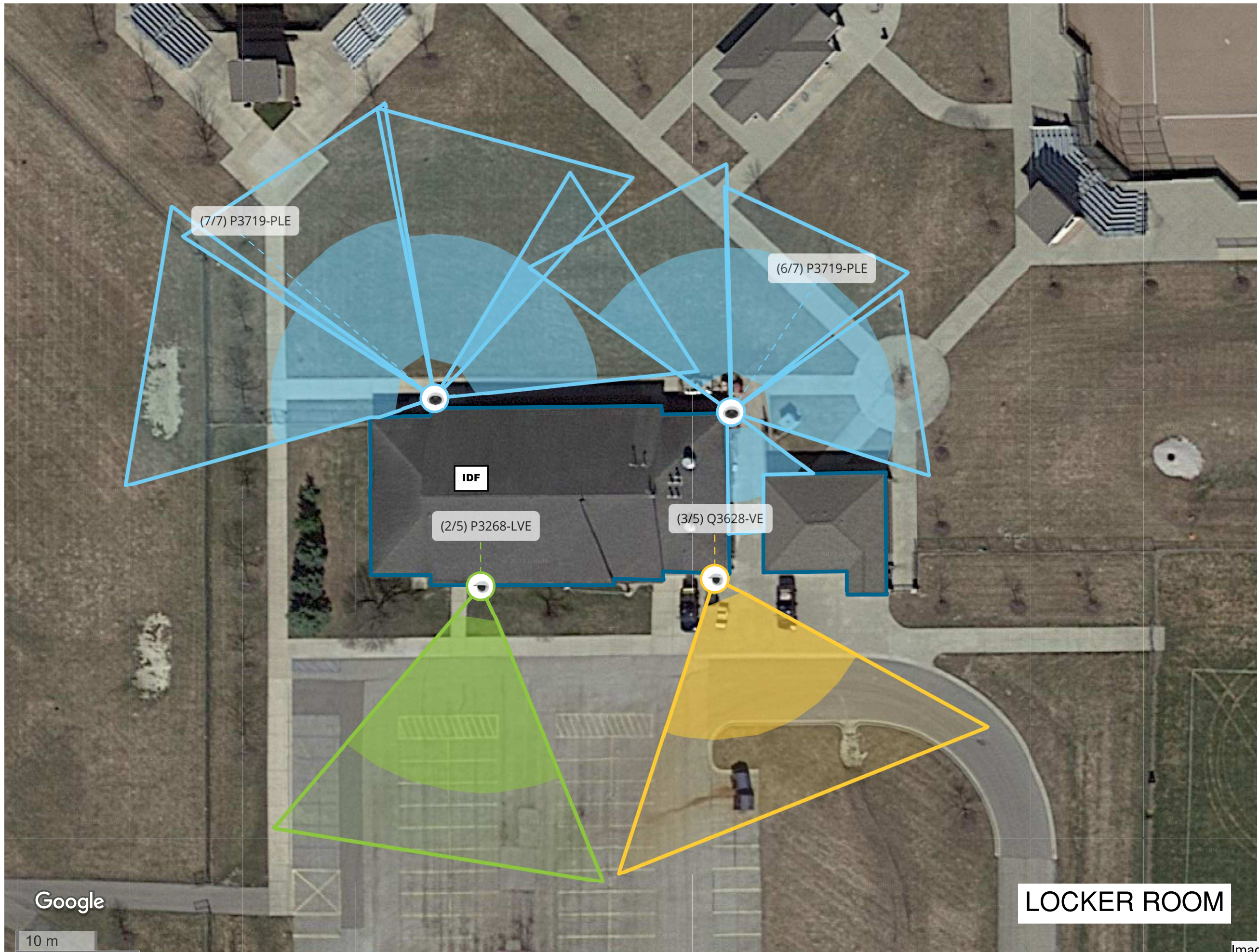
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CONCESSIONS/TICKETING

Image
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PRESSBOX AND FIELD





(7/7) P3719-PLE

(6/7) P3719-PLE

IDF

(2/5) P3268-LVE

(3/5) Q3628-VE

LOCKER ROOM

Google

10 m
50 ft

Image
666

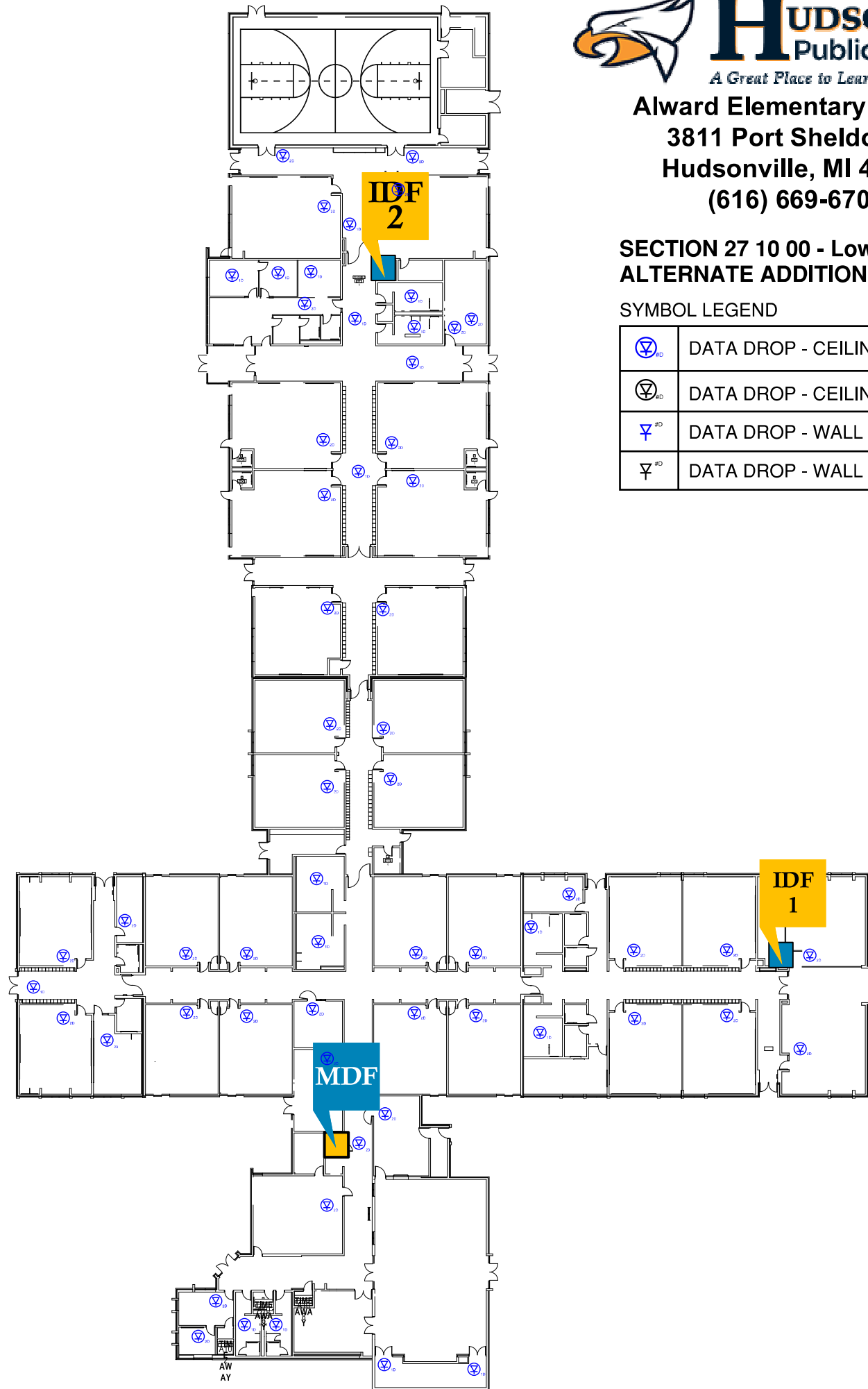


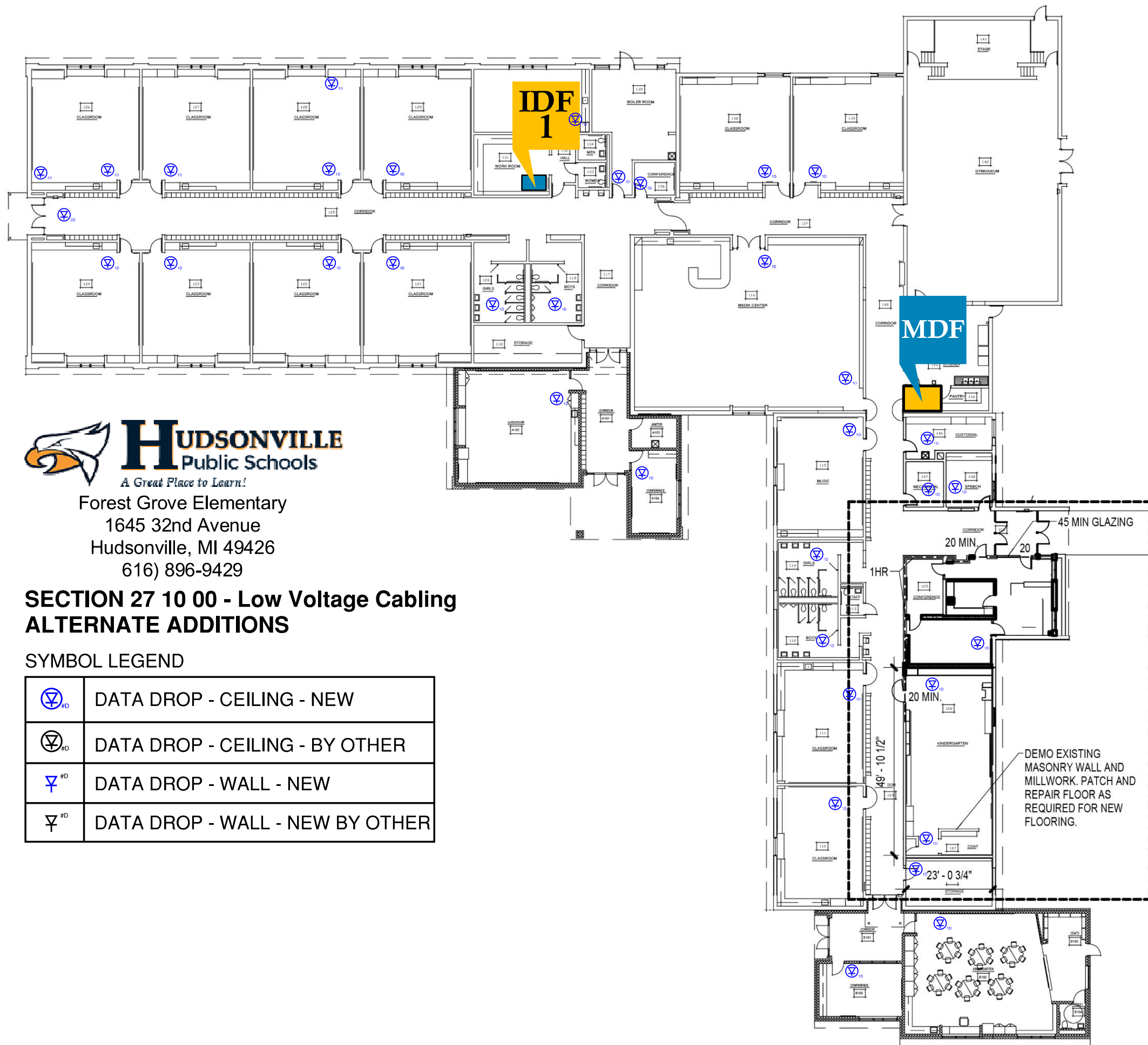
Alward Elementary School
3811 Port Sheldon St
Hudsonville, MI 49426
(616) 669-6700

SECTION 27 10 00 - Low Voltage Cabling
ALTERNATE ADDITIONS

SYMBOL LEGEND

	DATA DROP - CEILING - NEW
	DATA DROP - CEILING - BY OTHER
	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER





Forest Grove Elementary
 1645 32nd Avenue
 Hudsonville, MI 49426
 616) 896-9429

**SECTION 27 10 00 - Low Voltage Cabling
 ALTERNATE ADDITIONS**

SYMBOL LEGEND

	DATA DROP - CEILING - NEW
	DATA DROP - CEILING - BY OTHER
	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER



Georgetown Elementary School

3909 Baldwin Street
Hudsonville, MI 49426

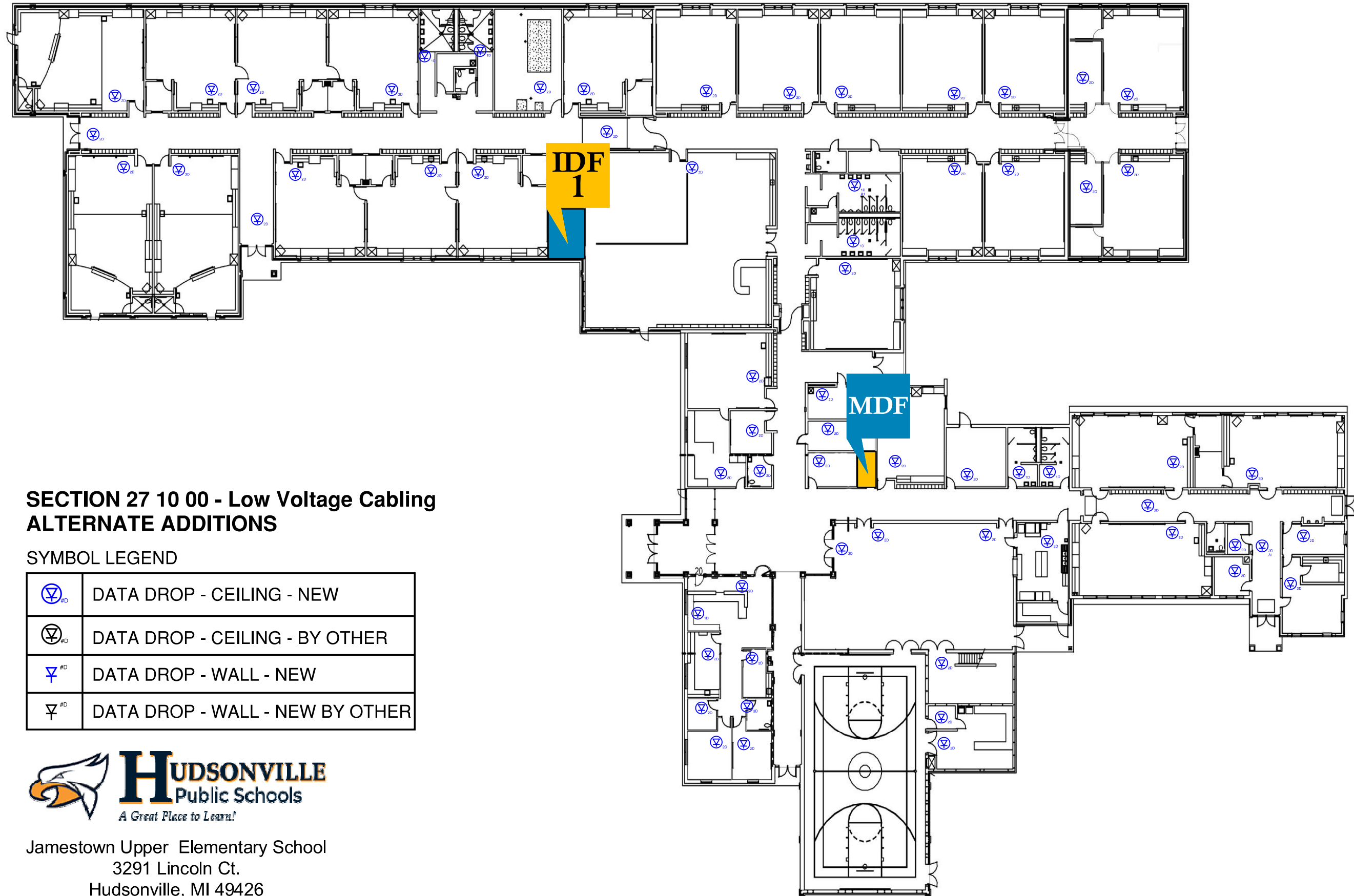
(616) 797-9797

SECTION 27 10 00 - Low Voltage Cabling

SYMBOL LEGEND

	DATA DROP - CEILING - NEW
	DATA DROP - CEILING - BY OTHER
	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER





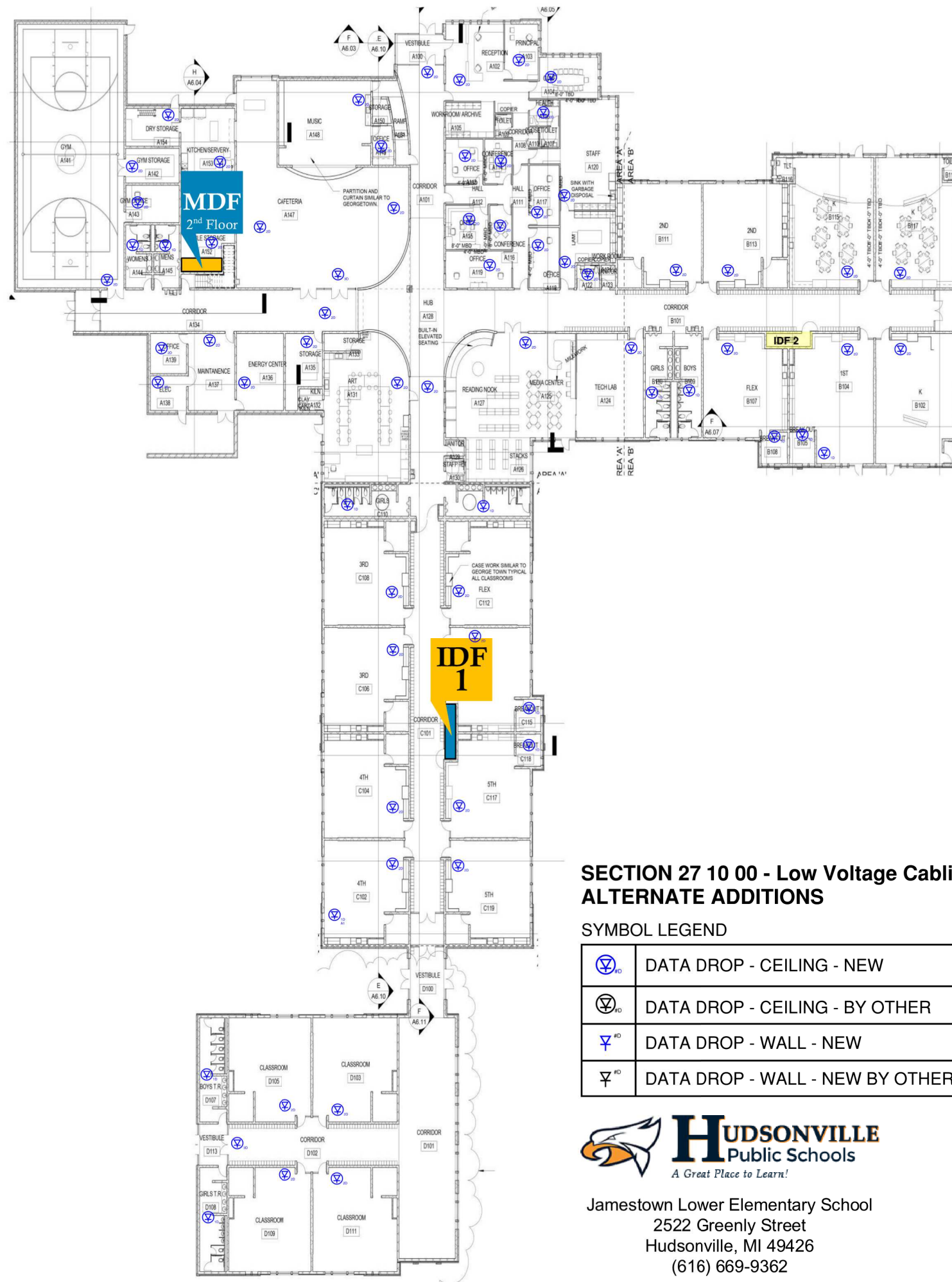
**SECTION 27 10 00 - Low Voltage Cabling
ALTERNATE ADDITIONS**

SYMBOL LEGEND

	DATA DROP - CEILING - NEW
	DATA DROP - CEILING - BY OTHER
	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER



Jamestown Upper Elementary School
 3291 Lincoln Ct.
 Hudsonville, MI 49426
 (616) 896-9375



**SECTION 27 10 00 - Low Voltage Cabling
ALTERNATE ADDITIONS**

SYMBOL LEGEND

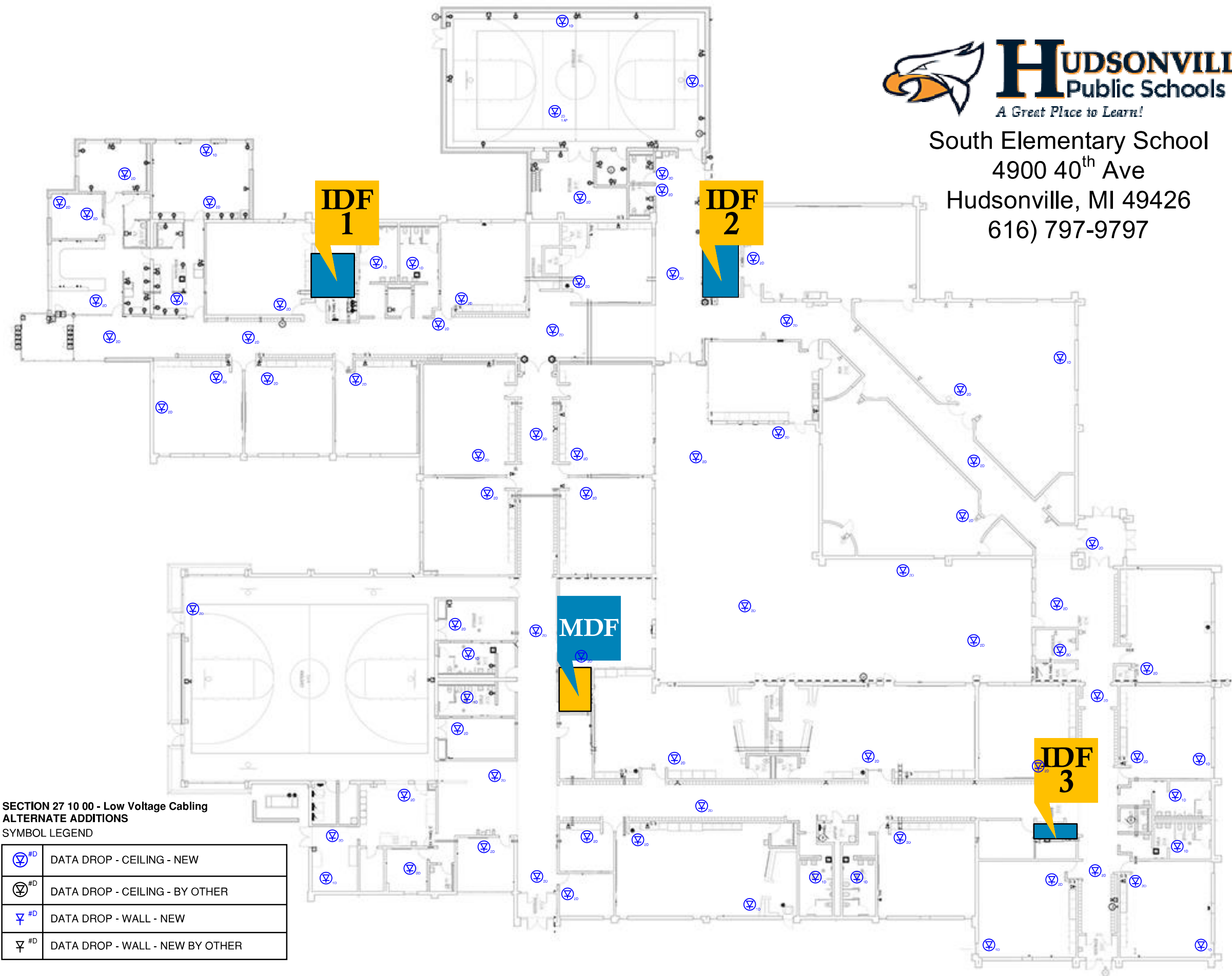
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	DATA DROP - CEILING - BY OTHER
	DATA DROP - WALL - NEW
	DATA DROP - WALL - NEW BY OTHER



Jamestown Lower Elementary School
2522 Greenly Street
Hudsonville, MI 49426
(616) 669-9362



South Elementary School
 4900 40th Ave
 Hudsonville, MI 49426
 616) 797-9797







SECTION 27 10 00 - Low Voltage Cabling
ALTERNATE ADDITIONS
 SYMBOL LEGEND

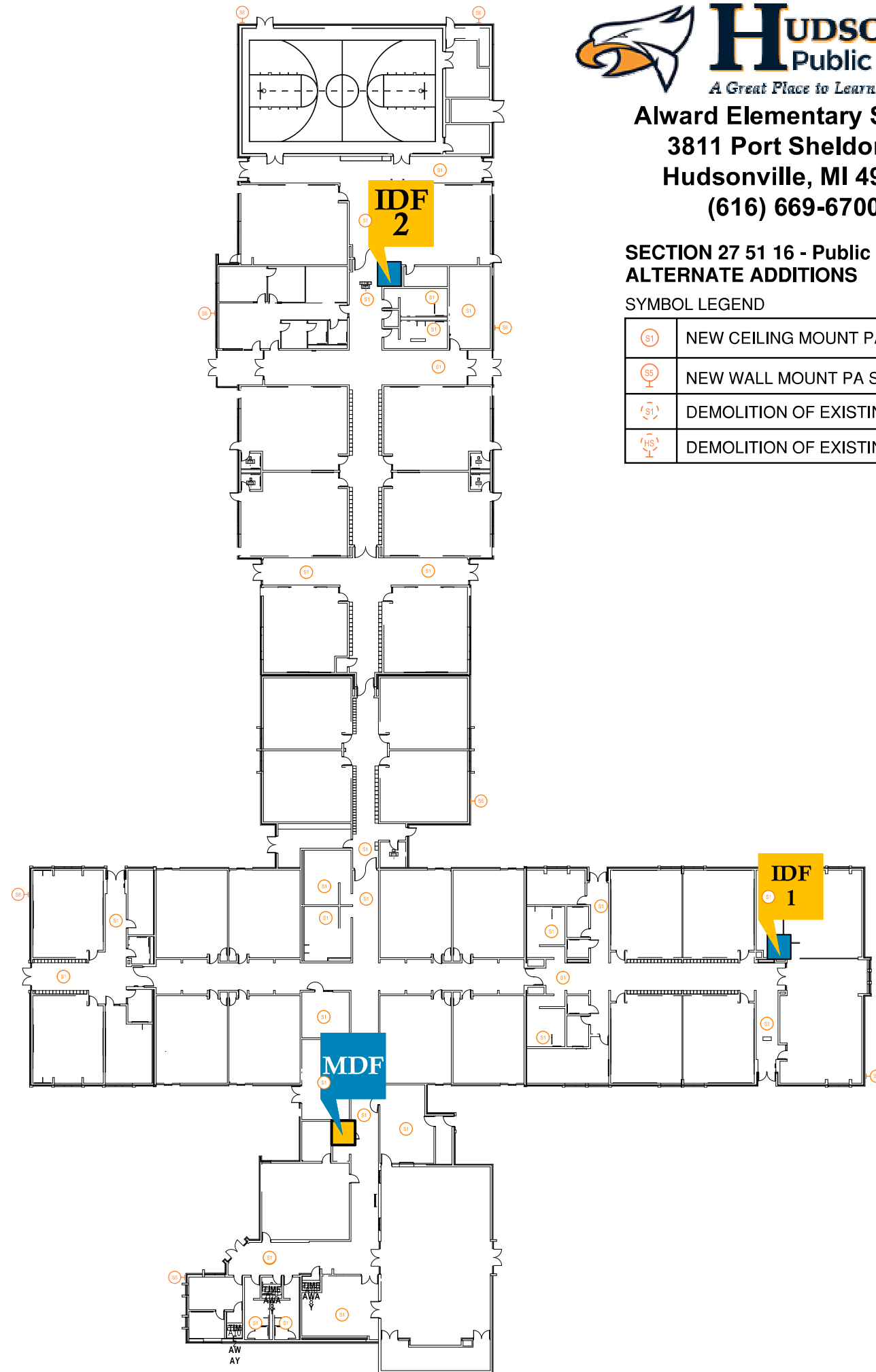
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	DATA DROP - CEILING - BY OTHER
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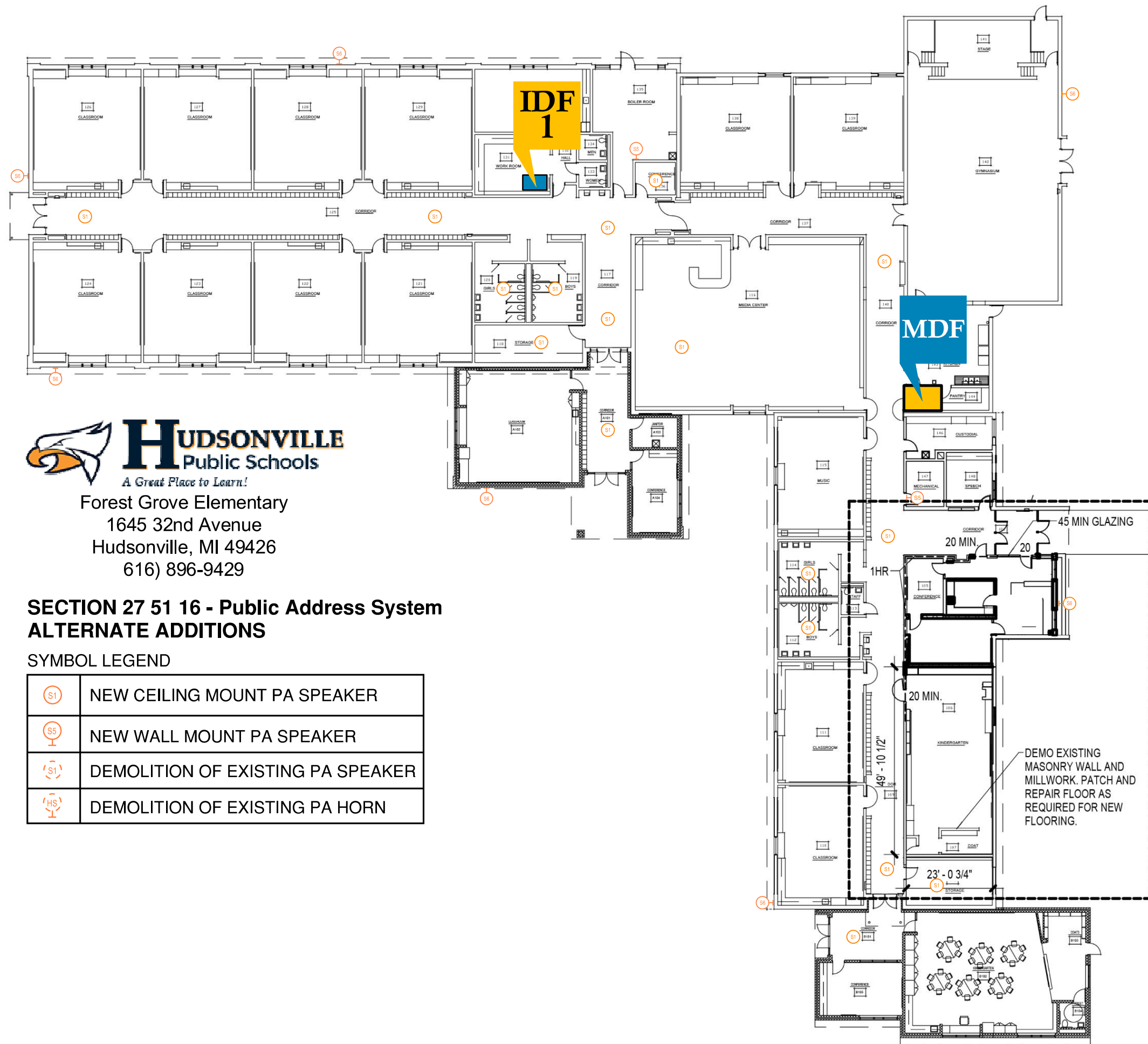
Alward Elementary School
3811 Port Sheldon St
Hudsonville, MI 49426
(616) 669-6700

**SECTION 27 51 16 - Public Address System
ALTERNATE ADDITIONS**

SYMBOL LEGEND

	NEW CEILING MOUNT PA SPEAKER
	NEW WALL MOUNT PA SPEAKER
	DEMOLITION OF EXISTING PA SPEAKER
	DEMOLITION OF EXISTING PA HORN





Forest Grove Elementary
 1645 32nd Avenue
 Hudsonville, MI 49426
 616) 896-9429

**SECTION 27 51 16 - Public Address System
 ALTERNATE ADDITIONS**

SYMBOL LEGEND

	NEW CEILING MOUNT PA SPEAKER
	NEW WALL MOUNT PA SPEAKER
	DEMOLITION OF EXISTING PA SPEAKER
	DEMOLITION OF EXISTING PA HORN



Georgetown Elementary School

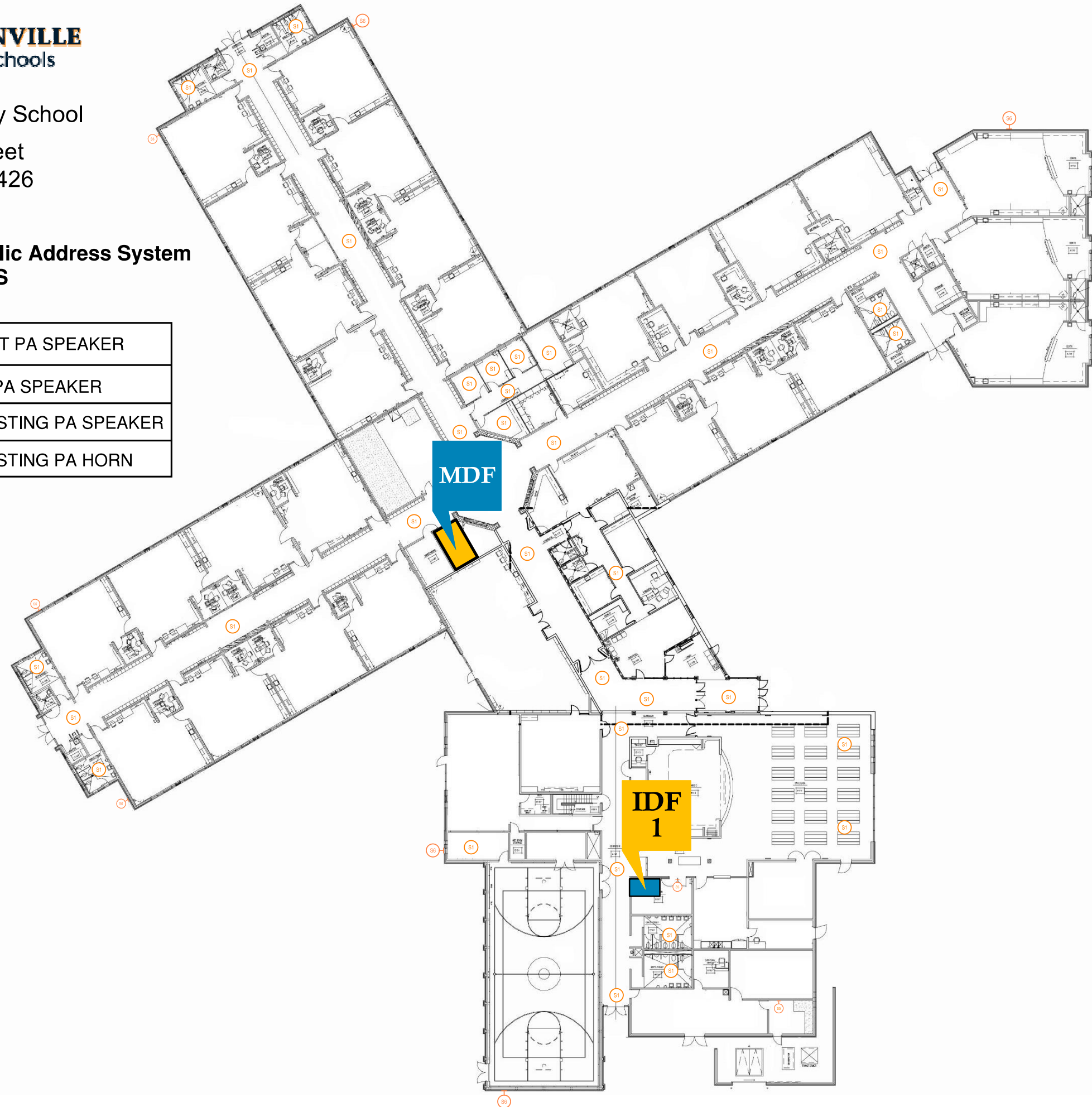
3909 Baldwin Street
Hudsonville, MI 49426

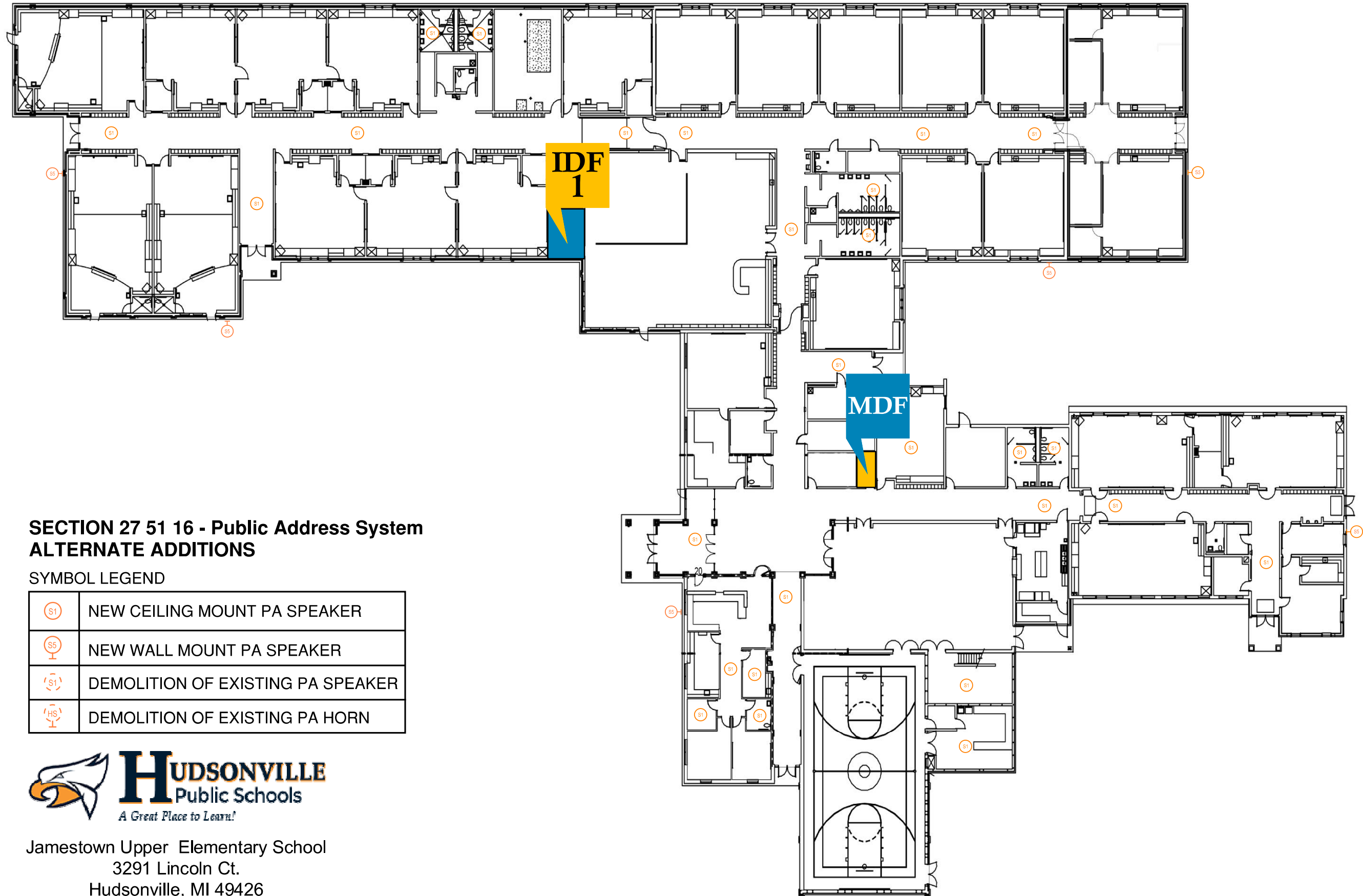
(616) 797-9797

**SECTION 27 51 16 - Public Address System
ALTERNATE ADDITIONS**

SYMBOL LEGEND

	NEW CEILING MOUNT PA SPEAKER
	NEW WALL MOUNT PA SPEAKER
	DEMOLITION OF EXISTING PA SPEAKER
	DEMOLITION OF EXISTING PA HORN





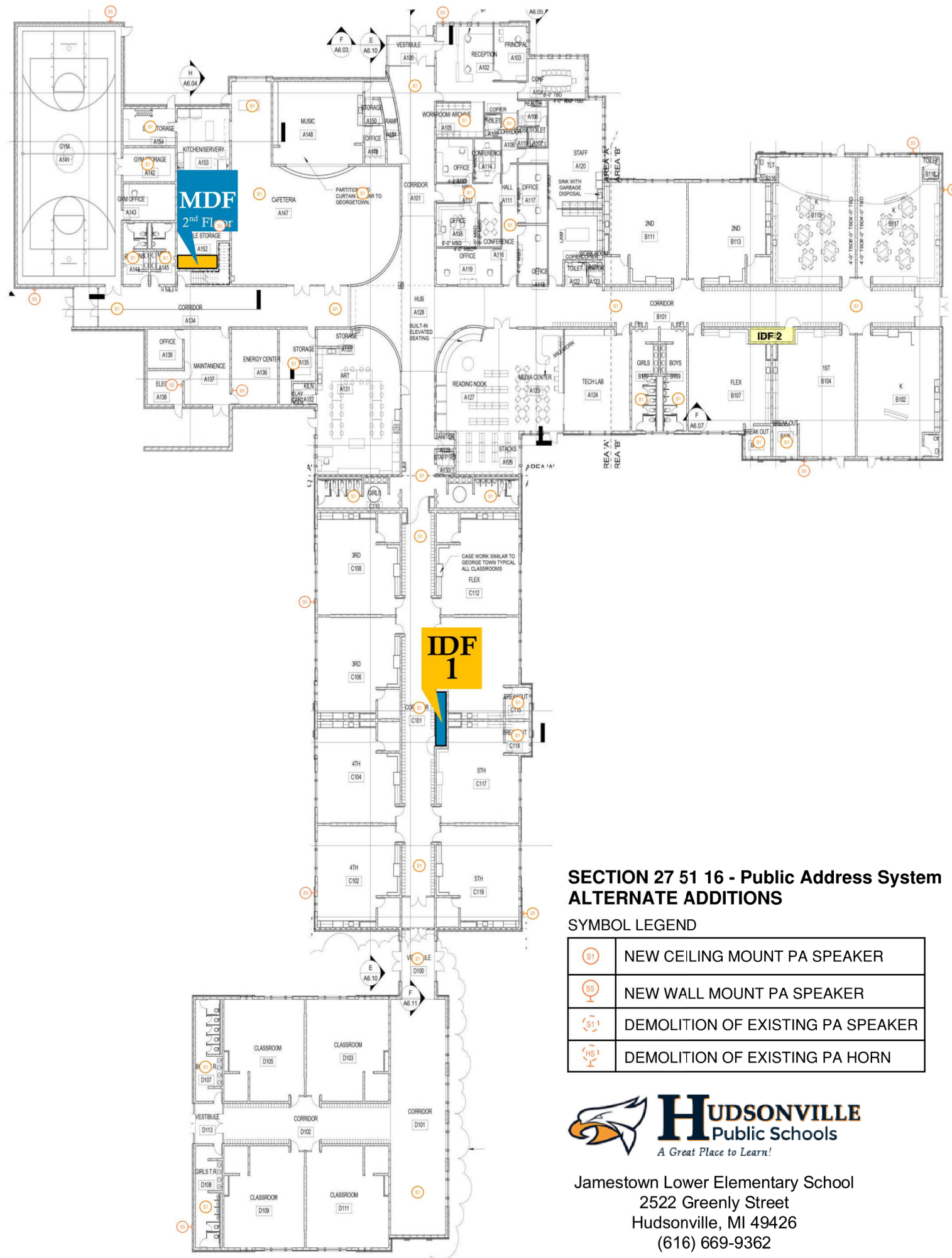
**SECTION 27 51 16 - Public Address System
ALTERNATE ADDITIONS**

SYMBOL LEGEND

	NEW CEILING MOUNT PA SPEAKER
	NEW WALL MOUNT PA SPEAKER
	DEMOLITION OF EXISTING PA SPEAKER
	DEMOLITION OF EXISTING PA HORN



Jamestown Upper Elementary School
3291 Lincoln Ct.
Hudsonville, MI 49426
(616) 896-9375



**SECTION 27 51 16 - Public Address System
ALTERNATE ADDITIONS**

SYMBOL LEGEND

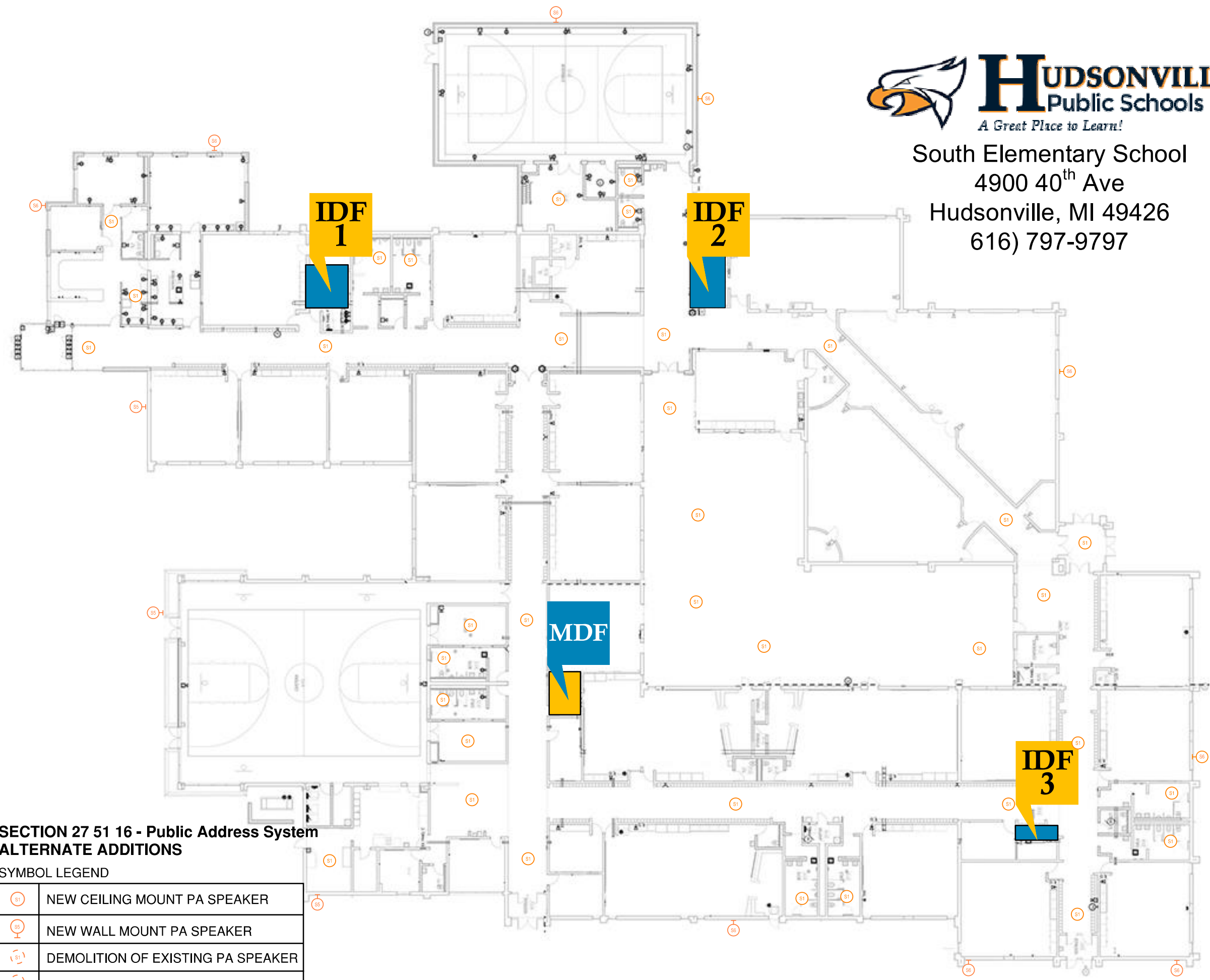
	NEW CEILING MOUNT PA SPEAKER
	NEW WALL MOUNT PA SPEAKER
	DEMOLITION OF EXISTING PA SPEAKER
	DEMOLITION OF EXISTING PA HORN



Jamestown Lower Elementary School
2522 Greenly Street
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(616) 669-9362



South Elementary School
4900 40th Ave
Hudsonville, MI 49426
616) 797-9797



**SECTION 27 51 16 - Public Address System
ALTERNATE ADDITIONS**





SYMBOL LEGEND

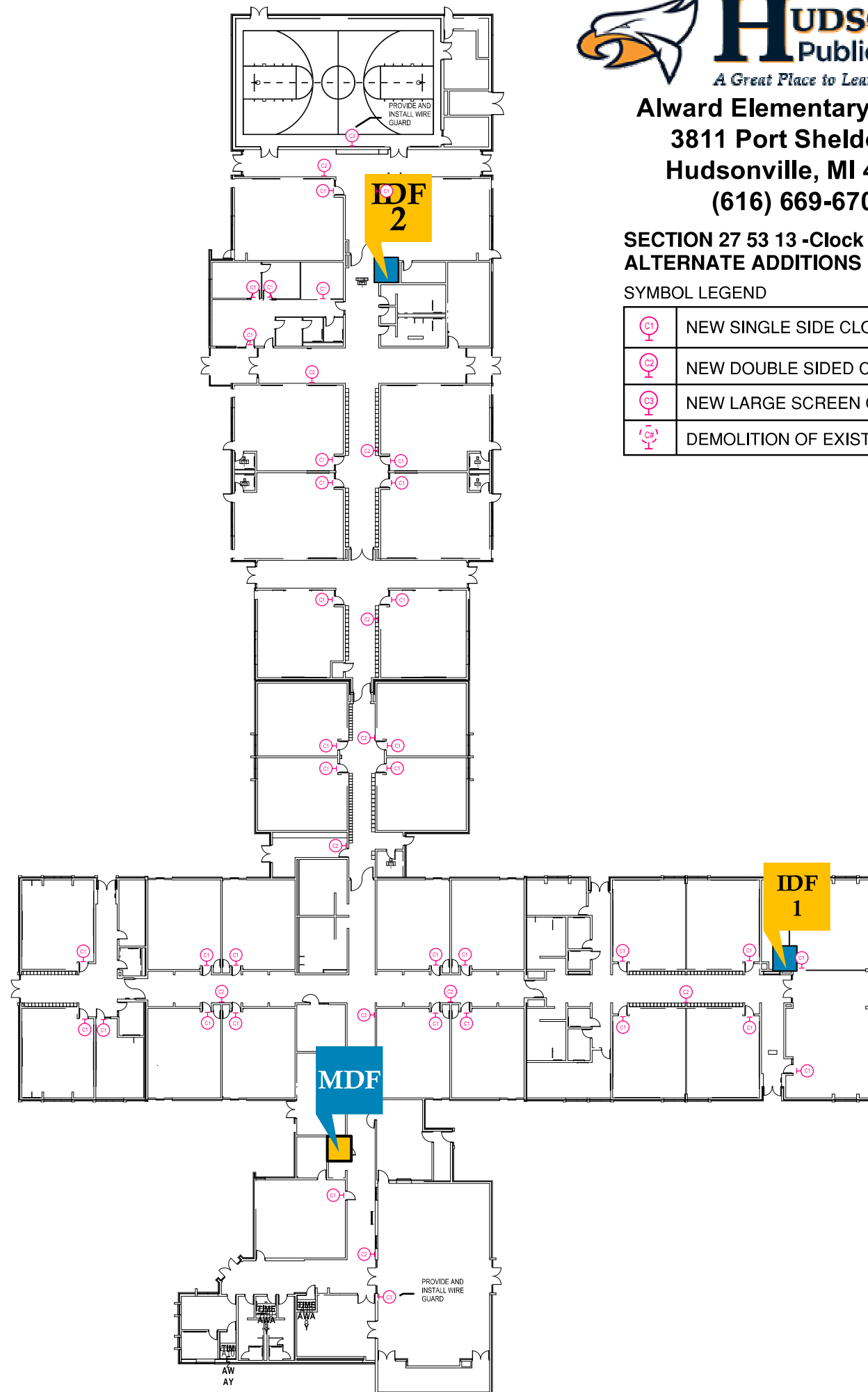
	NEW CEILING MOUNT PA SPEAKER
	NEW WALL MOUNT PA SPEAKER
	DEMOLITION OF EXISTING PA SPEAKER
	DEMOLITION OF EXISTING PA HORN

Alward Elementary School
3811 Port Sheldon St
Hudsonville, MI 49426
(616) 669-6700

**SECTION 27 53 13 -Clock System
ALTERNATE ADDITIONS**

SYMBOL LEGEND

	NEW SINGLE SIDE CLOCK
	NEW DOUBLE SIDED CLOCK
	NEW LARGE SCREEN CLOCK
	DEMOLITION OF EXISTING CLOCK





Georgetown Elementary School

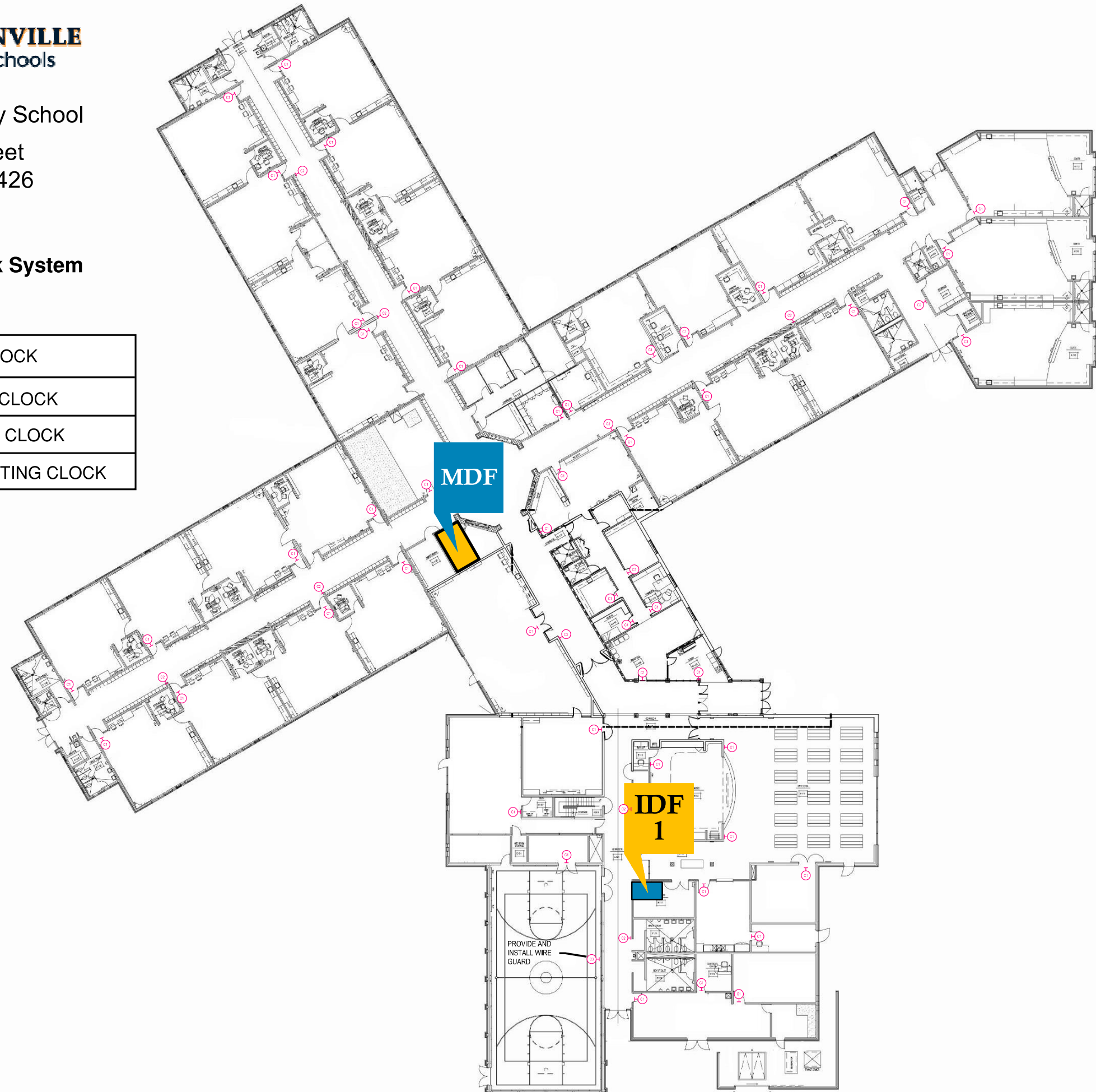
3909 Baldwin Street
Hudsonville, MI 49426

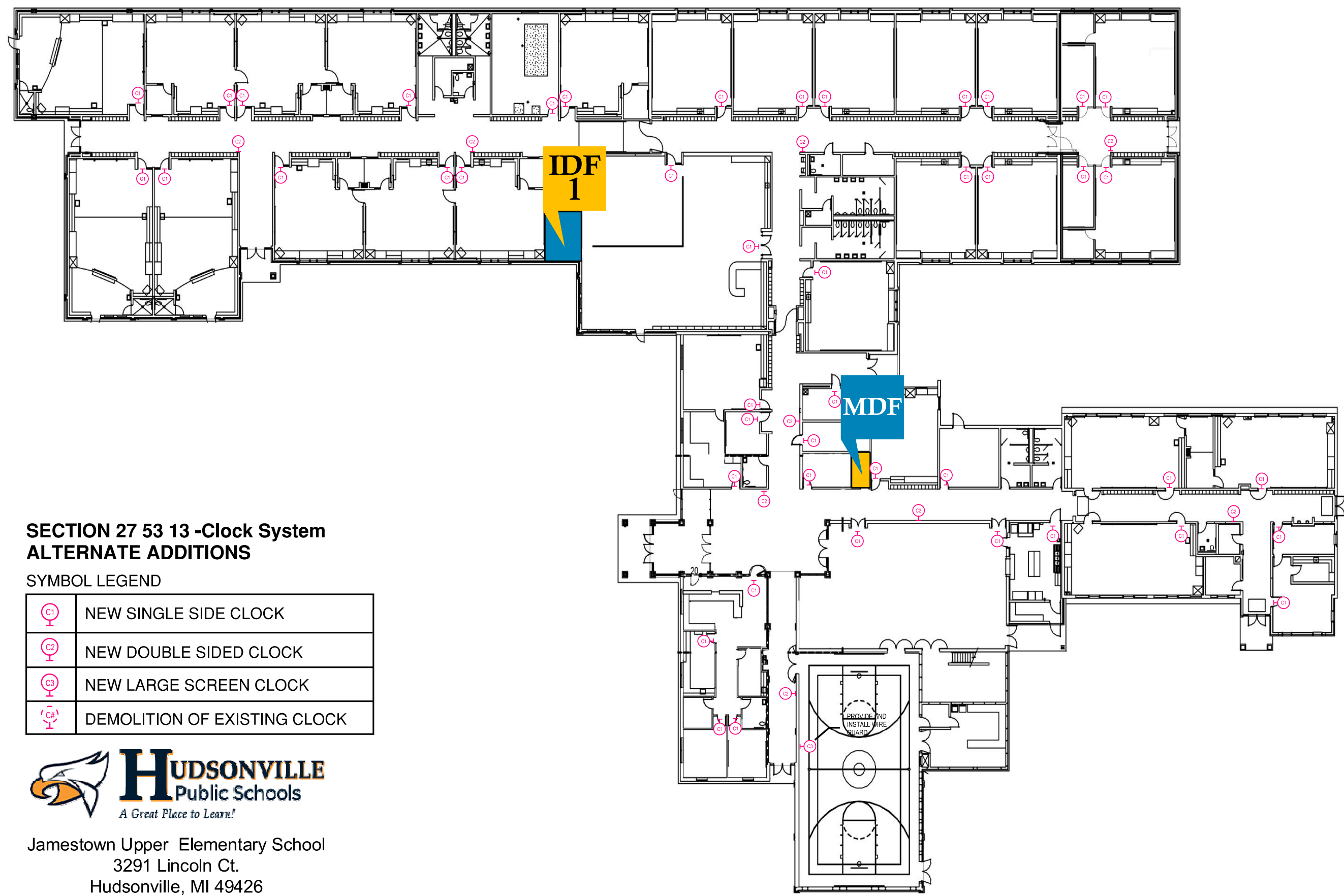
(616) 797-9797

**SECTION 27 53 13 -Clock System
ALTERNATE ADDITIONS**

SYMBOL LEGEND

	NEW SINGLE SIDE CLOCK
	NEW DOUBLE SIDED CLOCK
	NEW LARGE SCREEN CLOCK
	DEMOLITION OF EXISTING CLOCK





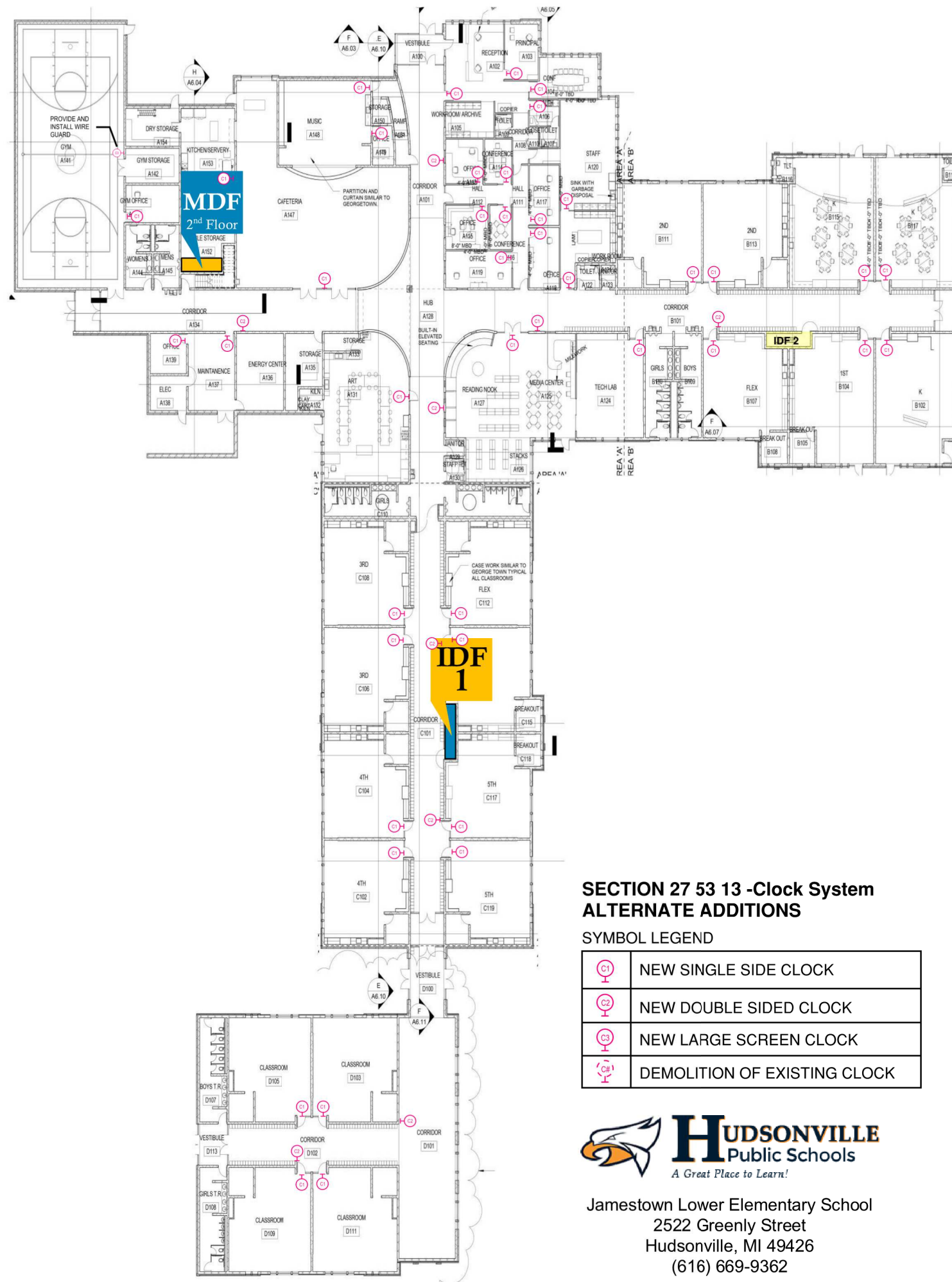
**SECTION 27 53 13 -Clock System
ALTERNATE ADDITIONS**

SYMBOL LEGEND

	NEW SINGLE SIDE CLOCK
	NEW DOUBLE SIDED CLOCK
	NEW LARGE SCREEN CLOCK
	DEMOLITION OF EXISTING CLOCK



Jamestown Upper Elementary School
 3291 Lincoln Ct.
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**SECTION 27 53 13 -Clock System
ALTERNATE ADDITIONS**

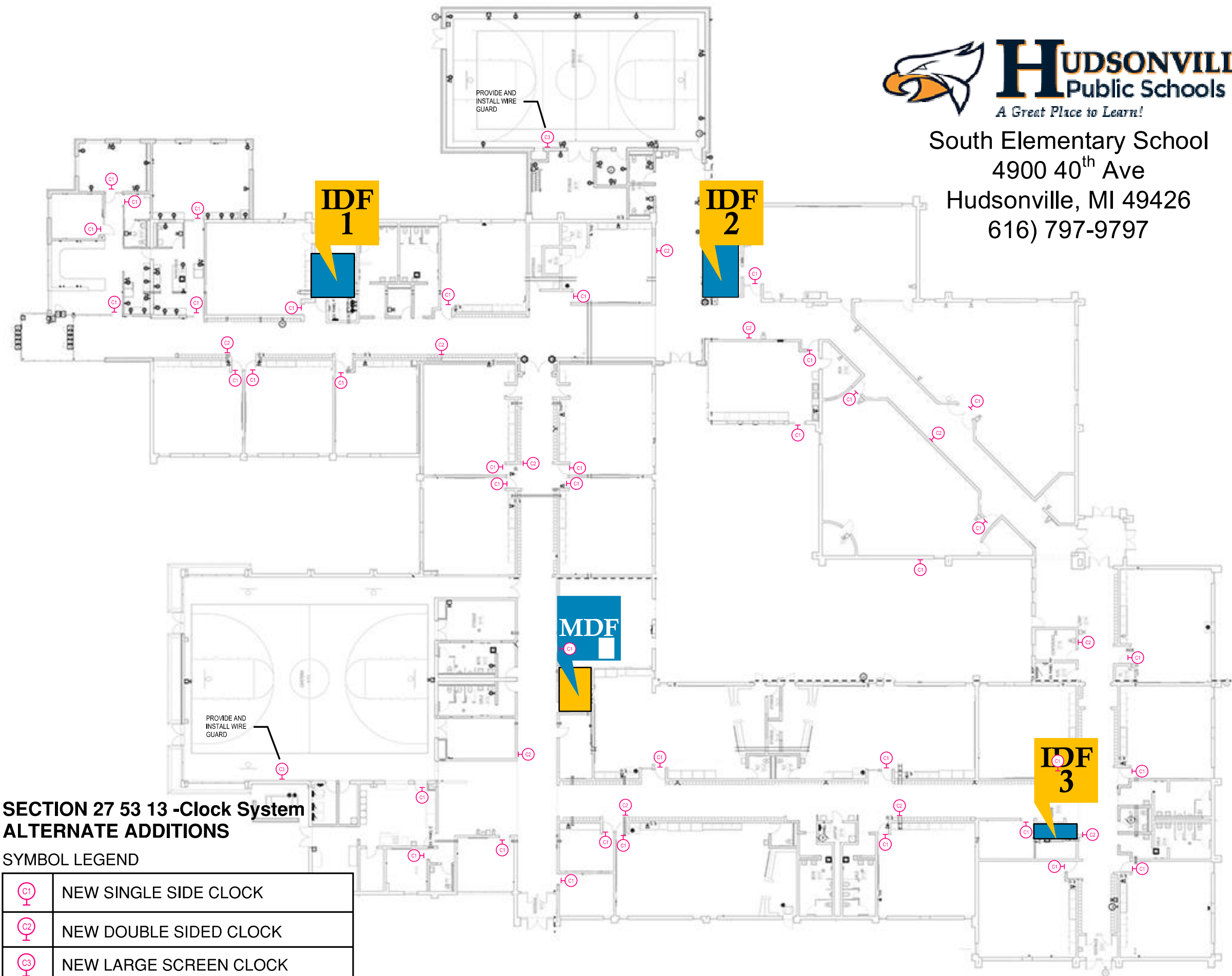
SYMBOL LEGEND

	NEW SINGLE SIDE CLOCK
	NEW DOUBLE SIDED CLOCK
	NEW LARGE SCREEN CLOCK
	DEMOLITION OF EXISTING CLOCK







Jamestown Lower Elementary School
2522 Greenly Street
Hudsonville, MI 49426
(616) 669-9362

South Elementary School
4900 40th Ave
Hudsonville, MI 49426
616) 797-9797



**SECTION 27 53 13 -Clock System
ALTERNATE ADDITIONS**

SYMBOL LEGEND

	NEW SINGLE SIDE CLOCK
	NEW DOUBLE SIDED CLOCK
	NEW LARGE SCREEN CLOCK
	DEMOLITION OF EXISTING CLOCK

Camera System Inventory

Unit Number	Make	Model	VIN	Model Year	Plate	Capacity	Delivered	Camera System	Version	Stop Arm
4	Thomas	C2	4UZABRDT0DCFB6266	2013	001X814	71	8/1/2012	AngelTrax	Pro 8	NO
5	Thomas	C2	4UZABRDT2GCHA3609	2016	103X339	77	7/20/2015	ExacqVision	1.0	YES
6	Thomas	C2	4UZABRDT3HCHS7004	2017	103X344	77	5/9/2016	ExacqVision	1.0	YES
7	Thomas	C2	4UZABRDT5HCHS7005	2017	103X346	77	5/9/2016	ExacqVision	1.0	YES
8	Thomas	C2	4UZARBDT7HCHS7006	2017	103X347	77	5/6/2016	ExacqVision	1.0	YES
9	Thomas	C2	4UZARBDT9HCHS7007	2017	103X343	77	5/6/2016	ExacqVision	1.0	YES
11	Thomas	C2	4UZARBDT2HCHS7009	2017	001X762	77	5/6/2016	ExacqVision	1.0	YES
12	Thomas	C2	4UZARBDT9HCHS7010	2017	103X342	77	5/6/2016	ExacqVision	1.0	YES
13SE	Thomas	C2	4UZABRDT6HCHV2611	2017	103X345	36	7/13/2016	ExacqVision	1.0	YES
14SE	Thomas	C2	4UZABRDT8HCHV2612	2017	106X922	36	7/13/2016	ExacqVision	1.0	YES
15SE	Thomas	C2	4UZABRDT8HCHV2613	2017	106X923	36	7/13/2016	ExacqVision	1.0	YES
17SE	Thomas	C2	4UZABRFC1JCJR7096	2018	106X926	36	7/6/2017	AngelTrax	Pro 8	NO
18SE	Thomas	C2	4UZABRDT1HCJB8213	2017	001X768	36	11/21/2016	ExacqVision	1.0	YES
19	Thomas	C2	4UZABRFC8JCJR4597	2018	001X791	78	7/6/2017	AngelTrax	Pro 8	NO
20	Thomas	C2	4UZABRFCXJCJR4598	2018	001X771	78	7/6/2017	AngelTrax	Pro 8	NO
21	Thomas	C2	4UZABRFBXRCUF6781	2024	121X954	77	2/2/2023			
22	Thomas	C2	4UZABRFB1RCUF6782	2024	121X955	77	1/19/2023			
23	Thomas	C2	4UZABRFB3RCUF6783	2024	121X957	77	1/18/2023			
49	Thomas	C2	4UZABRDT9GCGT5202	2016	106X924	78	8/13/2018	ExacqVision	1.0	YES
50SE	Thomas	C2	4UZABRFC1LCLT1513	2020	001X835	36	5/7/2019	AngelTrax	Pro 8	YES
51	Thomas	C2	4UZABRFC8LCLT1511	2020	001X766	77	5/7/2019	AngelTrax	Pro 8	YES
52	Thomas	C2	4UZABRFB1LCLW3644	2020	001X773	77	7/1/2019	AngelTrax	Pro 8	YES
53	Thomas	C2	4UZABRFB3LCLW3645	2020	115X669	77	7/25/2019	AngelTrax	Pro 8	YES
54	Thomas	C2	4UZABRFB5LCLW3646	2020	001X777	77	7/1/2019	AngelTrax	Pro 8	YES
55	Thomas	C2	4UZABRFB7LCLW3647	2020	115X664	77	7/25/2019	AngelTrax	Pro 8	YES
56	Thomas	C2	4UZABRFB9LCLW3648	2020	001X822	77	7/1/2019	AngelTrax	Pro 8	YES
57	Thomas	C2	4UZABRFB0LCLW3649	2020	001X842	77	7/1/2019	AngelTrax	Pro 8	YES
58SE	Thomas	C2	4UZABRFB1LCLW2512	2020	001X774	36	7/1/2019	AngelTrax	Pro 8	YES
59	Thomas	C2	4UZABRFB0NCNL4242	2022	115X663	77	8/5/2021	ExacqVision	1.5	YES
60	Thomas	C2	4UZABRFB2NCNL4243	2022	115X668	77	8/5/2021	ExacqVision	1.5	YES
61	Thomas	C2	4UZABRFB8MCML6896	2021	001X781	77	7/29/2020	ExacqVision	1.5	YES

Camera System Inventory

Unit Number	Make	Model	VIN	Model Year	Plate	Capacity	Delivered	Camera System	Version	Stop Arm
62	Thomas	C2	4UZABRFB3MCML6899	2021	001X840	77	7/29/2020	ExacqVision	1.5	YES
63	Thomas	C2	4UZABRFB1MCML6898	2021	001X837	77	7/27/2020	ExacqVision	1.5	YES
64	Thomas	C2	4UZABRFBXMCML6897	2021	001X846	77	7/27/2020	ExacqVision	1.5	YES
65	Thomas	C2	4UZABRFBXMCML6900	2021	001X827	77	7/28/2020	ExacqVision	1.5	YES
66SE	Thomas	C2	4UZABRFB1MCML7565	2021	001X821	36	8/17/2020			
67SE	Thomas	C2	4UZABRFB3MCML7566	2021	001X776	36	8/12/2020			
68SE	Thomas	C2	4UZABRFB5MCML7567	2021	001X838	36	8/7/2020			
69	Thomas	C2	4UZABRFB4NCNL4244	2022	115X667	77	8/5/2021			
70	Thomas	C2	4UZABRFB5RCUF6784	2024	121X958	77	2/27/2023	ExacqVision	2.0	YES
71	Thomas	C2	4UZABRFB6NCNL4245	2022	115X666	77	8/5/2021			
72	Thomas	C2	4UZABRFB8NCNL4246	2022	115X662	77	8/5/2021			
73	Thomas	C2	4UZABRFBXNCNL4247	2022	115X665	77	8/5/2021			
74	Thomas	C2	4UZABRFB1NCNL4248	2022	115X660	77	8/9/2021	ExacqVision	1.5	YES
75	Thomas	C2	4UZABRFB3NCNL4249	2022	115X670	77	8/5/2021	ExacqVision	1.5	YES
76	Thomas	C2	4UZABRFB7RCUF6785	2024	121X959	77	1/12/2023			
77	Thomas	C2	4UZABRFB9RCUF6786	2024	121X960	77	1/6/2023			
78	Thomas	C2	4UZABRFB0RCUF6787	2024	121X961	77	2/15/2023			
79	Thomas	C2	4UZABRFB2RCUF6788	2024	121X962	77	6/6/2023			
85SE	Thomas	C2	4UZABRFC6KCKU1630	2018	001X817	36	8/13/2018	AngelTrax	Pro 8	YES
87	Thomas	C2	4UZABRDT1ACAM2358	2010	001X851	77	2/1/2009	ExacqVision	1.0	YES
91	Thomas	C2	4UZABRDT3ACAR2551	2010	068X501	77	2/1/2009	AngelTrax	Pro 7	NO
92	Thomas	C2	4UZABRDT5ACAR2552	2010	068X502	77	10/1/2009	ExacqVision	1.0	YES
SPARE BUSES										
1S	Thomas	C2	4UZABRDT8CCBA1694	2012	001X819	71	4/1/2011	ExacqVision	1.0	YES
2S	Thomas	C2	4UZABRDT7DCFB6264	2013	001X802	71	8/1/2012	ExacqVision	1.0	YES
3S	Thomas	C2	4UZABRDT9DCFB6265	2013	001X815	71	8/1/2012	AngelTrax	Pro 8	YES
10S	Thomas	C2	4UZABRDT0HCHS7008	2017	103X341	77	5/9/2016	ExacqVision	1.0	YES
42SES	Thomas	C2	4UZABPDT9ECFJ0198	2014	001X811	54	6/1/2013	ExacqVision	1.0	YES
43SES	Thomas	C2	4UZABRDT2GCGR8156	2015	001X850	36	12/11/2014	ExacqVision	1.0	YES
88S	Thomas	C2	4UZABRDT3ACAM2359	2010	068X496	77	2/1/2009	ExacqVision	1.0	YES

Camera System Inventory

Unit Number	Make	Model	VIN	Model Year	Plate	Capacity	Delivered	Camera System	Version	Stop Arm
89S	Thomas	C2	4UZABRDTXACAM2360	2010	068X497	77	2/1/2009	AngelTrax	Pro 7	NO
90S	Thomas	C2	4UZABRDT1ACAM2361	2010	068X498	77	2/1/2009	ExacqVision	1.0	YES
93S	Thomas	C2	4UZABRDT7ACAR2553	2010	068X503	77	10/1/2009	AngelTrax	Pro 7	NO
94S	Thomas	C2	4UZABRDT9ACAR2554	2010	068X500	77	10/1/2009	AngelTrax	Pro 7	NO
95S	Thomas	C2	4UZABRDTXCCBA1311	2012	001X795	71	4/1/2011	AngelTrax	Pro 8	NO
97S	Thomas	C2	4UZABRDT3CCBA1313	2012	001X853	71	4/1/2011	ExacqVision	1.0	YES
98S	Thomas	C2	4UZABRDT5CCBA1314	2012	001X785	71	4/1/2011	ExacqVision	1.0	YES
99S	Thomas	C2	4UZABRDT7CCBA1315	2012	001X499	71	4/1/2011	ExacqVision	1.0	YES

SYSTEMS REMOVED FROM RETIRED BUSES

								ExacqVision	1.0	YES
								ExacqVision	1.0	YES

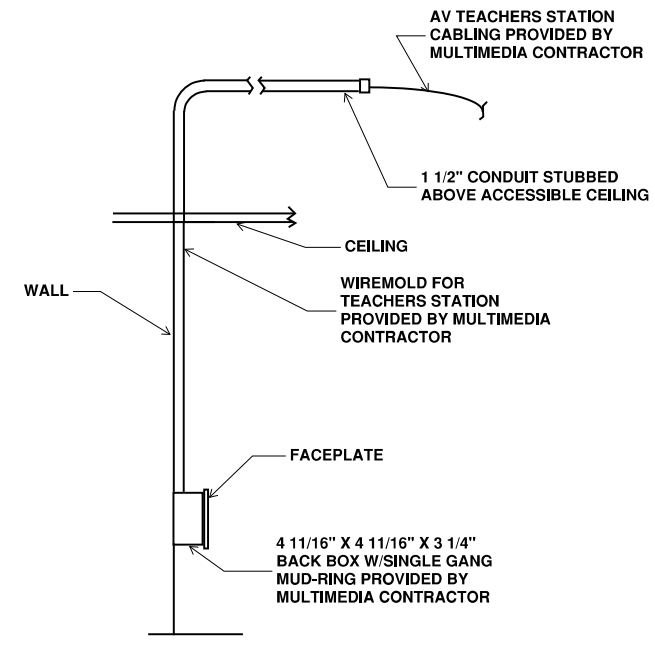
NEW BUSES ON ORDER

24	Thomas	C2		2024		61	12/2023			
25	Thomas	C2		2024		77	12/2023			
26	Thomas	C2		2024		77	12/2023			
27	Thomas	C2		2024		77	12/2023			
28	Thomas	C2		2024		77	12/2023			
29	Thomas	C2		2024		77	12/2023			
30SE	Chevrolet	Minotour		2024		29	10/2023			
31SE	Chevrolet	Minotour		2024		29	10/2023			

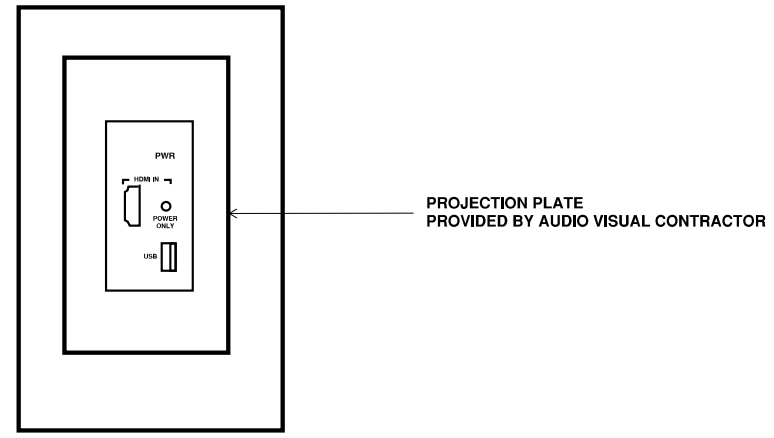
LAST UPDATED: 7/18/2023 - RJM

ExacqVision	1.0	26	36
ExacqVision	1.5	9	
ExacqVision	2.0	1	
AngelTrax	Pro 8 w/ Arm	11	20
AngelTrax	Pro 8 w/o Arm	5	
AngelTrax	Pro 7	4	
No Camera System		22	22

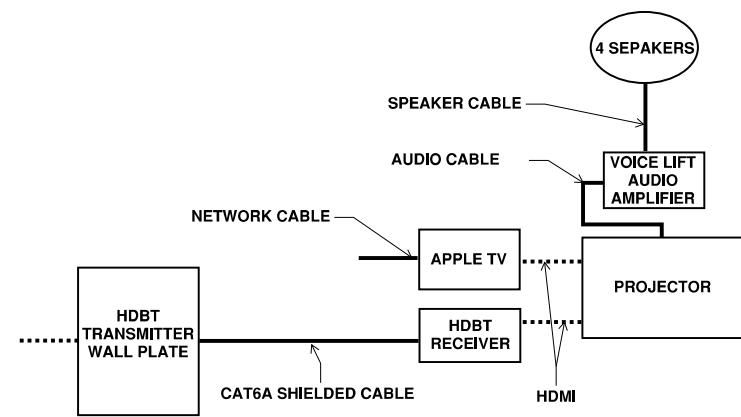
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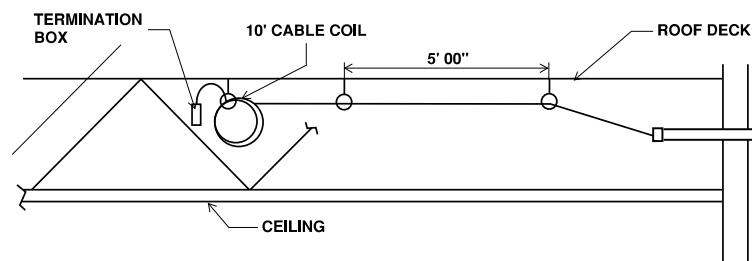
TYP 1 - SURFACE MOUNTED AUDIO VISUAL OUTLET DETAIL
NOT TO SCALE



TYP 1.01 - ENLARGED AUDIO VISUAL OUTLET DETAIL
NOT TO SCALE



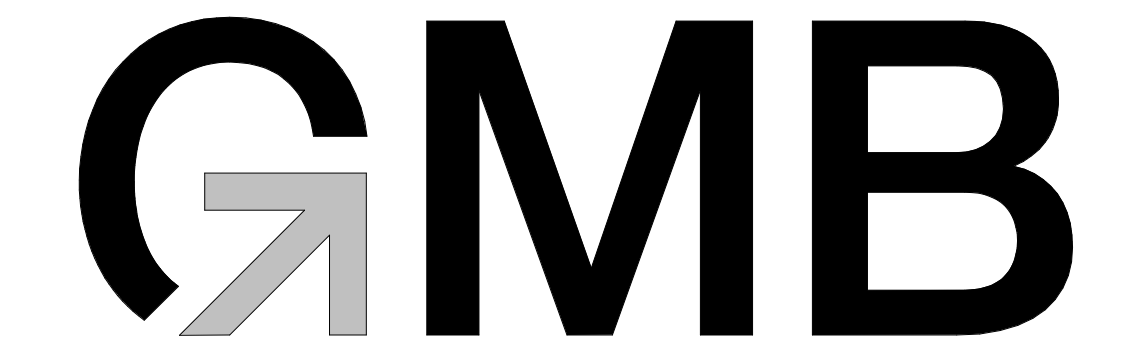
TYP 2 - HPS Standard Room Connection Line Diagram
NOT TO SCALE



TYP 3 - SURFACE MOUNTED POWER & DATA OUTLET DETAIL
NOT TO SCALE

BAUER ELEMENTARY ADDITIONS AND RENOVATIONS

HUDSONVILLE PUBLIC SCHOOLS



8136 48TH. AVENUE
HUDSONVILLE, MICHIGAN

BIDS AND CONSTRUCTION
10.04.2022
GMB PROJECT # 5-5769

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VICINITY MAP



ALTERNATES

M-1: ADD ALTERNATE TO REPLACE CAFETERIA MECHANICAL UNIT.

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OWNER

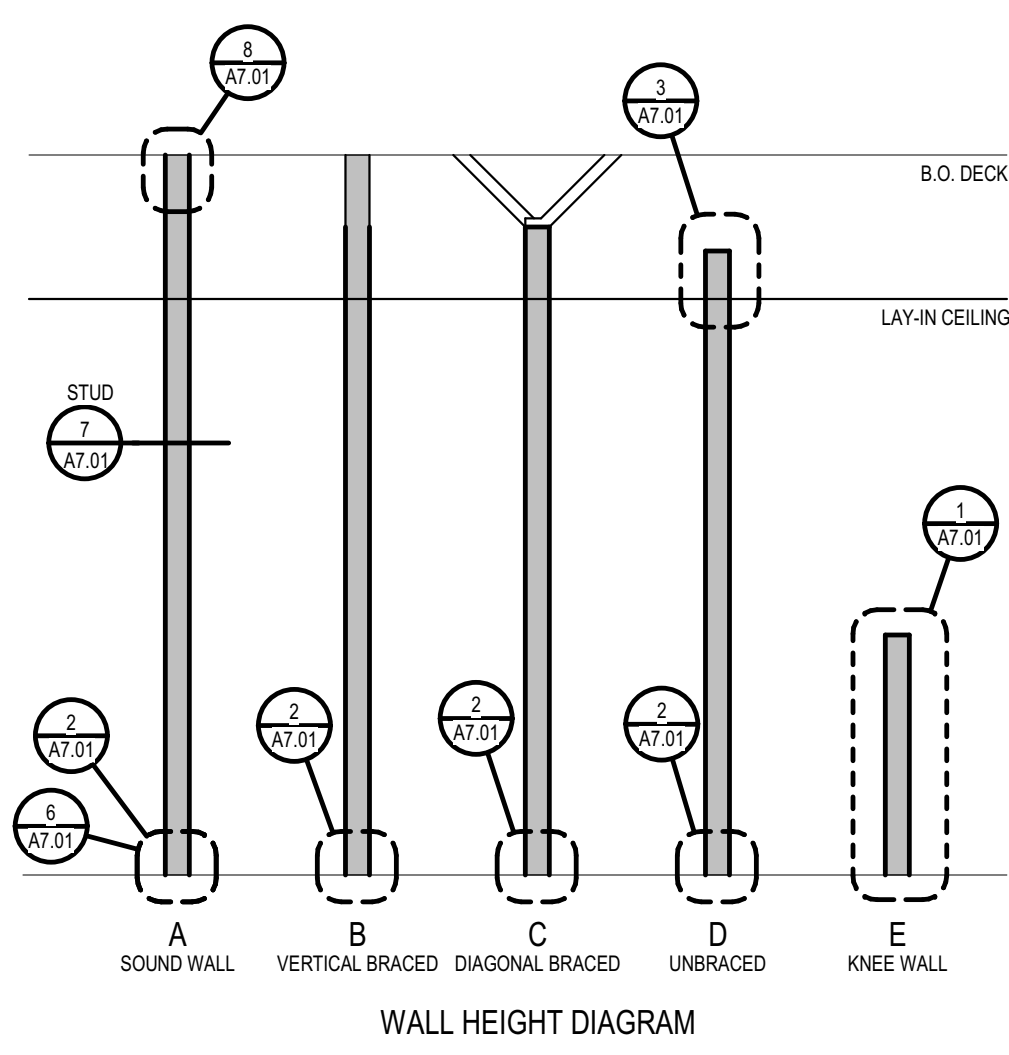
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GENERAL FLOOR PLAN NOTES:

- DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.
- REFERENCES STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.
- INTERIOR STUD WALLS ARE TO USE 3 5/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
- TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE.
- SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.)
- EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUD) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.
- REFERENCE STRUCTURAL, MECHANICAL, PLUMBING OR ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINETRY, FRAMES, STRUCTURAL ITEMS, ETC.
- PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR / SITE SUPERVISOR.
- COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LEADERS, PIPING, ELECTRICAL PANELS, ETC., WHERE WALLS REQUIRE EXTRA WIDTH. THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- ALL QUADRANTS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2015 I.B.C. AND ICC A117.1-2009 & AMERICANS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
- PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE 00.01 FOR REQUIREMENTS.
- FOR ALL CABINETRY, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
- ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE. UNLESS NOTED OTHERWISE.
- CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW CONSTRUCTION. TYPICAL THROUGHOUT.
- SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
- WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR LINTELS CONDITIONS PER SPECIFICATIONS.
- WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, REMOVAL AND REINSTALLATION OF CASEWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SMOO PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT.
- SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS.
 - ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-4#.
 - ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-4#.
 - ALL INTERIOR NON-BEARING WALLS OVER 16'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-5#.



WALL TAG & HEIGHT DIAGRAM

3/8" = 1'-0"

GENERAL PROJECT NOTES:

- FINISH FLOOR ELEVATION = +05.4 = 100'-0"
- DRAWINGS ARE NOT TO BE SCALED WHEN A DIMENSION IS IN QUESTION. VERIFY W/ ARCHITECT.
- DETAILS SHOWN BUT NOT CALLED OUT STILL APPLY, UNLESS OTHERWISE NOTED.
- GENERAL TRADES CONTRACTOR SHALL COORDINATE ALL TRADES INCLUDING OWNER FURNISHED EQUIPMENT, INCLUDING DIMENSIONS OF SUCH AS THEY RELATE TO HIS/HER OWN WORK.
- ALL EXPOSED SURFACES SHALL BE FINISHED. CONTACT ARCHITECT FOR DIRECTION IF FINISH IS NOT LISTED.
- NO UTILITIES INCLUDING BUT NOT LIMITED TO, PIPING AND CONDUIT SHALL BE EXPOSED UNLESS APPROVED BY ARCHITECT.
- GYPSUM BOARD WALLS AND BULKHEADS SHALL HAVE CONTROL JOINTS AT A 20'-0" O.C. MAXIMUM AND AS SHOWN ON DRAWINGS.
- ANY CONTRACTOR IS TO STOP WORK IMMEDIATELY IN AREA IF ABATEMENT MATERIAL(S) ARE ENCOUNTERED. NOTIFY GENERAL CONTRACTOR OF SUSPECTED AREA SO PROPER ABATEMENT CAN BE DONE. (UNDER A SEPARATE ABATEMENT CONTRACT AS NEGOTIATED BY OWNER.)
- AT ALL AREAS OF WORK WHERE EXISTING MASONRY BLOCK AND BRICK WALLS ARE BEING MODIFIED OR CONNECTED TO NEW MASONRY AND/OR BRICK MUST BE TOOTHED UNLESS NOTED OTHERWISE ON DRAWINGS.
- ALL TRADES ARE TO COORDINATE ANY DEMOLITION, CAPPING OR ABANDONMENT OF EXISTING MECHANICAL, ELECTRICAL, PLUMBING OR ARCHITECTURAL ITEMS.
- ANY DEMOLITION OR CONSTRUCTION WHICH DAMAGES ADJACENT SURFACES IS TO BE REPAIRED TO MATCH THE EXISTING SURFACE DAMAGED (MATERIALS & FINISHES) AND ALL REPAIR WORK IS TO BE COORDINATED WITH NEW CONSTRUCTION.
- CONTRACTOR IS TO PROVIDE TEMPORARY SHORING AND BRACING FOR EXISTING ROOF/FLOOR STRUCTURE AS REQUIRED UNTIL PERMANENT WALLS & LINTELS ARE INSTALLED.
- SITE SECURITY AND SAFETY ARE THE CONTRACTORS RESPONSIBILITY. SITE SHALL BE SECURED FENCED IF REQUIRED BY CONTRACTOR.
- ALL ITEMS TO BE SAVED AND/OR RELOCATED ARE TO BE STORED IN A PROPER MANNER SO NO DAMAGE WILL OCCUR TO THESE ITEMS DURING THEIR STORAGE PERIOD.
- ALL CONSTRUCTION AND MATERIALS ARE TO BE INSTALLED BY THE MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS UNLESS DIRECTED OTHERWISE BY ARCHITECT.
- SEE SPECIFICATIONS FOR STEEL LINTEL SIZES FOR WALL OPENINGS NOT DETAILED. (e.g. HVAC DUCTS, ETC.).
- REFER TO GENERAL INFORMATION SHEET 00.01 FOR TYPICAL BARRIER FREE AND ACCESSIBLE DIMENSIONS.
- SEE FLOOR PLANS FOR WALL REINFORCING REQUIRED. (SEE WALL REINFORCING SCHEDULES)
- FRAMING & INSTALL 2"x2" HORIZONTAL WOOD BRACING BETWEEN STUDS WHERE REQUIRED FOR MOUNTING OF UPPER CABINETS, GRAB BARS OR OTHER EQUIPMENT AS REQUIRED FOR PROPER SUPPORT.
- COORDINATE ALL CONSTRUCTION PRACTICE TOLERANCES WITH OTHER TRADES WHOSE WORK MAY BE AFFECTED, DIRECTLY OR INDIRECTLY, WITH YOUR SPECIFIC TRADE. IN ALL CASES, THE MOST STRINGENT TOLERANCE SHALL APPLY AND SHALL BE COORDINATED THRU THE GENERAL CONTRACTOR, OR SUPERINTENDENT AND/OR CONSTRUCTION MANAGER AND FIELD OBSERVATION PERSON AS APPLICABLE.
- REFER TO FLOOR PLANS, SCHEDULES AND EXTERIOR ELEVATIONS FOR WINDOW FRAME TYPES.
- REFER TO FLOOR PLANS, SCHEDULES AND INTERIOR ELEVATIONS FOR BORROWED LITE FRAME TYPES.
- AT MASONRY CAVITY WALL LOCATION, PROVIDE APPROPRIATE SEPARATION IN REGARDS TO INTERIOR AIR EXFILTRATION AND EXTERIOR AIR AND WATER INFILTRATION THRU WALL. PROVIDE NECESSARY AIR AND WATER BARRIERS REQUIRED, INCLUDING DAMS, TO PREVENT WALL LEAKAGE.

CODE NOTES:

- FIRE DEPARTMENT ACCESS AND WATER SUPPLY SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF VERTICAL CONSTRUCTION.
- FIRE STOP ALL INTERCONNECTIONS BETWEEN VERTICAL AND HORIZONTAL SPACES AND CONCEALED WALL SPACES AT THE CEILING, FLOOR, AND ROOF LEVELS.
- INSTALL SOLID BLOCK BEHIND ALL RECESSED WALL UNITS AS REQUIRED TO MAINTAIN FIRE RATINGS.
- ALL FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS, AND SMOKE PARTITIONS SHALL BE IDENTIFIED WITH STENCILING AT INTERVALS NOT TO EXCEED 30'. REFER TO CODE PLAN FOR WALLS REQUIRED TO BE PROTECTED.
- ALL PENETRATIONS AT SMOKE AND FIRE RATED WALLS, FLOORS, CEILING, ETC. SHALL BE PROTECTED, SEALED OR DAMPERED USING ONLY U.L. AND / OR I.C.B.O. APPROVED METHODS, MATERIALS AND INSTALLATION.
- SEE REFLECTED CEILING PLANS AND LIGHTING PLANS FOR EXISTING LOCATIONS.
- ALL EXITS TO BE OPENABLE FROM THE INTERIOR WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE.
- PANIC HARDWARE TO BE PROVIDED AT EACH EXIT DOOR FROM ROOMS WITH AN OCCUPANT LOAD 50 OR MORE INCLUDING MAIN CORRIDOR EXIT DOORS.
- ALL ELEVATORS SHALL COMPLY WITH A.D.A., A.D.A.G.G. AND A.N.S.I. REQUIREMENTS.
- SPECIAL STRUCTURAL INSPECTIONS ARE REQUIRED. REVIEW GENERAL STRUCTURAL NOTES AND SPECIFICATIONS FOR REQUIREMENTS.
- FIRE SPRINKLERS AND FIRE ALARM SYSTEM SHALL BE PROVIDED PER WFR NO. 13. TO 8.72. SUBMIT ALL REQUIRED DRAWING AND INFORMATION TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY RELATED WORK. OBTAIN APPROVAL OF COMPLETED SYSTEMS PRIOR TO FINAL ACCEPTANCE.

ACCESSIBILITY NOTES:

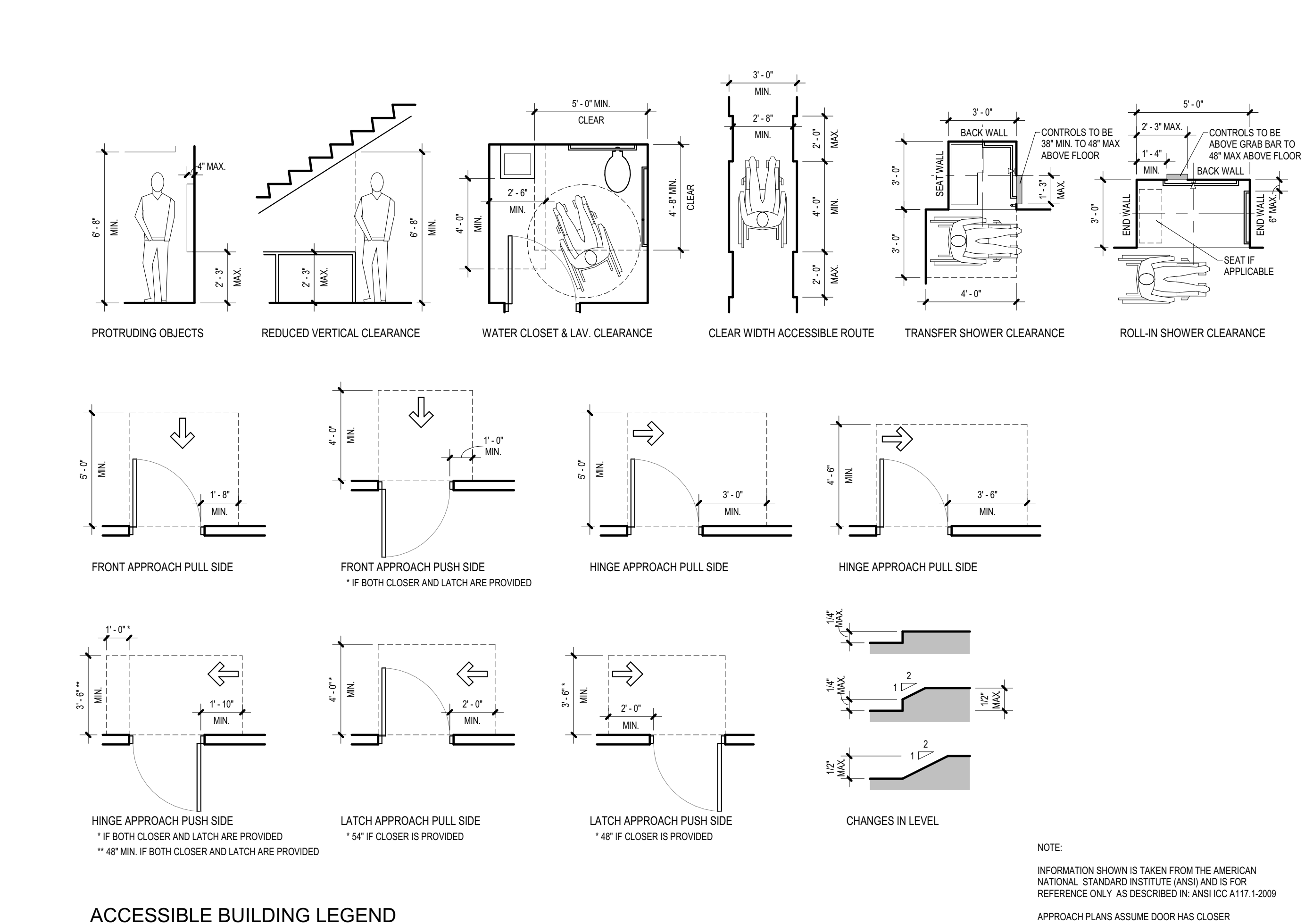
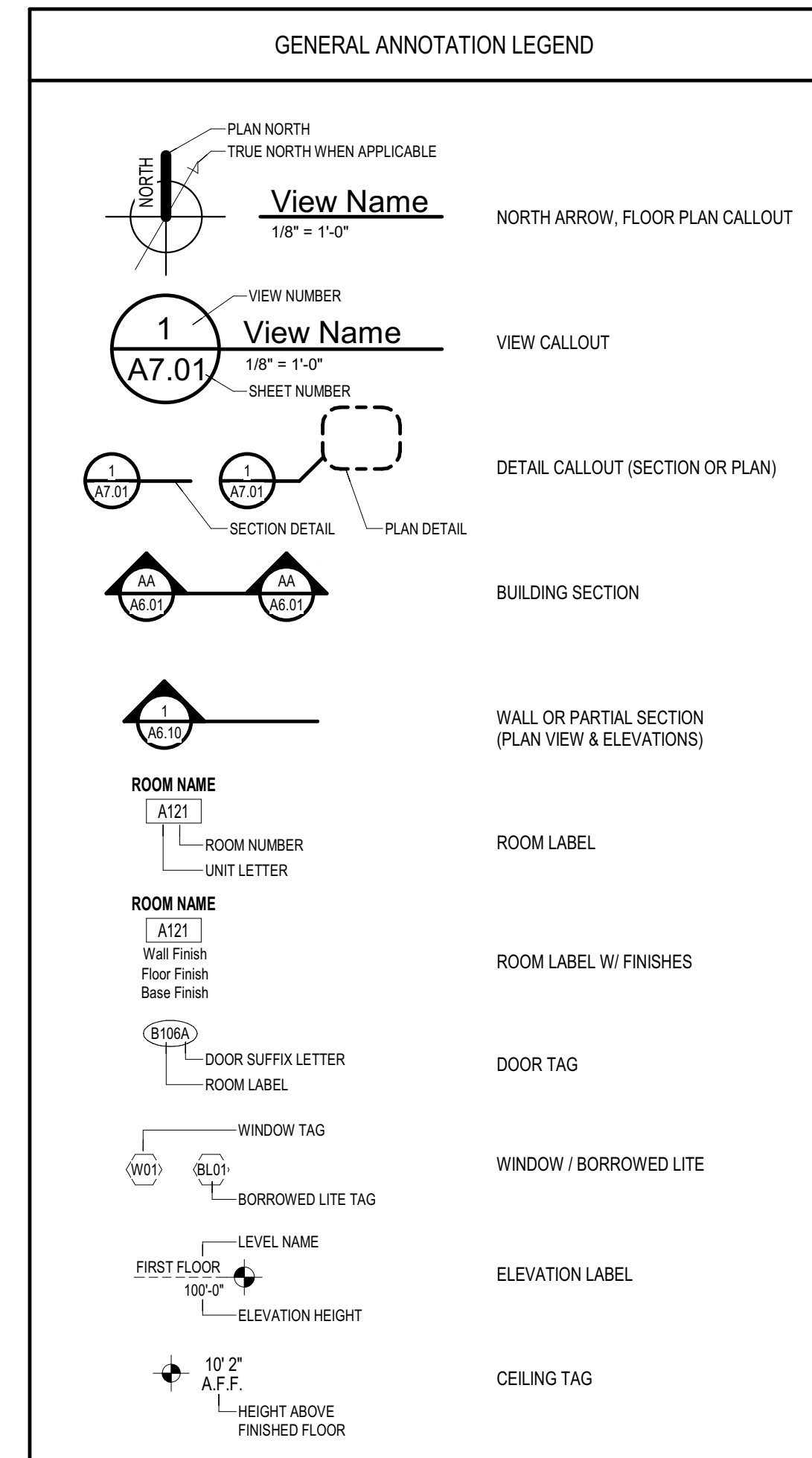
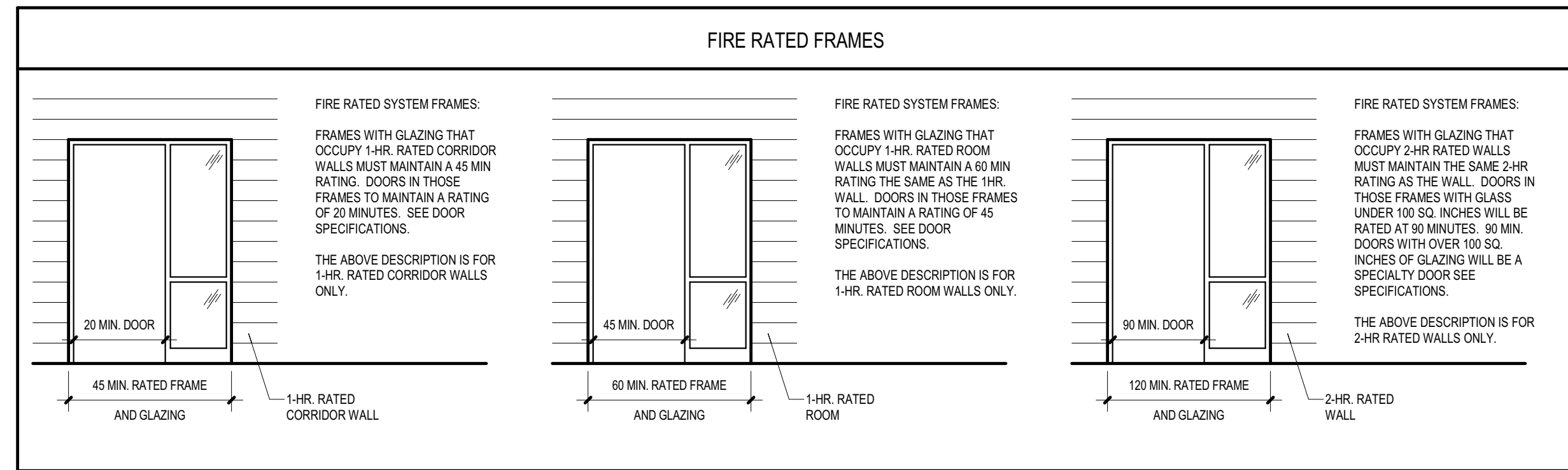
- PUBLIC ENTRANCES AT LEAST 60% SHALL BE ACCESSIBLE.
- ACCESSIBLE ENTRANCES TO THE BUILDING SHALL BE IDENTIFIED BY THE INTERNATIONAL SIGN OF ACCESSIBILITY.
- AN ACCESSIBLE ROUTE OF NOT LESS THAN 3' FT. WIDE MUST BE PROVIDED TO ALL PORTIONS OF THE BUILDING AND BETWEEN THE BUILDING AND THE PUBLIC WAY. ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM SLOPE OF 1:20 AND A MAXIMUM CROSS SLOPE OF 1:50.
- ACCESSIBLE ROUTE SHALL BE WITHOUT STEPS OR CHANGES IN LEVEL GREATER THAN 1/2" WITHOUT AN APPROVED RAMP.
- ACCESSIBLE RAMPS THAT ARE REQUIRED BY ANS I 117.1.1.1 SHALL NOT HAVE A SLOPE THAT EXCEEDS 1:12. IN 12 FT. RAMP AND GROUND SURFACES SHALL BE OF A SLIP RESISTANT SURFACE.
- THRESHOLDS MUST BE 1/2" OR LESS IN HEIGHT.
- ALL ACCESSIBLE PARKING SPACES MUST HAVE A SIGN THAT INCLUDES THE INTERNATIONAL SIGN OF ACCESSIBILITY. PARKING SPACE WILL BE OUTLINED IN A CONTRASTING COLOR WITH THE INTERNATIONAL SIGN OF ACCESSIBILITY PAINTED IN THE CENTER.
- ALL ALARMS TO MEET ACCESSIBILITY REQUIREMENTS.

STRUCTURAL NOTES:

- CONSTRUCTION AND/OR CONTROL JOINTS IN CONCRETE SHALL BE ON A 12'-0" SQUARE GRID (MAX.) UNLESS OTHERWISE NOTED. ALL CONSTRUCTION JOINTS SHALL BE POWERED W/ 12" SMOOTH CORNERS AT 2'-0" O.C. SEE DETAILS.
- PROVIDE CONTINUOUS U-LOCK BOND BEAMS AT THE LOCATIONS INDICATED ON WALL SECTIONS OR DETAILS. FILL U-L BLOCKS WITH CONCRETE AND REINFORCE WITH (2) #5 BARS CONTINUOUS UNLESS NOTED OTHERWISE ON DRAWINGS.

ABBREVIATIONS

A.D.A. = AMERICANS WITH DISABILITY ACT	MFR. = MANUFACTURER
A.F.F. = ABOVE FINISHED FLOOR	MAX. = MAXIMUM
ALT. = ALTERNATE	MB. = MARKER BOARD
ALUM. = ALUMINUM	M.B.C. = MICHIGAN BUILDING CODE
BD. = BOARD	MECH. = MECHANICAL
B.F. = BARRIER FREE	MIN. = MINIMUM
BATT. = BATTEN INSULATION	MISC. = MISCELLANEOUS
B.O. = BOTTOM OF	M.J. = MASONRY JOINT
BRG. = BEARING	M.O. = MASONRY OPENING
C.J. = CONTROL JOINT	MTL. = METAL
CLG. = CEILING	N.I.C. = NOT IN CONTRACT
CONC. = CONCRETE	NOM. = NOMINAL
CONT. = CONTINUOUS	O.C. = ON CENTER
CONF. = CONFERENCE	OPP. = OPPOSITE
CORR. = CORRIDOR	P.L.A.M. = PLASTIC LAMINATE
DIAM. = DIAMETER	P.T. = PRESSURE TREATED
DIM. = DIMENSION	REQ. = REQUIRED
DW. = DISHWASHER	RENF. = REINFORCING
D.F. = DRINKING FOUNTAIN	R.D. = ROOF DRAIN
DN. = DOWN	SM. = SIMILAR TO
DS. = DOWNSPOUT	U.O.D. = UNLESS NOTED OTHERWISE
EQU. = EQUIPMENT	V.F. = VERTICAL IN FIELD
EL. = ELEVATION	VEST. = VESTIBULE
EX. = EXISTING	WI. = WITH
EXP. = EXPANSION	W.W.F. = WELDED WIRE FABRIC
F.D. = FLOOR DRAIN	
F.E. = FIRE EXTINGUISHER	
F.E.C. = FIRE EXTINGUISHER CABINET	
F.R.C. = FIRE EXT. RECESSED CABINET	
F.E.S.C. = FIRE EXT. SEMI-RECESSED CABINET	
FIN. = FINISHED	
FLR. = FLOOR	
GA. = GYPSUM BOARD	
GP. = GYPSUM BOARD	
H.D. = HAND DRYER	
HORIZ. = HORIZONTAL	
H.S.S. = HOLLOW STRUCT. SECTION	
ISO. = ISOCYANURATE	
INSUL. = INSULATION	



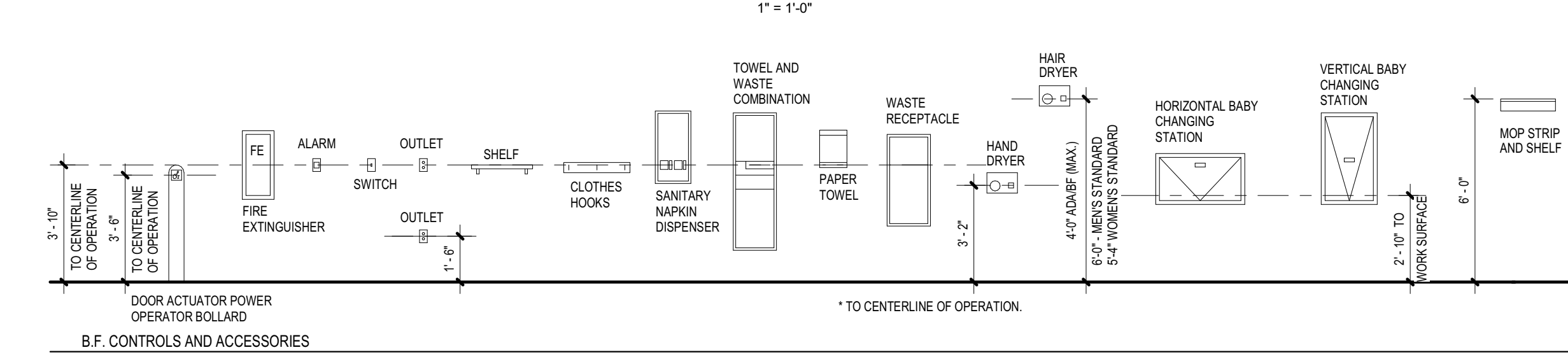
NON-LOAD BEARING COLD-FORMED METAL FRAMING SCHEDULE					
	DEPTH	GAUGE (33 KSI)	FLANGE WIDTH	IDENTIFICATION AISI 910/920	LOCATION / USE
STUDS JOISTS	3 1/2"	20	1 1/4"	2505125-30	BULKHEADS & MISC. FRAMING
	3 5/8"	20	1 1/4"	3025125-30	INTERIOR WALLS & BULKHEADS
	6"	18	1 5/8"	6005162-43	
	3 5/8"	20	1 5/8"	3025163-33	INTERIOR JAMBS
	6"	18	1 5/8"	6005162-43	
	6"	16	1 5/8"	6005162-54	EXTERIOR WALLS
TRACK	2 1/2"	20	1 1/4"	2507125-30	BULKHEADS & MISC. FRAMING
	3 5/8"	20	1 1/4"	3027125-30	INTERIOR WALLS & BULKHEADS
	3 5/8"	20	2 1/2"	3027250-33	DEFLECTION TRACK
	6"	18	1 1/4"	6007125-43	INTERIOR WALLS & BULKHEADS
	6"	16	1 1/2"	6007150-54	EXTERIOR WALLS
	BURRING (HT)	7/8"	20	N/A	0877125-33
1 1/2"		20	N/A	150F125-33	WHERE NOTED

NOTE: ALL MEMBERS IN THIS SCHEDULE ARE SIZED FOR MAXIMUM 15' TALL WALLS. NOTE THAT 6" INTERIOR STUDS CAN SPAN A MAXIMUM HEIGHT OF 20'. SEE COLD-FORMED METAL HEADER SCHEDULE FOR SPECIFIC JAMB & HEADER REQUIREMENTS.

INTERIOR, NON-LOAD BEARING COLD-FORMED METAL HEADER SCHEDULE		
ROUGH OPENING	MATERIAL	HEADER SHAPE
6'-0" MAX.	HEADER: (2) 3025163-33 JOISTS JAMBS: (2) 3025125-33 TRACKS (1) 302725-33 TRACK	
10'-0" MAX.	HEADER: (2) 6005163-33 JOISTS JAMBS: (2) 3027125-33 TRACKS (2) 3025163-33 STUDS EACH END (1) 302725-33 TRACK	
12'-0" MAX.	HEADER: (2) 10005162-43 JOISTS JAMBS: (2) 3025163-33 HORIZONTAL TRACKS (2) 3025163-33 STUDS EACH END (1) 302725-33 TRACK	

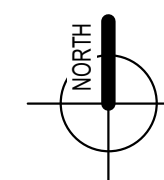
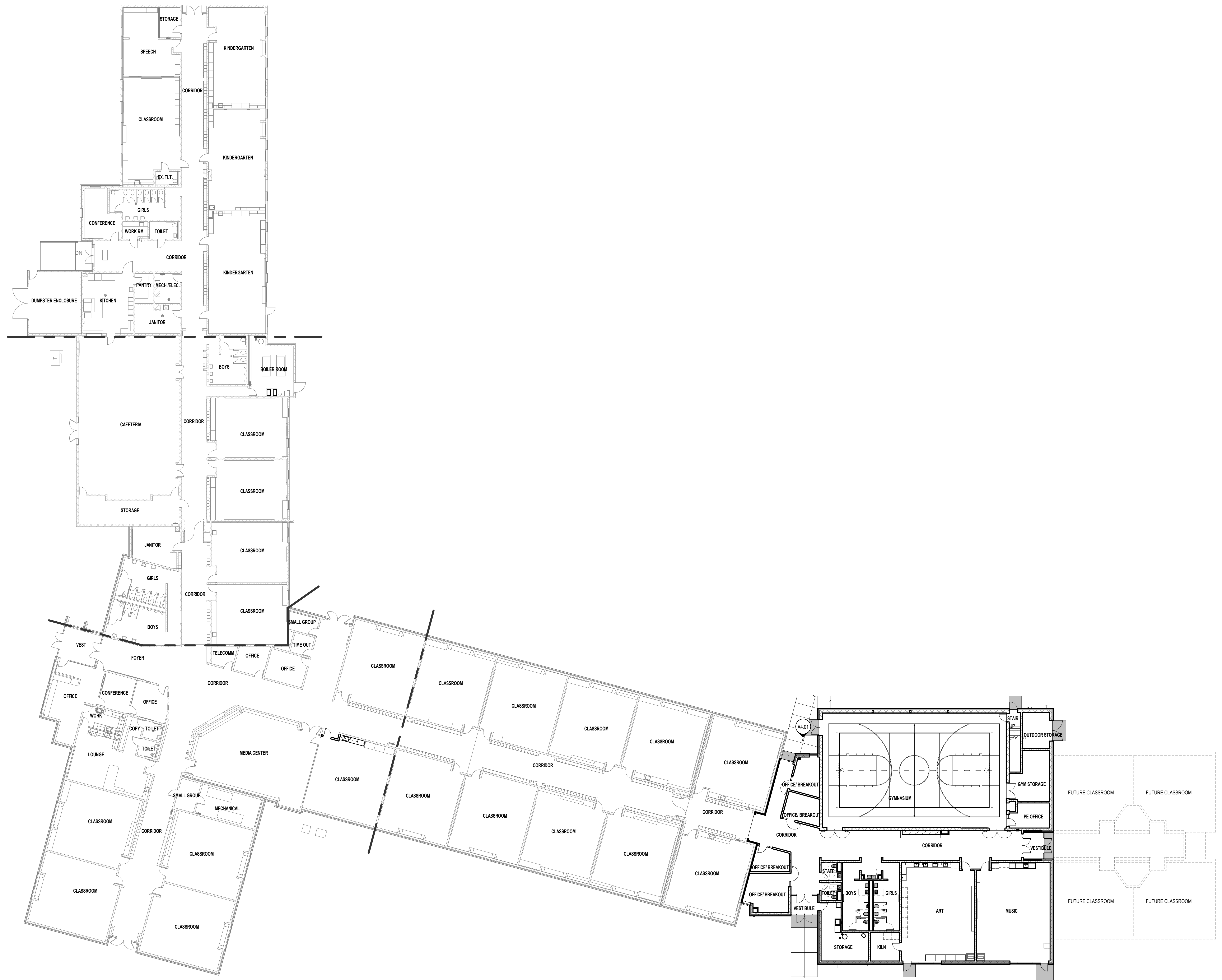
ALL HEADERS IN THIS SCHEDULE ARE SIZED FOR INTERIOR, NON-LOAD BEARING WALLS ONLY BASED ON 1/2" WALL HEIGHT / 5 psf INTERNAL LOAD / 50 psf VERTICAL DEAD LOAD

BUBBLER LOCATION

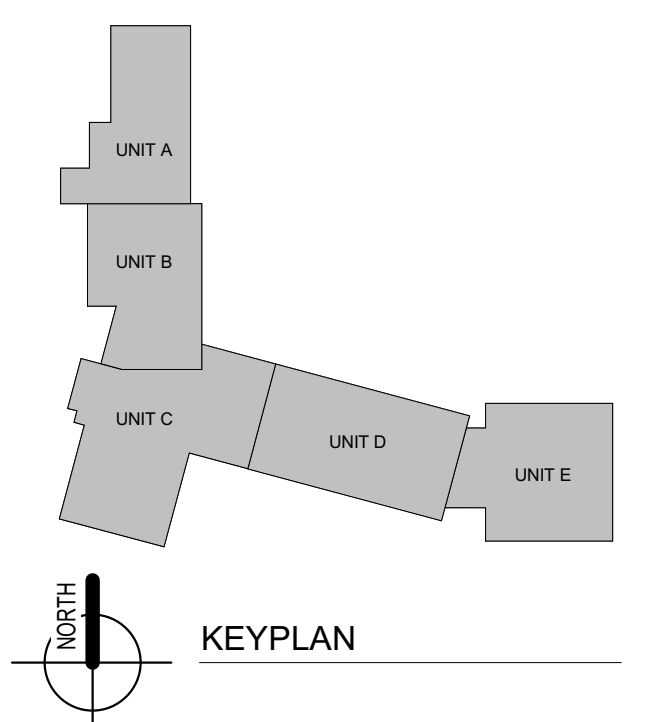


BARRIER FREE ADA DIMENSIONS

1/4" = 1'-0"



OVERALL FLOOR PLAN
1/16" = 1'-0"



KEYPLAN

ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5769

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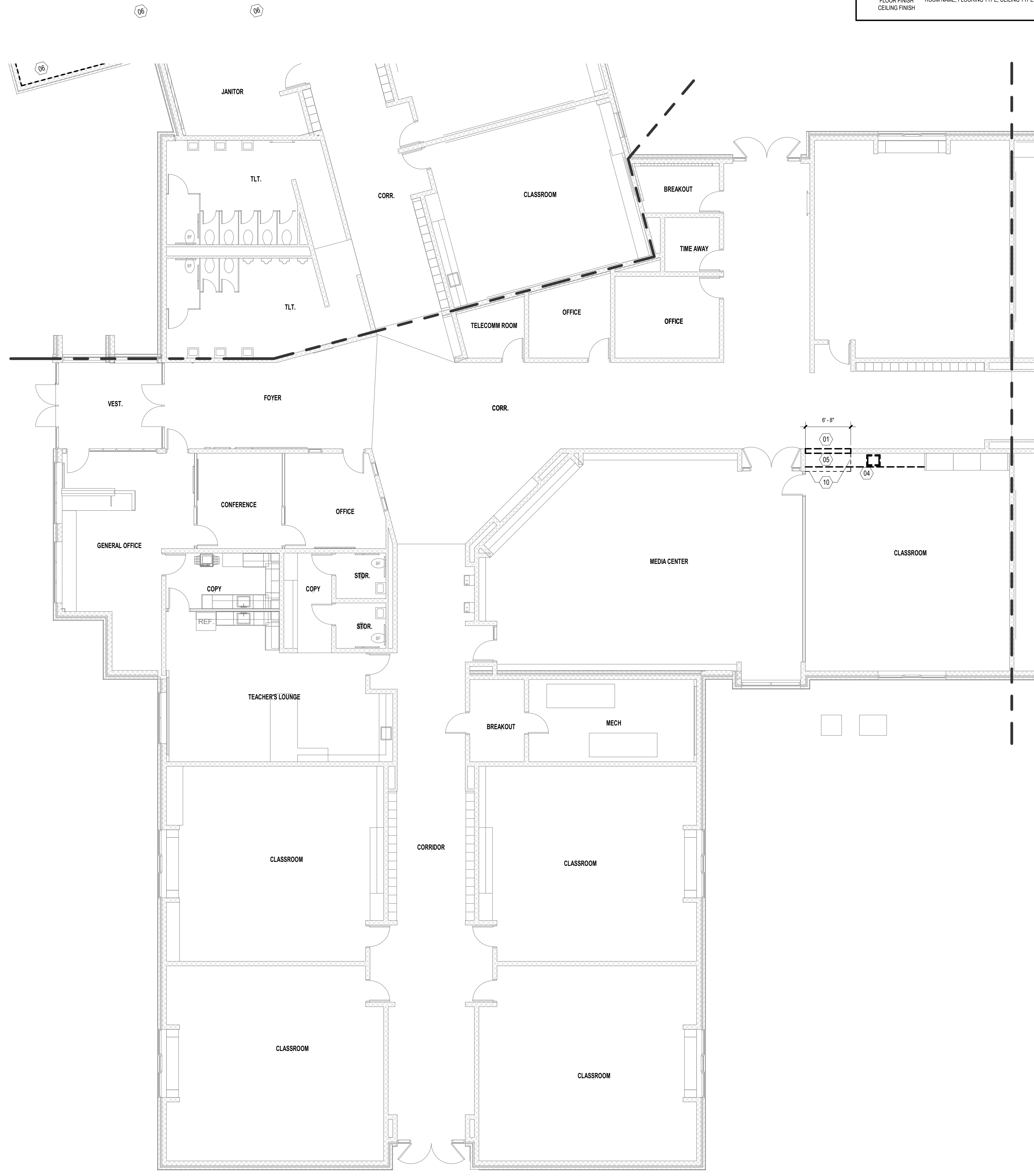
OVERALL FLOOR PLAN

A0.01

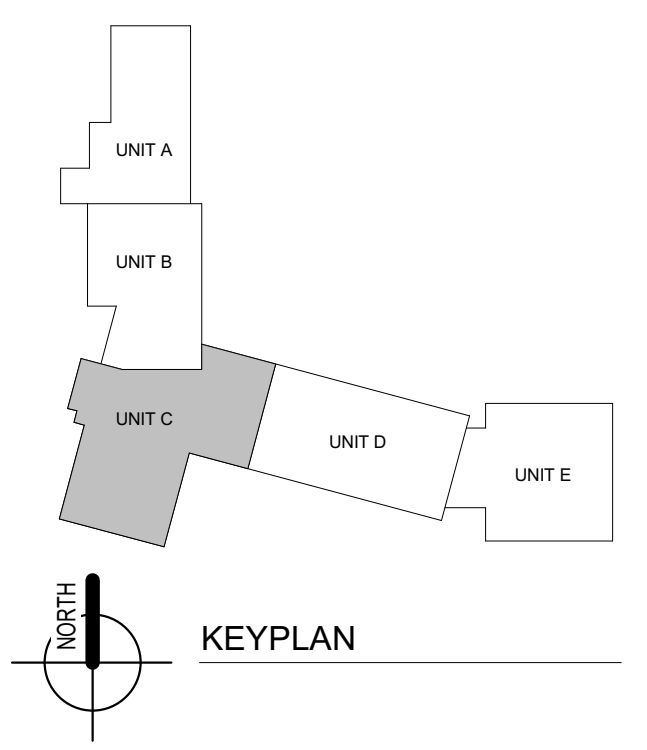
DEMOLITION LEGEND	
	EXISTING WALL TO BE DEMOLISHED
	PORTION OF EXISTING WALL TO BE DEMOLISHED
	EXISTING OBJECT TO BE DEMOLISHED
	AREA OF FLOOR CUTTING
	EXISTING WALLS TO REMAIN
	EXISTING OBJECTS TO REMAIN
	DEMOLITION TAG: SEE DEMOLITION NOTES
	ROOM NAME
	FLOOR FINISH
	CEILING FINISH

DEMOLITION NOTES

- DEMOLITION CONTRACTOR IS TO STOP WORK IMMEDIATELY IN AREA IF ASBESTOS IS ENCOUNTERED. NOTIFY CONSTRUCTION MANAGER OF SUSPECTED AREA SO PROPER ABATEMENT CAN BE DONE. (UNDER A SEPARATE ASBESTOS ABATEMENT CONTRACT AS NEGOTIATED BY OWNER.)
- ALL MASONRY BLOCK AND BRICK WALLS TO BE REMOVED MUST BE TOOTHED TO RECEIVE NEW MASONRY, UNLESS NOTED OTHERWISE ON DRAWINGS.
- DEMOLITION CONTRACTOR IS TO PROVIDE TEMPORARY SHORING AND BRACING FOR EXISTING ROOF/FLOOR STRUCTURE AS REQUIRED UNTIL PERMANENT WALLS & LITELS ARE INSTALLED. REFER TO STRUCT. & ARCH. DWGS. FOR BEARING CONDITIONS.
- ALL TRADES ARE TO COORDINATE ANY DEMOLITION, CAPPING OR ABANDONMENT OF EXISTING MECHANICAL, ELECTRICAL, PLUMBING OR ARCHITECTURAL ITEMS.
- ALL ITEMS TO BE SAVED AND/OR RELOCATED ARE TO BE STORED IN A PROPER MANNER SO NO DAMAGE WILL OCCUR TO THESE ITEMS DURING THEIR STORAGE PERIOD.
- ALL DEMOLITION WHICH DAMAGES ADJACENT SURFACES IS TO BE REPAIRED TO MATCH THE EXISTING SURFACE. DAMAGED MATERIALS & FINISHES AND ALL REPAIR WORK IS TO BE COORDINATED WITH NEW CONSTRUCTION FOR NEW OPENINGS IN EXISTING WALLS. COORDINATE NEW LITELS W/ MASONRY CONTRACTOR.
- PATCH WALLS & ROOF TO MATCH EXISTING CONSTRUCTION BEHIND REMOVAL OF WALL LOUVERS, EXHAUST FANS, INTAKE HOODS & CABINET HEATERS. VERIFY SEQUENCE OF REMOVAL W/ CONSTRUCTION MANAGER. SEE MECHANICAL AND ELECTRICAL DOOR SHEETS FOR WALL, ROOF & FLOOR OPENINGS TO BE PATCHED.
- ALL TRADES ARE TO COORDINATE THE REMOVAL OF EXISTING LOOSE EQUIPMENT WITH ARCHITECT AND/OR OWNER. ADDITIONAL EQUIPMENT FOUND THAT IS NOT NOTED ON DEMOLITION PLAN SHALL BE REMOVED AS PART OF GENERAL DEMOLITION AFTER VERIFICATION WITH ARCHITECT/OWNER.
- 01 REMOVE EXISTING WALL INCLUDING DOORS, WINDOWS, BORROWED LITES, AND ANY EQUIPMENT OR FURNISHINGS ATTACHED TO WALL OR PORTION OF EXISTING WALL AS SHOWN ON FLOOR PLAN (MIN. 4" BELOW FLOOR SLAB) AND AS REQUIRED FOR NEW CONSTRUCTION. FLOOR SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW FLOOR MATERIAL. WALL SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW WALL FINISH. SEE MECHANICAL & ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS. SUPPORT UNBRACED SECTIONS OF WALL OR ROOF AS REQUIRED.
- 02 REMOVE EXISTING BORROWED LITE OR DOOR & DOOR FRAME. (DOOR LITEL TO REMAIN UNLESS OTHERWISE NOTED ON PLAN. SEE STRUCTURAL FOR ADDITIONAL INFORMATION). WHERE DOOR FRAMES ARE TO REMAIN, PROTECT FRAMES FROM DAMAGE. SAND AND PREP FOR NEW PAINT FINISH UNDER SECTION 09 90 00. SEE DOOR SCHEDULE FOR REQUIRED NEW DOORS AND FRAMES OR ONLY NEW DOORS.
- 03 SAW CUT AND REMOVE FLOOR OR PORTION OF EXISTING FLOOR SLAB AS SHOWN OR DIMENSIONED ON FLOOR PLAN. EXCAVATE, FILL & COMPACT SOIL AS REQUIRED FOR NEW SLAB. COORDINATE WITH MECHANICAL/ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS & LOCATIONS. INSTALL NEW SLAB TO MATCH EXIST. ELEVATION. SEE STRUCTURAL FOR ADDITIONAL INFORMATION RE: SLAB REMOVAL.
- 04 REMOVE EXISTING CASEWORK/MILLWORK, COUNTER TOPS & BACK SPLASH. SAVE ITEMS AT OWNER'S REQUEST.
- 05 REMOVE EXISTING SUSPENDED PLASTER CEILING INCLUDING ALL FRAMING, TILES, TEES, HANGERS & WIRES USED TO SUPPORT THAT CEILING. REPLACE PER REF. CEILING PLANE.
- 06 SEE MECHANICAL DEMOLITION NOTES FOR REMOVAL OF EXIST. PLUMBING/MECHANICAL (i.e. LAVATORIES, SINKS, WATER CLOSETS, URINALS, P/N TUBS, MECH. DUCTWORK, UNIT VENTS, ETC.)
- 07 REMOVE EXISTING WINDOW, WINDOW WALL WITH ALUMINUM FRAMING WITH METAL PANELS BELOW WINDOW FRAME, SILL & GLAZING INCLUDING ALL EXISTING WOOD BLOCKING AND FRAMING ABOVE WINDOWS TO ROOF AND/OR MASONRY TIES AT BRICK PIERS AND SIDE WALLS.
- 08 REMOVE EXISTING EQUIPMENT OR FURNISHINGS SECURED TO FLOOR, WALL OR CEILING AND STORE FOR REUSE BY OWNER.
- 09 REMOVE EXISTING CHALK, TACK OR WHITE BOARD. REMOVE ALL GLUE RESIDUE, ETC. FROM BLOCK BEHIND BOARD AND PREPARE SURFACE FOR NEW FINISH MATERIALS WHERE REQUIRED.
- 10 REMOVE EXISTING FLOOR COVERING AND BASE, INCLUDING ALL GLUE RESIDUE, MUDBEDS, ETC. FROM FLOORS & WALLS AND PREPARE SURFACE FOR NEW FINISH MATERIALS, INCLUDING GRINDING, PATCHING AND/OR SELF-LEVELING COMPOUND AS REQUIRED. WALL & FLOOR SURFACE TO RECEIVE NEW FINISH MATERIAL & PATCH TO MATCH EXISTING.
- 11 REMOVE PORTION OF EXISTING SOFFIT AND FASCIA (AS SHOWN ON DEMOLITION PLAN). PROVIDE TEMPORARY WEATHER PROTECTION AS NEEDED AROUND AREA REMOVED. PROVIDE TEMPORARY SHORING & BRACING AS REQUIRED.
- 12 REMOVE EXISTING TOILET PARTITION, DISPENSERS AND/OR TOLLET ACCESSORIES AND REPAIR ADJACENT SURFACES TO RECEIVE NEW FINISHES.
- 13 REMOVE EXISTING LOCKERS AND LOCKER BASE. CUT SLOPED LOCKER TOP & BASE AS NECESSARY. RE-USE/RELOCATE EXISTING END PANEL AS REQUIRED. REVISE & PREPARE FOR NEW FINISHES.
- 14 REMOVE EXISTING MEZZANINE INCLUDING ALL SUPPORT FRAMING, FLOOR DECK, HANGERS AND ALL ADDITIONAL RELATED MATERIALS. REPAIR WALL TO MATCH ADJACENT WALL MATERIALS AND FINISH.
- 15 REMOVE EXISTING TERRAZZO FLOORING, CONCRETE SLAB AND COVERED BASE. REFER TO ROOM FINISH SCHEDULE FOR NEW FLOORING.
- 16 REMOVE EXISTING BASKETBALL BACKBOARD AND ALL RELATED HANGERS, FASTENERS AND FRAMING TO STRUCTURE ABOVE.



UNIT 'C' DEMOLITION PLAN
1/8" = 1'-0"



ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5769

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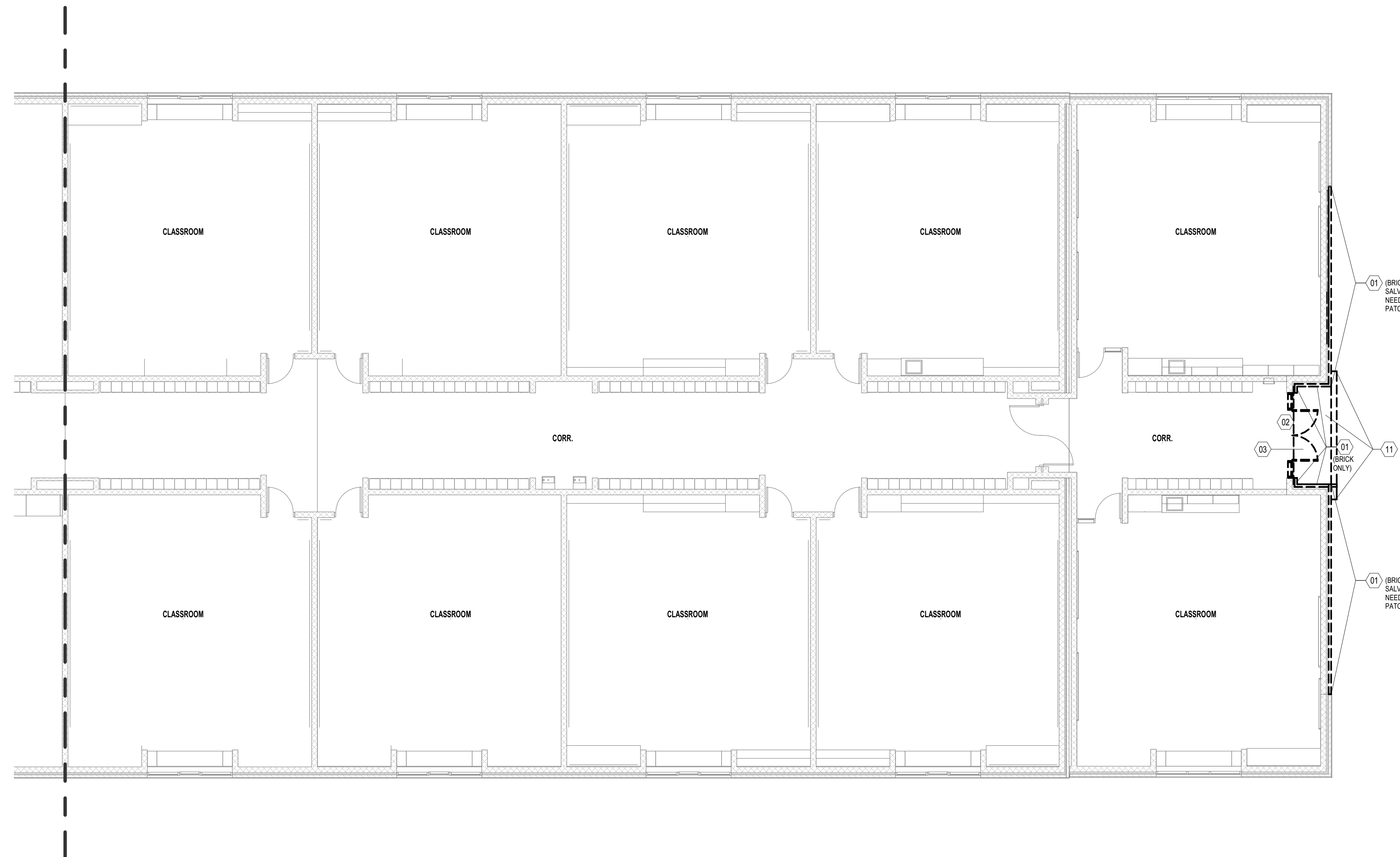
UNIT 'C' DEMOLITION PLAN

A1.1C

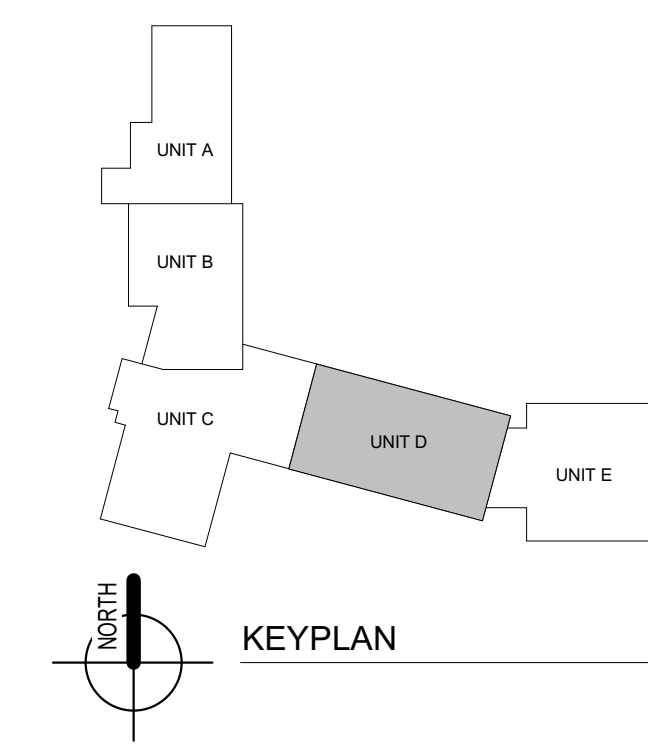
DEMOLITION LEGEND	
	EXISTING WALL TO BE DEMOLISHED
	PORTION OF EXISTING WALL TO BE DEMOLISHED
	EXISTING OBJECT TO BE DEMOLISHED
	AREA OF FLOOR CUTTING
	EXISTING WALLS TO REMAIN
	EXISTING OBJECTS TO REMAIN
	DEMOLITION TAG; SEE DEMOLITION NOTES
	EXISTING ROOM FINISH INFORMATION: ROOM NAME, FLOORING TYPE, CEILING TYPE
	FLOOR FINISH
	CEILING FINISH

DEMOLITION NOTES

- DEMOLITION CONTRACTOR IS TO STOP WORK IMMEDIATELY IN AREA IF ASBESTOS IS ENCOUNTERED. NOTIFY CONSTRUCTION MANAGER OF SUSPECTED AREA SO PROPER ABATEMENT CAN BE DONE. (UNDER A SEPARATE ASBESTOS ABATEMENT CONTRACT AS NEGOTIATED BY OWNER.)
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- ALL ITEMS TO BE SAVED AND/OR RELOCATED ARE TO BE STORED IN A PROPER MANNER SO NO DAMAGE WILL OCCUR TO THESE ITEMS DURING THEIR STORAGE PERIOD.
- ALL DEMOLITION WHICH DAMAGES ADJACENT SURFACES IS TO BE REPAIRED TO MATCH THE EXISTING SURFACE (MATERIALS & FINISHES) AND ALL REPAIR WORK IS TO BE COORDINATED WITH NEW CONSTRUCTION FOR NEW OPENINGS IN EXISTING WALLS. COORDINATE NEW LINTELS W/ MASONRY CONTRACTOR.
- PATCH WALLS & ROOF TO MATCH EXISTING CONSTRUCTION BEHIND REMOVAL OF WALL LOUVERS, EXHAUST FANS, INTAKE HOODS & CABINET HEATERS. VERIFY SEQUENCE OF REMOVAL W/ CONSTRUCTION MANAGER. SEE MECHANICAL AND ELECTRICAL SHOP SHEETS FOR WALL, ROOF & FLOOR OPENINGS TO BE PATCHED.
- ALL TRADES ARE TO COORDINATE THE REMOVAL OF EXISTING LOOSE EQUIPMENT WITH ARCHITECT AND/OR OWNER. ADDITIONAL EQUIPMENT FOUND THAT IS NOT NOTED ON DEMOLITION PLAN SHALL BE REMOVED AS PART OF GENERAL DEMOLITION AFTER VERIFICATION WITH ARCHITECT/OWNER.
- 01 REMOVE EXISTING WALL INCLUDING DOORS, WINDOWS, BORROWED LITES, AND ANY EQUIPMENT OR FURNISHINGS ATTACHED TO WALL OR PORTION OF EXISTING WALL AS SHOWN ON FLOOR PLAN (MIN. 4" BELOW FLOOR SLAB) AND AS REQUIRED FOR NEW CONSTRUCTION. FLOOR SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW FLOOR MATERIAL. WALL SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW WALL FINISH. SEE MECHANICAL & ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS. SUPPORT UNBRACED SECTIONS OF WALL OR ROOF AS REQUIRED.
- 02 REMOVE EXISTING BORROWED LITE OR DOOR & DOOR FRAME. (DOOR LINTEL TO REMAIN UNLESS OTHERWISE NOTED ON PLAN - SEE STRUCTURAL FOR ADDITIONAL INFORMATION). WHERE DOOR FRAMES ARE TO REMAIN, PROTECT FRAMES FROM DAMAGE. SAND AND PREP FOR NEW PAINT FINISH UNDER SECTION 09 01 00. SEE DOOR SCHEDULE FOR REQUIRED NEW DOORS AND FRAMES OR ONLY NEW DOORS.
- 03 SAW CUT AND REMOVE FLOOR OR PORTION OF EXISTING FLOOR SLAB AS SHOWN OR DIMENSIONED ON FLOOR PLAN. EXCAVATE, FILL & COMPACT SOIL AS REQUIRED FOR NEW SLAB. COORDINATE WITH MECHANICAL, ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS & LOCATIONS. INSTALL NEW SLAB TO MATCH EXIST. ELEVATION. SEE STRUCTURAL FOR ADDITIONAL INFORMATION REGARDING SLAB REMOVAL.
- 04 REMOVE EXISTING CASEWORK/MILLWORK, COUNTER TOPS & BACK SPLASH. SAVE ITEMS AT OWNER'S REQUEST.
- 05 REMOVE EXISTING SUSPENDED PLASTER CEILING INCLUDING ALL FRAMING, TILES, TEES, HANGERS & WIRES USED TO SUPPORT THAT CEILING. REPLACE PER REF. CEILING PLANS.
- 06 SEE MECHANICAL DEMOLITION NOTES FOR REMOVAL OF EXIST. PLUMBING/MECHANICAL (i.e. LAVATORIES, SINKS, WATER CLOSETS, URINALS, PIN TUBE, MISC. DUCTWORK, UNIT VENTS, ETC.)
- 07 REMOVE EXISTING WINDOW, WINDOW WALL WITH ALUMINUM FRAMING WITH METAL PANELS BELOW WINDOW FRAME. SILL & GLAZING INCLUDING ALL EXISTING WOOD BLOCKING AND FRAMING ABOVE WINDOWS TO ROOF AND/OR MASONRY TIES AT BRICK PIERS AND SIDE WALLS.
- 08 REMOVE EXISTING EQUIPMENT OR FURNISHINGS SECURED TO FLOOR, WALL OR CEILING AND STORE FOR REUSE BY OWNER.
- 09 REMOVE EXISTING CHALK, TACK OR WHITE BOARD. REMOVE ALL GLUE RESIDUE, ETC. FROM BLOCK BEHIND BOARD AND PREPARE SURFACE FOR NEW FINISH MATERIALS WHERE REQUIRED.
- 10 REMOVE EXISTING FLOOR COVERING AND BASE, INCLUDING ALL GLUE RESIDUE, MUDBEDS, ETC. FROM FLOORS & WALLS AND PREPARE SURFACE FOR NEW FINISH MATERIALS, INCLUDING GRINDING, PATCHING AND/OR SELF-LEVELING COMPOUND AS REQUIRED. WALL & FLOOR SURFACE TO RECEIVE NEW FINISH MATERIAL & PATCH TO MATCH EXISTING.
- 11 REMOVE PORTION OF EXISTING SOFFIT AND FASCIA (AS SHOWN ON DEMOLITION PLAN). PROVIDE TEMPORARY WEATHER PROTECTION AS NEEDED AROUND AREA REMOVED. PROVIDE TEMPORARY SHORING & BRACING AS REQUIRED.
- 12 REMOVE EXISTING TOILET PARTITION, DISPENSERS AND/OR TOILET ACCESSORIES AND REPAIR ADJACENT SURFACES TO RECEIVE NEW FINISHES.
- 13 REMOVE EXISTING LOCKERS AND LOCKER BASE. CUT SLOPED LOCKER TOP & BASE AS NECESSARY. RE-USE/RELOCATE EXISTING END PANEL AS REQUIRED. REVISE & PREPARE FOR NEW FINISHES.
- 14 REMOVE EXISTING KEZZANING INCLUDING ALL SUPPORT FRAMING, FLOOR DECK, HANGERS AND ALL ADDITIONAL RELATED MATERIALS. REPAIR WALL TO MATCH ADJACENT WALL MATERIALS AND FINISH.
- 15 REMOVE EXISTING TERRAZZO FLOORING, CONCRETE SLAB AND COVERED BASE. REFER TO ROOM FINISH SCHEDULE FOR NEW FLOORING.
- 16 REMOVE EXISTING BASKETBALL BACKBOARD AND ALL RELATED HANGERS, FASTENERS AND FRAMING TO STRUCTURE ABOVE.



UNIT 'D' FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



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10.04.2022 BIDS AND CONSTRUCTION

DRAWN MEE
REVIEWED TGD
PROJECT NO. 5-5769
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UNIT 'D' DEMOLITION PLAN

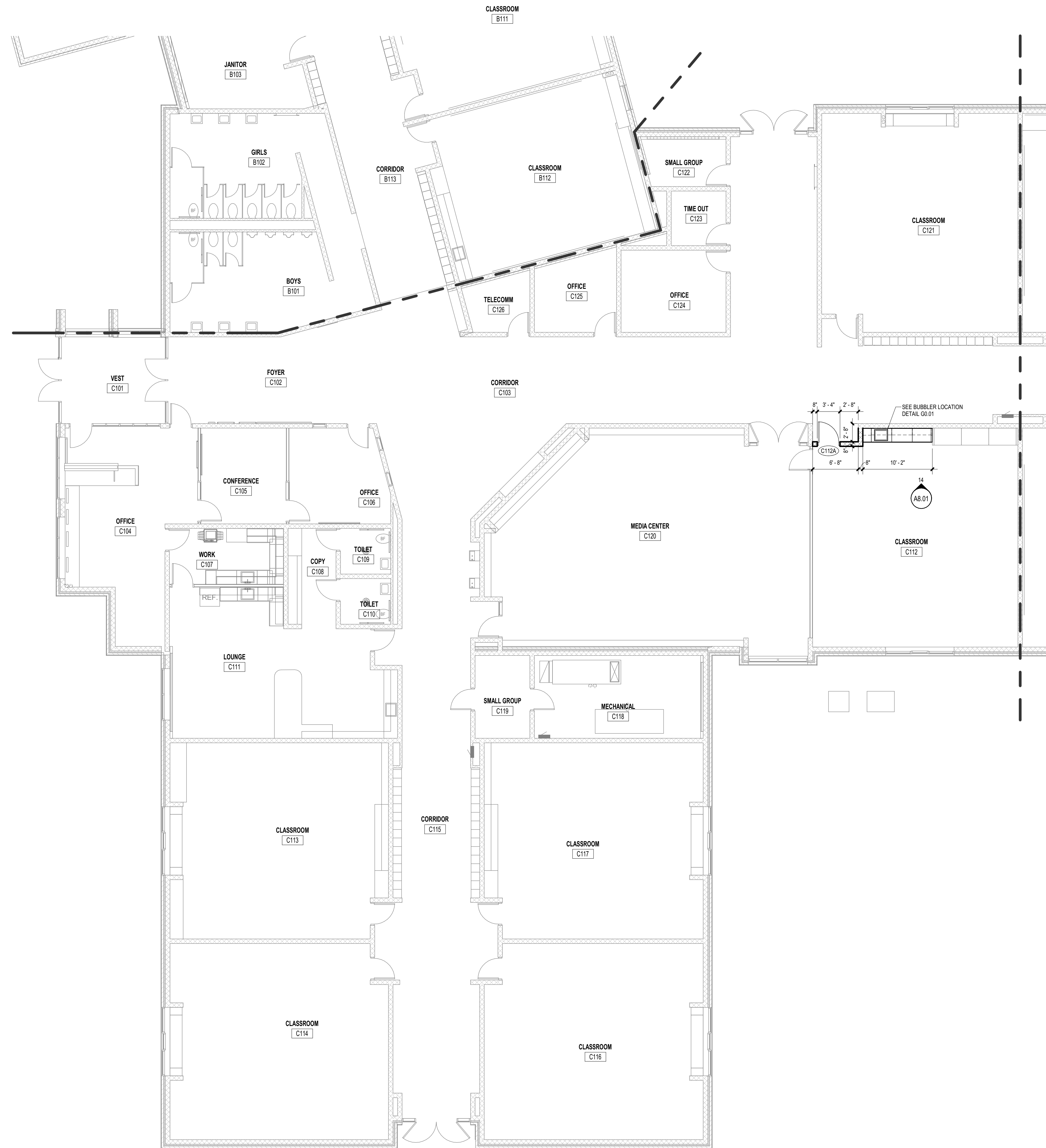
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WALL LEGEND	
	8" GYP BOARD BOTH SIDES 3/4" LIGHT GA. METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE
	5" GYP BOARD BOTH SIDES 1/2" LIGHT GA. METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE
	CMU WALL SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN (8" TYPICAL U.N.O.)
	BRICK AND CMU WALL W/ 2" SPRAY APPLIED INSULATION SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN. SEE WALL SECTIONS FOR ADDITIONAL DETAILS BANDING, ETC. (3/8" BRICK & 8" CMU TYPICAL U.N.O.)
	CONCRETE WALL SEE STRUCTURAL PLANS FOR REQUIRED REINFORCING.

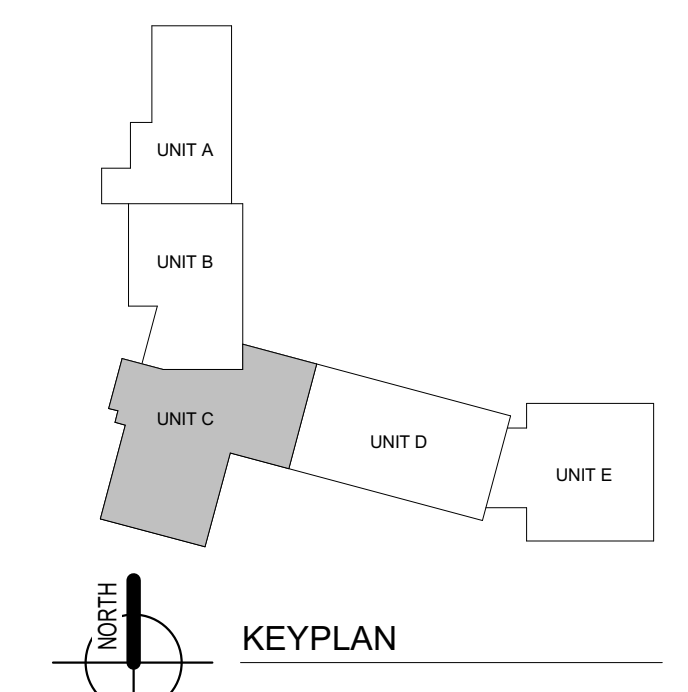
*FIRE RATINGS AS CALLED FOR ON CODE COMPLIANCE PLAN
DIMENSIONS GIVEN ARE TO THE FINISHED FACE OF CMU OR GYPSUM WALL BOARD UNLESS NOTED OTHERWISE

GENERAL FLOOR PLAN NOTES:

- DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.
- REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.
- INTERIOR STUD WALLS ARE TO USE 3/4" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
- TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE.
- SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.)
- EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.
- REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINETRY, FRAMES, STRUCTURAL ITEMS, ETC.
- PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR / SITE SUPERVISOR.
- COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LEADERS, PIPING, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- ALL GUARDRAILS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2015 I.B.C., AND ICC A111.1-2009 & AMERICANS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
- PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE 02.01 FOR REQUIREMENTS.
- FOR ALL CABINETRY, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
- ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE - UNLESS NOTED OTHERWISE.
- CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW CONSTRUCTION. TYPICAL THROUGHOUT.
- SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
- WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR UNITS CONDITIONS PER SPECIFICATIONS.
- WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASEWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SMOOTH PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING. AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT.
- SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS.
 - ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-4#.
 - ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-4#.
 - ALL INTERIOR NON-BEARING WALLS OVER 16'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-4#.



UNIT 'C' FLOOR PLAN
1/8" = 1'-0"



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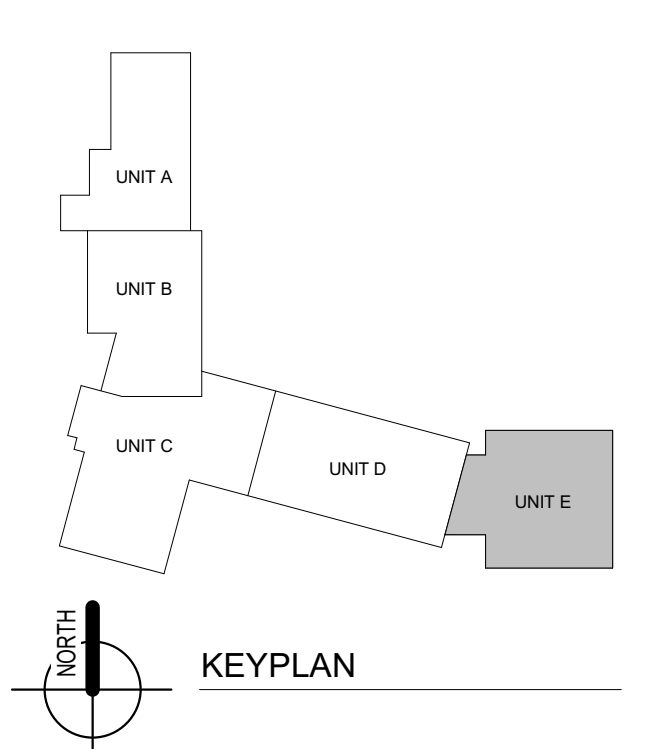
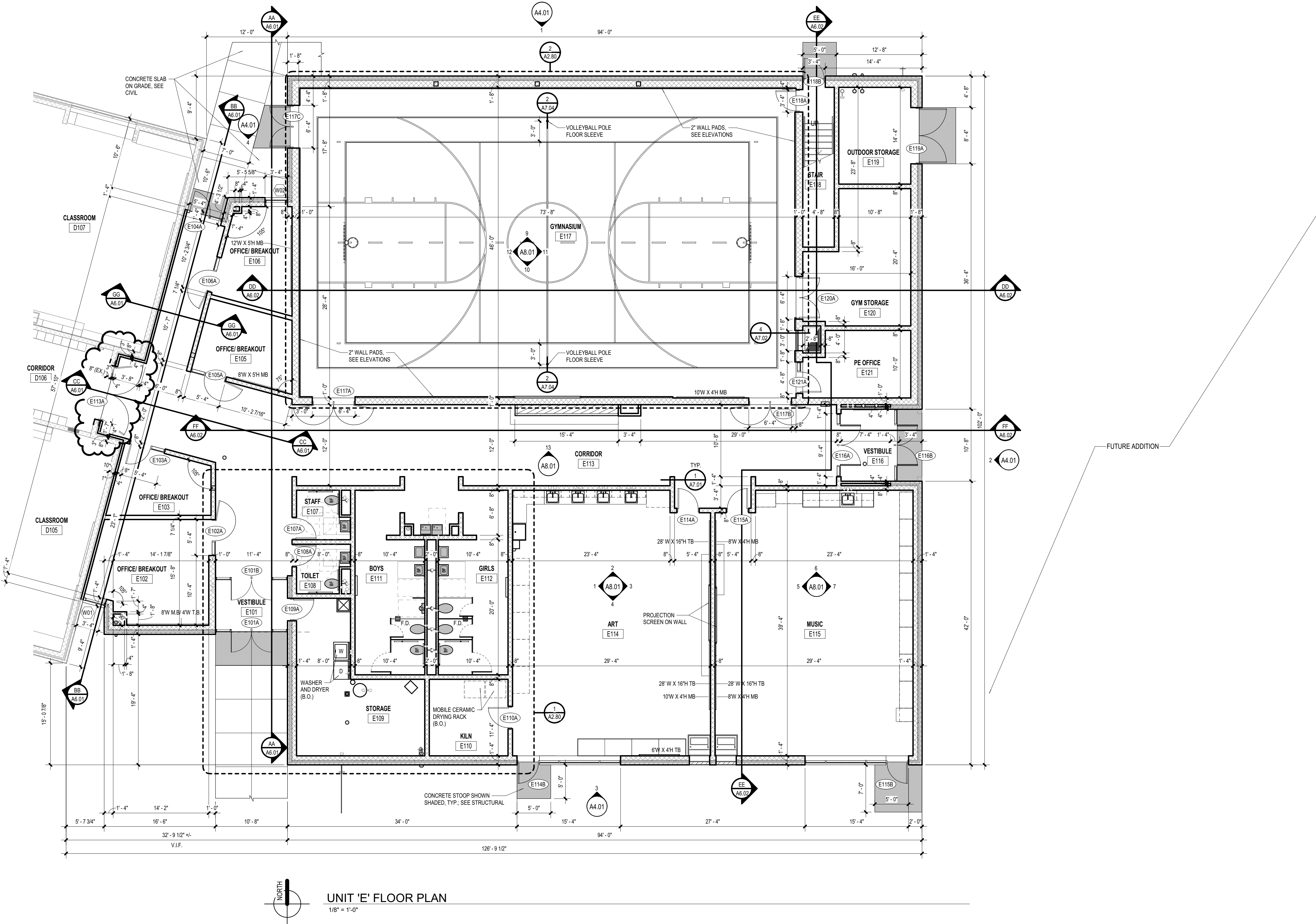
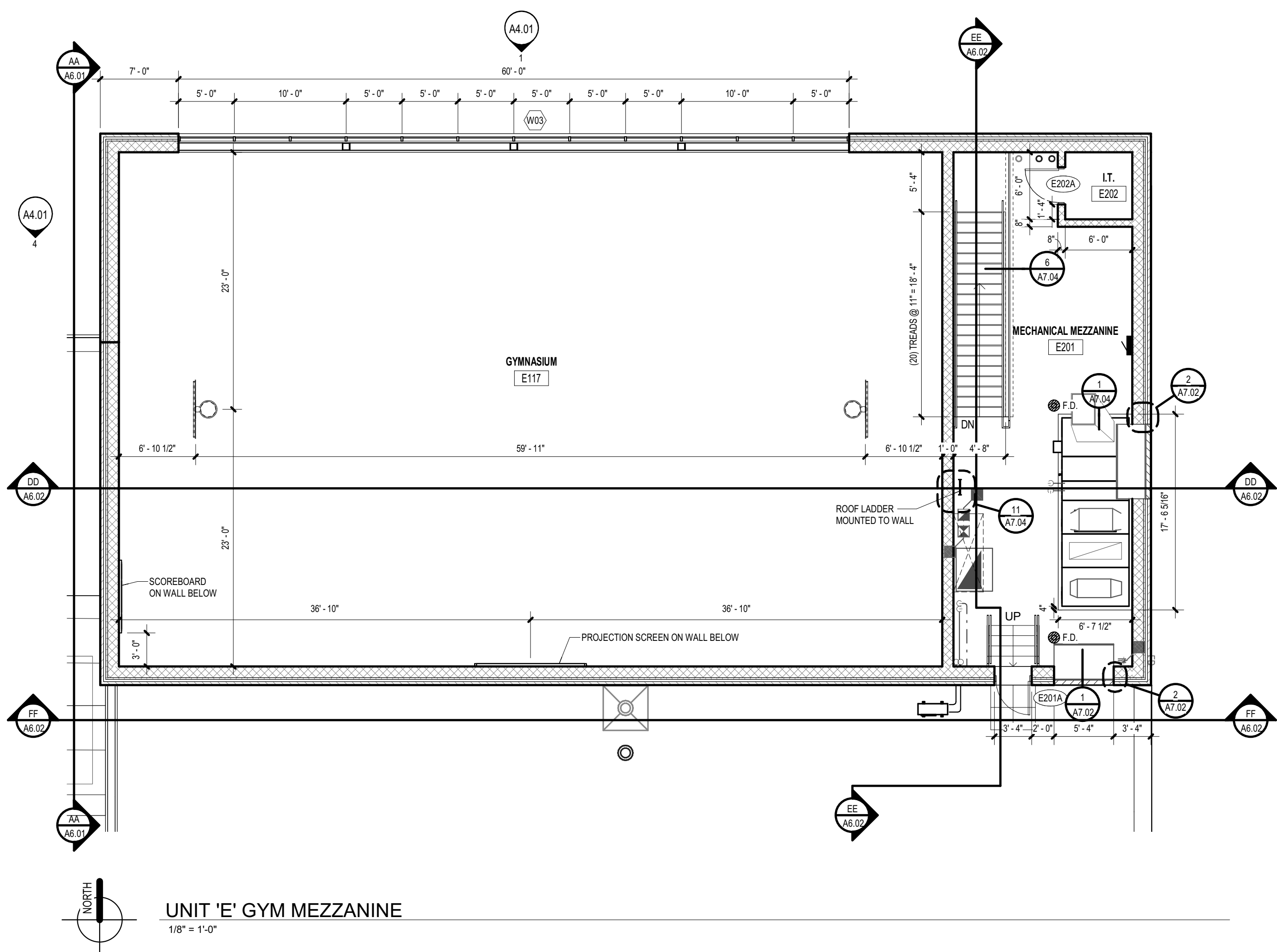
UNIT 'C' FLOOR PLAN

- GENERAL FLOOR PLAN NOTES:**
- DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.
 - REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.
 - INTERIOR STUD WALLS ARE TO USE 3 5/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
 - TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE.
 - SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.)
 - EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.
 - REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.
 - FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINETS, FRAMES, STRUCTURAL ITEMS, ETC.
 - PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILING TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR / SITE SUPERVISOR.
 - COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LADERS, PIPING, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
 - ALL GUARDRAILS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2018 I.B.C., AND ICC A111.1-2009 & AMERICANS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
 - PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE G0.01 FOR REQUIREMENTS.
 - FOR ALL CABINETS, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
 - ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE - UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO MAINTAIN/REPAIR RATTING OF EXISTING PARTITIONS AS APPROVED BY DEMOLITION / NEW CONSTRUCTION. TYPICAL THROUGHOUT.
 - SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
 - WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR LINTELS CONDITIONS PER SPECIFICATIONS.
 - WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASEWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SAID PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING. AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT.
 - SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS.
 - ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5/8.
 - ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5/8.
 - ALL INTERIOR NON-BEARING WALLS OVER 16'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-5/8.

WALL LEGEND

	5/8" GYP. BOARD BOTH SIDES 1/2" LIGHT GA. METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL. WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE.
	5/8" GYP. BOARD BOTH SIDES 1/2" LIGHT GA. METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL. WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE.
	CMU WALL. SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN. (8" TYPICAL U.N.O.)
	BRICK AND CMU WALL W/ 2" SPRAY APPLIED INSULATION. SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN. SEE WALL SECTIONS FOR ADDITIONAL DETAILS, BANDING, ETC. (3 5/8" BRICK & 8" CMU TYPICAL U.N.O.)
	CONCRETE WALL. SEE STRUCTURAL PLANS FOR REQUIRED REINFORCING.

-FIRE RATINGS AS CALLED FOR ON CODE COMPLIANCE PLAN
-DIMENSIONS GIVEN ARE TO THE FINISHED FACE OF CMU OR GYPSUM WALL BOARD UNLESS NOTED OTHERWISE



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10.04.2022 BIDS AND CONSTRUCTION
02.16.2023 BULLETIN 003

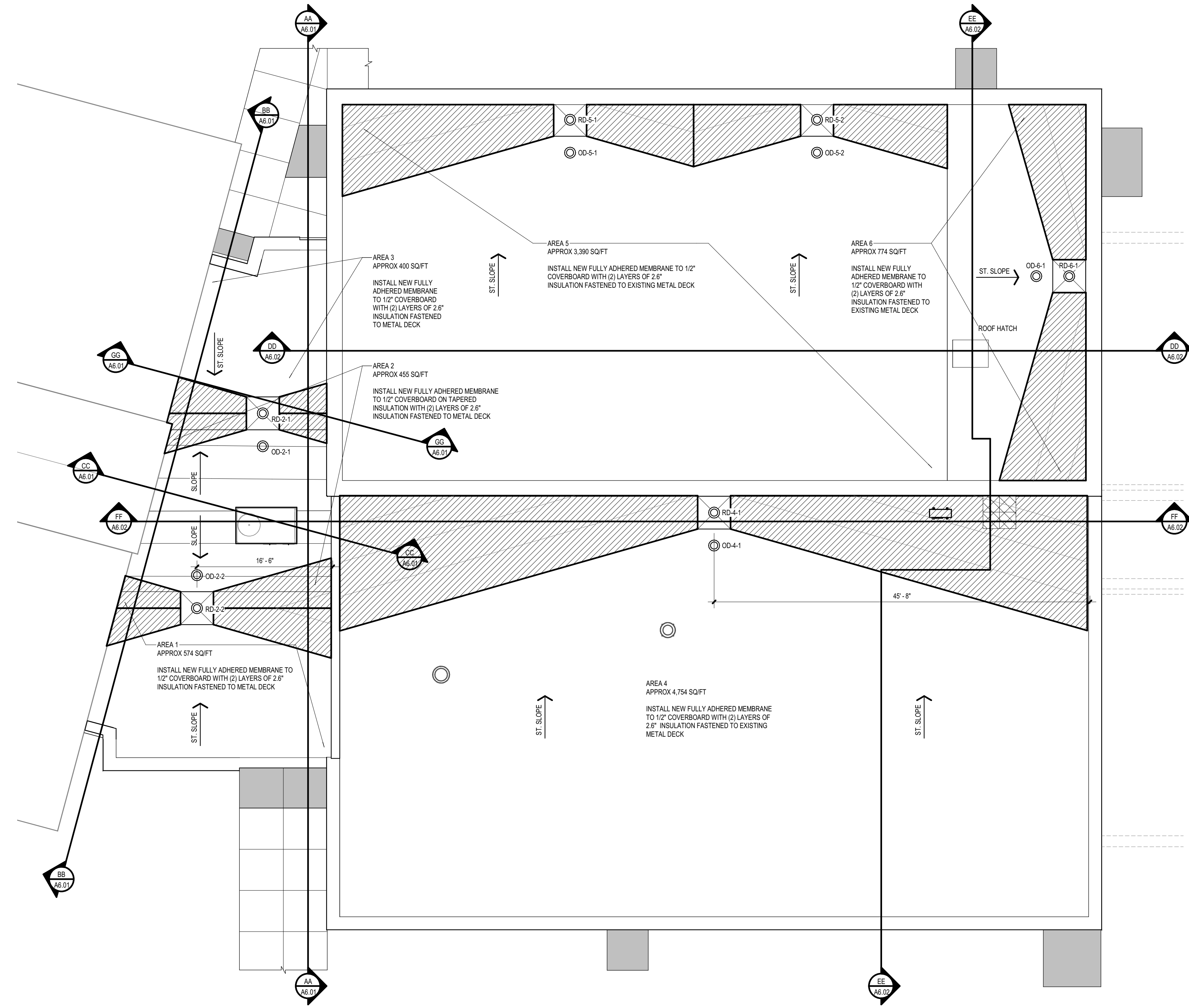
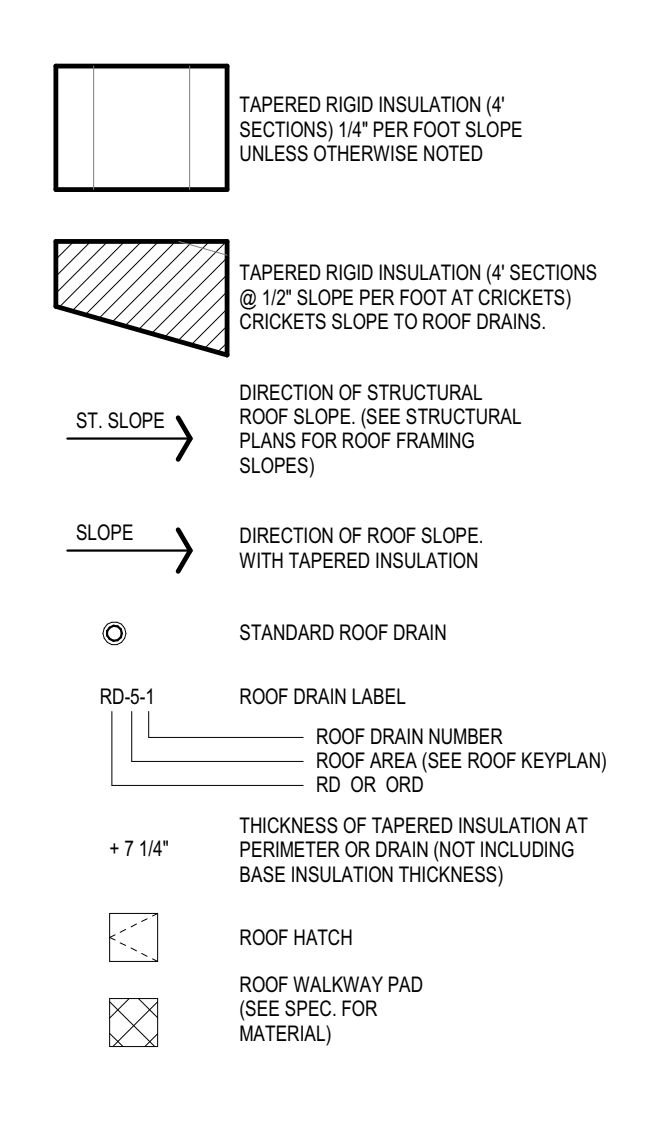
DRAWN MEE
REVIEWED TGD
PROJECT NO. 5-5769
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UNIT 'E' FLOOR PLAN AND GYM MEZZANINE PLAN
A2.1E

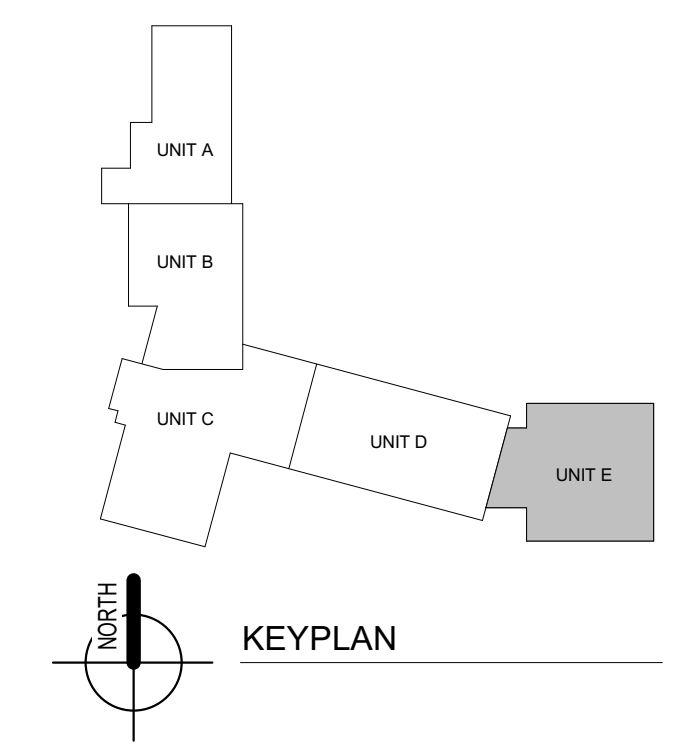
GENERAL NOTES

- ROOF DETAILS - LOCATED ON SHEET A7.01
 - ROOF DRAIN - 19A7.01
 - ROOF OVERFLOW DRAIN - 19A7.01
 - FASTENING ENHANCEMENT AT CORNER - SEE SPEC AND DETAIL 11A7.01
 - PLUMBING VENT - 19A7.01
 - STACK FLASHING - 19A7.01
 - METAL COPING SPICE DETAIL - 19A7.01
 - ROOF CURB DETAIL - 19A7.01
- RE-ROOFING EXISTING NAELERS / BLOCKING TO REMAIN: CONTRACTOR TO FIELD VERIFY THE EXISTING NAELERS / BLOCKING WILL COMPLY TO MEET THE WIND UPLIFT CRITERIA. REMOVE ALL DAMAGED NAELERS / BLOCKING AND / OR INSTALL ADDITIONAL FASTENER AS REQUIRED TO COMPLY.
- REFER TO PLUMBING DRAWINGS FOR LOCATION AND NUMBER OF PLUMBING VENTS THRU ROOF.
- REFER TO MECHANICAL DRAWINGS TO COORDINATE ALL ROOF PENETRATIONS & LOCATIONS.
- PROVIDE 1" TAPERED CROCKETS AT ALL ROOF HATCHES AND MECHANICAL ROOF PENETRATIONS UNLESS OTHERWISE NOTED. TAPER SHALL PROVIDE DRAINAGE AROUND HATCH AND EQUIPMENT.
- SEE SPECIFICATION FOR ROOFING SYSTEM TO BE USED AND ROOF PLAN FOR LOCATIONS OF TAPERED INSULATION AND OR SLOPE CHANGES OF ROOF.
- CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL SQUARE FOOTAGE VALUES NOTED ON PLANS.
- IN AREAS WHERE EXISTING ROOF DRAINS ARE BEING REPLACED WITH NEW ROOF DRAIN TO BE INSTALLED IN THE EXACT LOCATION OR EXISTING AND WILL BE CONNECTED TO EXISTING PIPING AS REQUIRED.
- SCUPPER LOCATIONS TO BE COORDINATED SO THAT THEY DO NOT APPEAR OVER DOORS, WINDOWS OR MECHANICAL LOUVERS.
- STANDARD ROOF ABBREVIATIONS
 - RD = ROOF DRAIN
 - ORD = OVERFLOW ROOF DRAIN
 - EF = EXHAUST FAN
 - IV = INTAKE VENT
 - RTU = ROOF TOP UNIT
 - RV = RELIEF VENT

LEGEND



UNIT 'E' ROOF PLAN
1/8" = 1'-0"



ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

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UNIT 'E' ROOF PLAN

TOILET ACCESSORIES LEGEND (SEE SHEET 02.01 FOR MOUNTING HEIGHTS) (SEE SPEC)			
ⓐ PAPER TOWEL DISPENSER (BY OWNER)	ⓓ NAPKIN DISPOSAL (RECESSED)	ⓑ TOILET PAPER DISPENSER (BY OWNER)	ⓔ NAPKIN DISPOSAL (WALL MOUNTED)
ⓒ SOAP DISPENSER (BY OWNER)	ⓕ BABY CHANGING STATION	ⓓ BARRIER FREE GRAB BARS	ⓕ 24" x 60" FRAMED GLASS MIRROR
ⓔ 24" x 36" FRAMED GLASS MIRROR	ⓕ ELECTRIC HAND DRYER	ⓕ RECESSED NAPKIN DISPENSER	

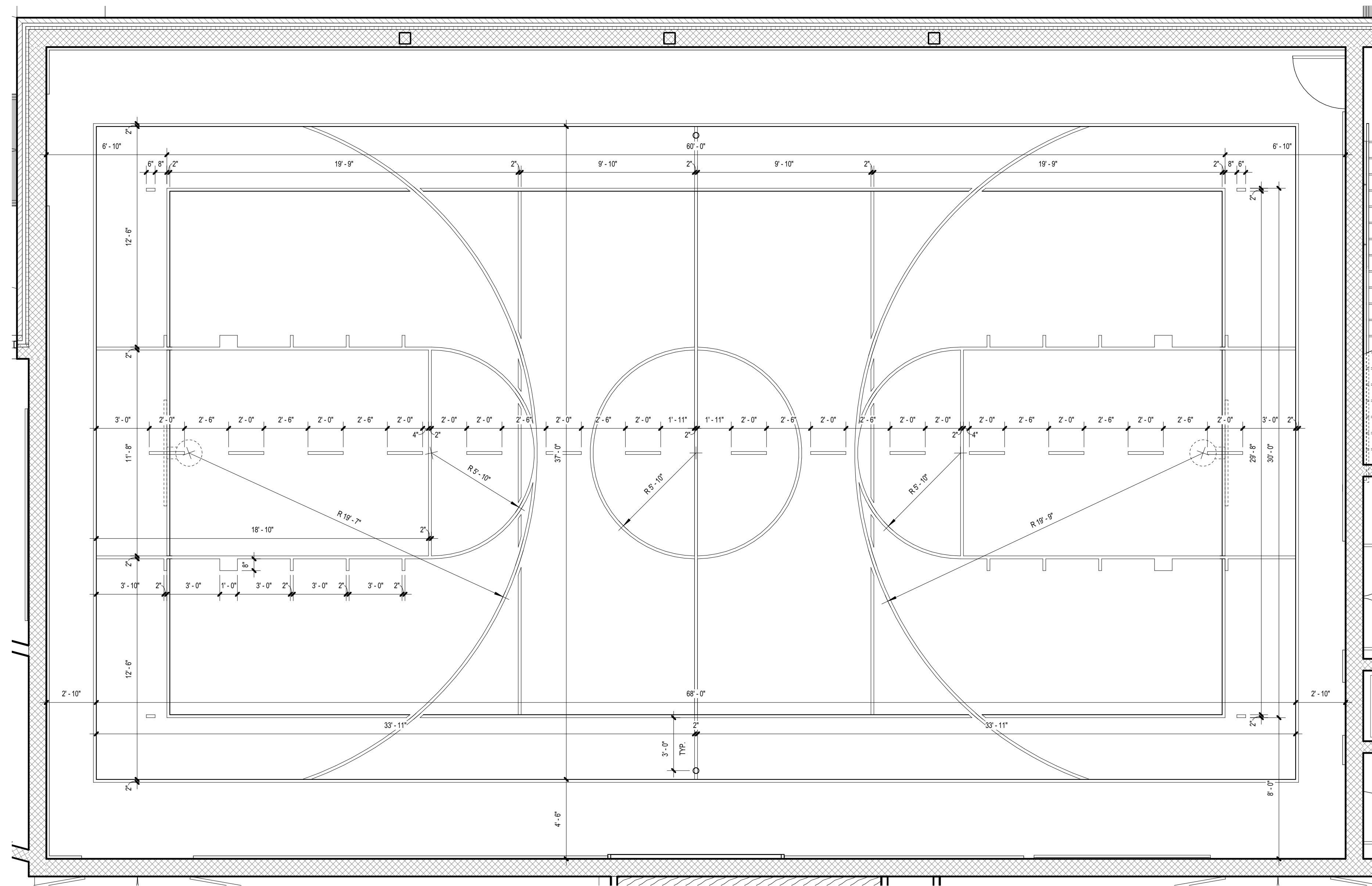
COURT STRIPING NOTES:

ACTIVITY	LINE WIDTH	PRIORITY
MAIN BASKETBALL	2"	1st
MAIN VOLLEYBALL	2"	2nd
CROSS COURT BASKETBALL	2"	3rd
CROSS COURT VOLLEYBALL	2"	4th

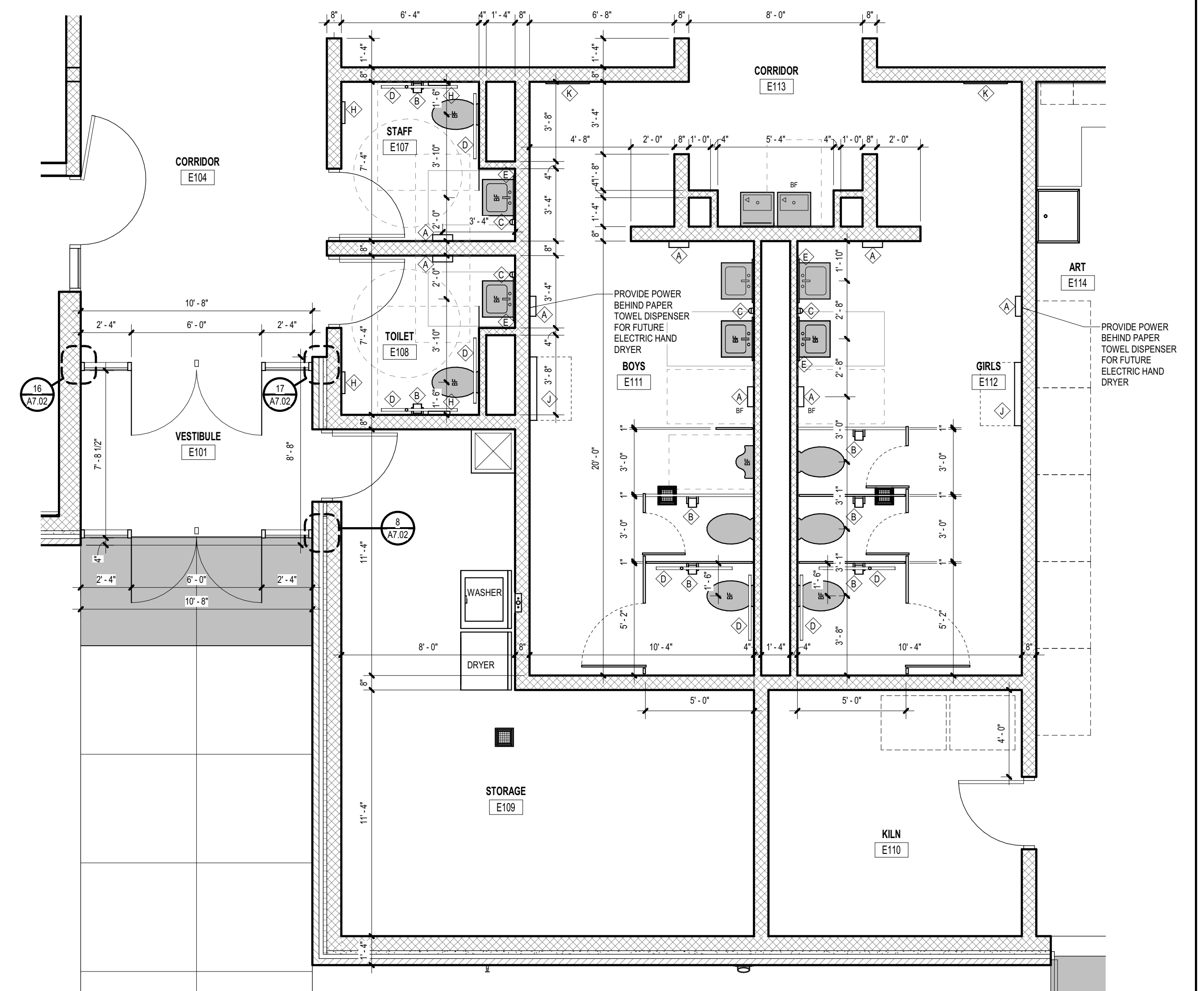
OVERALL COURT SIZES:	
MAIN BASKETBALL	50' x 94'
ALL VOLLEYBALL	30' x 60'
CROSS COURT BASKETBALL	50' x 74'

GENERAL NOTES:

- VERIFY AND APPROVE ALL FLOOR STRIPING & PAINTING (INCLUDING COLORS) WITH OWNER BEFORE WORK IS TO PROCEED.
- SEE SPECIFICATIONS FOR GYMNASIUM WOOD FLOORING SYSTEM.
- DIMENSIONS FOR FLOOR LINES ARE TO THE COURT'S EDGE OF LINE UNLESS NOTED AS CENTERLINE.
- SEE COURT STRIPING NOTES FOR TYP. COURT LINE WIDTHS OR AS NOTED ON PLAN.



2 COURT STRIPING PLAN
1/4" = 1'-0"



1 ENLARGED PLAN UNIT 'E' TOILET ROOMS
1/4" = 1'-0"

ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

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ENLARGED PLANS

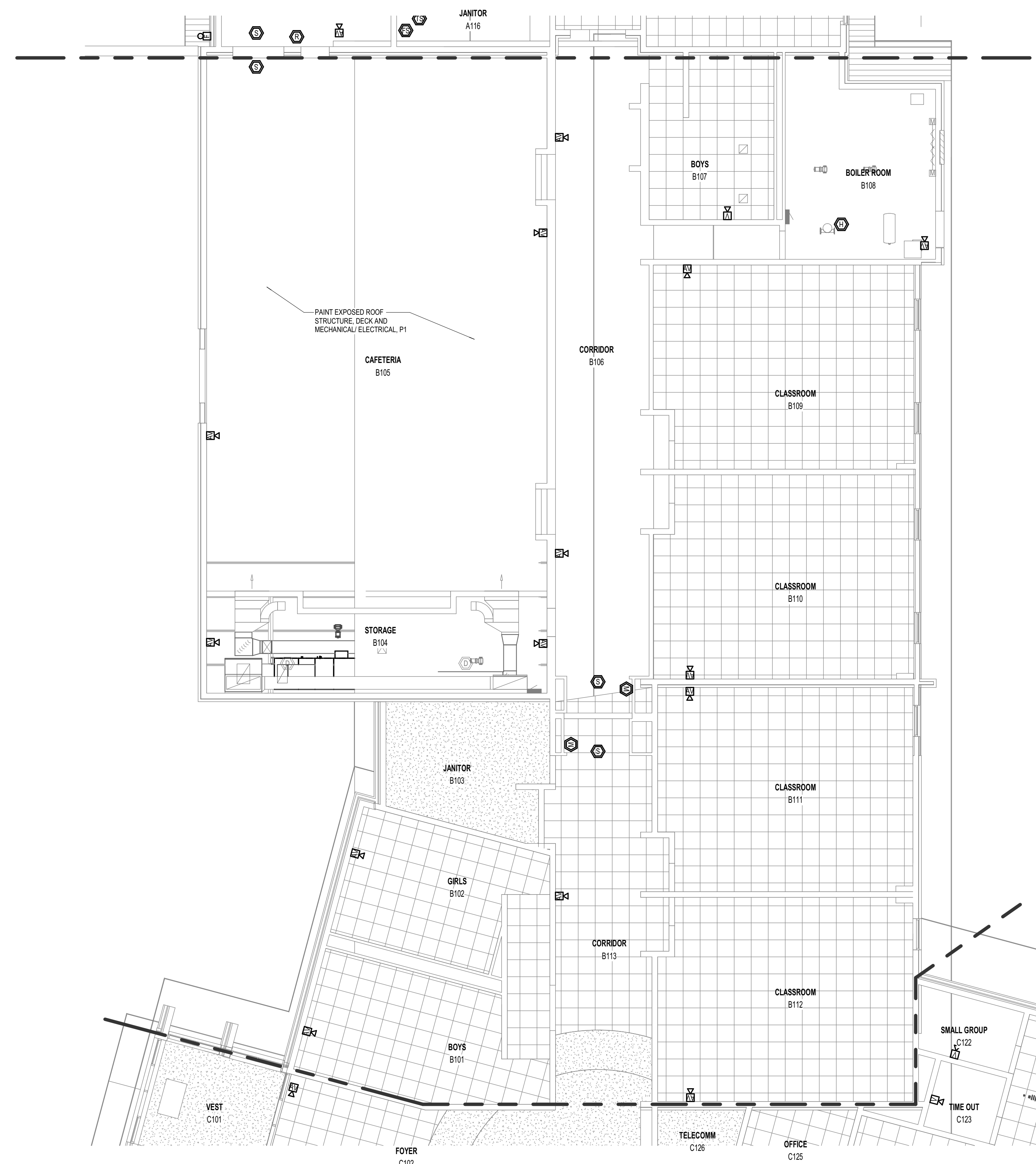
A2.80

GENERAL CEILING NOTES:

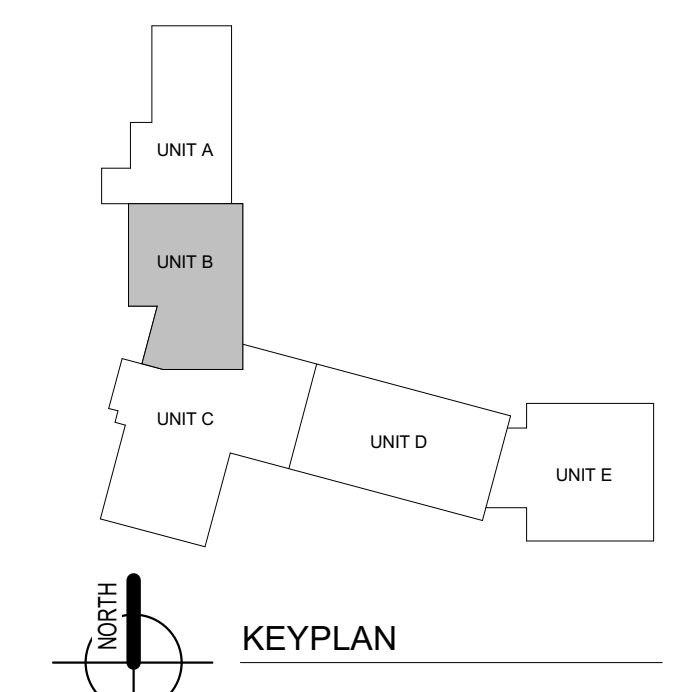
1. CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
2. CEILING TILE TYPE AS SPECIFIED. CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
3. WIRE CEILING FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS AND CEILING DIFFUSERS.
4. UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2'-0" X 2'-0" OR 2'-0" X 4'-0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.
5. PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.
6. MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
7. PROVIDE 2'-0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.
8. PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
9. REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
10. ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS. COORDINATE CHANGES WITH ARCHITECT & AFFECTED DISCIPLINES.
11. SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING LAYOUT.

REFLECTED CEILING LEGEND	
ACT1	CEILING TYPE
+10'-0"	HEIGHT ABOVE FINISH FLOOR
ACT1	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING: 24" X 24" SUPPORT: SUSPENSION SYSTEM
ACT2	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM
DAFS1	DIRECT-APPLIED FINISH SYSTEM C.J. SPACED 30" O' D.C. MAX. UNLESS SHOWN OTHERWISE SUPPORT: SEE DETAILS
GYP1	GYPSUM BOARD CEILING OR BULKHEAD C.J. SPACED 30" O' D.C. MAX. UNLESS SHOWN OTHERWISE SUPPORT: SUSPENSION SYSTEM OR METAL STUD FRAMING PAINT: P1 UNLESS NOTED OTHERWISE
C.J.	CONTROL JOINT
E.J.	EXPANSION JOINT
	CUT TILE
	RECESSED LIGHT FIXTURE
	SURFACE / PENDANT MOUNT LIGHT FIXTURE
	MECHANICAL SUPPLY DIFFUSER / RETURN GRILLE / EXHAUST GRILLE / LINEAR SLOT DIFFUSER
	EXIT SIGN (CEILING OR WALL-MOUNTED)
	ELECTRICAL DEVICES (CEILING OR WALL-MOUNTED)

NOTE: REFER TO STRUCTURAL, PLUMBING/FIRE PROTECTION, MECHANICAL, AND ELECTRICAL TECHNOLOGY FOR MORE DETAILED SYMBOL LEGENDS. SHOWN FOR GENERAL COORDINATION. NOT ALL SYMBOLS ARE INDICATED. NOTIFY ARCHITECT OF ANY/ALL DISCREPANCIES.



UNIT 'B' REFLECTED CEILING PLAN
1/8" = 1'-0"



KEYPLAN

BAUER ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
 HUDSONVILLE, MICHIGAN

ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5769

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UNIT 'B' REFLECTED CEILING PLAN

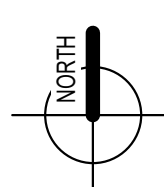
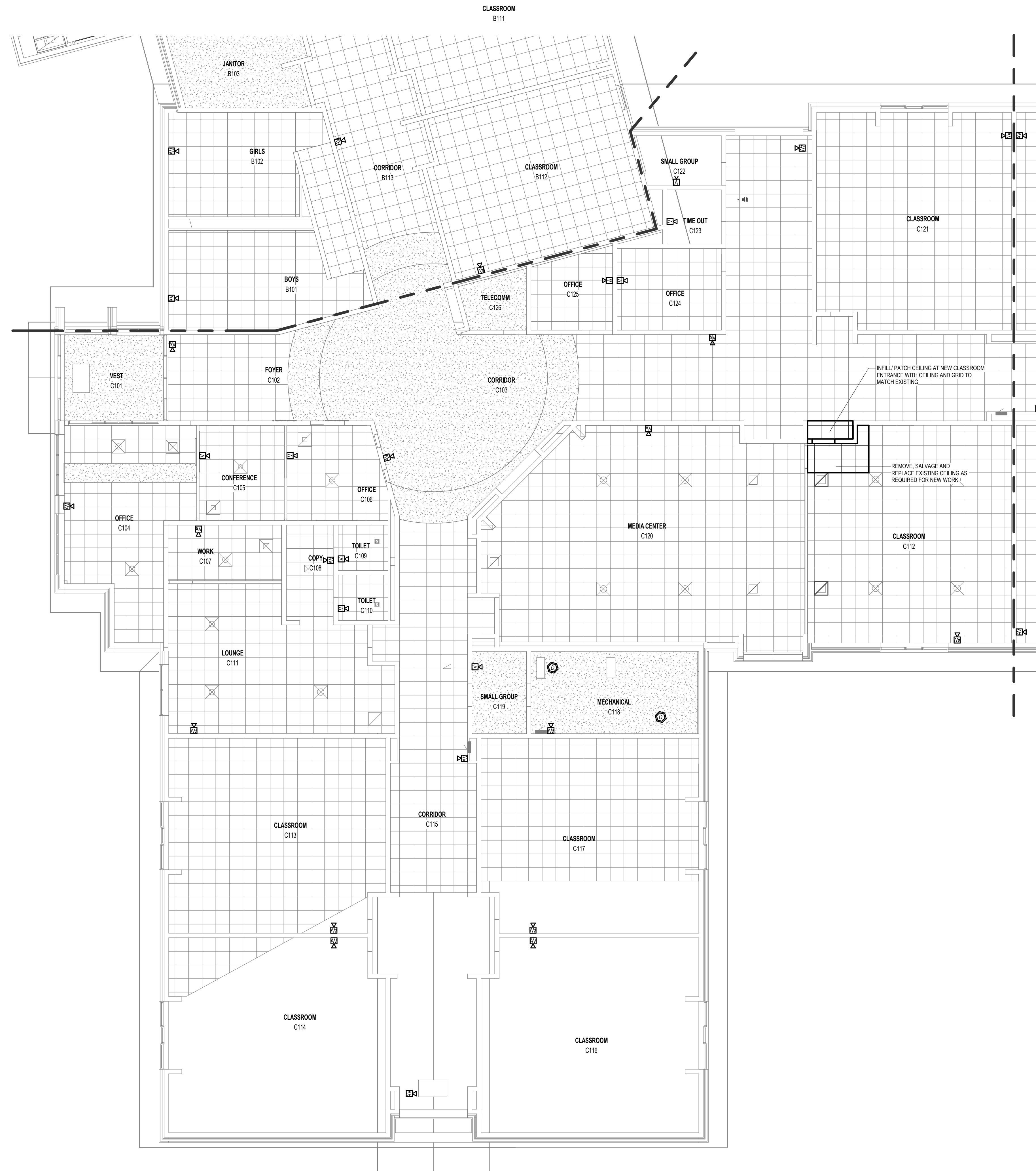
A3.1B

GENERAL CEILING NOTES:

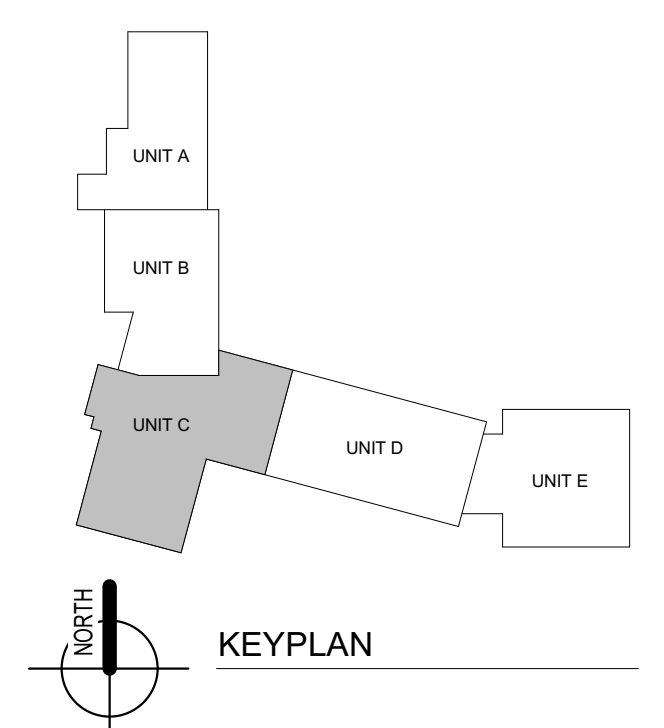
1. CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
2. CEILING TILE TYPE AS SPECIFIED. CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
3. WIRE CEILING FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS AND CEILING DIFFUSERS.
4. UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2'-0" x 2'-0" OR 2'-0" x 4'-0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.
5. PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT OUT AND SUPPORTED ON EACH SIDE.
6. MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
7. PROVIDE 2'-0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.
8. PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
9. REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
10. ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS - COORDINATE CHANGES WITH ARCHITECT & REFLECTED DISCIPLINES.
11. SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING LAYOUT.

REFLECTED CEILING LEGEND	
ACT1	CEILING TYPE
+10'-0"	HEIGHT ABOVE FINISH FLOOR
	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING: 24" x 24" SUPPORT: SUSPENSION SYSTEM
	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING: 48" x 24" SUPPORT: SUSPENSION SYSTEM
	DIRECT APPLIED FINISH SYSTEM C.J. SPACED 30" - 48" O.C. MAX. UNLESS SHOWN OTHERWISE SUPPORT: SEE DETAILS
	GYPSUM BOARD CEILING OR BULKHEAD C.J. SPACED 30" - 48" O.C. MAX. UNLESS SHOWN OTHERWISE SUPPORT: SUSPENSION SYSTEM OR METAL STUD FRAMING PAINT: *Y1 UNLESS NOTED OTHERWISE
C.J.	CONTROL JOINT
E.J.	EXPANSION JOINT
	CUT TILE
	RECESSED LIGHT FIXTURE
	SURFACE / PENDANT MOUNT LIGHT FIXTURE
	MECHANICAL SUPPLY DIFFUSER / RETURN GRILLE / EXHAUST GRILLE / LINEAR SLOT DIFFUSER
	EXIT SIGN (CEILING OR WALL-MOUNTED)
	ELECTRICAL DEVICES (CEILING OR WALL-MOUNTED)

NOTE: REFER TO STRUCTURAL, PLUMBING/FIRE PROTECTION, MECHANICAL, AND ELECTRICAL TECHNOLOGY FOR MORE DETAILED SYMBOL LEGENDS SHOWN FOR GENERAL COORDINATION. NOT ALL SYMBOLS ARE INDICATED. NOTIFY ARCHITECT OF ANY/ALL DISCREPANCIES.



UNIT 'C' REFLECTED CEILING PLAN
1/8" = 1'-0"



KEYPLAN

ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5769

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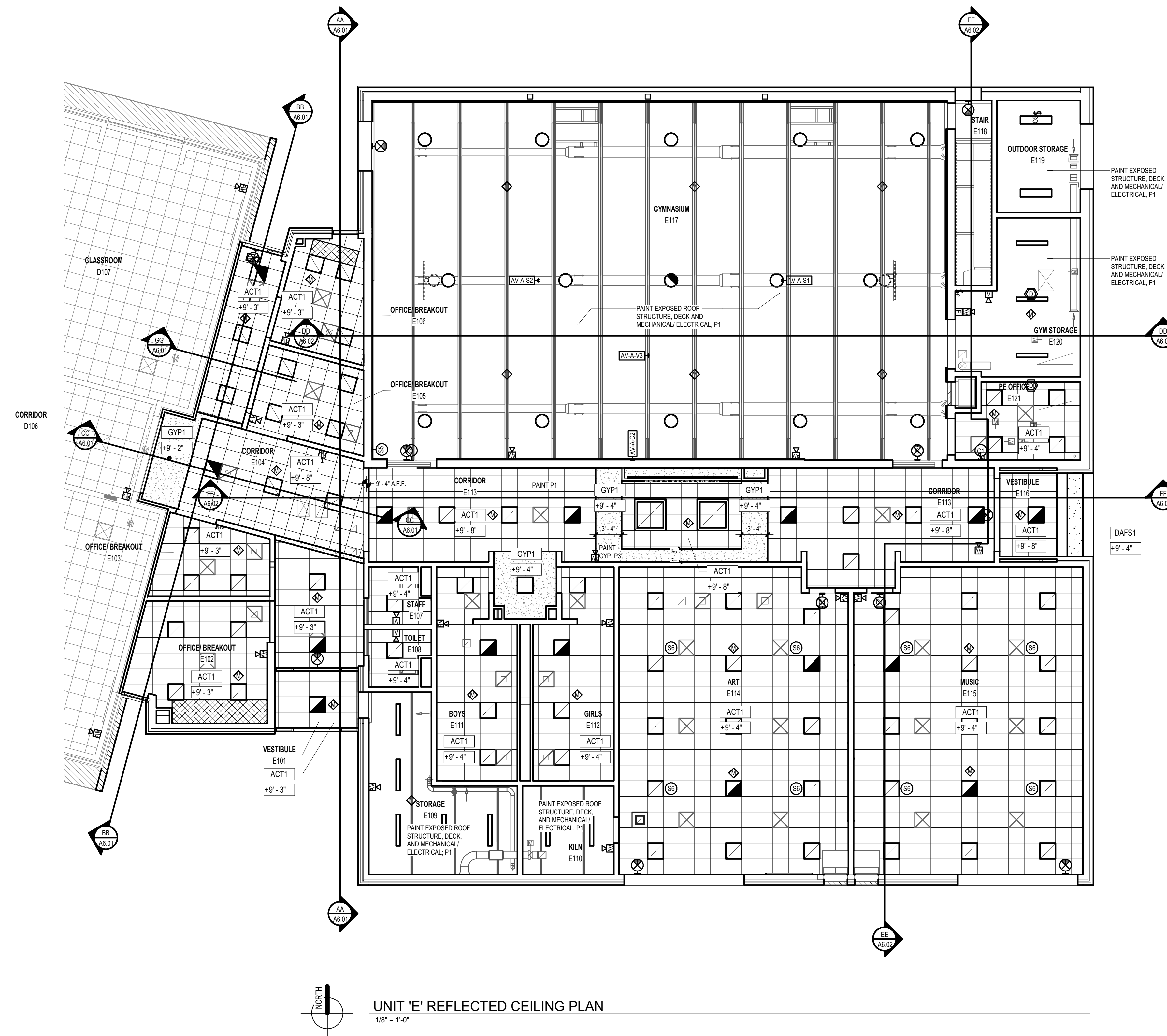
UNIT 'C' REFLECTED CEILING PLAN

GENERAL CEILING NOTES:

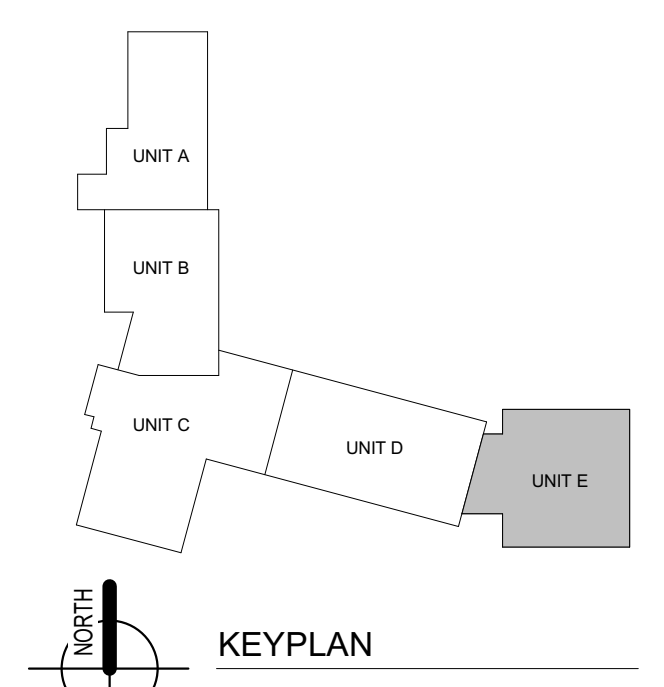
- CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
- CEILING TILE TYPE AS SPECIFIED - CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
- WIRE CEILING FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS AND CEILING DIFFUSERS.
- UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2'-0" X 2'-0" OR 2'-0" X 4'-0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.
- PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.
- MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
- PROVIDE 2'-0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.
- PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
- REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
- ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORSSEEN FIELD CONDITIONS - COORDINATE CHANGES WITH ARCHITECT & AFFECTED DISCIPLINES.
- SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING LAYOUT.

REFLECTED CEILING LEGEND	
ACT1	CEILING TYPE
+10' - 0"	HEIGHT ABOVE FINISH FLOOR
	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING 24" X 24" SUPPORT: SUSPENSION SYSTEM
	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING 48" X 24" SUPPORT: SUSPENSION SYSTEM
	DIRECT-APPLIED FINISH SYSTEM C.J. SPACED 30" - 36" O.C. MAX. UNLESS SHOWN OTHERWISE SUPPORT: SUSPENSION SYSTEM OR METAL STUD FRAMING PAINT: "P1" UNLESS NOTED OTHERWISE
	GYPSUM BOARD CEILING OR BULKHEAD C.J. SPACED 30" - 36" O.C. MAX. UNLESS SHOWN OTHERWISE SUPPORT: SUSPENSION SYSTEM OR METAL STUD FRAMING PAINT: "P1" UNLESS NOTED OTHERWISE
C.J.	CONTROL JOINT
E.J.	EXPANSION JOINT
	CUT TILE
	RECESSED LIGHT FIXTURE
	SURFACE / PENDANT MOUNT LIGHT FIXTURE
	MECHANICAL SUPPLY DIFFUSER / RETURN GRILLE / EXHAUST GRILLE / LINEAR SLOT DIFFUSER
	EXIT SIGN (CEILING OR WALL-MOUNTED)
	ELECTRICAL DEVICES (CEILING OR WALL-MOUNTED)

NOTE: REFER TO STRUCTURAL, PLUMBING/FIRE PROTECTION, MECHANICAL, AND ELECTRICAL TECHNOLOGY FOR MORE DETAILED SYMBOL LEGENDS SHOWN FOR GENERAL COORDINATION. NOT ALL SYMBOLS ARE INDICATED. NOTIFY ARCHITECT OF ANY/ALL DISCREPANCIES.



UNIT 'E' REFLECTED CEILING PLAN
1/8" = 1'-0"



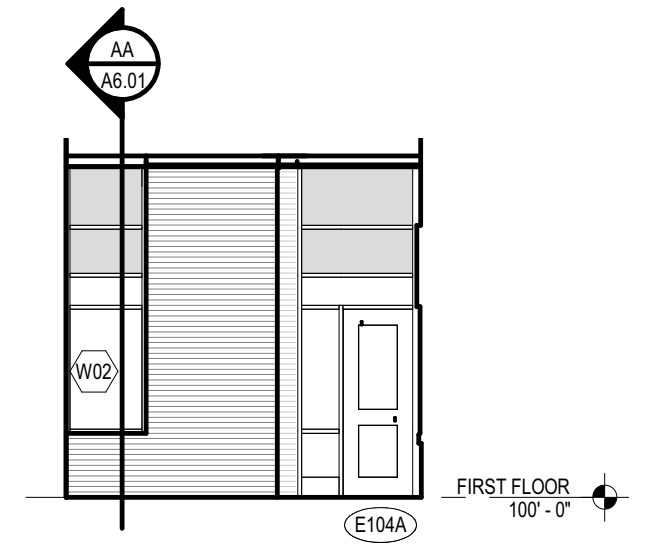
ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

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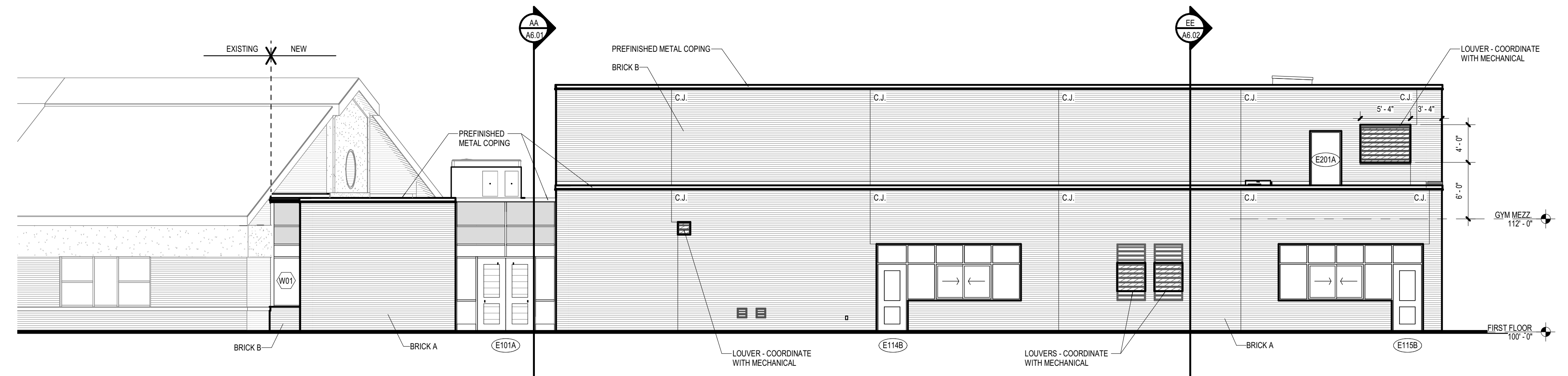
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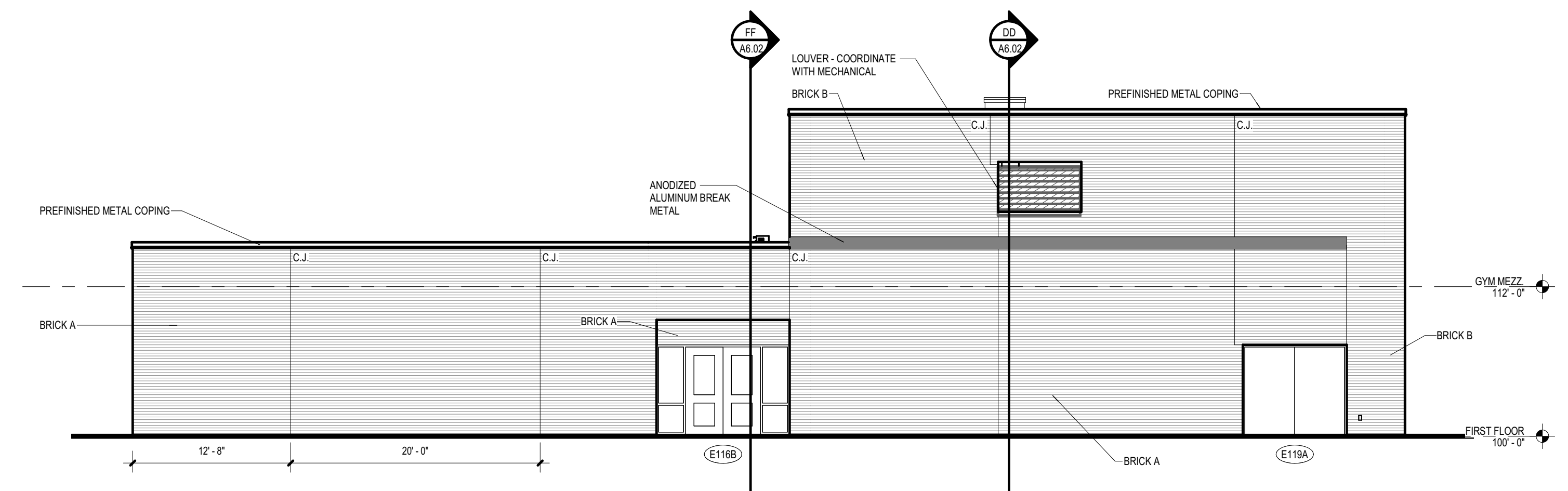
UNIT 'E' REFLECTED CEILING PLAN



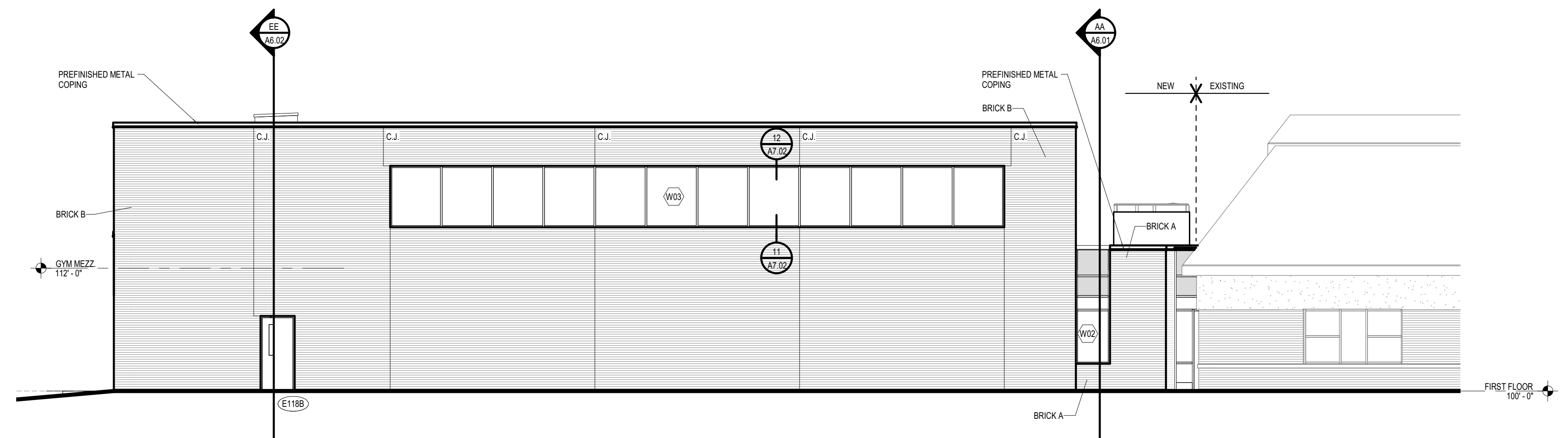
4 UNIT 'E' PARTIAL NORTH ELEVATION
1/8" = 1'-0"



3 UNIT 'E' SOUTH ELEVATION
1/8" = 1'-0"



2 UNIT 'E' EAST ELEVATION
1/8" = 1'-0"



1 UNIT 'E' NORTH ELEVATION
1/8" = 1'-0"

ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

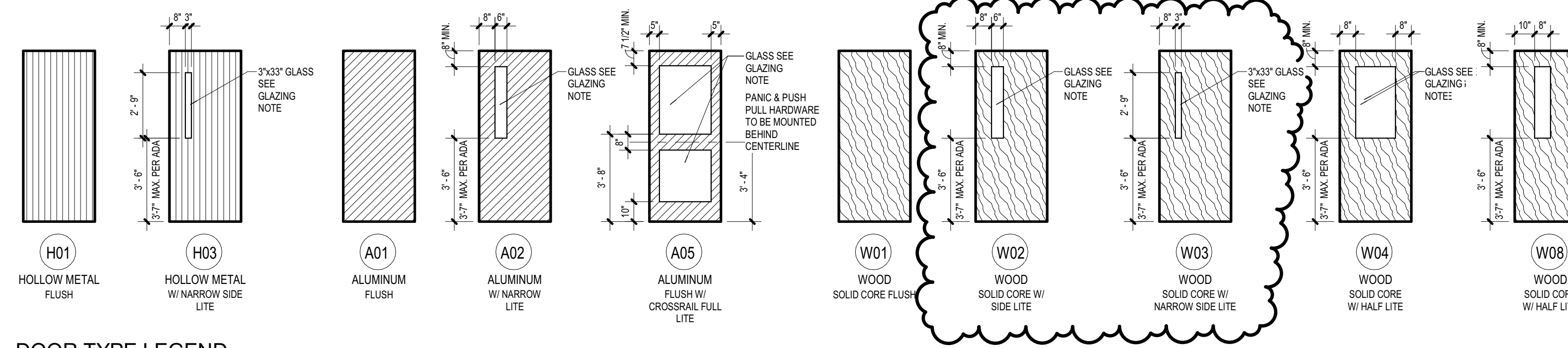
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EXTERIOR ELEVATION

A4.01



DOOR TYPE LEGEND
1/4" = 1'-0"

GLAZING NOTES:

ALL EXTERIOR WINDOWS AND DOOR LITES.
1" INSULATED PER SPECIFICATIONS.

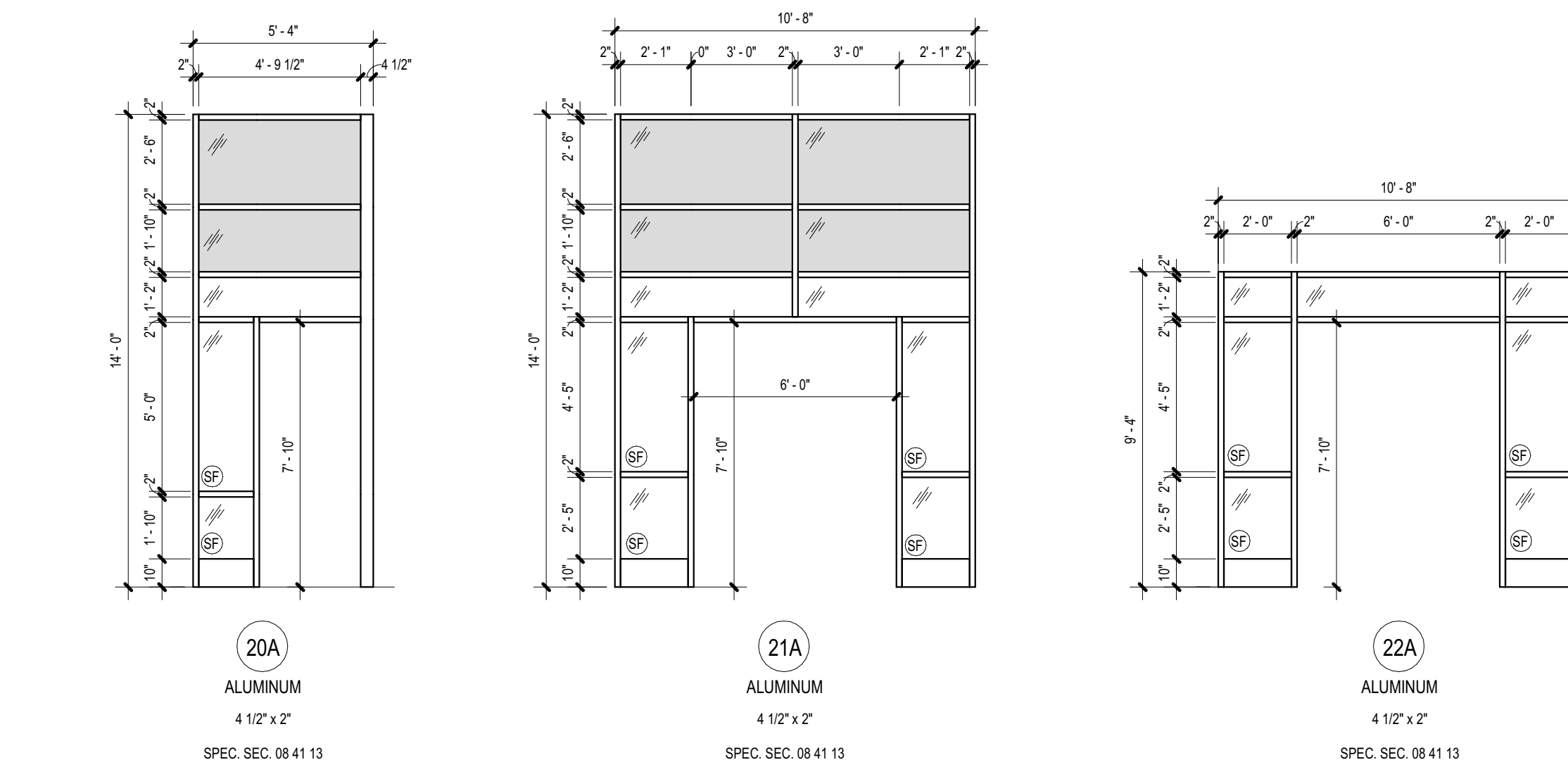
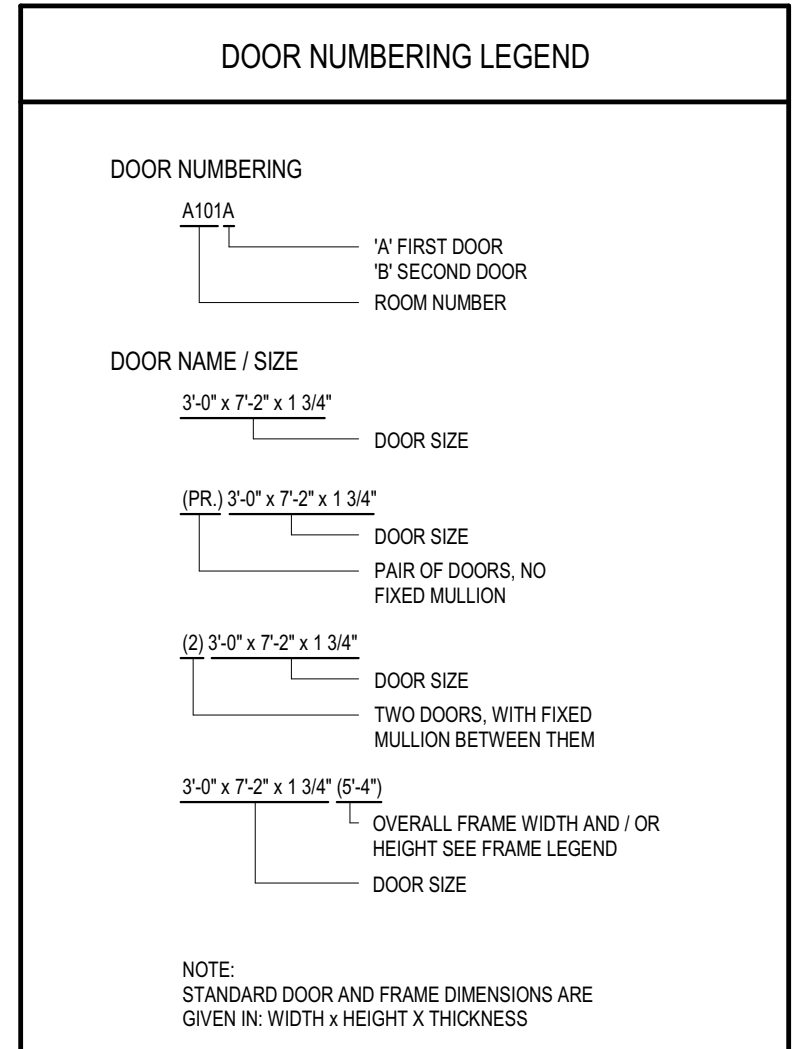
INTERIOR DOOR & BORROWED LITES.
1/4" CLEAR TYPICAL EXCEPT FIRE-RATED - SEE SPECIFICATIONS.
GLASS TO BE TEMPERED AS REQUIRED BY SPECIFICATIONS AND APPLICABLE CODES.

MAXIMUM GLASS AREA PER FIRE RATING:
180 MIN. LABEL = NO GLASS
90 MIN. LABEL = 100 SQ. IN.
45 MIN. LABEL = 1256 SQ. IN.
20 MIN. LABEL = AS TESTED

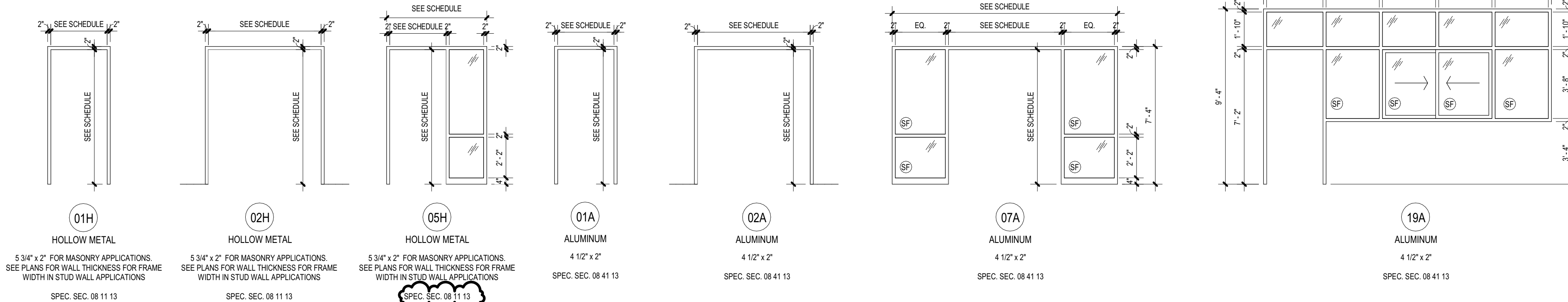
VERIFY COMPLIANCE TO ALL APPLICABLE CODES.
ADJUST LITE SIZE BASED ON SCHEDULED FIRE RATING AS NECESSARY.

NOTE: ALL SIDELITES AND TRANSOMS W/ 20 MIN. DOORS REQUIRE 45 MIN. RATED GLAZING.

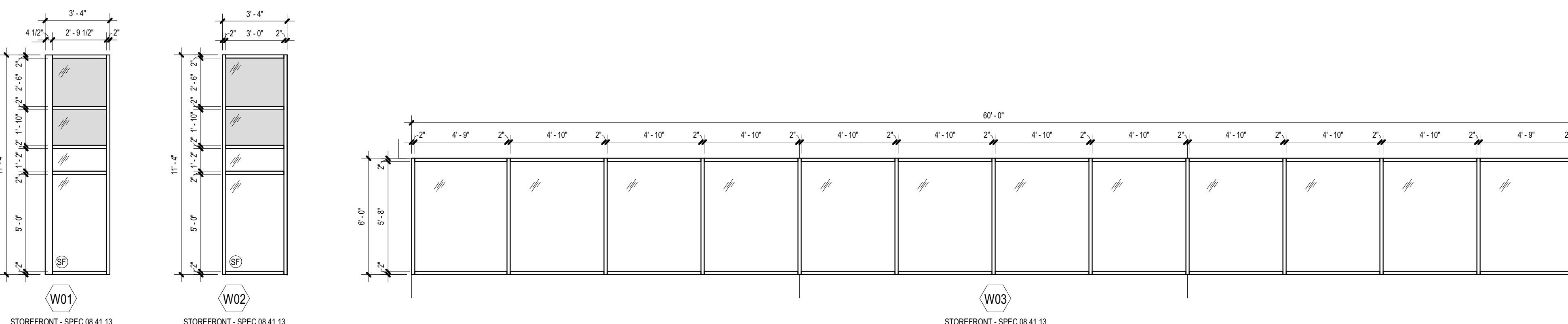
(E) = EGRESS PANE
(G) = GRAPHIC FILM
(S) = SAFETY GLAZING
(SF) = SECURITY FILM
(SD) = SECURITY GLAZING
(ST) = SELF TINTING GLAZING
[] = SPANDREL PANEL
[] = LOUVER PANEL



DOOR FRAME LEGEND
1/4" = 1'-0"



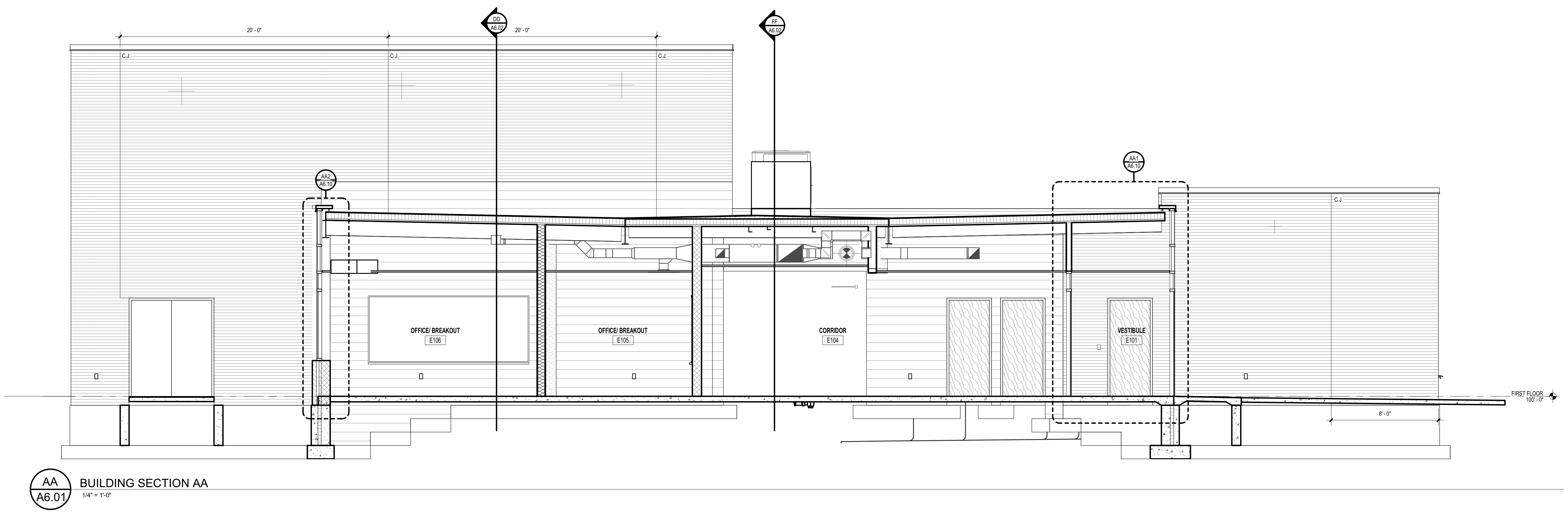
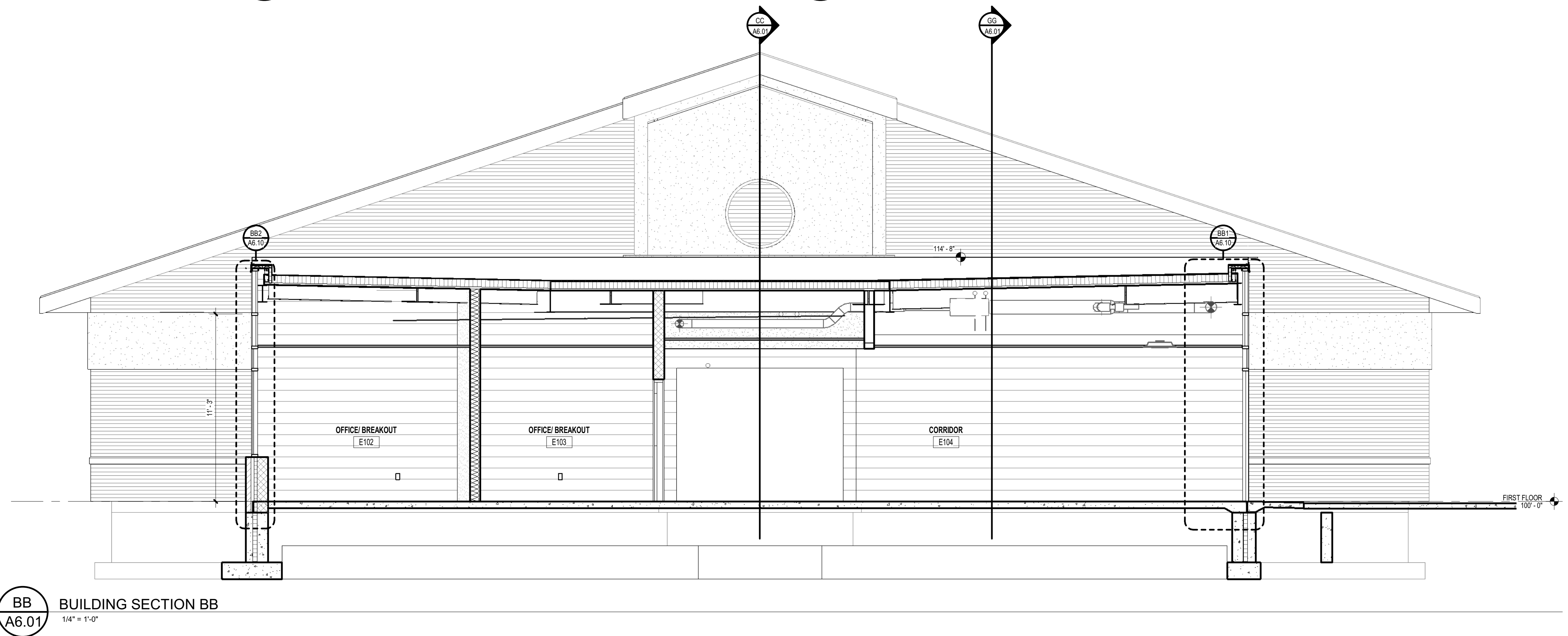
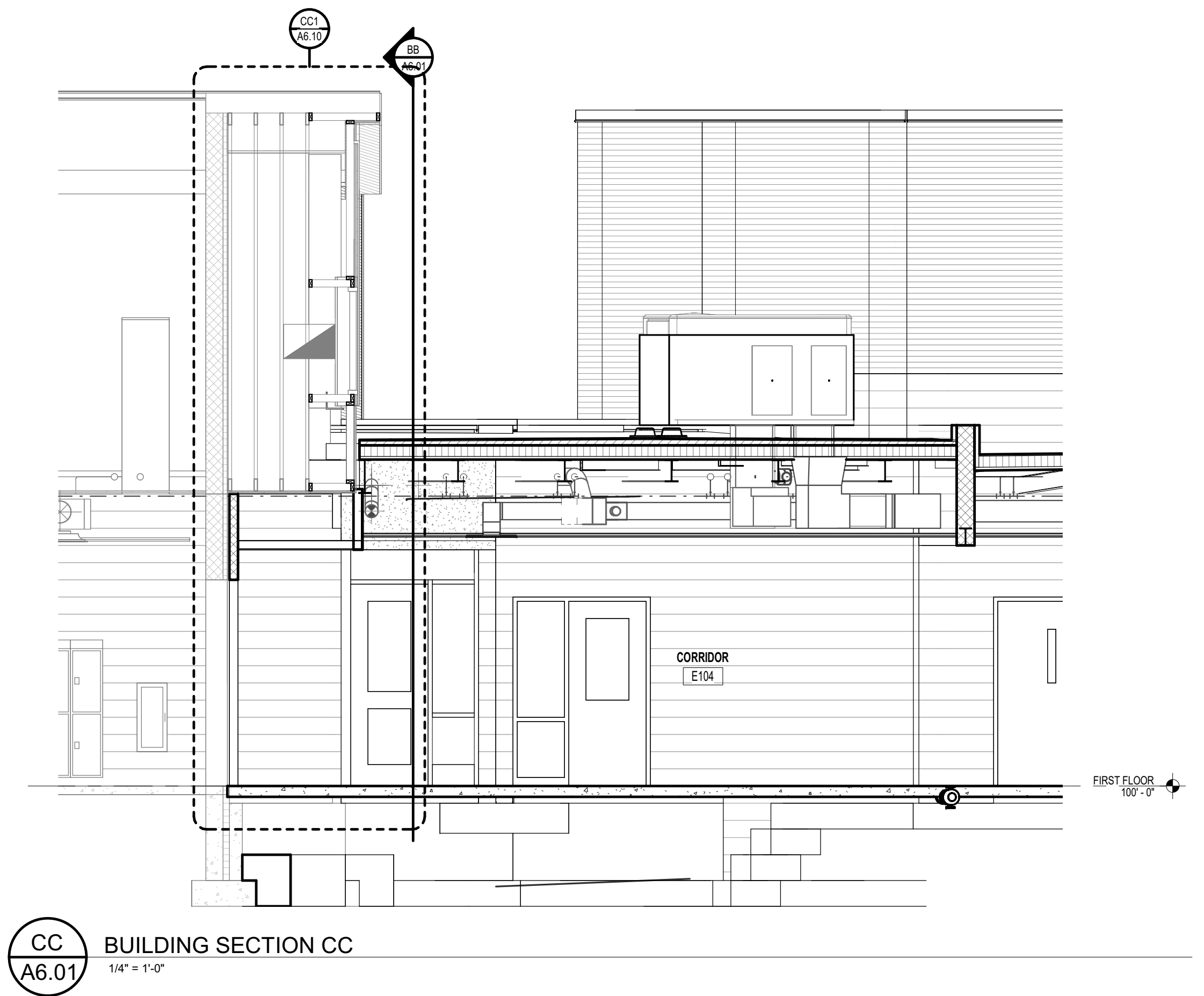
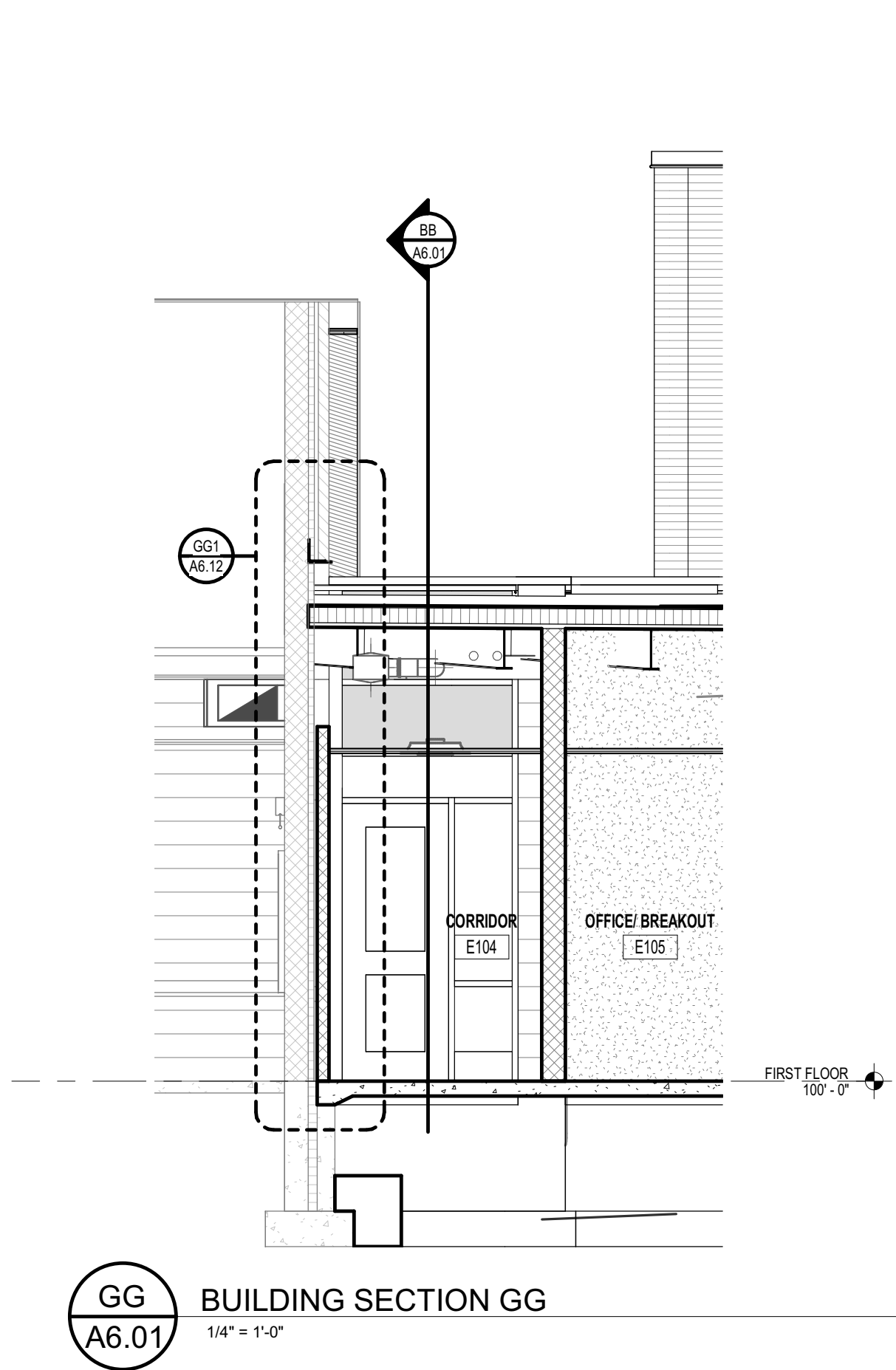
DOOR FRAME LEGEND
1/4" = 1'-0"



WINDOW LEGEND
1/4" = 1'-0"

DOOR & FRAME SCHEDULE UNIT 'E'											
DOOR NUMBER	DOOR SIZE	DOOR TYPE	FRAME TYPE	FIRE RATING	HDMR SET NO.	ELEC. HARDWARE	REMOVABLE MULLION	DETAILS			REMARKS
								HEAD	JAMB	SILL	
E101A	(PR) 3' 0" x 7' 10" x 1 3/4"	A05	21A (PR)	15				6/A7.02	8&10/A7.02	6/A7.02	
E101B	(PR) 3' 0" x 7' 10" x 1 3/4"	A05	22A (PR)	02				14/A7.02	18&17/A7.02		
E102A	3' 0" x 7' 2" x 1 3/4" (8'-4")	W04	05H	45	08			7/A7.02	7/A7.02		
E103A	3' 0" x 7' 2" x 1 3/4" (8'-4")	W04	05H	45	08			7/A7.02	7/A7.02		
E104A	3' 0" x 7' 10" x 1 3/4"	A05	20A	16				6/A7.02	17/A7.02	6/A7.02	
E105A	3' 0" x 7' 2" x 1 3/4" (8'-4")	W04	05H	45	08			7/A7.02	7/A7.02		
E106A	3' 0" x 7' 2" x 1 3/4" (8'-4")	W04	05H	45	08			7/A7.02	7/A7.02		
E107A	3' 0" x 7' 2" x 1 3/4"	W01	01H	03				7/A7.02	7/A7.02		
E108A	3' 0" x 7' 2" x 1 3/4"	W01	01H	03				7/A7.02	7/A7.02		
E109A	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	05			6/A7.02	10/A7.02		
E110A	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	06			7/A7.02	7/A7.02		
E113A	PR 4' 0" x 7' 10" x 1 3/4"	H03	02H	05				22/A7.02	21/A7.02		
E114A	3' 0" x 7' 2" x 1 3/4"	W04	01H	11				7/A7.02	7/A7.02		
E114B	3' 0" x 7' 2" x 1 3/4" (10'-4")	A05	19A	17				6/A7.02	10/A7.02	6&15/A7.02	
E115A	3' 0" x 7' 2" x 1 3/4"	W04	01H	11				7/A7.02	7/A7.02		
E115B	3' 0" x 7' 2" x 1 3/4" (10'-4")	A05	19A	17				6/A7.02	10/A7.02	6&15/A7.02	
E116A	PR 3' 0" x 7' 2" x 1 3/4" (10'-4")	A05	07A	01				7/A7.02	7/A7.02		
E116B	PR 3' 0" x 7' 2" x 1 3/4" (10'-4")	A05	07A	13				6/A7.02	10/A7.02	6/A7.02	
E117A	PR 3' 0" x 7' 2" x 1 3/4"	W02	02H	12				7/A7.02	7/A7.02		
E117B	PR 3' 0" x 7' 2" x 1 3/4"	W02	02H	12				7/A7.02	7/A7.02		
E117C	PR 3' 0" x 7' 2" x 1 3/4"	A01	02A	14				6/A7.02	10/A7.02	6/A7.02	
E118A	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	08			7/A7.02	7/A7.02		
E118B	3' 0" x 7' 2" x 1 3/4"	A02	01A	17				6/A7.02	10/A7.02	6/A7.02	
E119A	PR 4' 0" x 7' 2" x 1 3/4"	A01	02A	10				6/A7.02	10/A7.02	6/A7.02	
E120A	PR 3' 0" x 7' 2" x 1 3/4"	W01	02H	45	07			7/A7.02	7/A7.02		ADHERE WALL PADS TO DOOR LEAF
E121A	3' 0" x 7' 2" x 1 3/4" (4'-8")	W01	05H	45	06			7/A7.02	7/A7.02		
E201A	3' 0" x 7' 2" x 1 3/4"	A01	01A	09				6/A7.02	10/A7.02	13/A7.02	
E202A	3' 0" x 7' 2" x 1 3/4"	H01	01H	04				7/A7.02	7/A7.02		

DOOR & FRAME SCHEDULE UNIT 'C'											
DOOR NUMBER	DOOR SIZE	DOOR TYPE	FRAME TYPE	FIRE RATING	HDMR SET NO.	ELEC. HARDWARE	REMOVABLE MULLION	DETAILS			REMARKS
								HEAD	JAMB	SILL	
C112A	3' 0" x 7' 2" x 1 3/4"	W01	01H	120	08			7/A7.02	7/A7.02		



ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

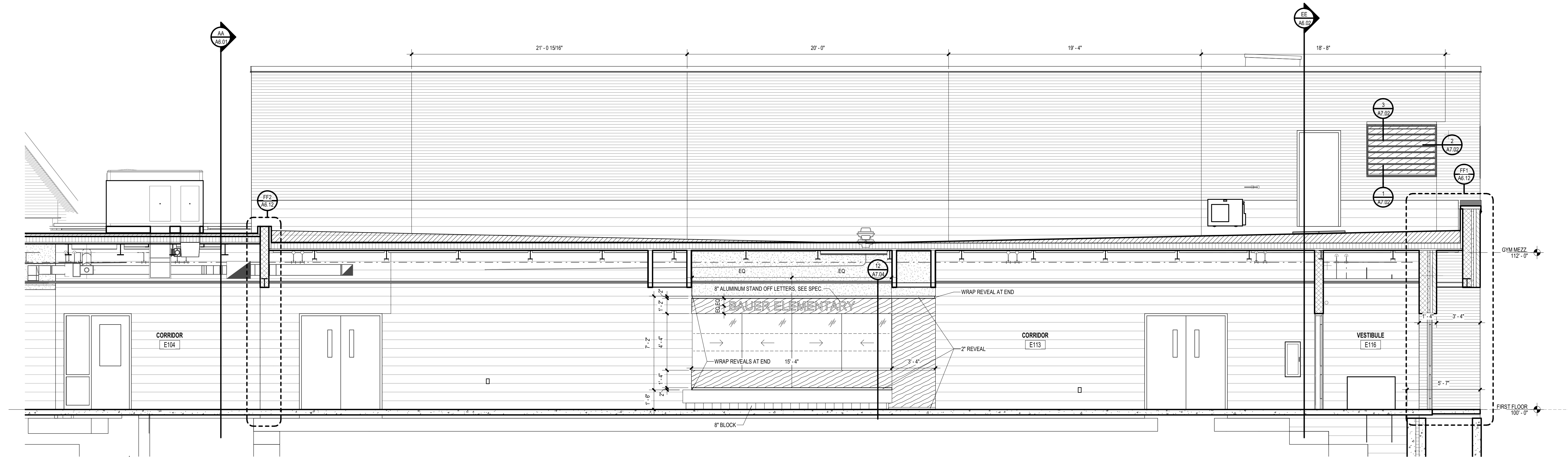
DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5769

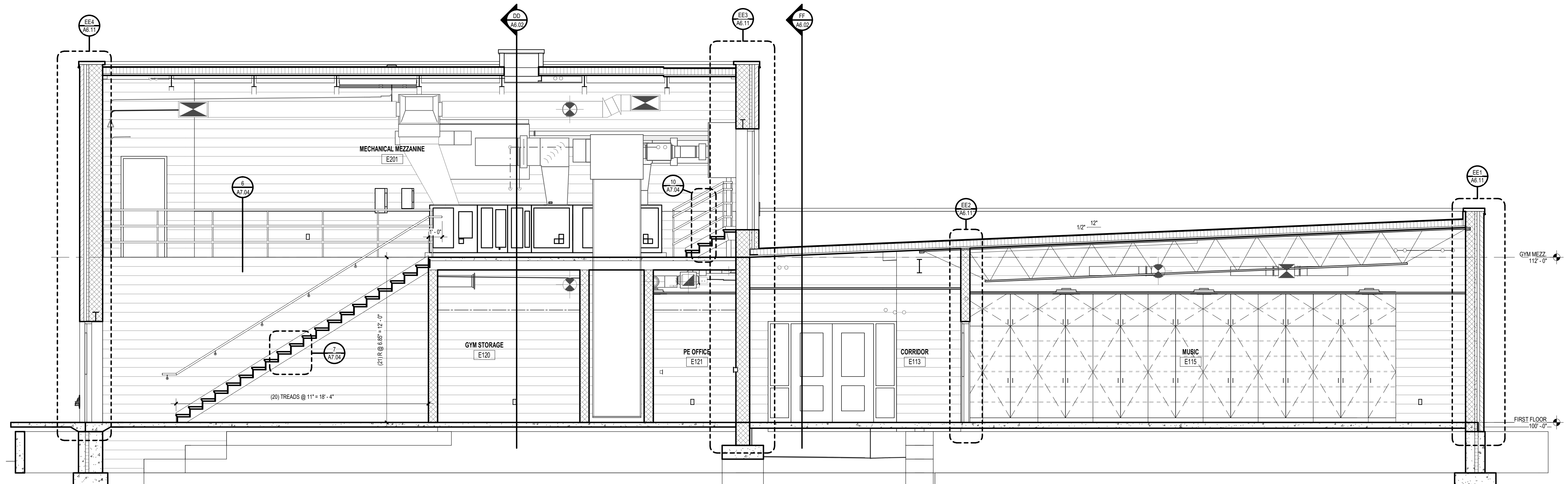
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BUILDING SECTIONS

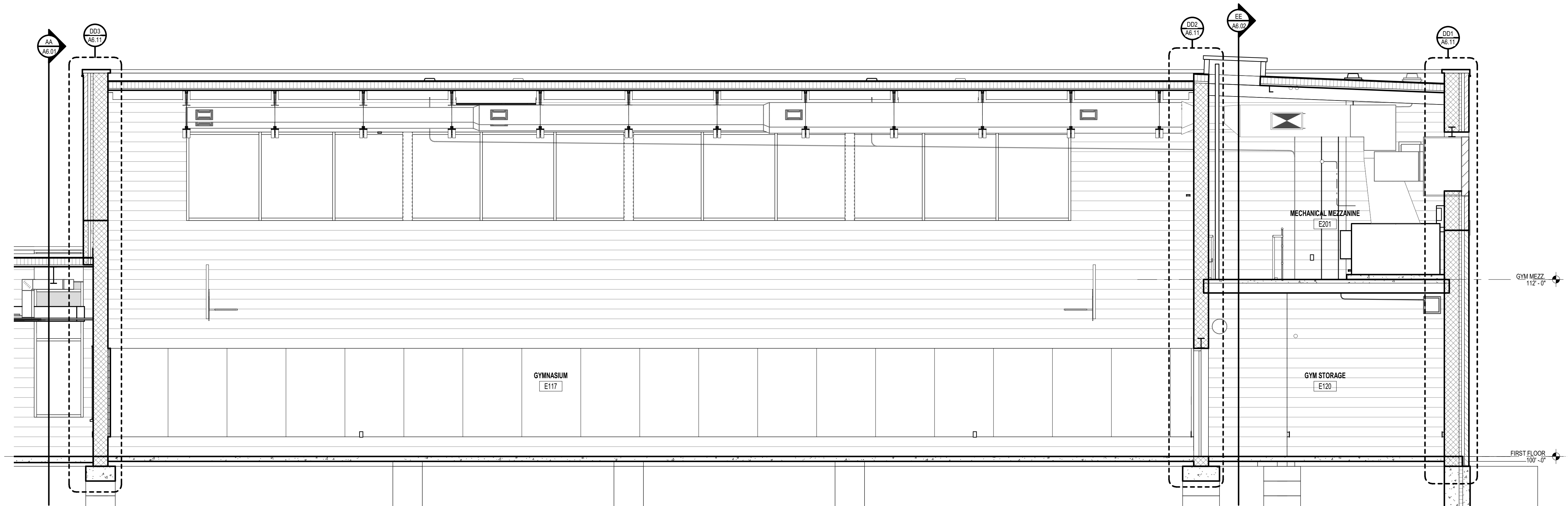
A6.01



FF
A6.02 BUILDING SECTION FF
1/4" = 1'-0"



EE
A6.02 BUILDING SECTION EE
1/4" = 1'-0"



DD
A6.02 BUILDING SECTION DD
1/4" = 1'-0"

BAUER ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

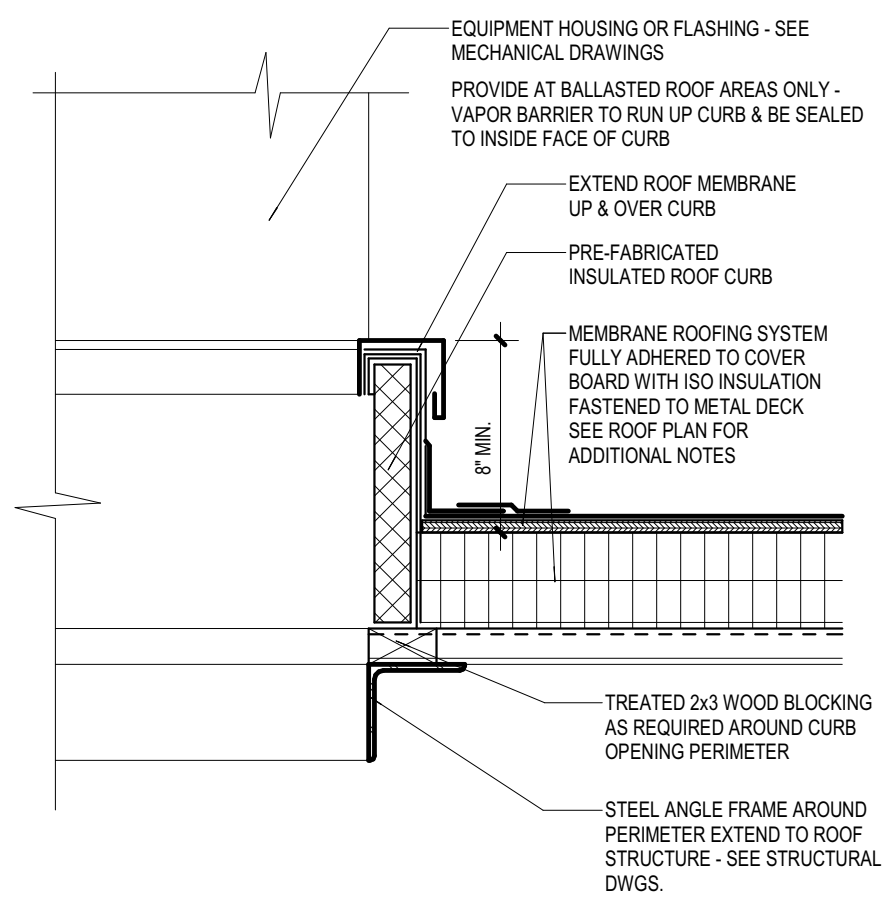
DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5769

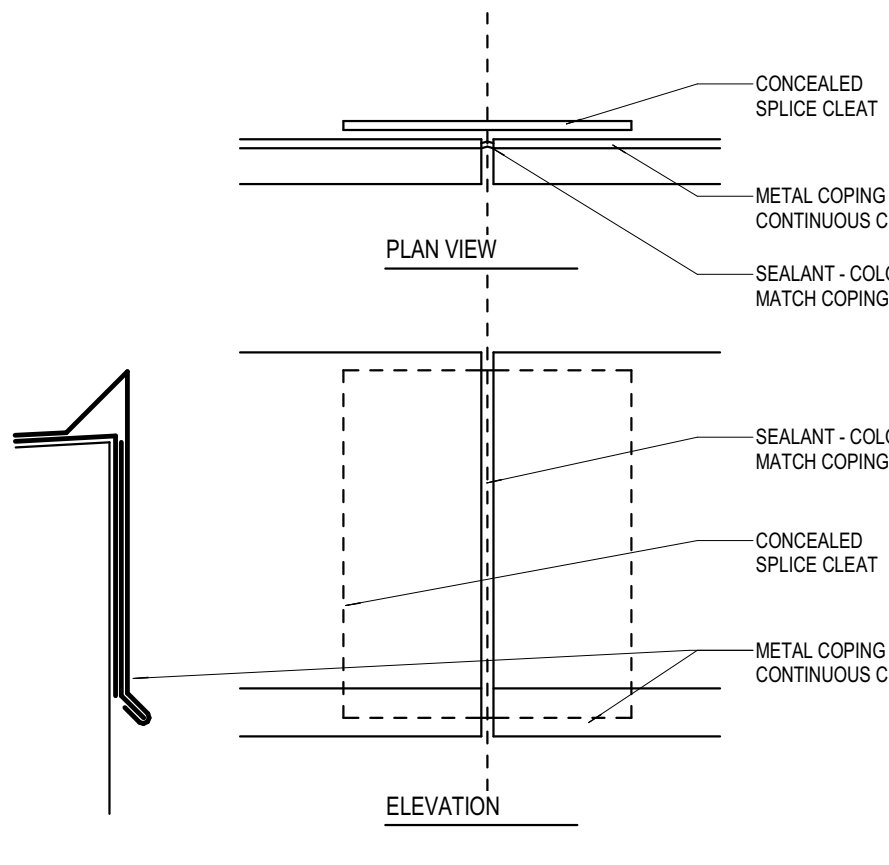
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BUILDING SECTIONS

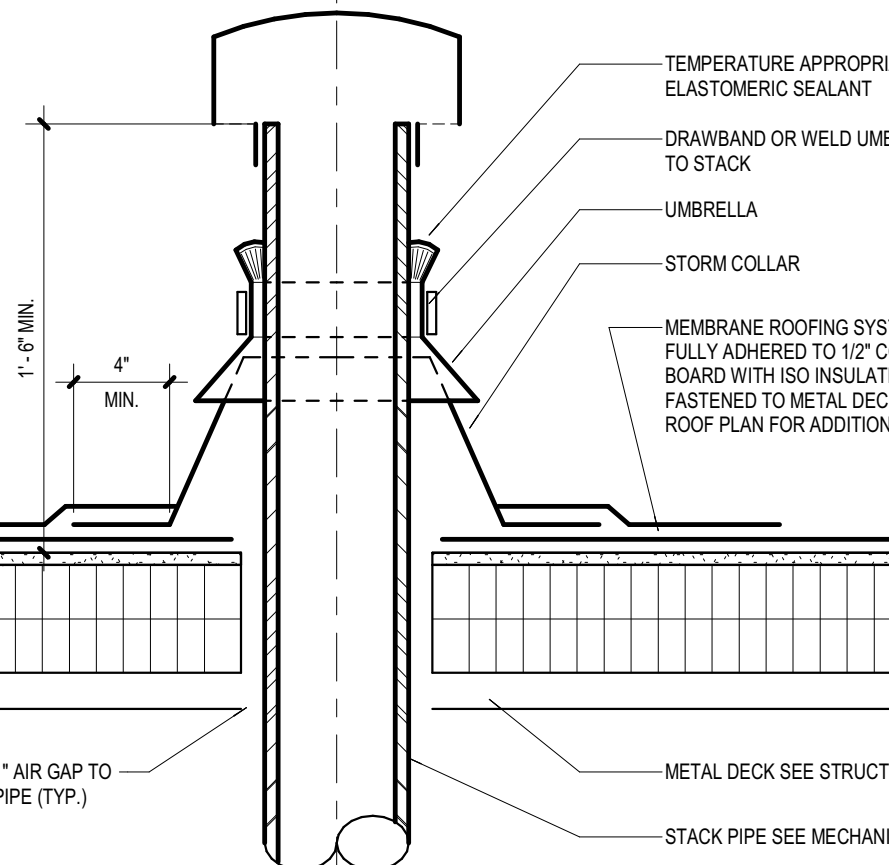
A6.02



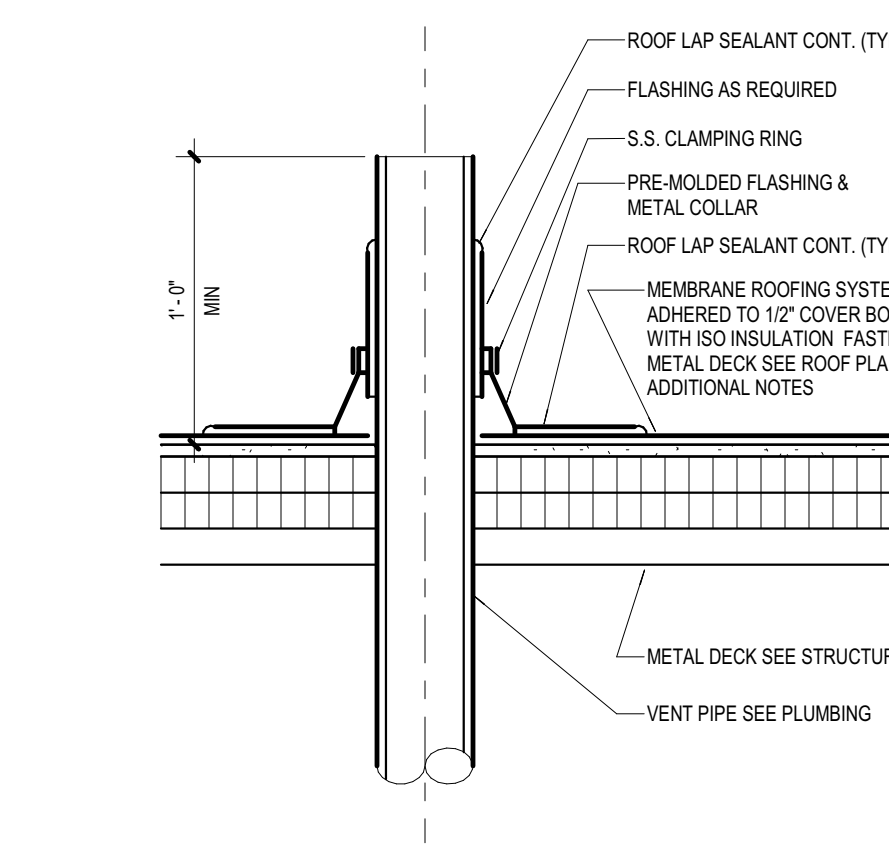
15 TYPICAL ROOF CURB DETAIL
1 1/2" = 1'-0"



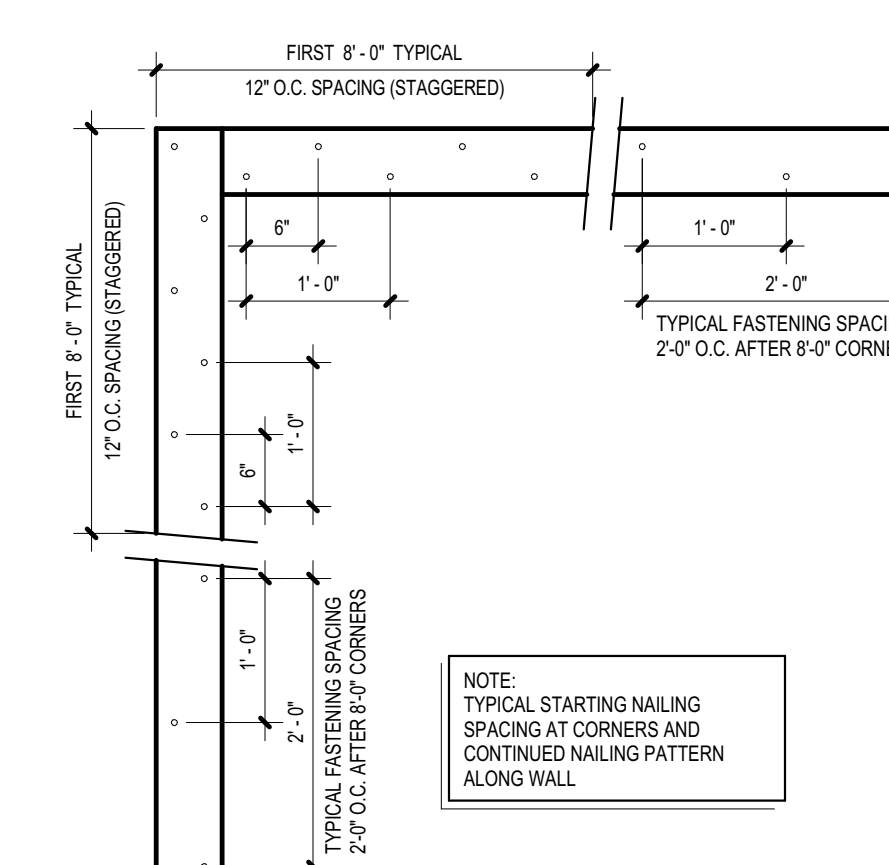
14 METAL COPING SPLICE DETAIL
3" = 1'-0"



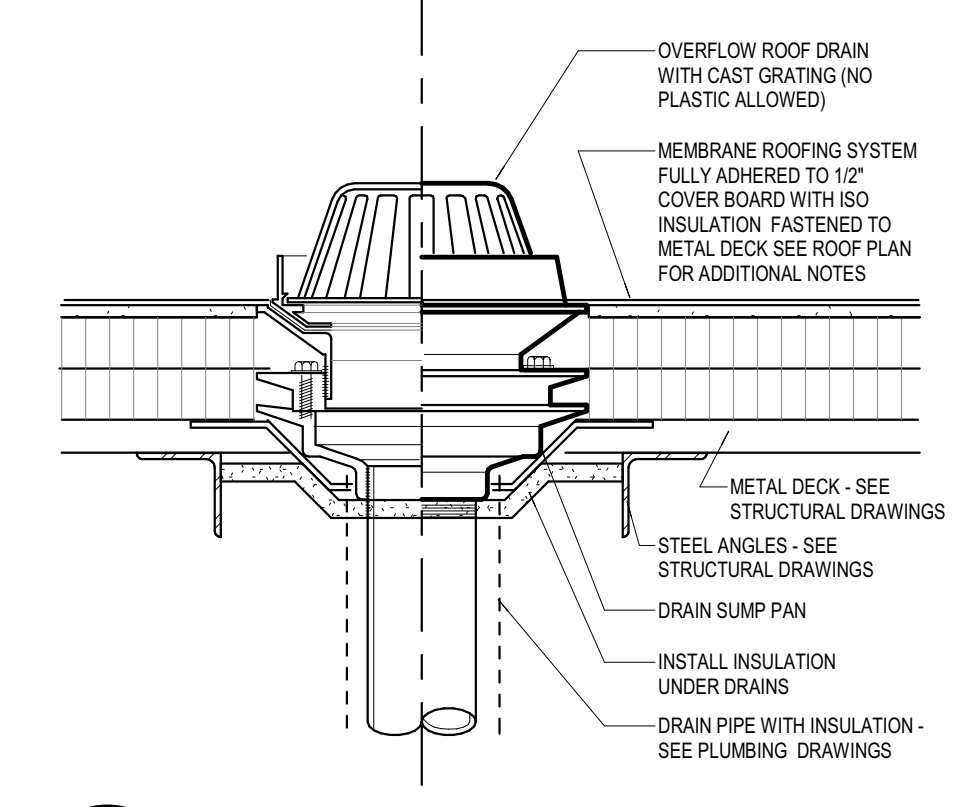
13 STACK FLASHING DETAIL
1 1/2" = 1'-0"



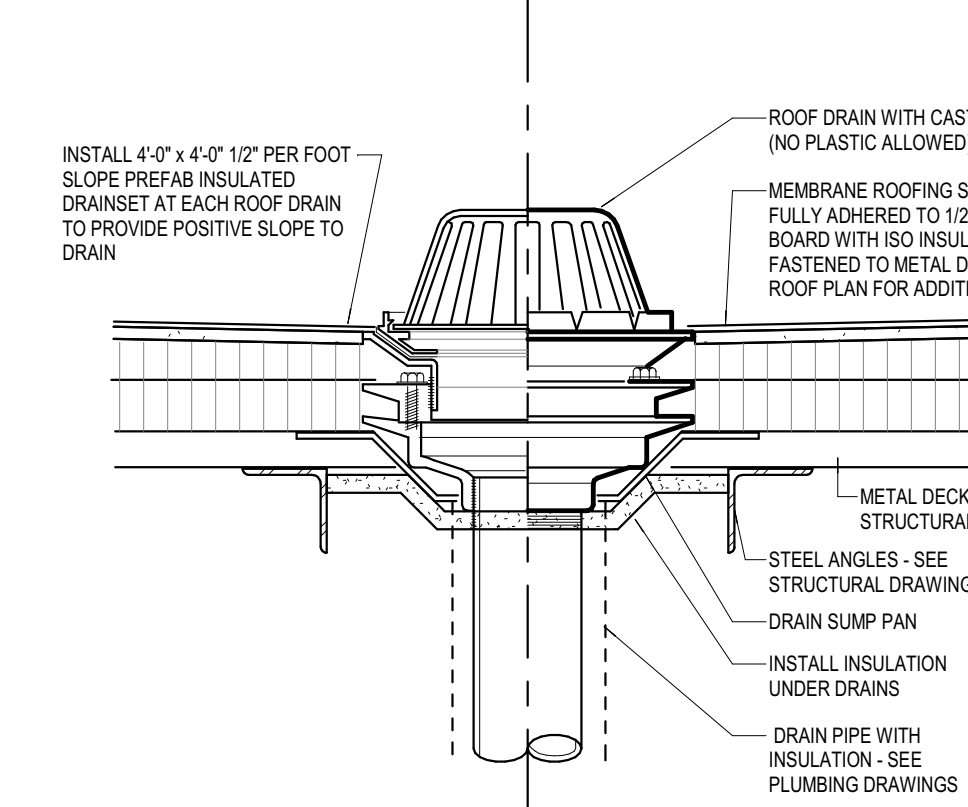
12 TYPICAL ROOF VENT DETAIL
1 1/2" = 1'-0"



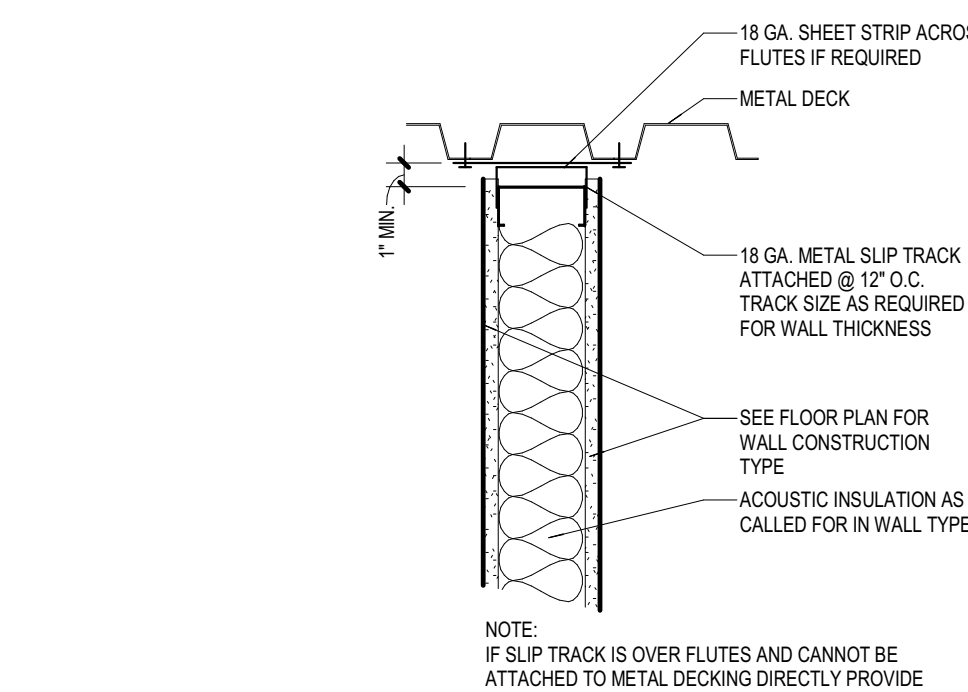
11 WOOD NAILER SECUREMENT CRITERIA
3/4" = 1'-0"



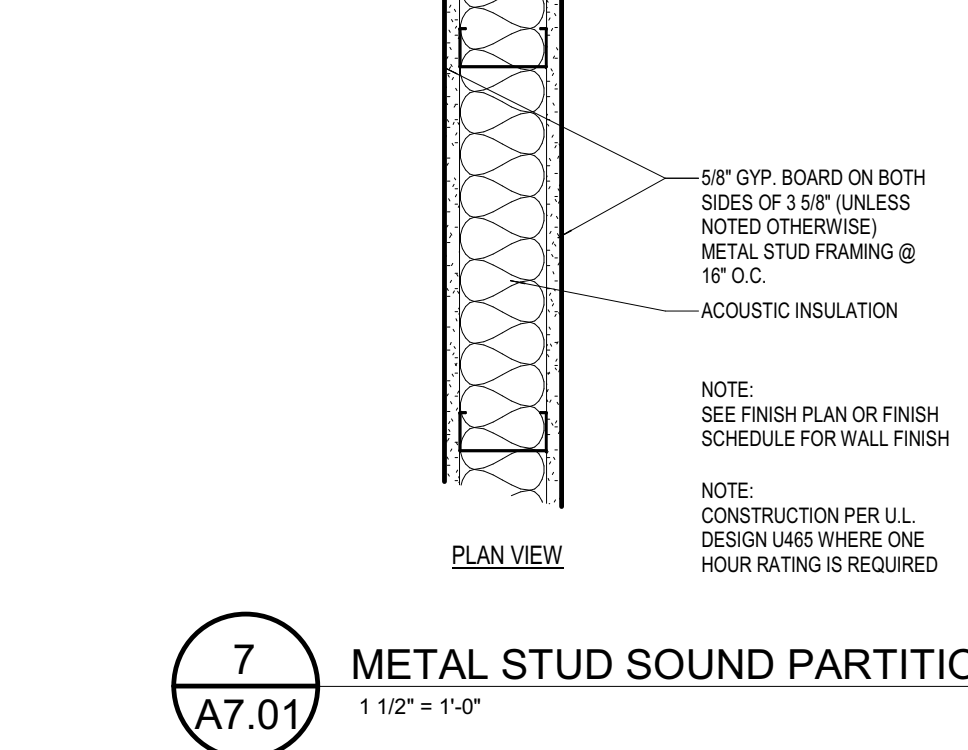
10 ROOF DRAIN OVERFLOW DETAIL
1 1/2" = 1'-0"



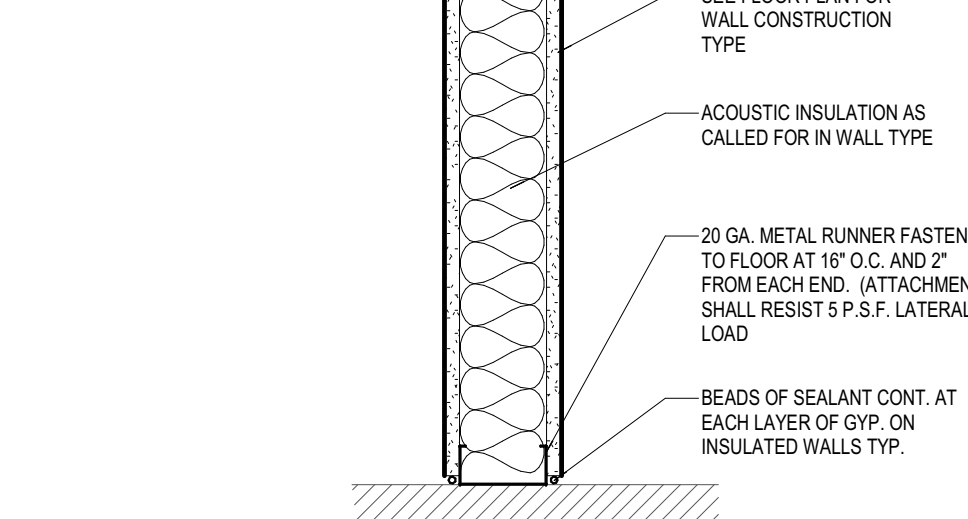
9 SINGLE ROOF DRAIN DETAIL
1 1/2" = 1'-0"



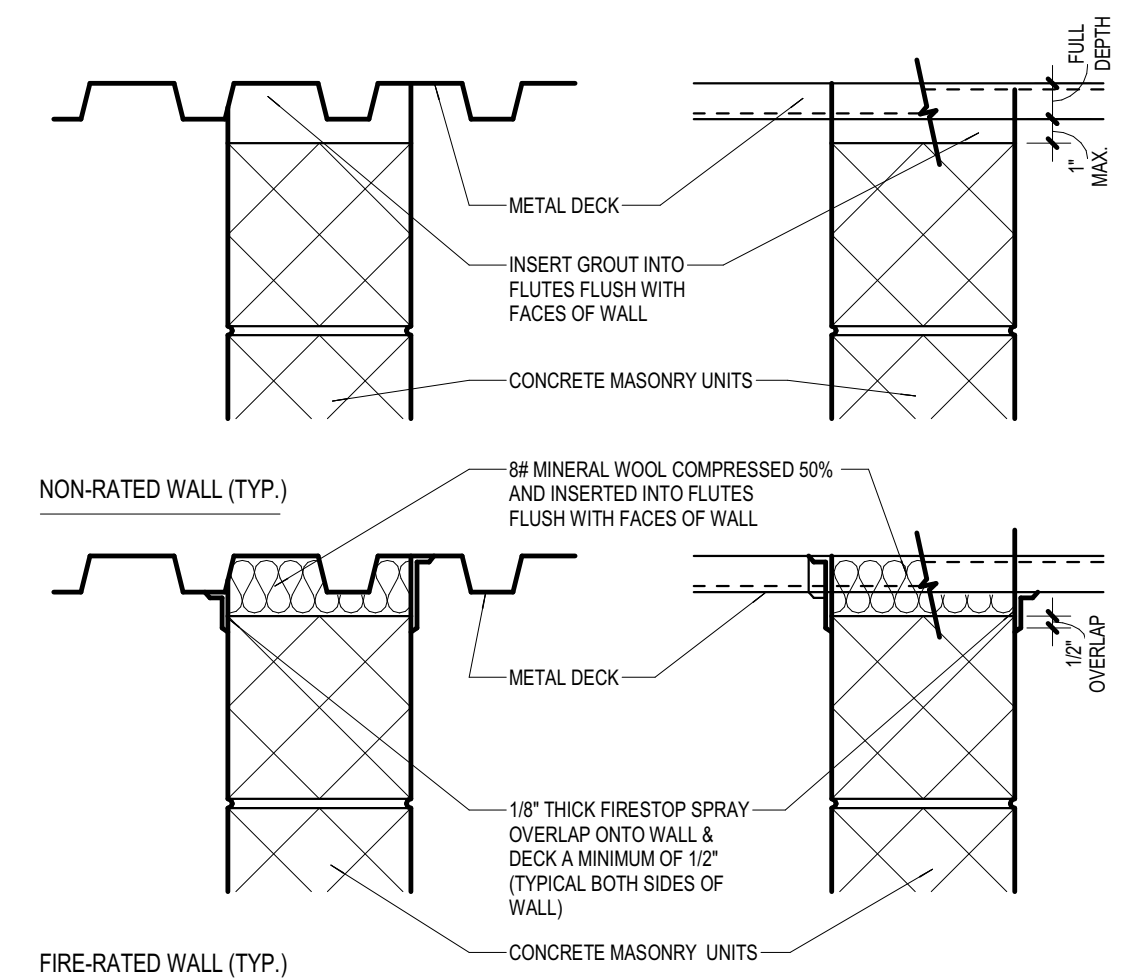
8 TOP OF METAL STUD SOUND WALL
1 1/2" = 1'-0"



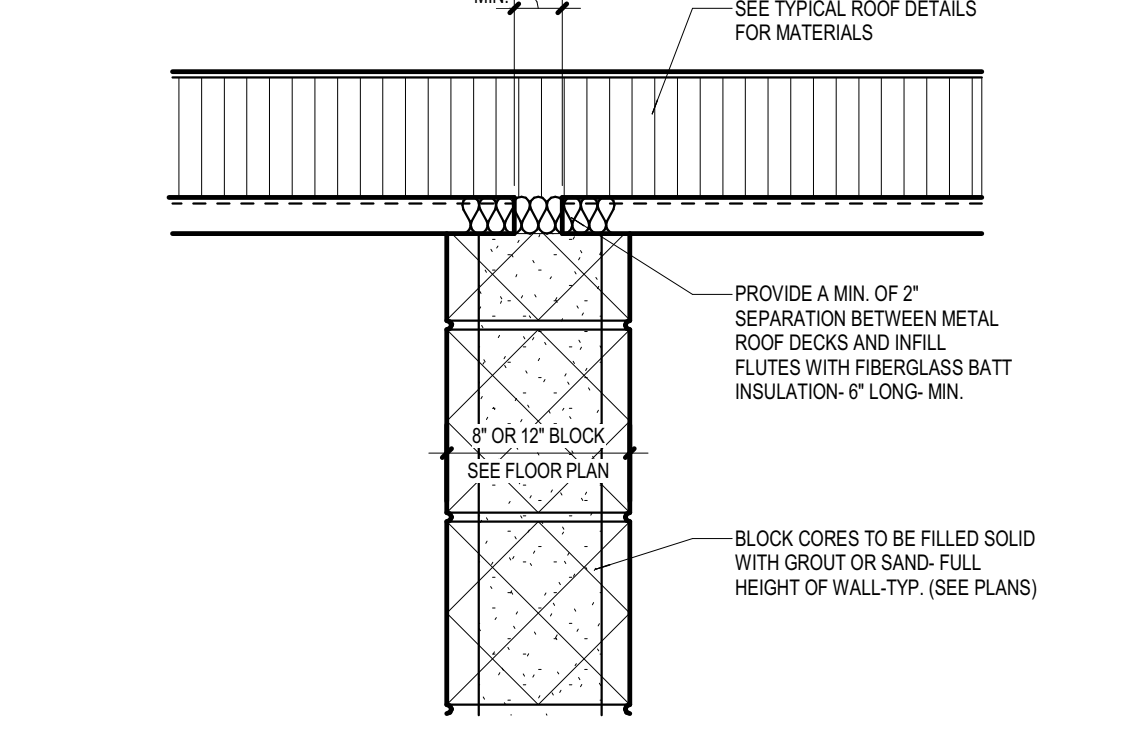
7 METAL STUD SOUND PARTITION WALL
1 1/2" = 1'-0"



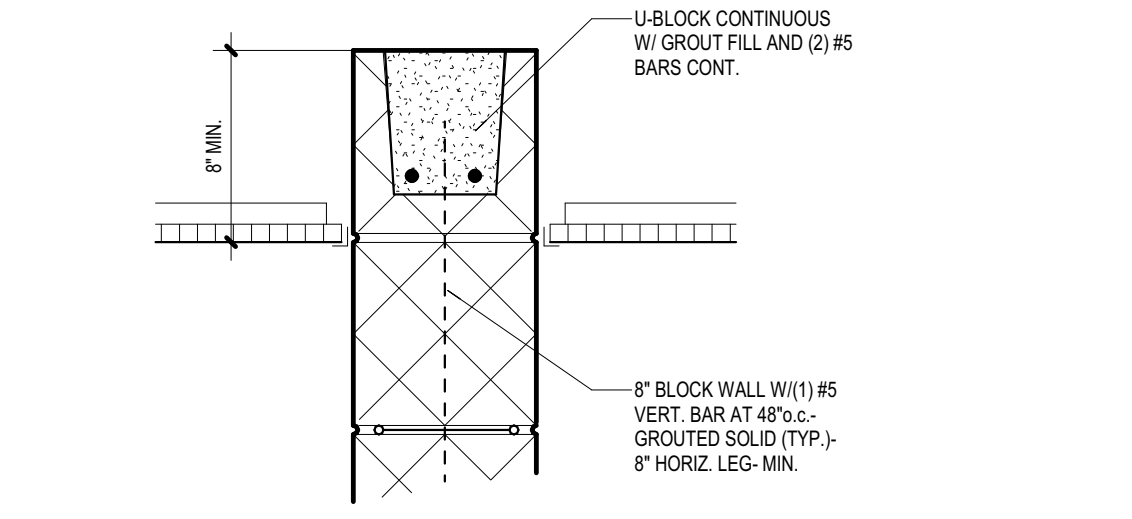
6 METAL STUD SOUND WALL BASE
1 1/2" = 1'-0"



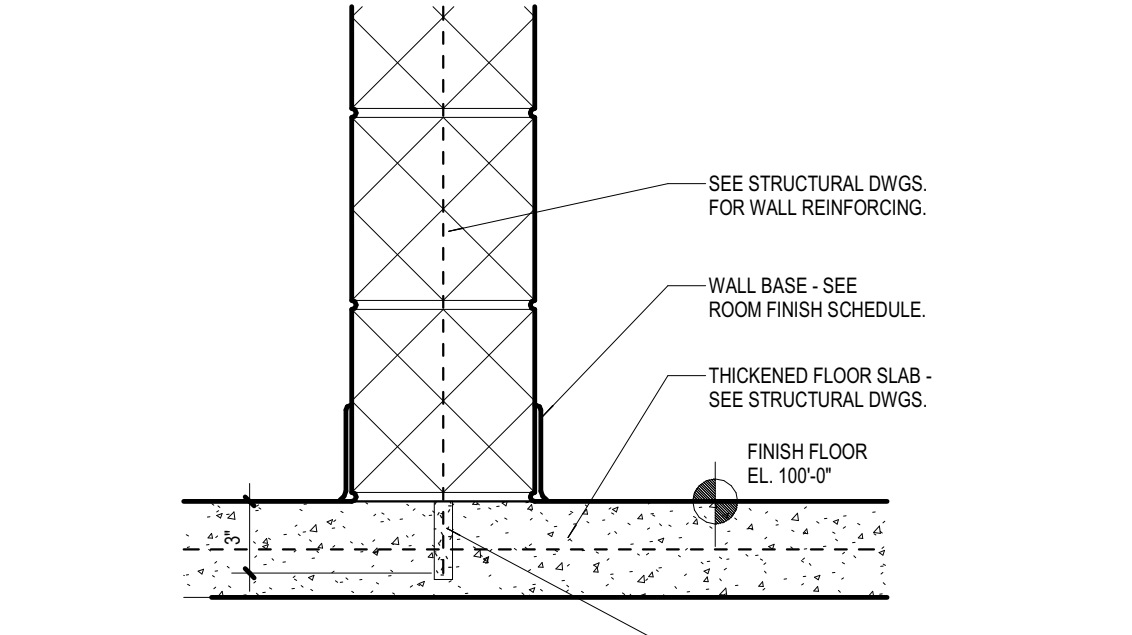
5 TOP OF WALL DETAILS
1 1/2" = 1'-0"



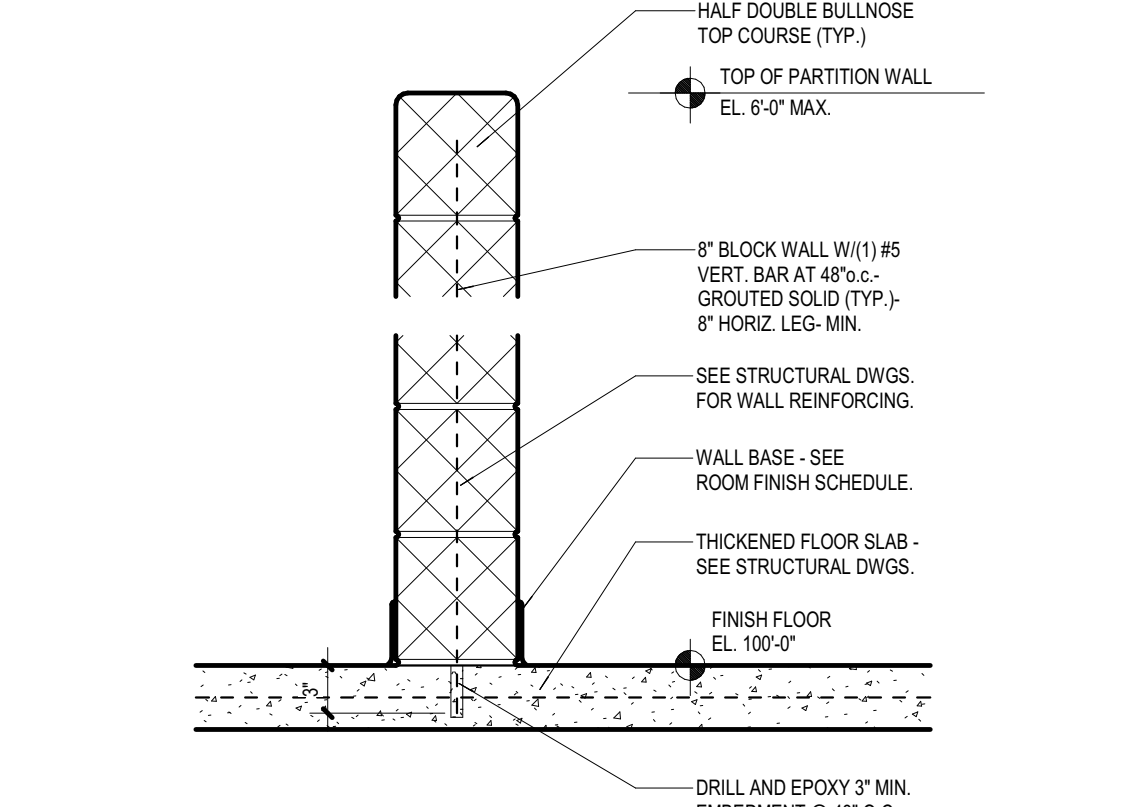
4 DECK SOUND SEPARATION DETAIL
1 1/2" = 1'-0"



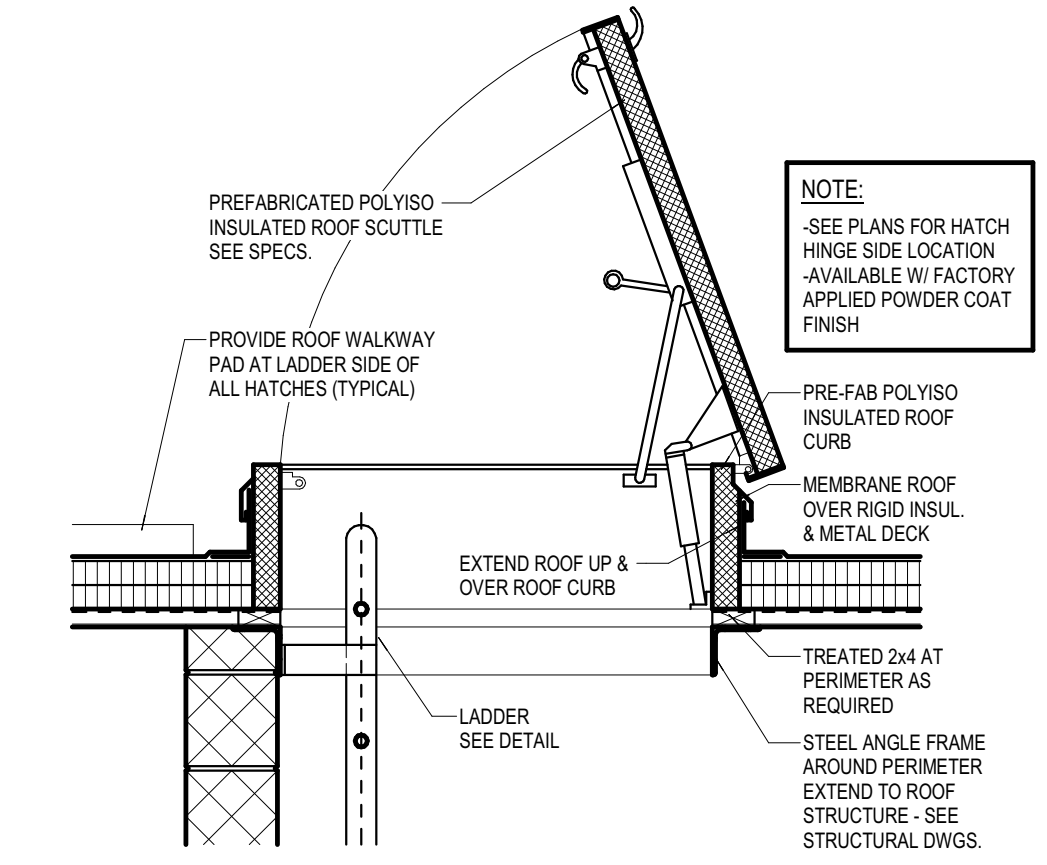
3 MASONRY TOP OF WALL UNBRACED
1 1/2" = 1'-0"



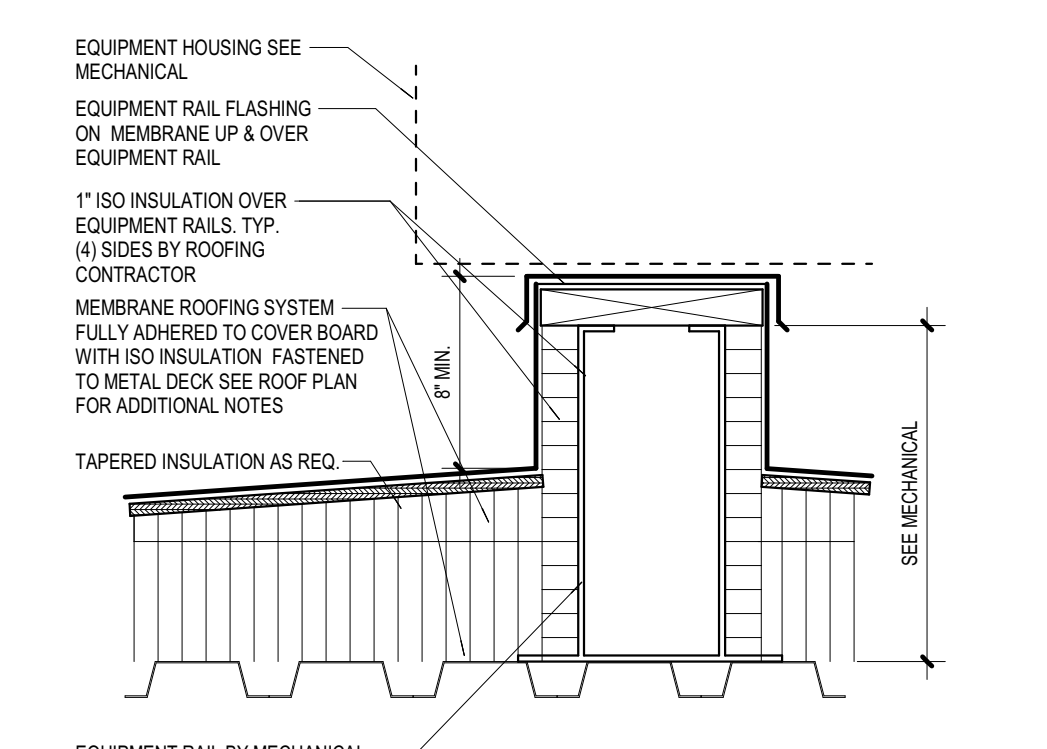
2 MASONRY NON-BEARING
1 1/2" = 1'-0"



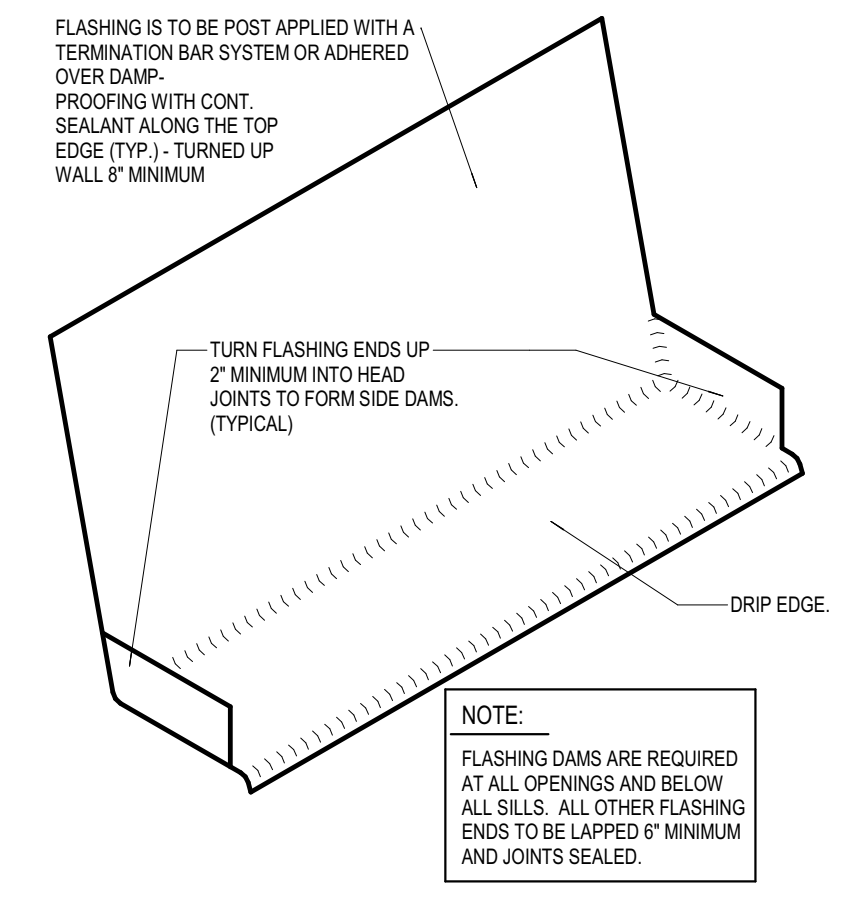
1 BLOCK PARTITION WALL DETAIL
1" = 1'-0"



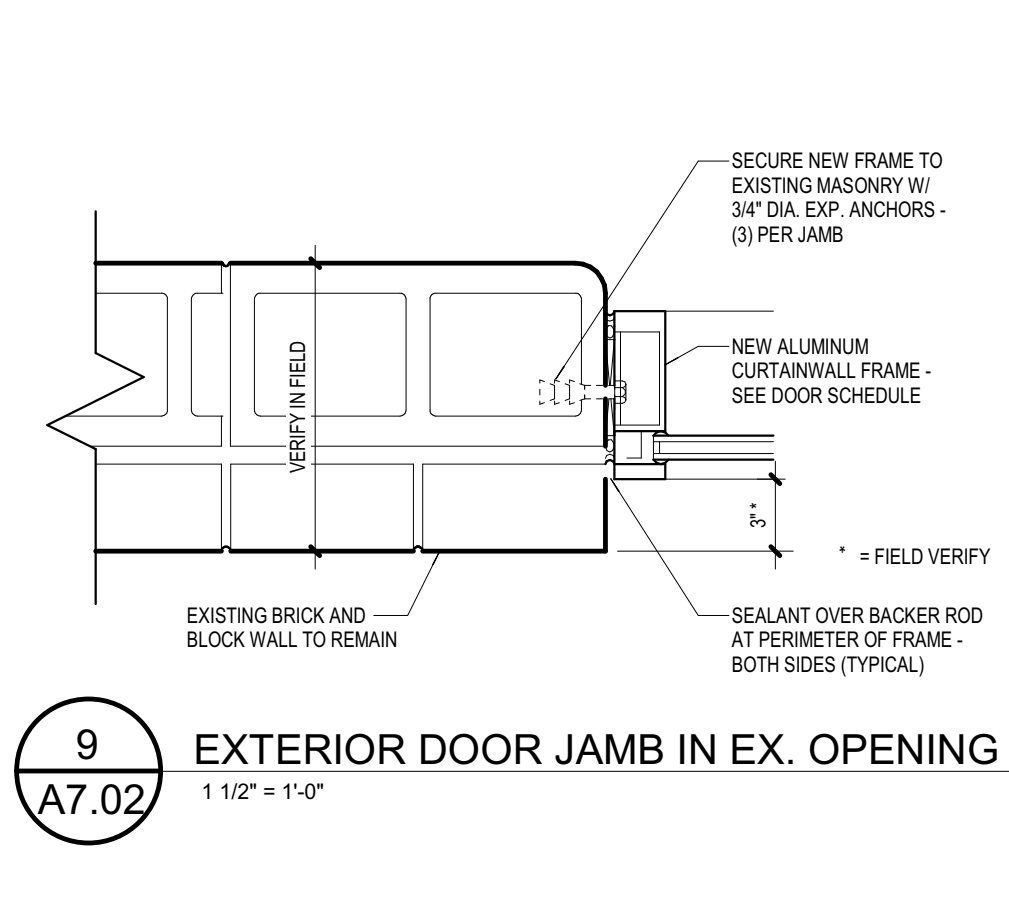
17 THERMALLY BROKEN ROOF HATCH
3/4" = 1'-0"



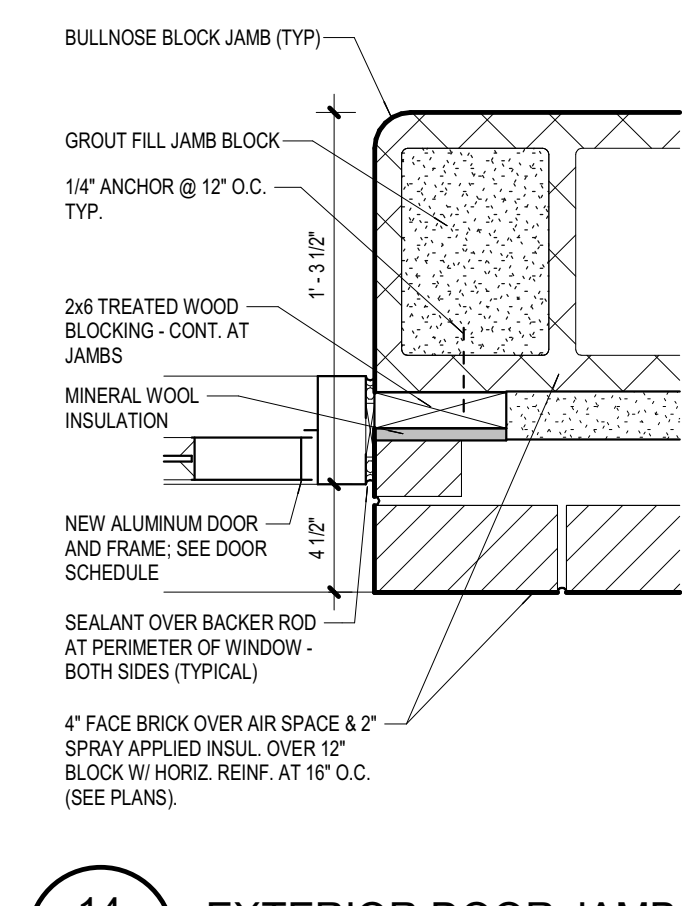
16 EQUIPMENT RAIL DETAIL
1 1/2" = 1'-0"



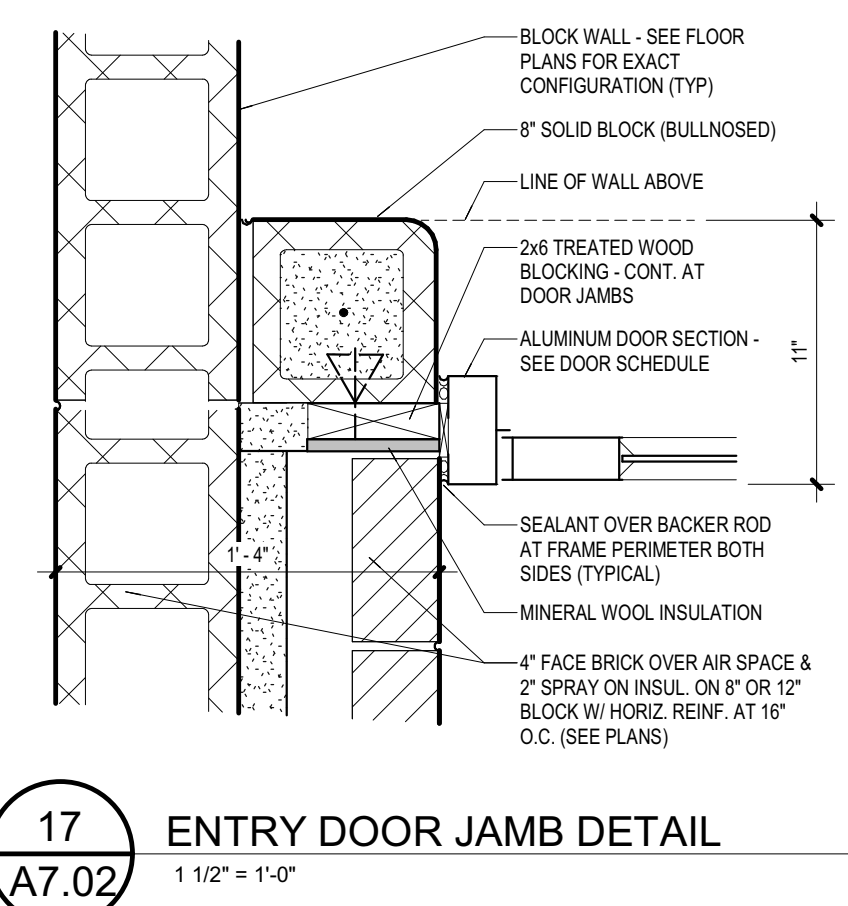
5
A7.02
TYPICAL FLASHING & DAM DETAIL
1 1/2" = 1'-0"



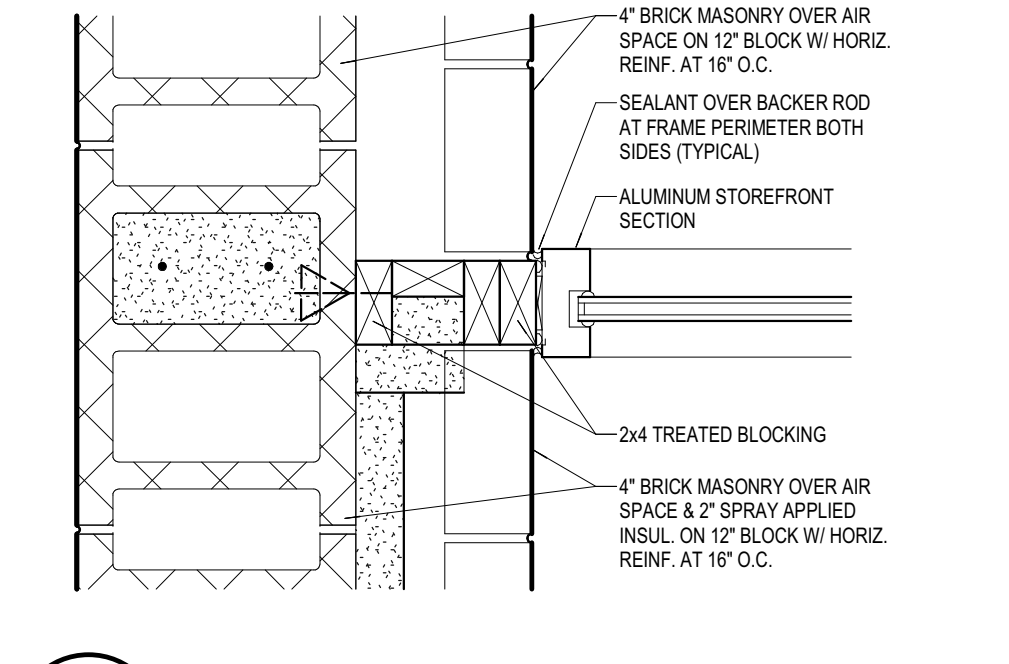
9
A7.02
EXTERIOR DOOR JAMB IN EX. OPENING
1 1/2" = 1'-0"



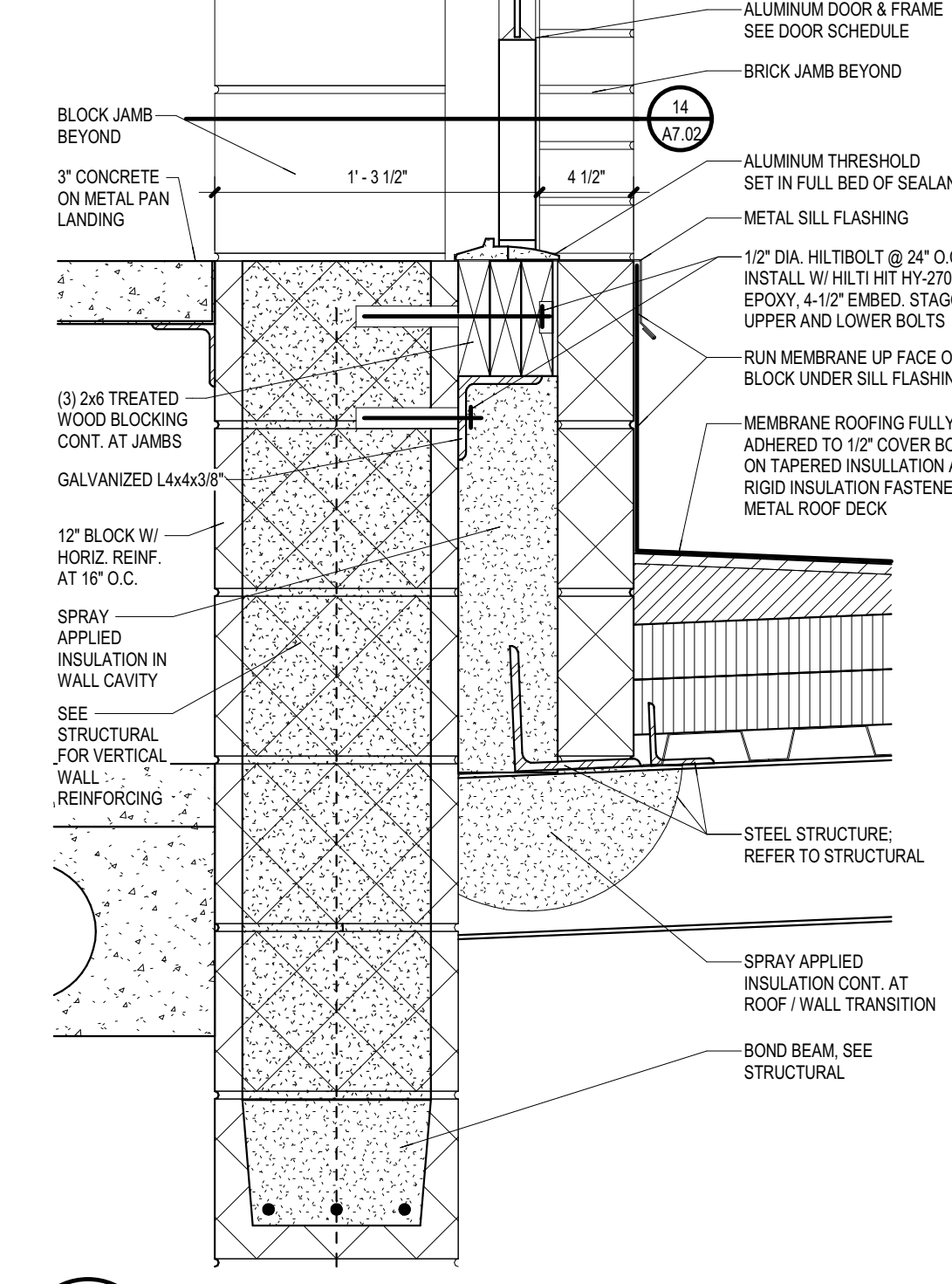
14
A7.02
EXTERIOR DOOR JAMB AT MEZZANINE
1 1/2" = 1'-0"



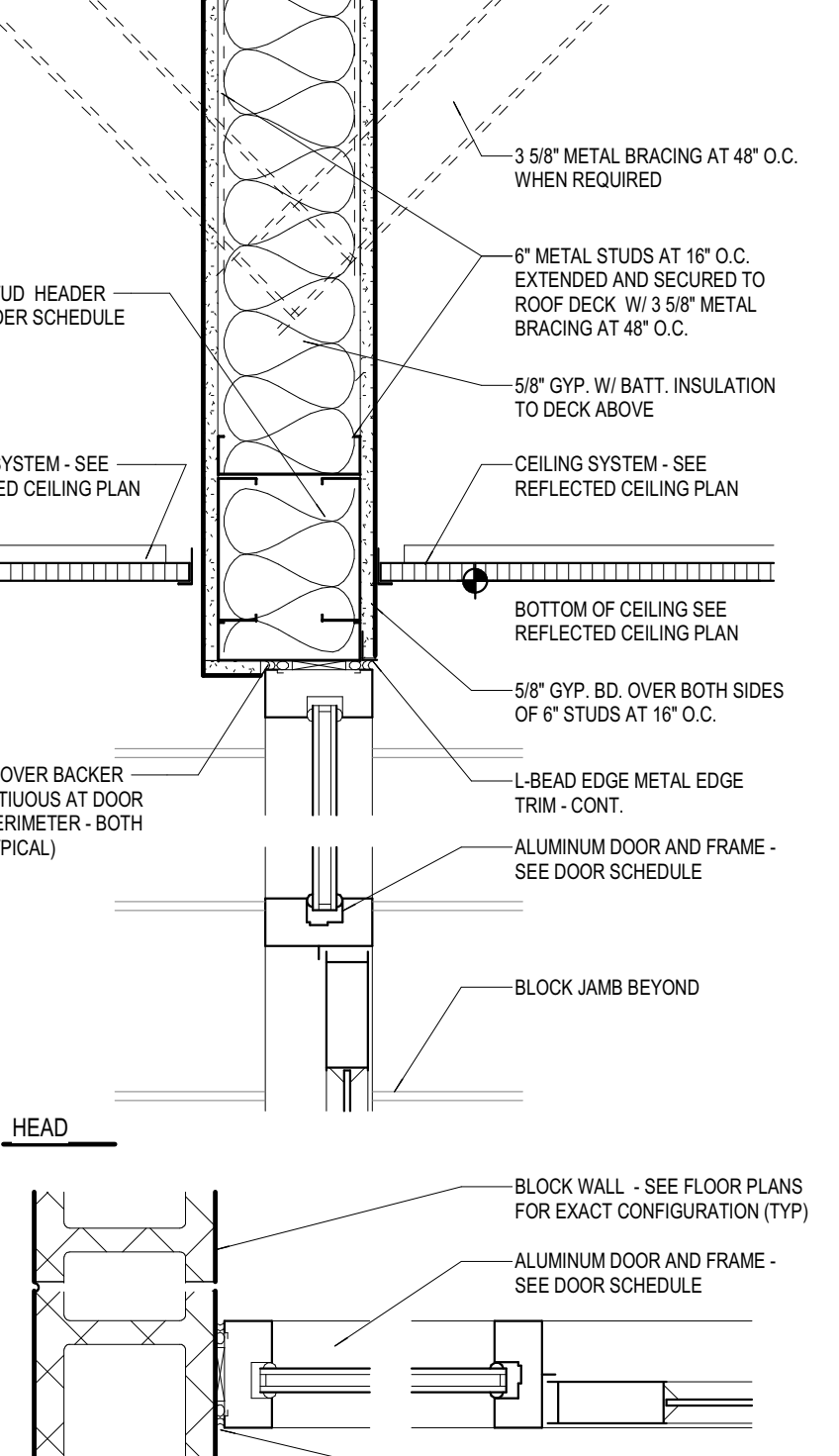
17
A7.02
ENTRY DOOR JAMB DETAIL
1 1/2" = 1'-0"



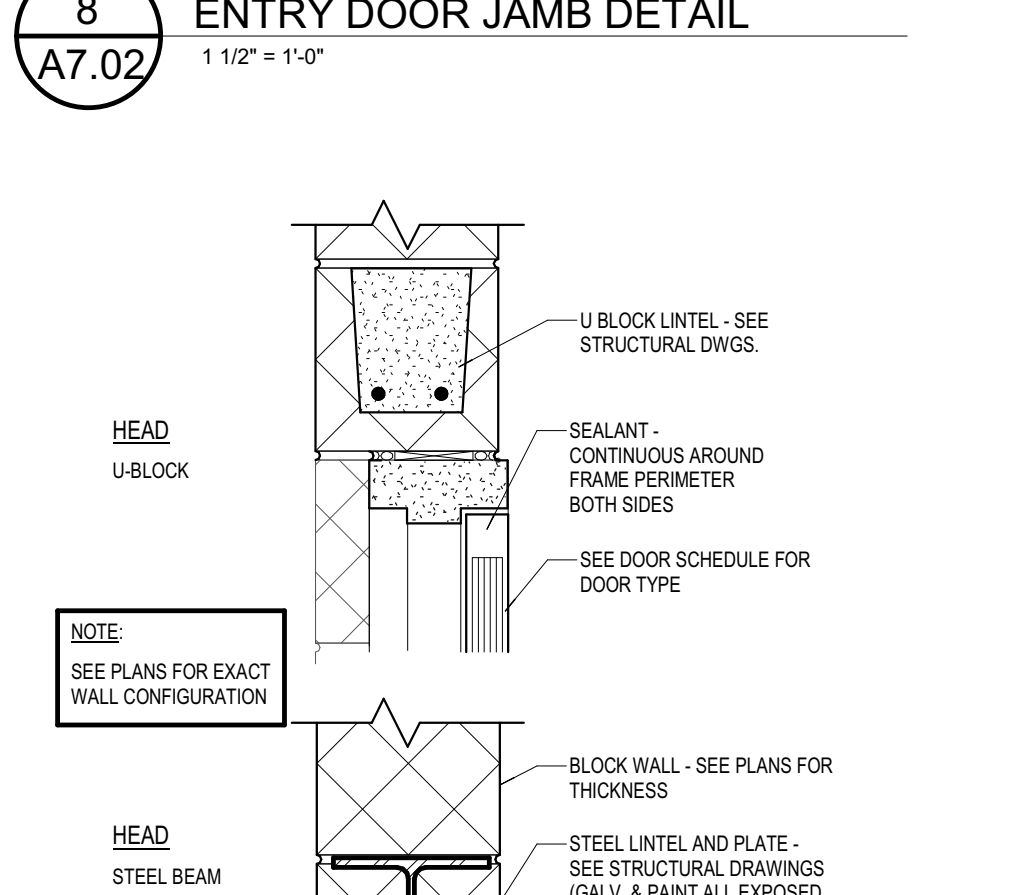
8
A7.02
ENTRY DOOR JAMB DETAIL
1 1/2" = 1'-0"



13
A7.02
DOOR E201A SILL DETAIL
1 1/2" = 1'-0"



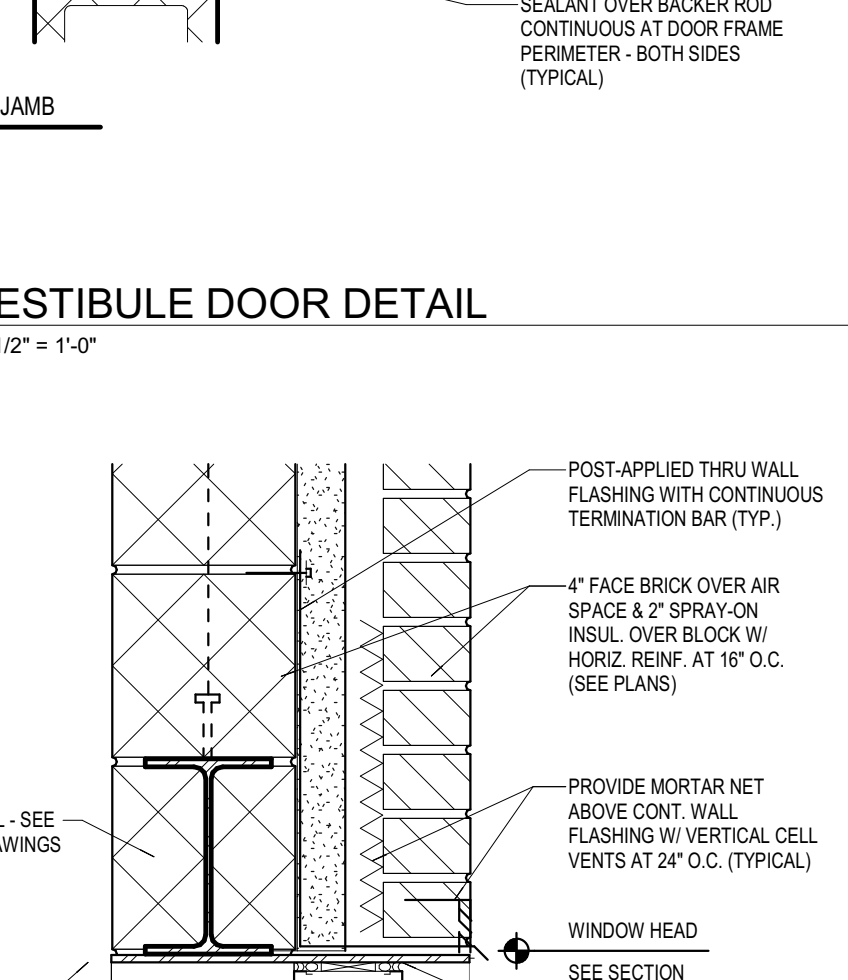
16
A7.02
VESTIBULE DOOR DETAIL
1 1/2" = 1'-0"



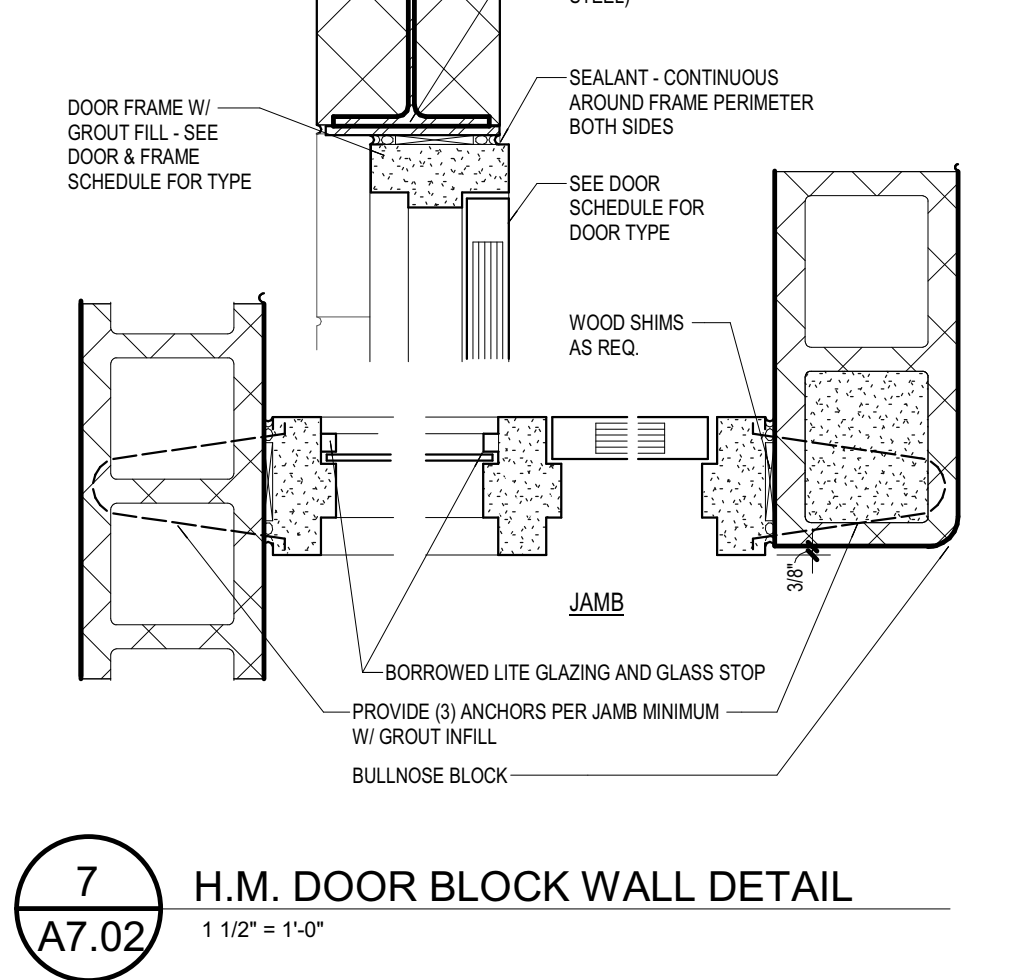
7
A7.02
H.M. DOOR BLOCK WALL DETAIL
1 1/2" = 1'-0"



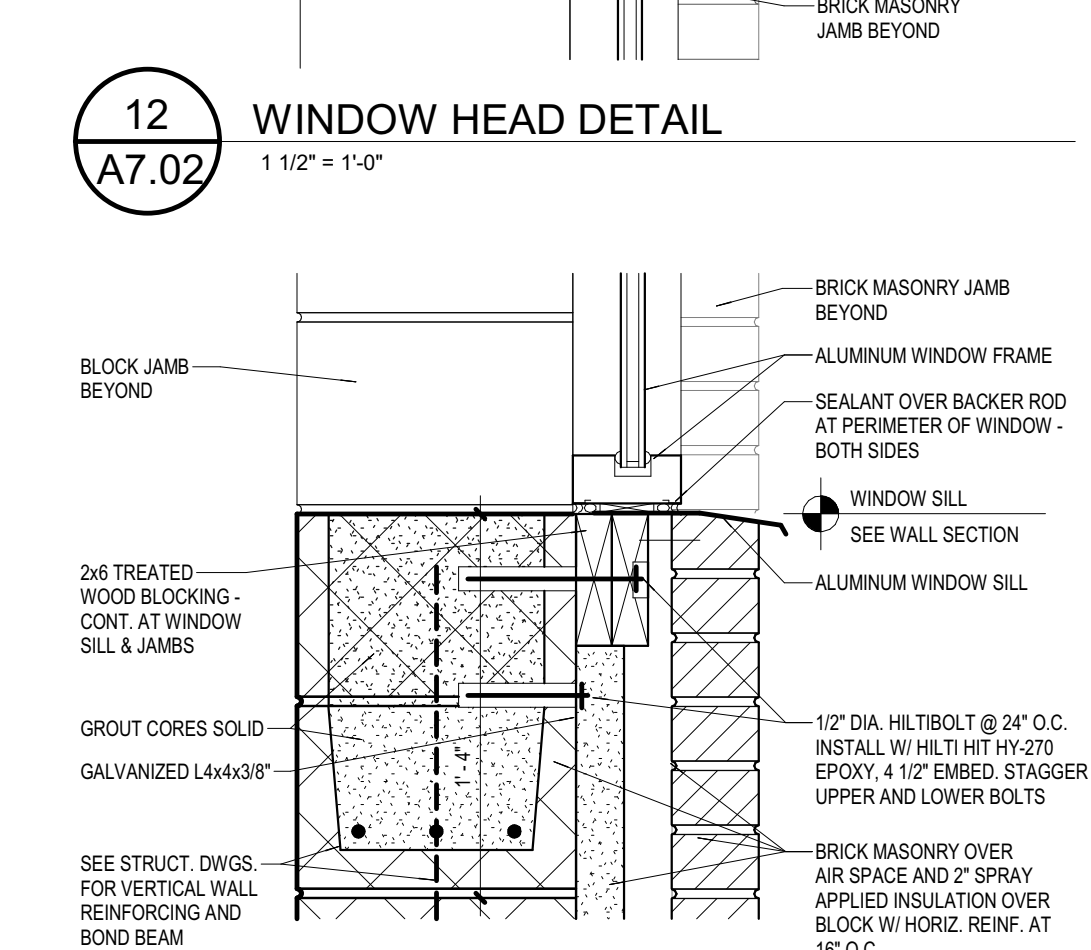
12
A7.02
WINDOW HEAD DETAIL
1 1/2" = 1'-0"



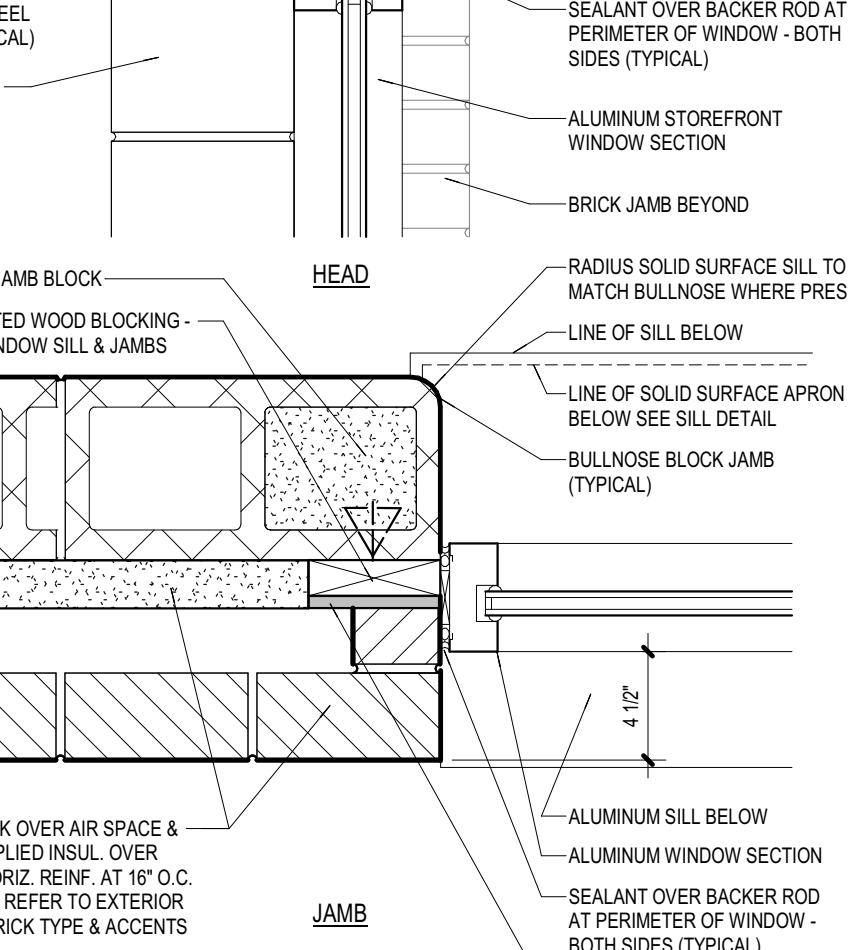
21
A7.02
NEW DOOR AND FRAME IN EXISTING EXTERIOR WALL
1 1/2" = 1'-0"



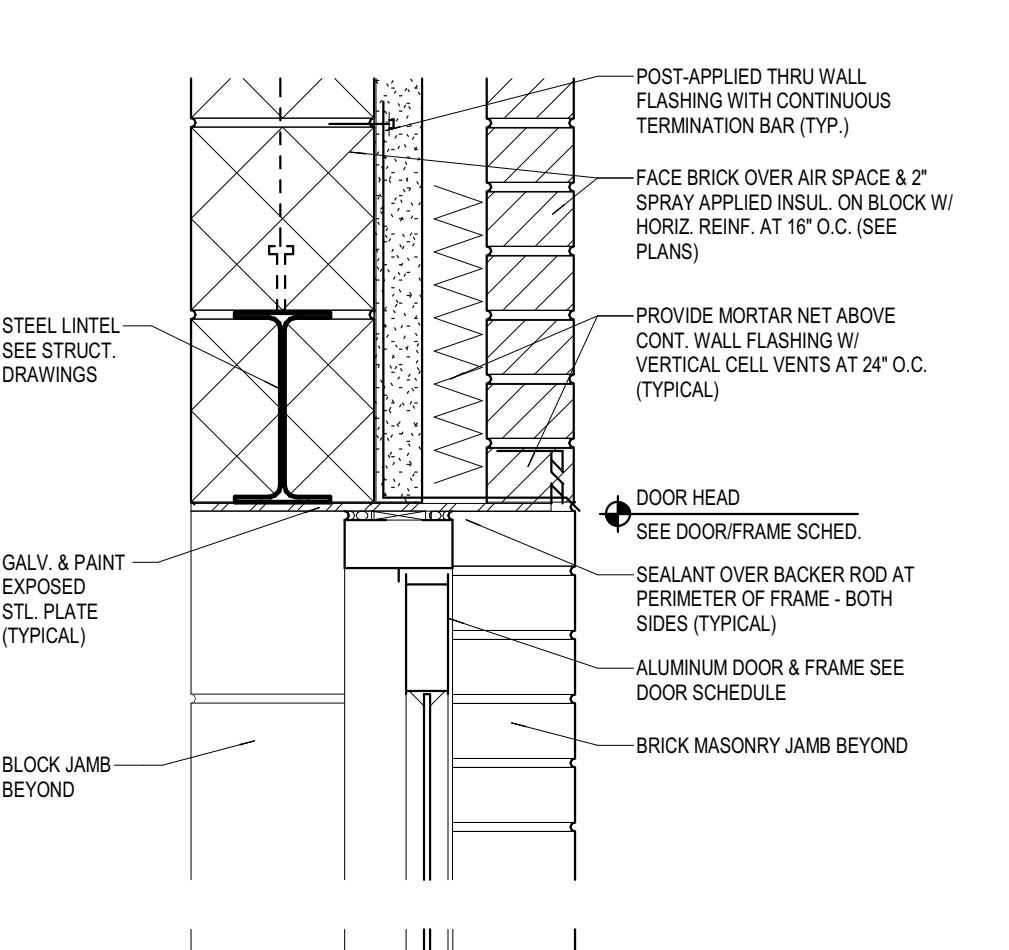
4
A7.02
MECHANICAL GRILLE DETAIL
1 1/2" = 1'-0"



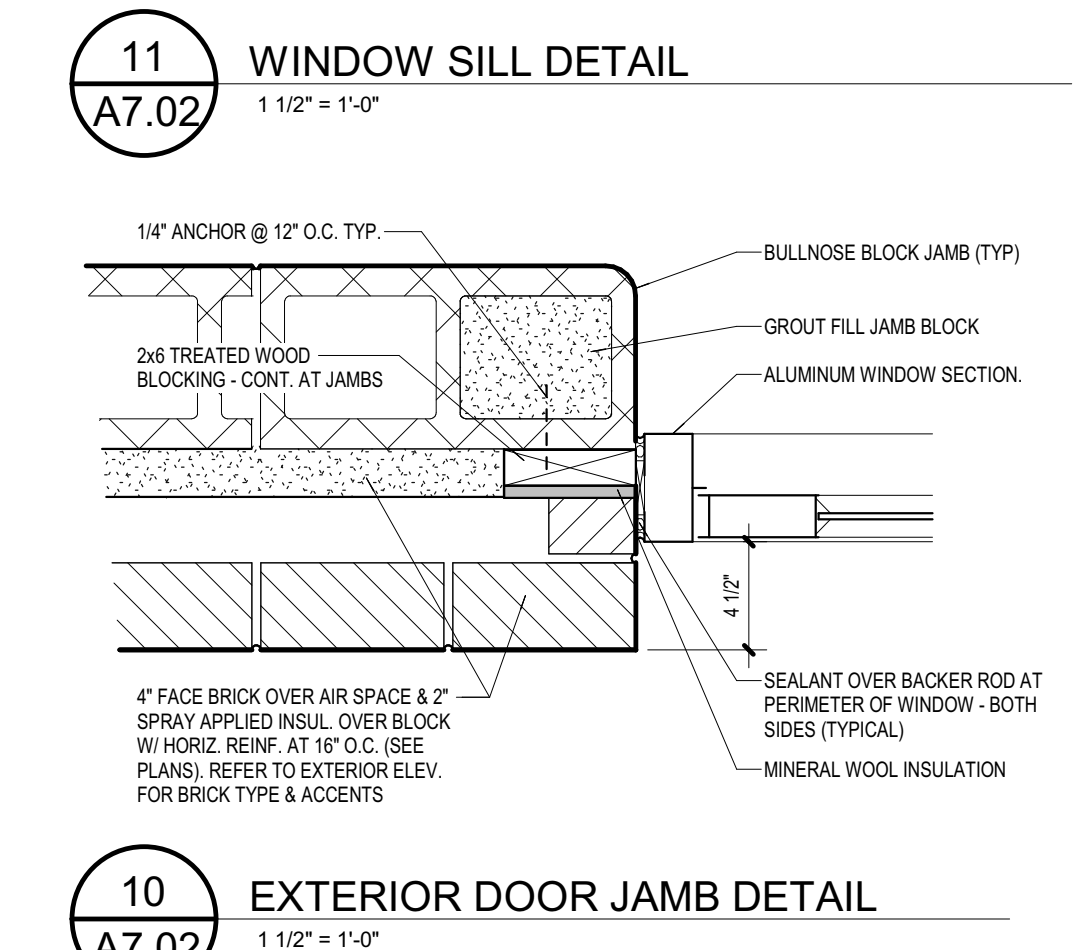
11
A7.02
WINDOW SILL DETAIL
1 1/2" = 1'-0"



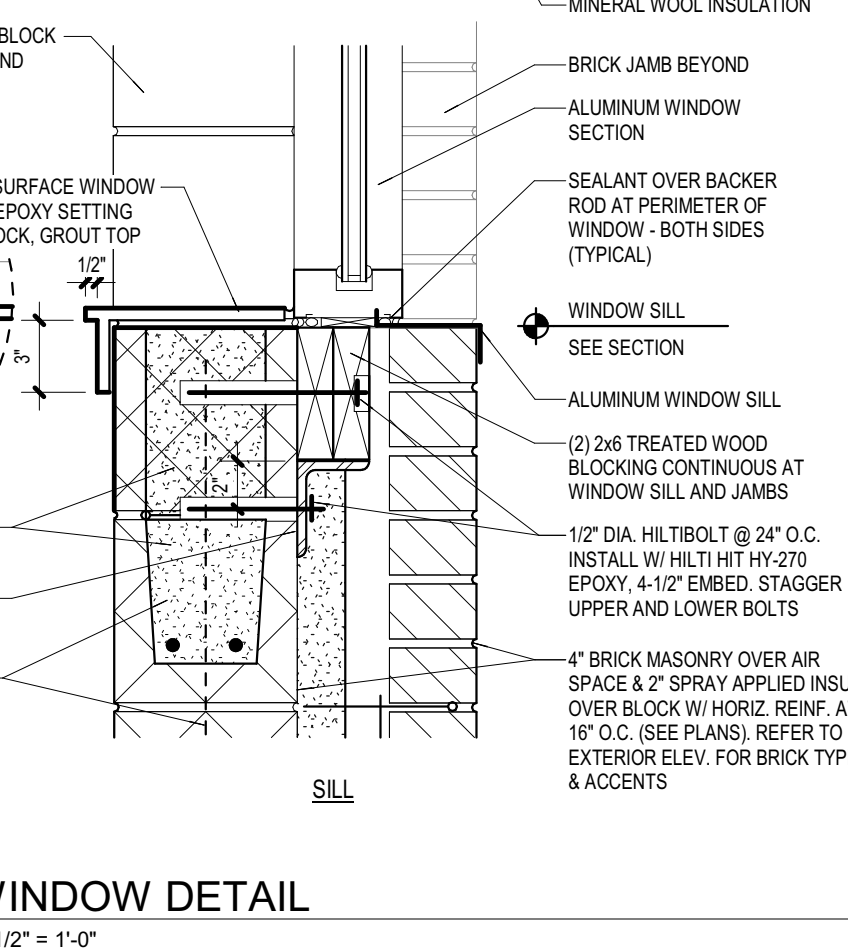
20
A7.02
NEW DOOR & FRAME IN EXISTING WALL
1 1/2" = 1'-0"



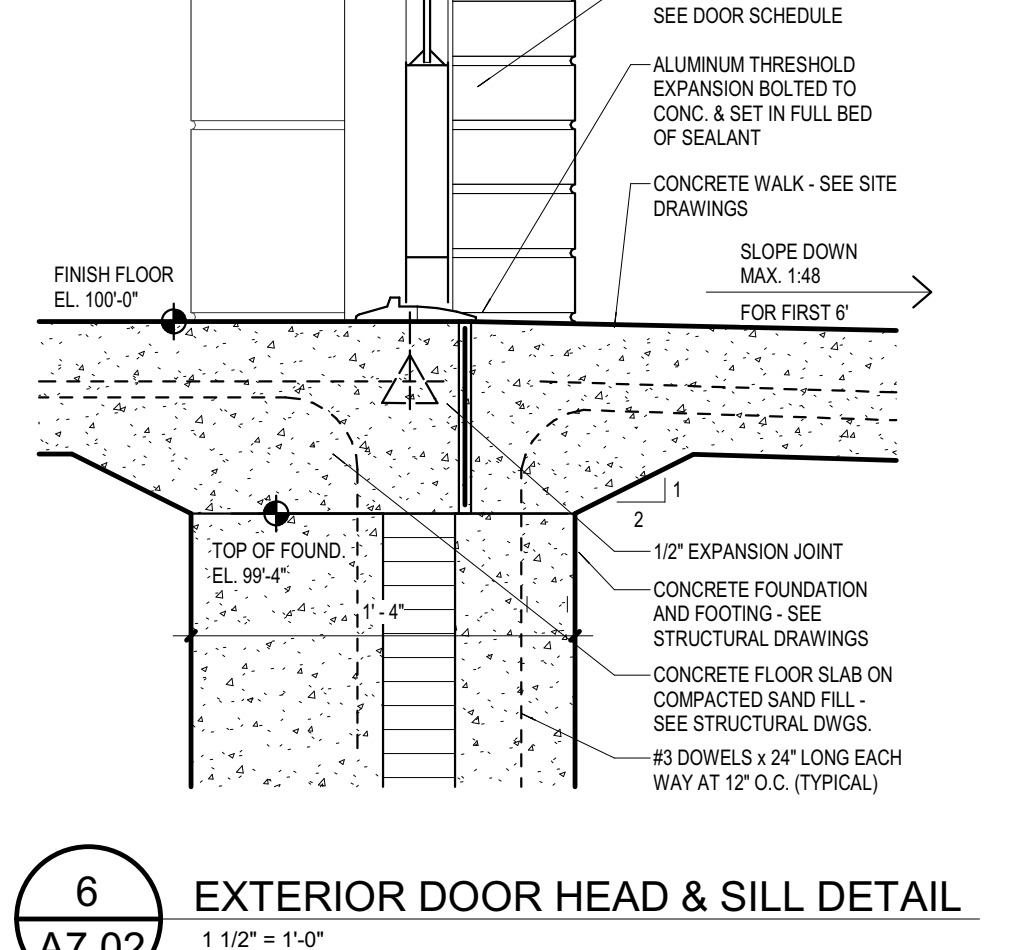
3
A7.02
LOUVER HEAD DETAIL
1 1/2" = 1'-0"



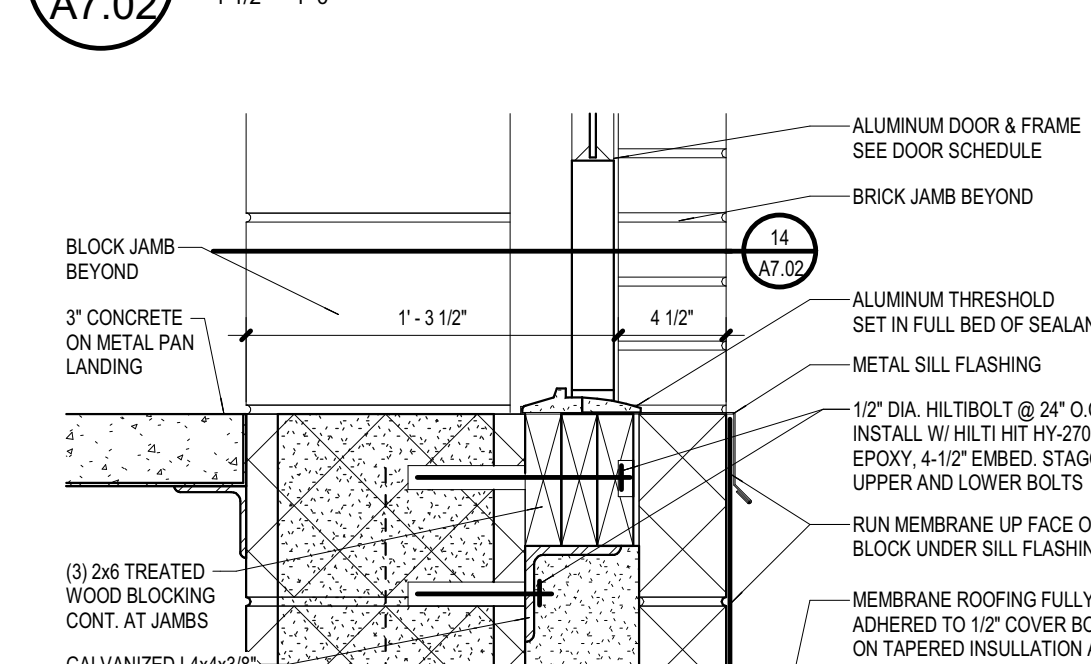
10
A7.02
EXTERIOR DOOR JAMB DETAIL
1 1/2" = 1'-0"



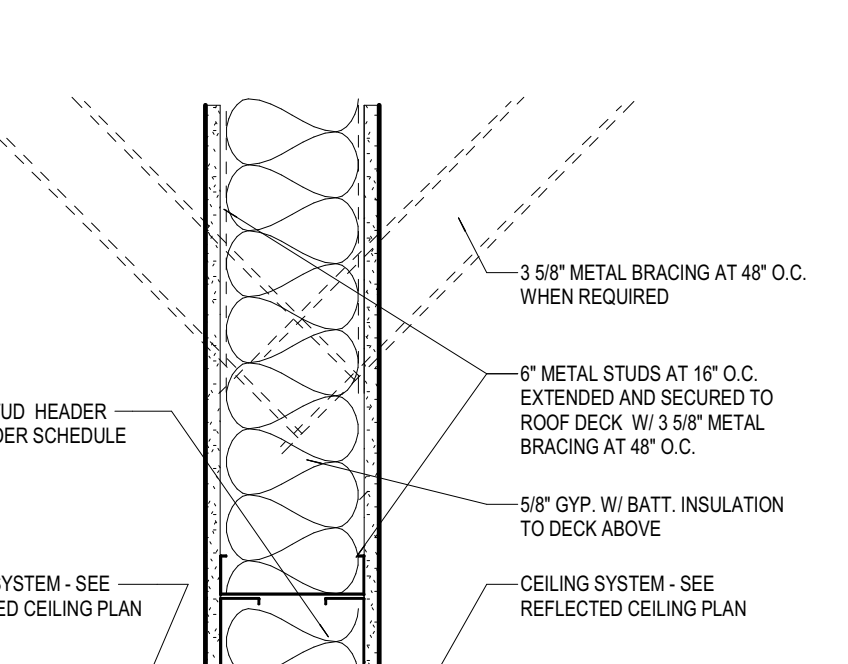
15
A7.02
WINDOW DETAIL
1 1/2" = 1'-0"



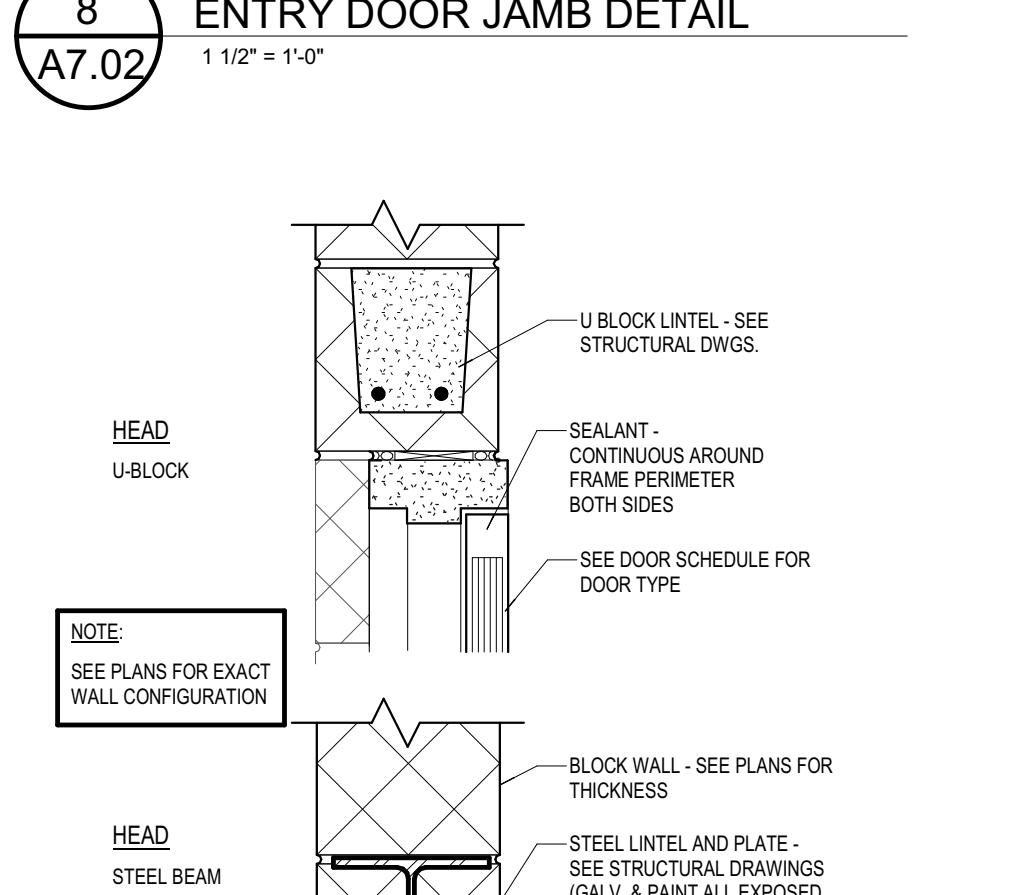
6
A7.02
EXTERIOR DOOR HEAD & SILL DETAIL
1 1/2" = 1'-0"



14
A7.02
EXTERIOR DOOR JAMB AT MEZZANINE
1 1/2" = 1'-0"



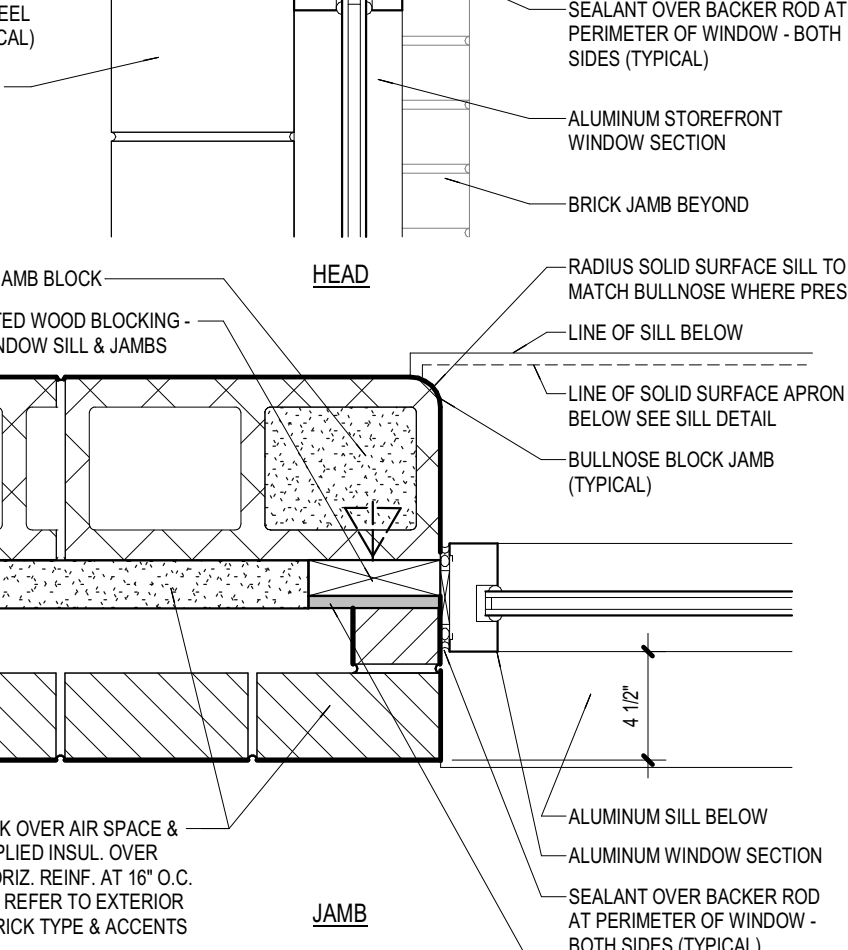
17
A7.02
ENTRY DOOR JAMB DETAIL
1 1/2" = 1'-0"



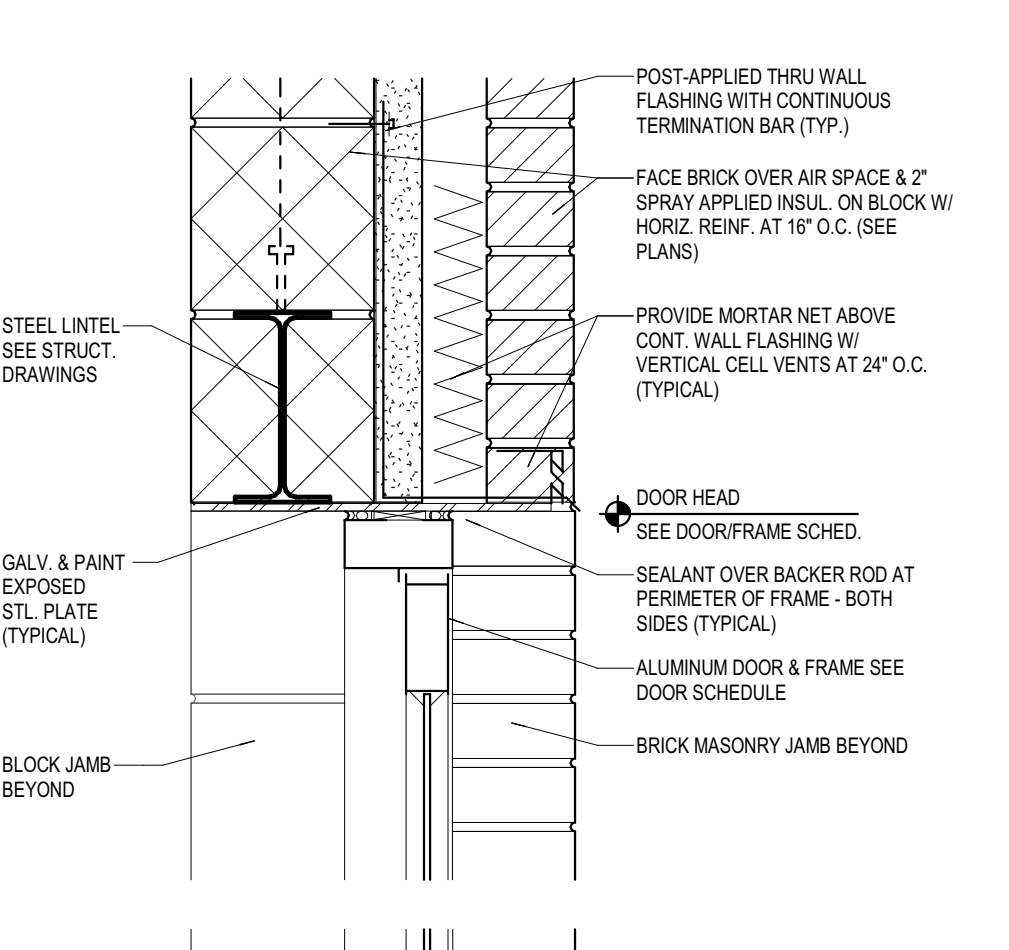
8
A7.02
ENTRY DOOR JAMB DETAIL
1 1/2" = 1'-0"



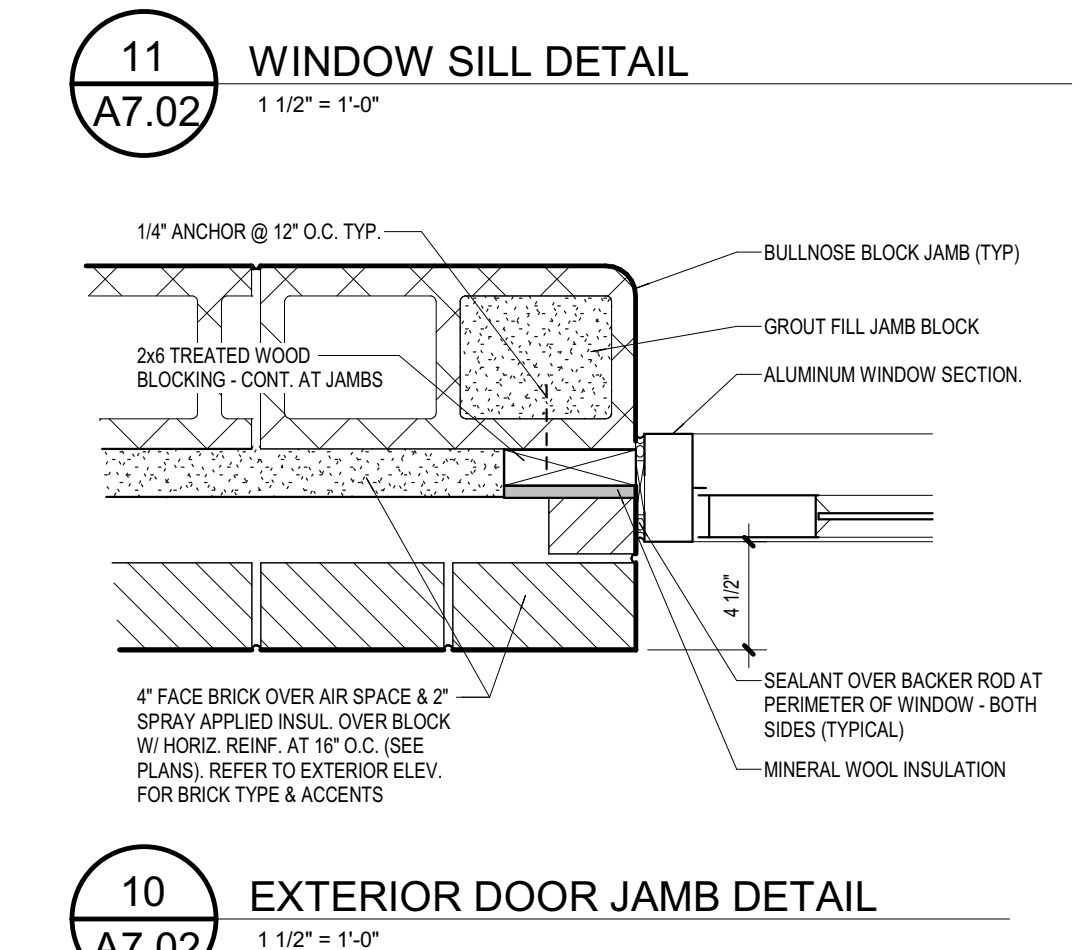
12
A7.02
WINDOW HEAD DETAIL
1 1/2" = 1'-0"



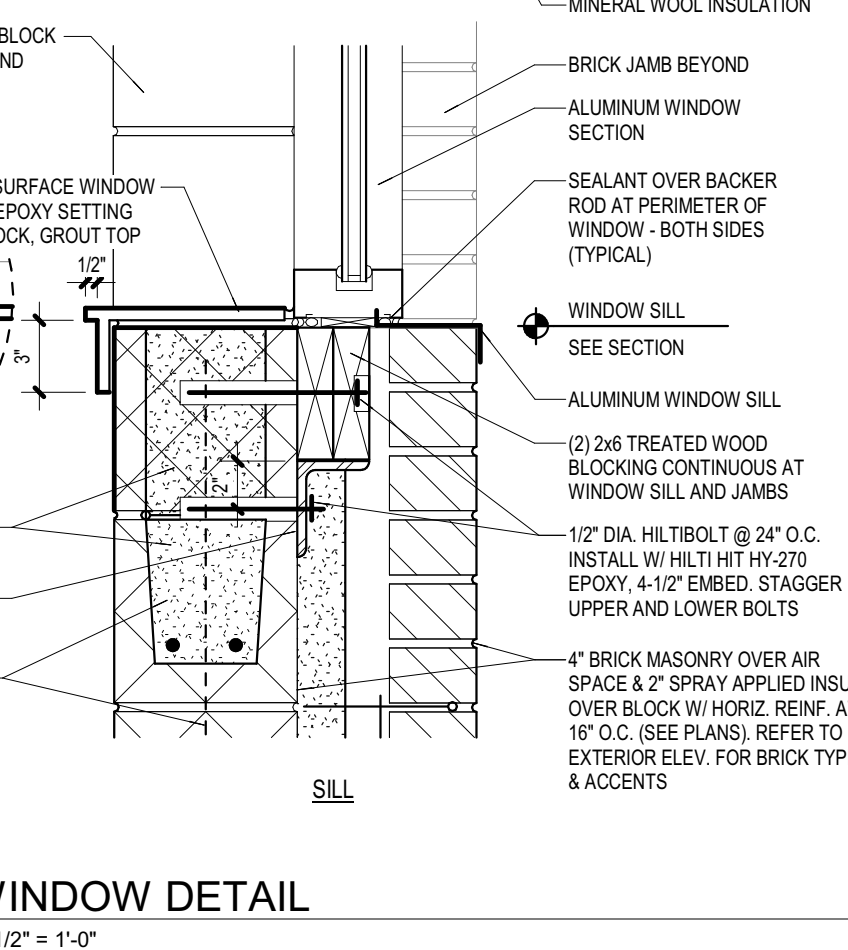
20
A7.02
NEW DOOR & FRAME IN EXISTING WALL
1 1/2" = 1'-0"



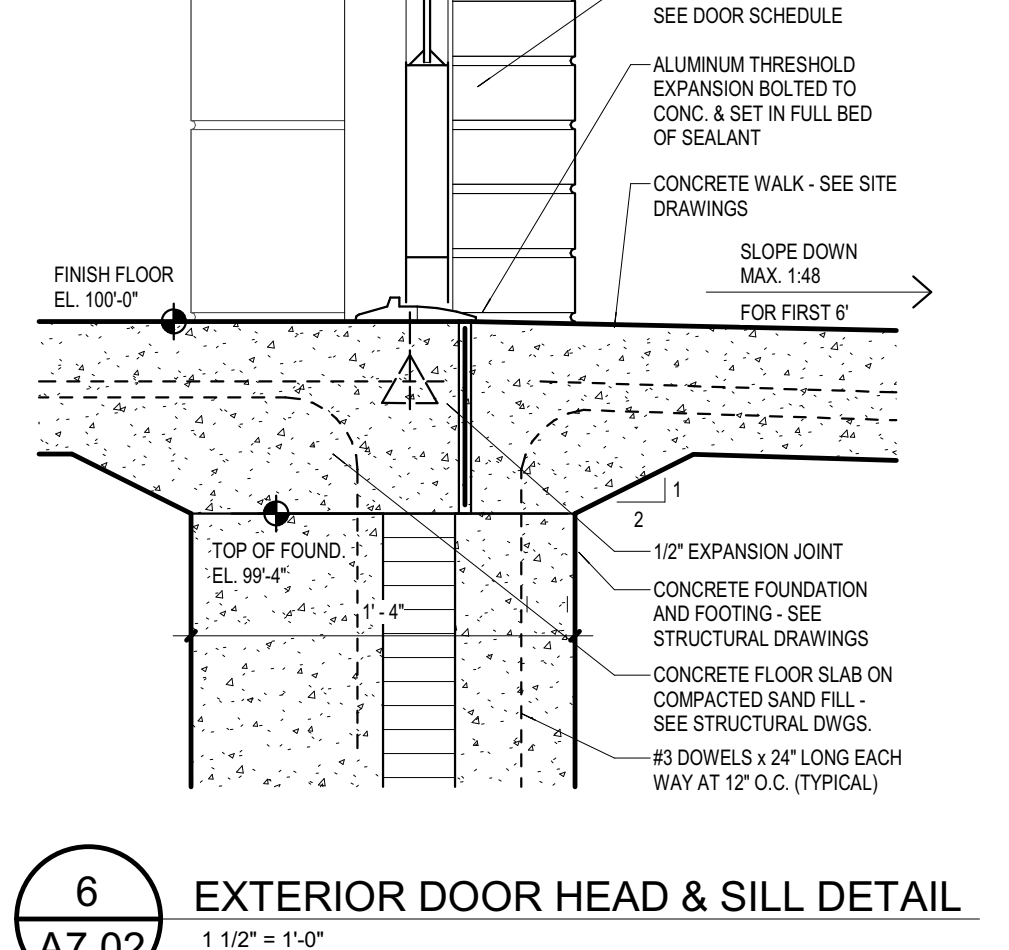
3
A7.02
LOUVER HEAD DETAIL
1 1/2" = 1'-0"



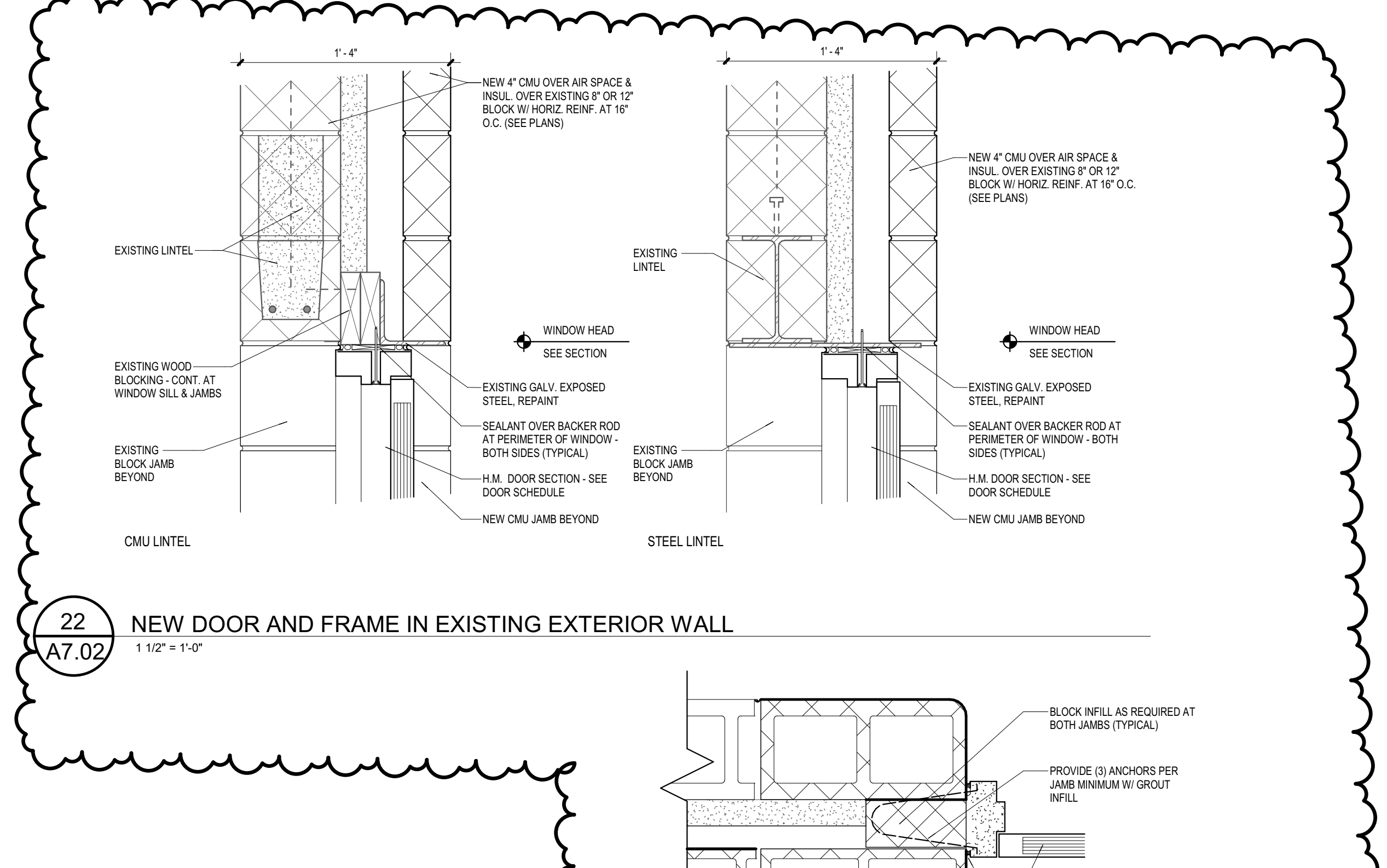
10
A7.02
EXTERIOR DOOR JAMB DETAIL
1 1/2" = 1'-0"



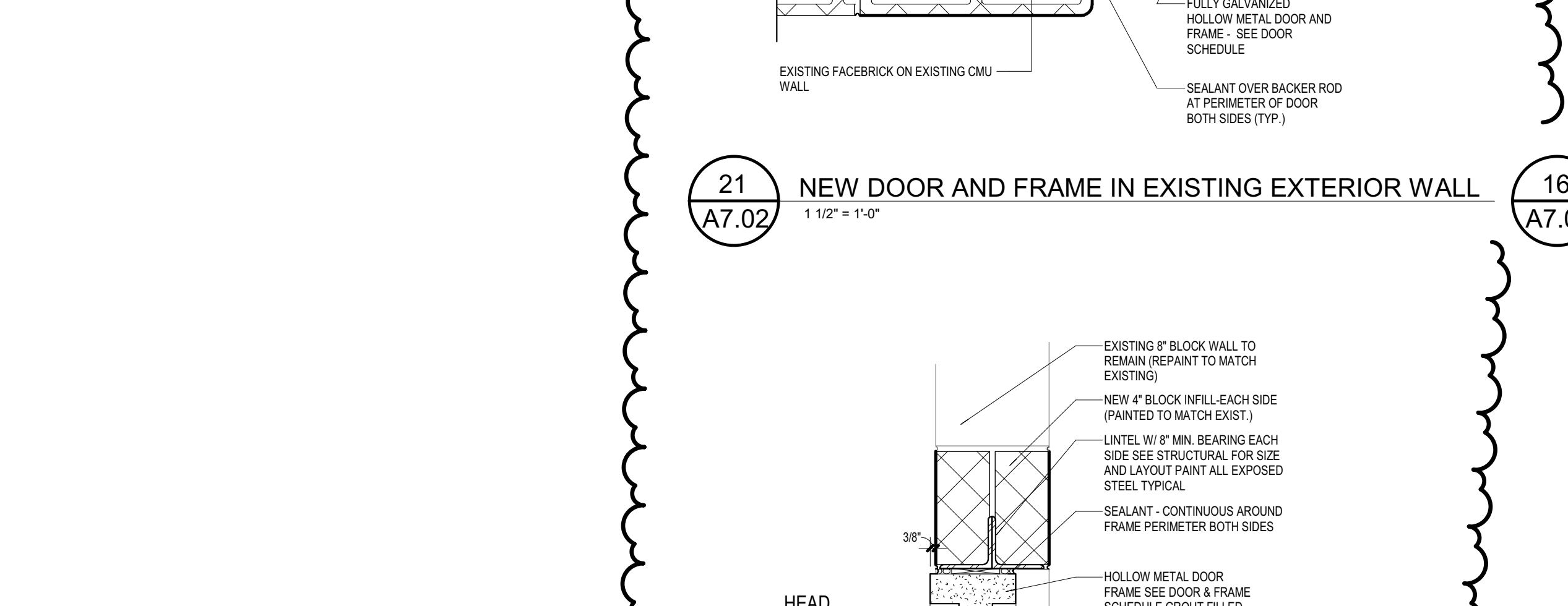
15
A7.02
WINDOW DETAIL
1 1/2" = 1'-0"



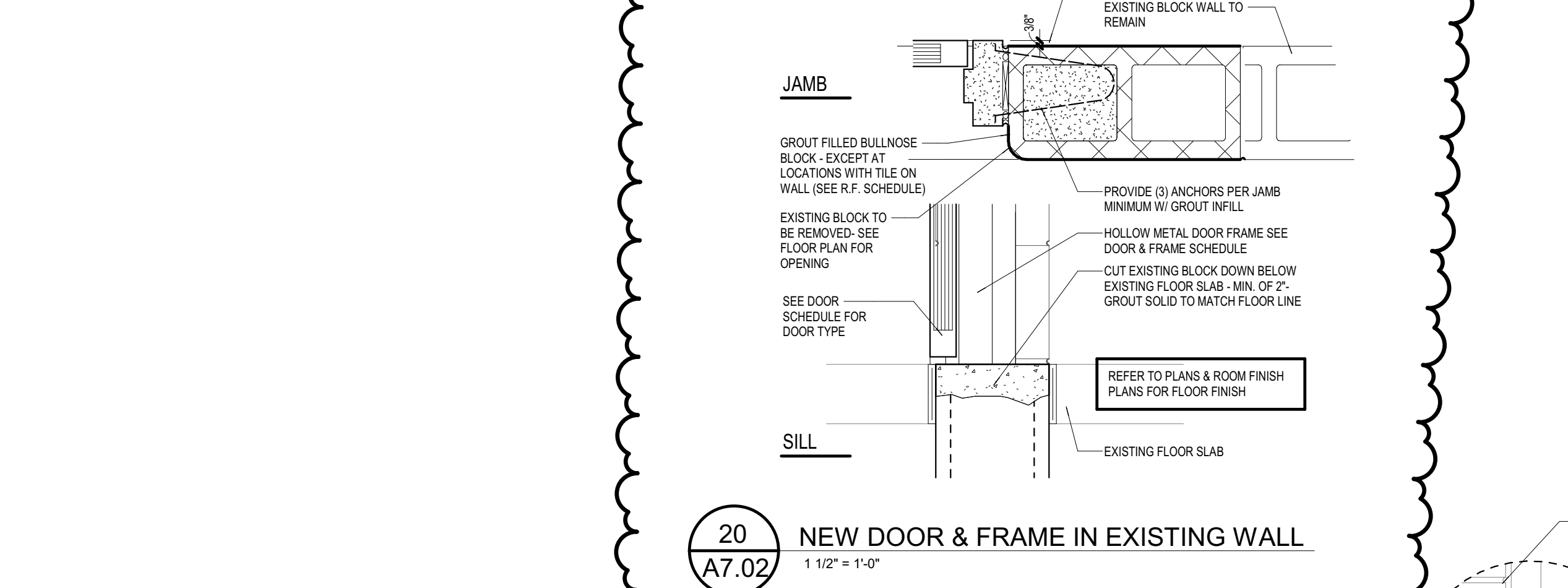
6
A7.02
EXTERIOR DOOR HEAD & SILL DETAIL
1 1/2" = 1'-0"



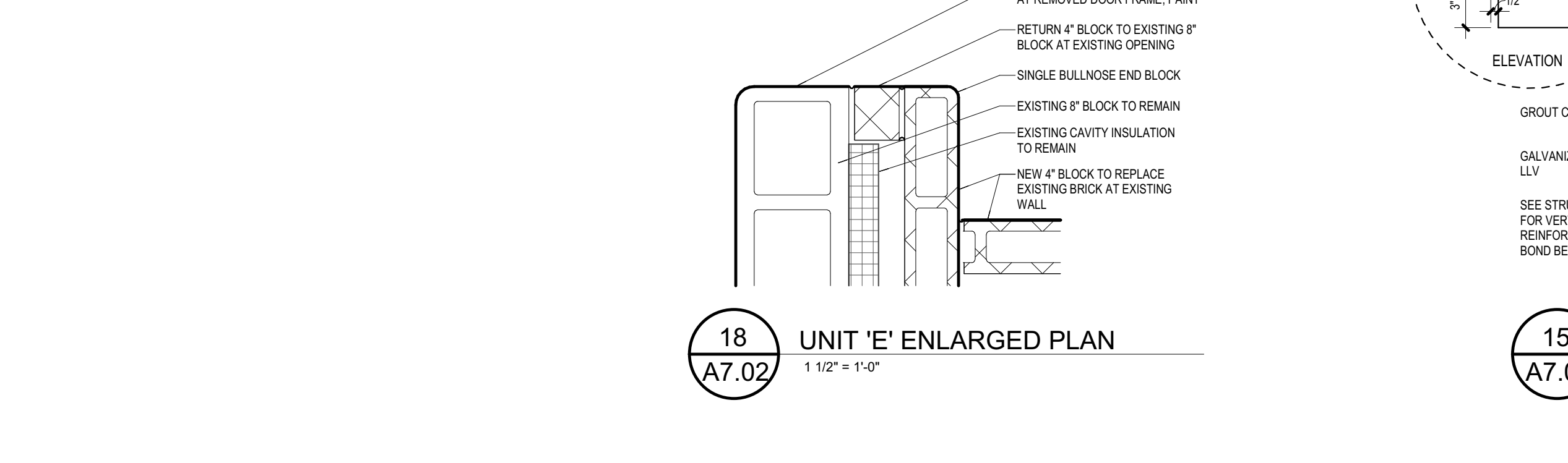
22
A7.02
NEW DOOR AND FRAME IN EXISTING EXTERIOR WALL
1 1/2" = 1'-0"



21
A7.02
NEW DOOR AND FRAME IN EXISTING EXTERIOR WALL
1 1/2" = 1'-0"

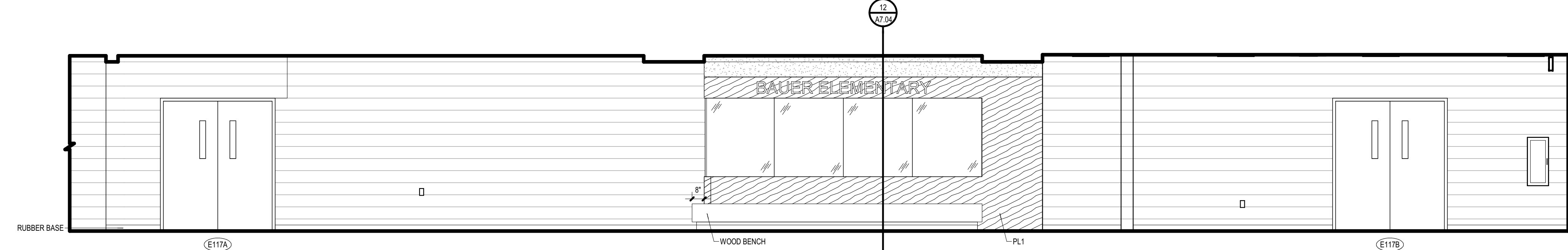


20
A7.02
NEW DOOR & FRAME IN EXISTING WALL
1 1/2" = 1'-0"

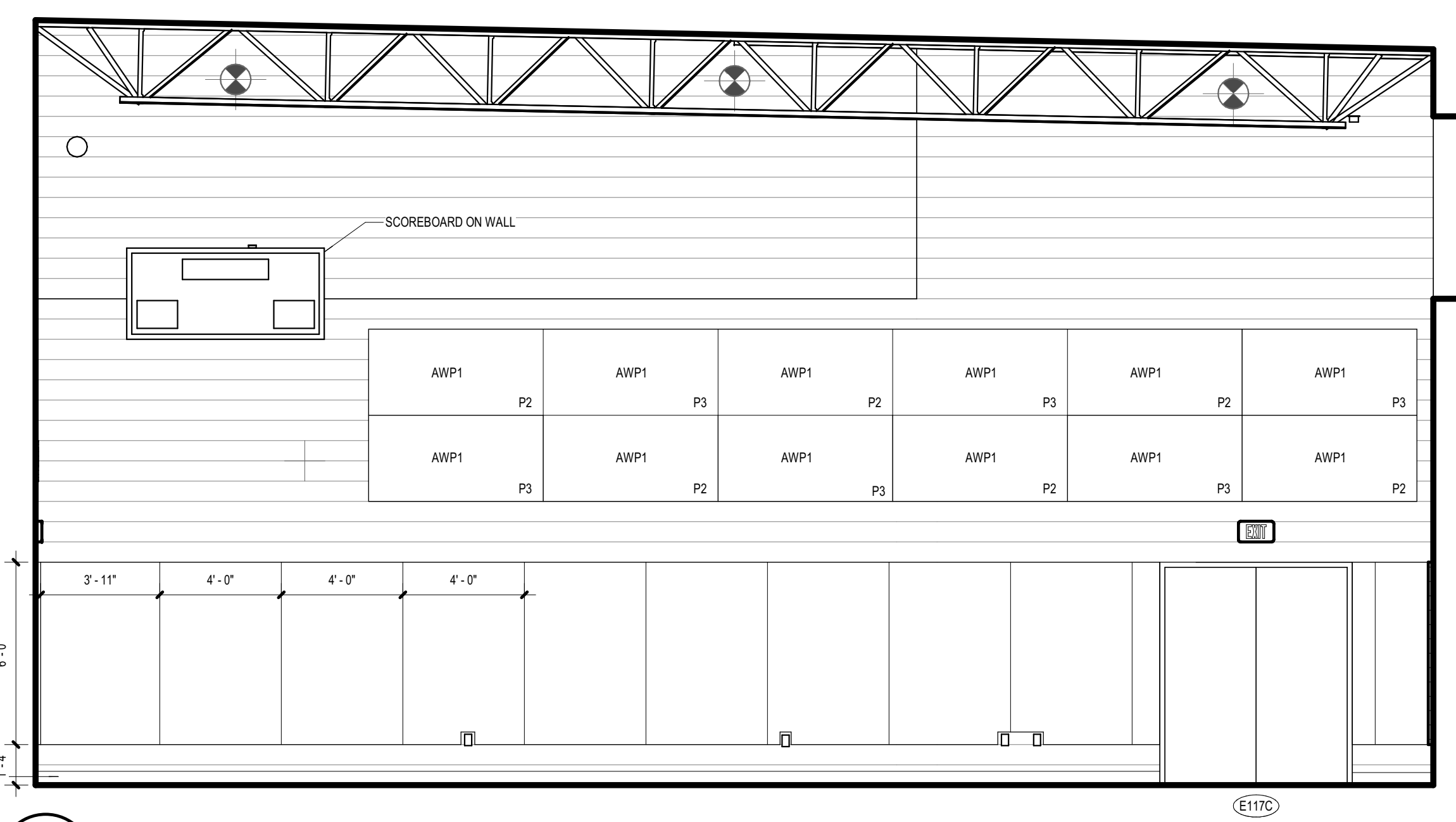


18
A7.02
UNIT 'E' ENLARGED PLAN
1 1/2" = 1'-0"

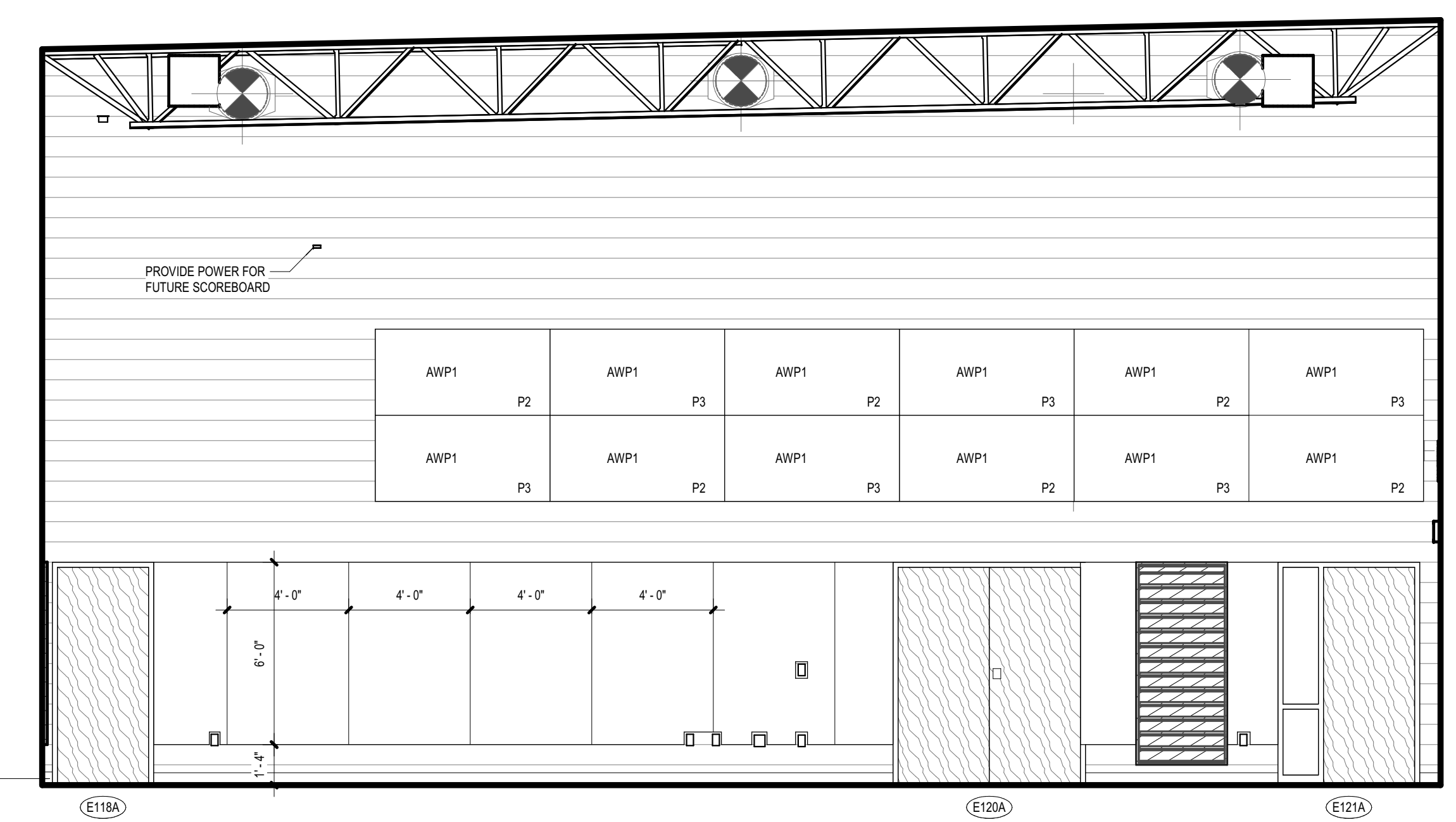
CASEWORK LEGEND	
(SEE ELEVATIONS AND/OR PLANS FOR MORE INFORMATION) (SEE SPECS)	
STYLE	WIDTH
DEPTH	HEIGHT
*DEPTH ONLY GIVEN IF OTHER THAN 24" DEEP FOR BASE / TALL CABINET OR 12" DEEP FOR WALL CABINET ARE USED, TYP.	
B	BASE CABINET
F	FILLER PANEL
M	MOBILE CABINET
T	TALL CABINET
W	WALL CABINET



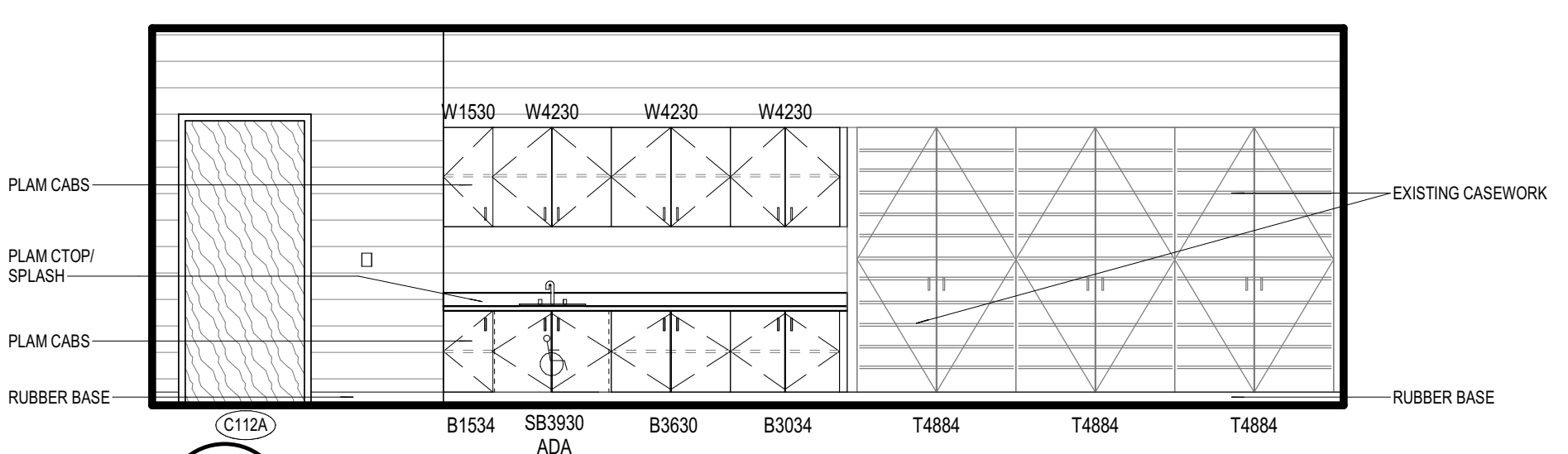
13 E113 CORRIDOR NORTH
1/4" = 1'-0"



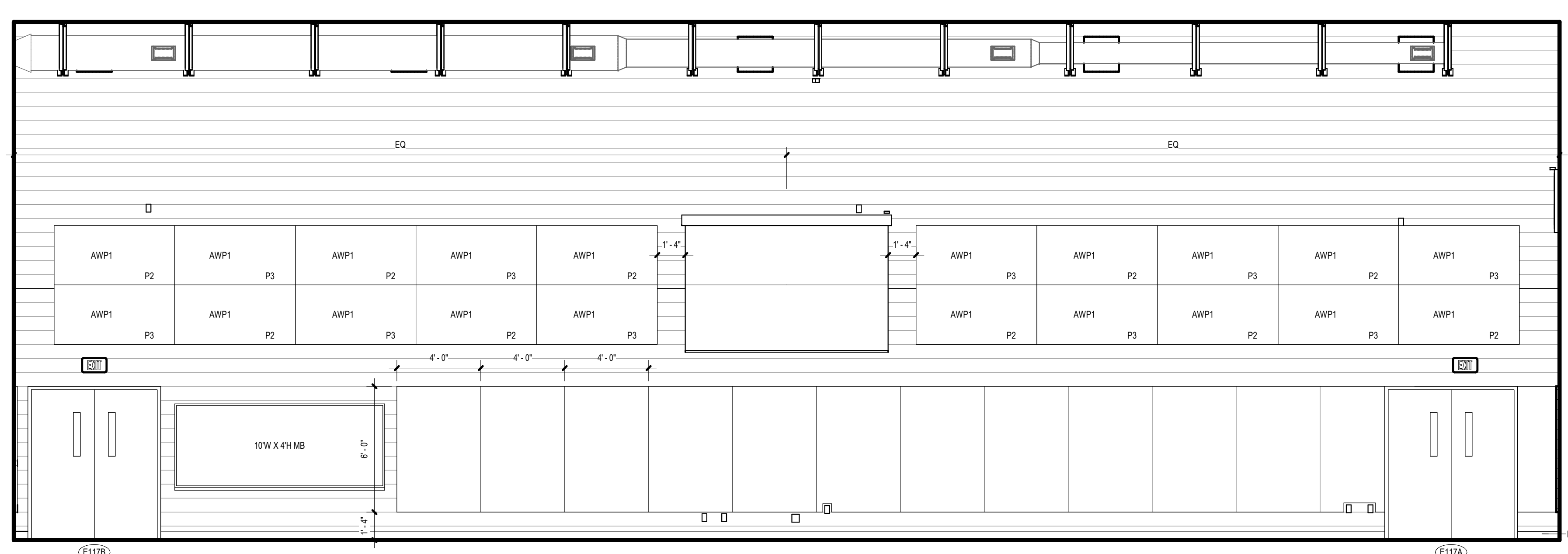
12 E117 GYMNASIUM WEST
1/4" = 1'-0"



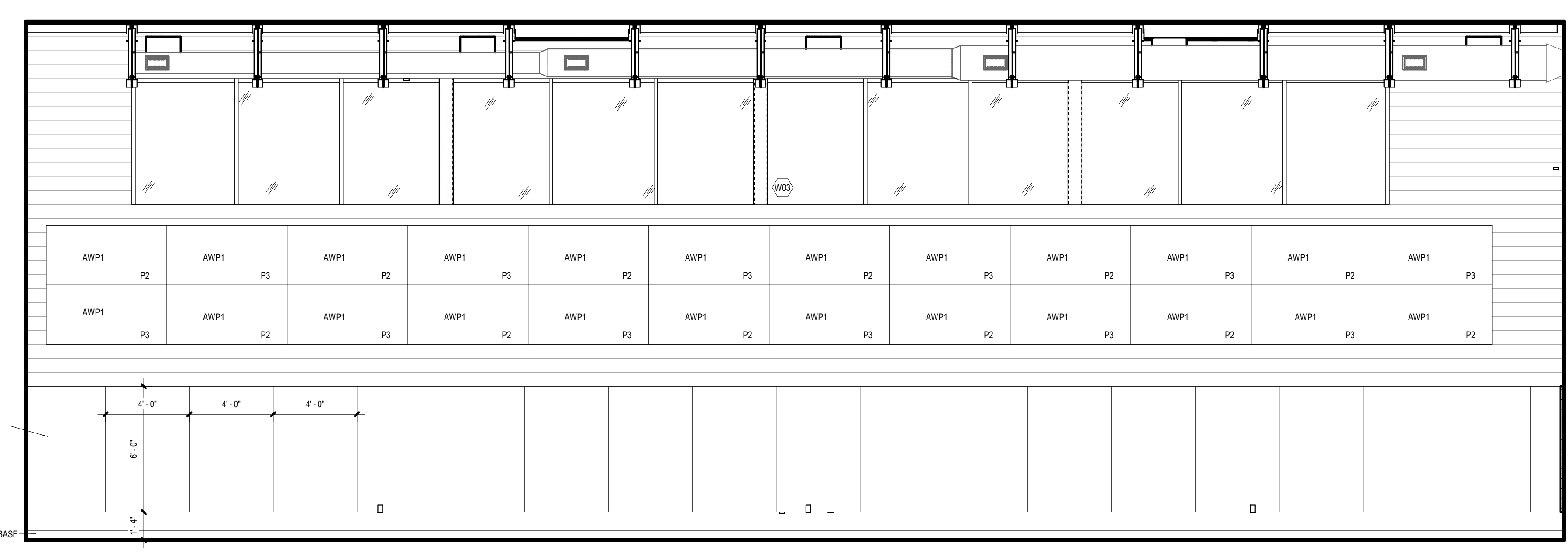
11 E117 GYMNASIUM EAST
1/4" = 1'-0"



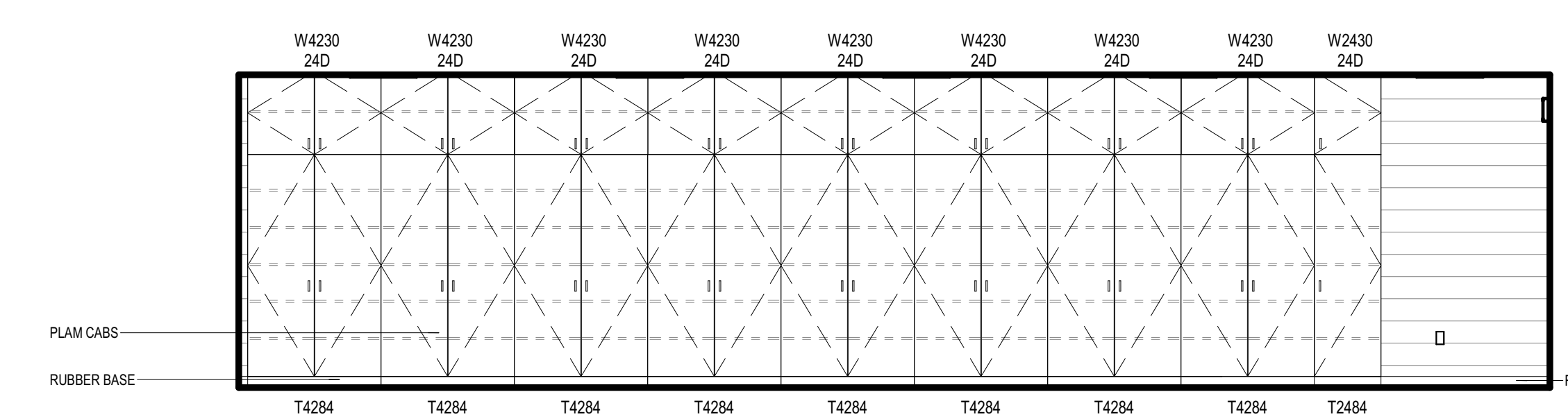
14 C112 CLASSROOM NORTH
1/4" = 1'-0"



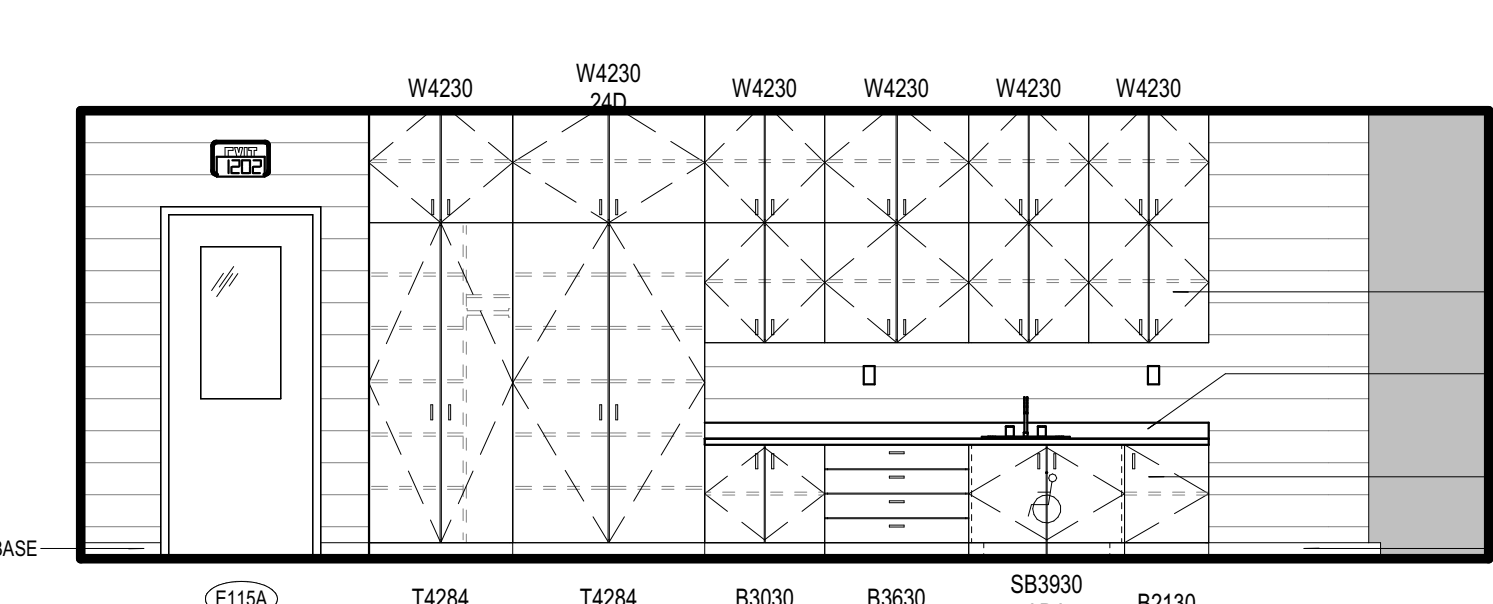
10 E117 GYMNASIUM SOUTH
1/4" = 1'-0"



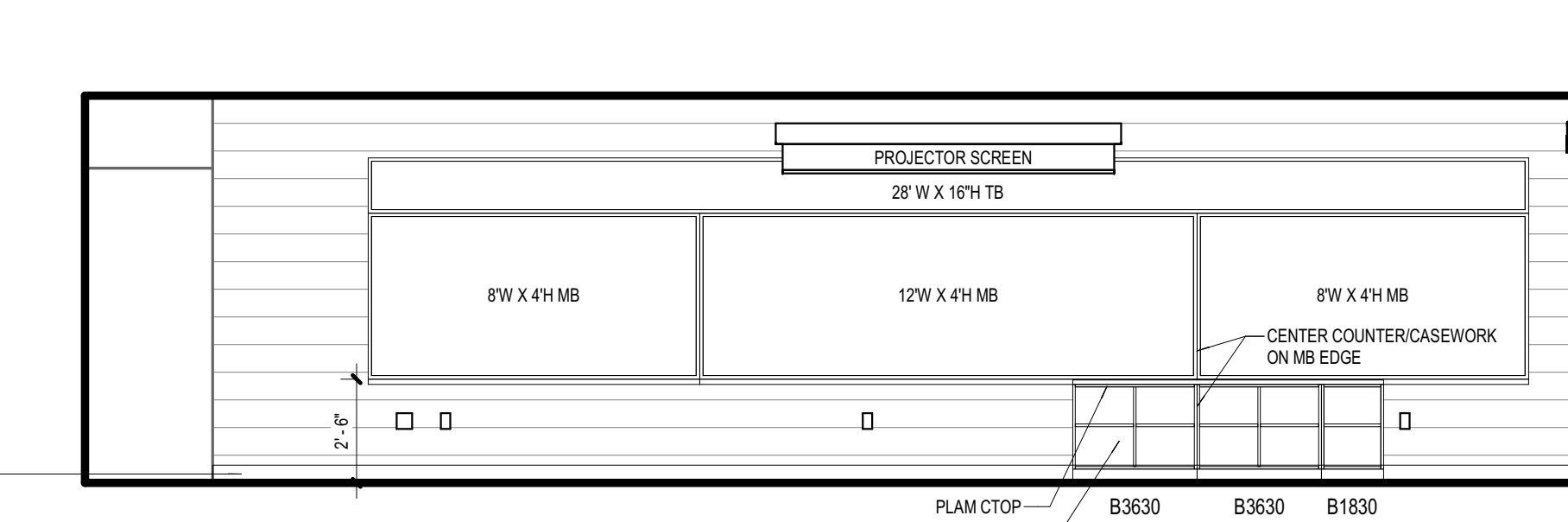
9 E117 GYMNASIUM NORTH
1/4" = 1'-0"



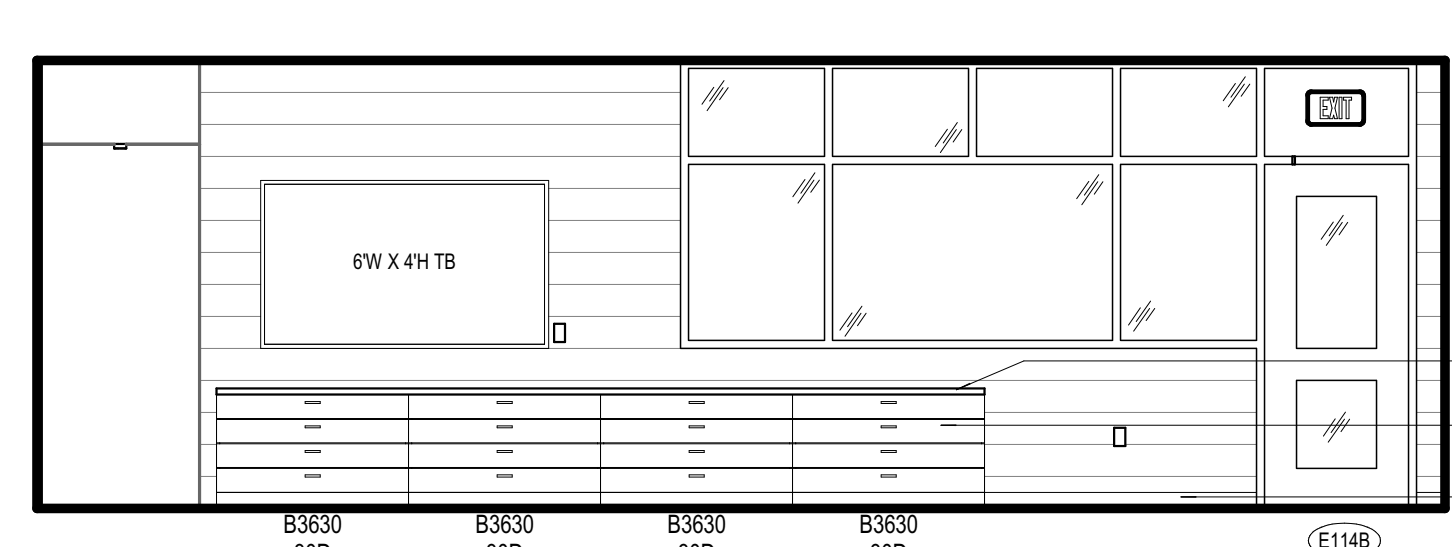
7 E115 CLASSROOM EAST
1/4" = 1'-0"



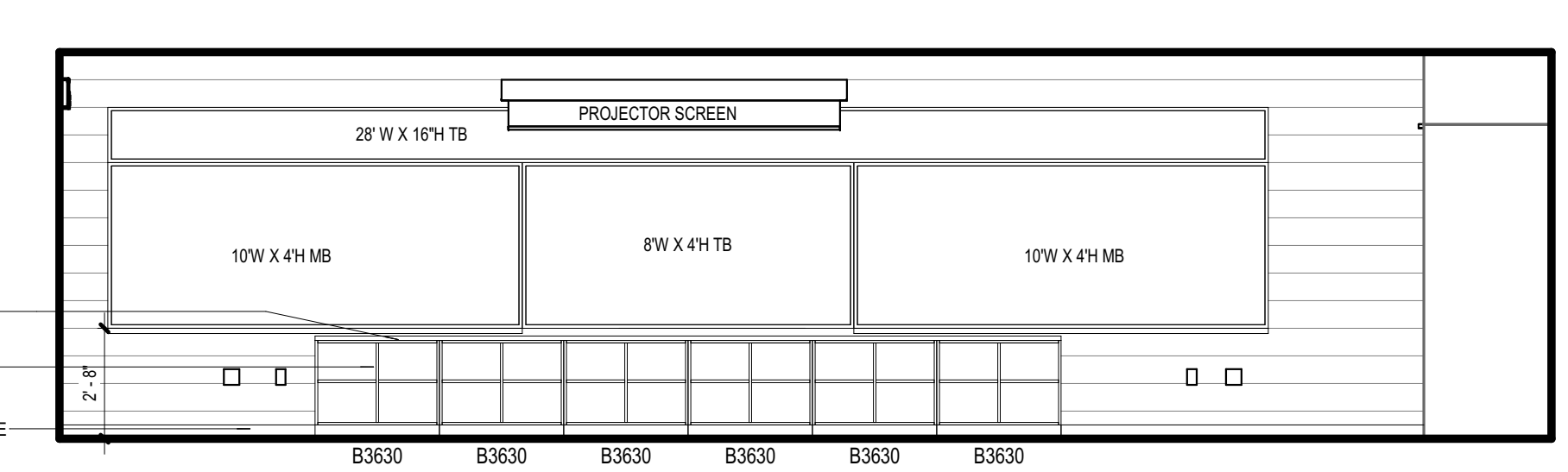
6 E115 CLASSROOM NORTH
1/4" = 1'-0"



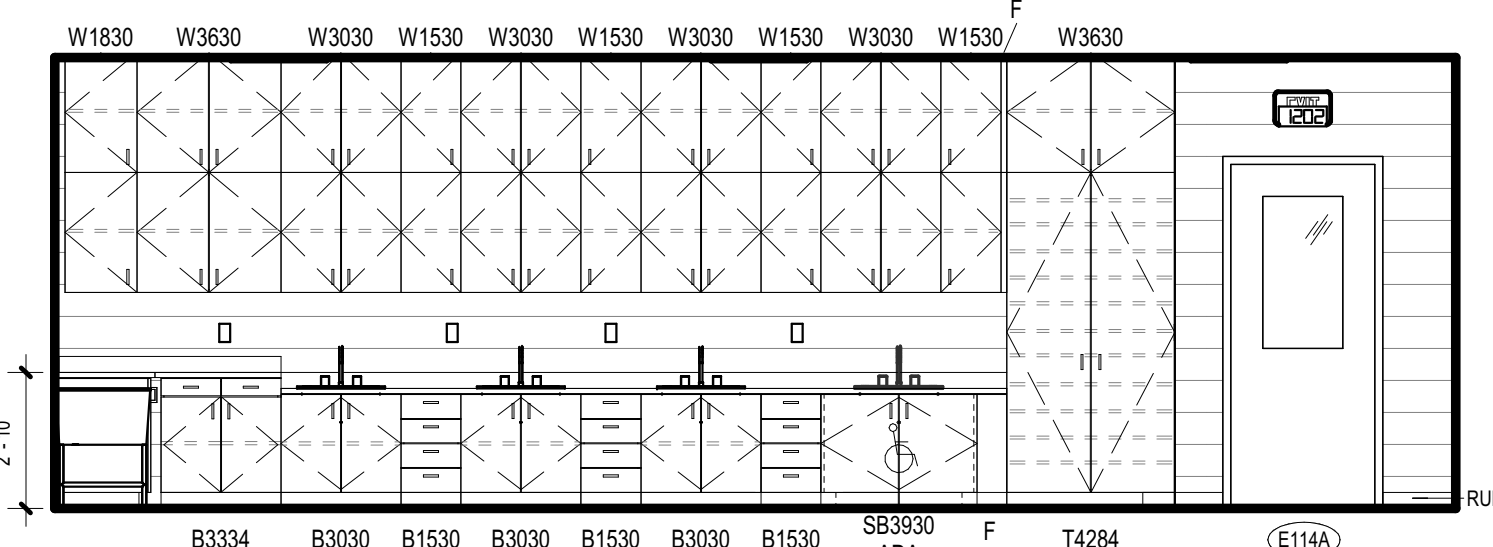
5 E115 CLASSROOM WEST
1/4" = 1'-0"



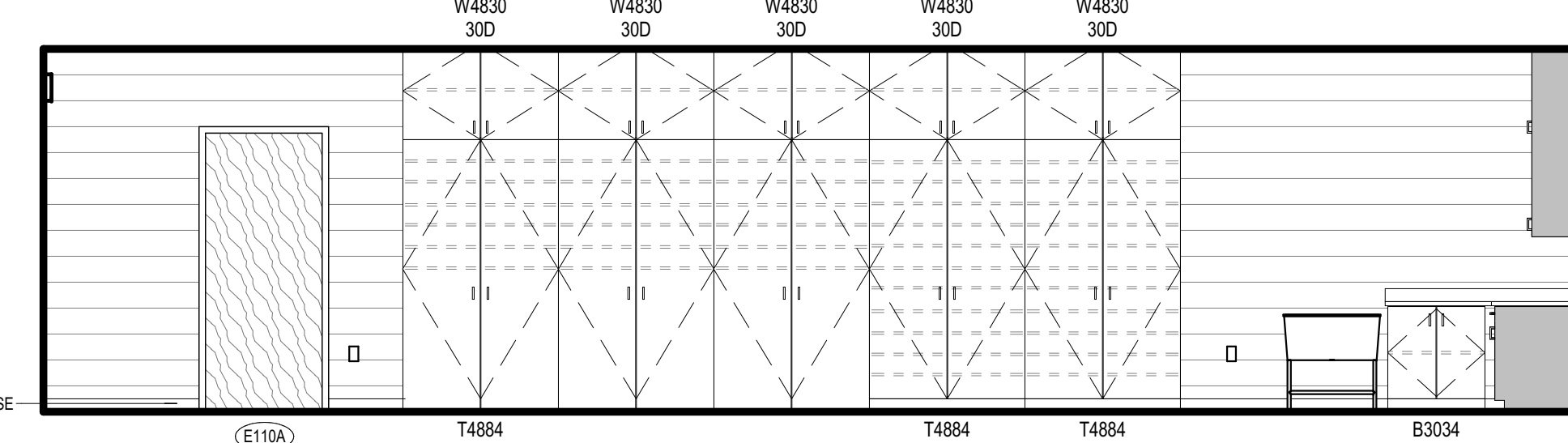
4 E114 CLASSROOM SOUTH
1/4" = 1'-0"



3 E114 CLASSROOM EAST
1/4" = 1'-0"

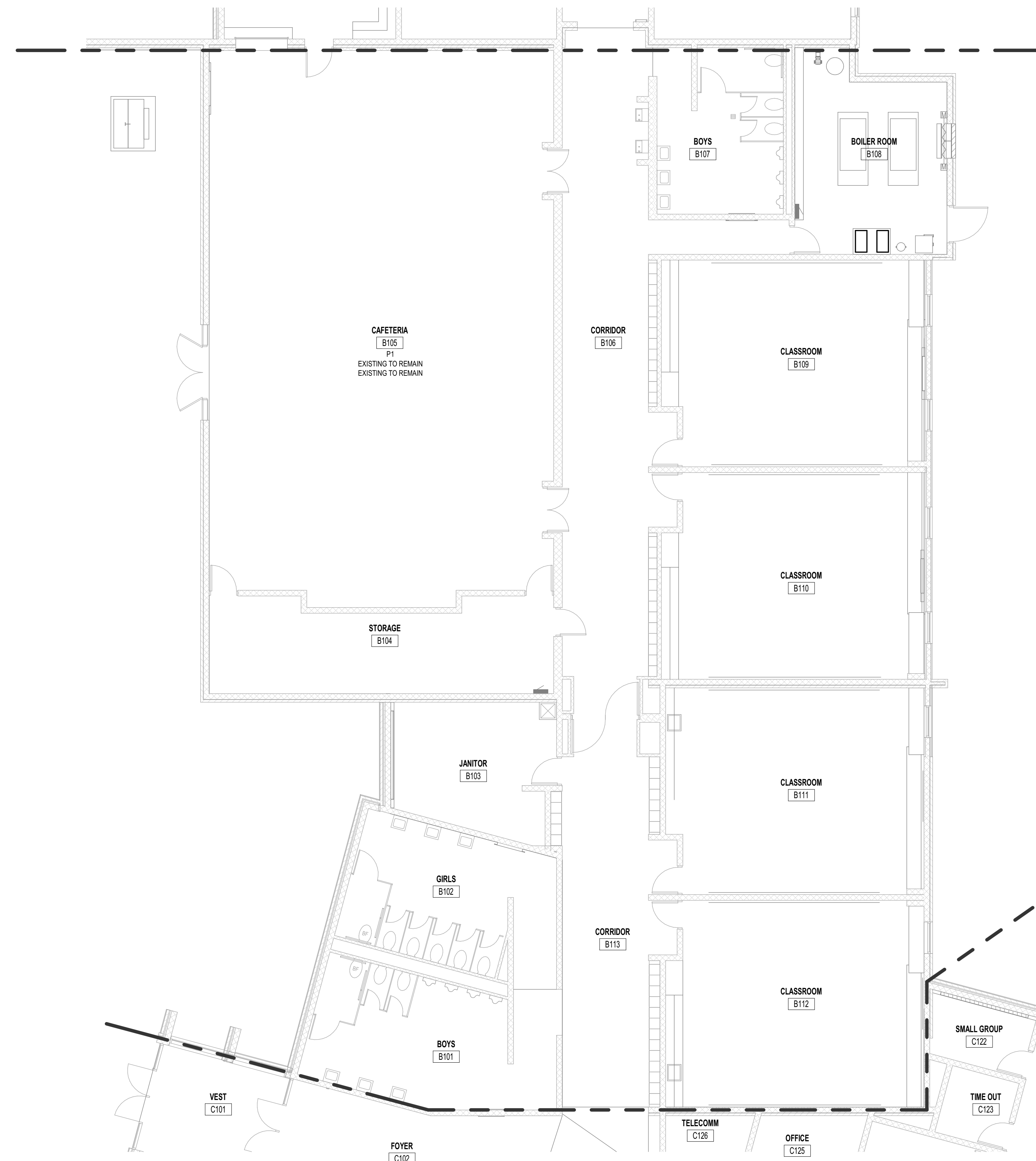


2 E114 CLASSROOM NORTH
1/4" = 1'-0"

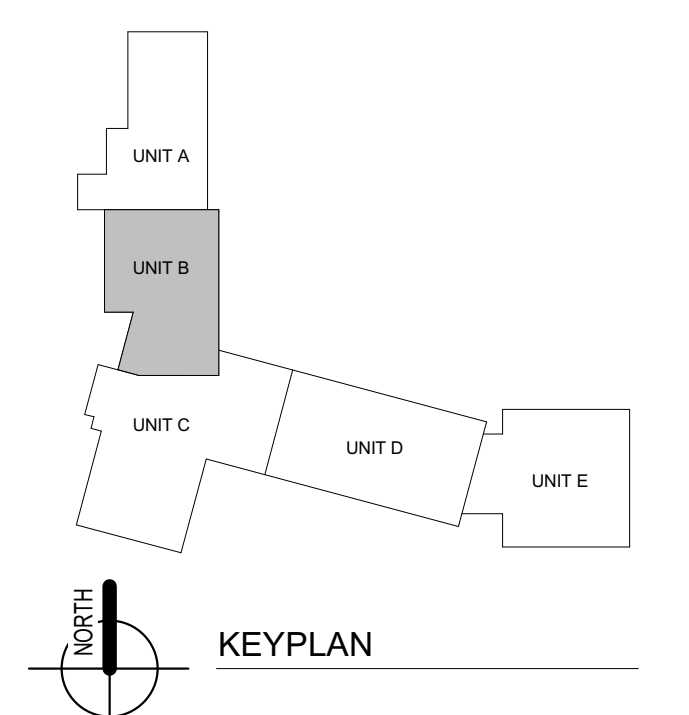


1 E114 CLASSROOM WEST
1/4" = 1'-0"

FINISH SYMBOLS :	GENERAL FINISH NOTES :	FINISH LEGEND :																																				
<p>ROOM NAME WALL FINISH FLOOR FINISH BASE FINISH</p> <p>CPT1 VCT1</p> <p>FLOORING TRANSITION</p> <p>W.P. 1 WORK POINT</p>	<ol style="list-style-type: none"> ALL AREAS OF CARPET, LVT, SEALED CONCRETE, OR OTHER RESILIENT FLOORING TO RECEIVE RUBBER BASE, U.N.O. ON FINISH PLANS. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES. ALL REDUCERS TO COORDINATE APPROPRIATELY WITH ABUTTING MATERIAL HEIGHT. INSTALL 4" H. RUBBER BASE (RB) AT CASEWORK TOE KICKS, INSIDE OF FLOORLESS CASEWORK, AND VERTICAL SUPPORTS. SEE SPECIFICATIONS FOR RESILIENT ACCESSORY INFORMATION. PAINT ALL EXPOSED MECHANICAL AND ELECTRICAL ITEMS INTENDED TO RECEIVE FIELD PAINT TO MATCH ADJACENT SURFACES; U.N.O. DOOR AND WINDOW FRAMES TO BE PAINTED P4, U.N.O. EXPOSED CEILINGS, DECK, DUCTWORK, STRUCTURE AND OTHER MISC. EXPOSED ITEMS TO BE PAINTED; U.N.O. ON INTERIOR ELEVATIONS, CEILING PLANS OR FINISH PLANS. FACE & UNDERSIDE OF BULKHEADS TO BE PAINTED P1, U.N.O. ON FINISH PLANS OR NOTED ON INTERIOR ELEVATIONS. REFER TO CEILING PLANS & CEILING SPECIFICATIONS FOR SPECIAL CEILING DESIGNATIONS AND ACT TYPES. REFER TO INTERIOR ELEVATION SHEETS FOR MORE DETAILED PAINT AND INTERIOR FINISH INFORMATION. ALL WALL TILE INSTALLATIONS SHOULD BE FULL HEIGHT, UNLESS NOTED OR SHOWN OTHERWISE ON INTERIOR ELEVATIONS. ALIGN FLOOR TILE GROUT JOINTS WITH WALL TILE GROUT JOINTS WHERE APPLICABLE. WHERE MATERIALS TRANSITION AT DOOR THRESHOLD, TRANSITION SHOULD OCCUR AT THE CENTER OF THE DOOR IN THE CLOSE POSITION. FOR ALL TILE INSTALLATIONS, REFER TO SPECIFICATIONS FOR TRIM FINISH INFORMATION. MECHANICAL & ELECTRICAL ROOM FINISHES: AS A TYPICAL, PAINT WALLS, DO NOT PAINT EXPOSED STRUCTURE, DO NOT PROVIDE WALL BASE, TYPICAL UNLESS NOTED OTHERWISE ON FINISH PLANS. WHERE SEALED CONCRETE (SC) IS SPECIFIED, REFER TO SPECIFICATION SECTION 09 50 00 PAINTING, FOR SYSTEM TYPE. REFER TO SPECIFICATIONS FOR ALL PAINT TYPES. ALL PAINTED WALLS IN TOILET ROOMS, KITCHENS, LOCKER ROOMS, SCIENCE ROOMS, STUBS AND IMMERSPACES SHALL RECEIVE EPOXY PAINT. ALL STAIR AND GUARDRAIL RAILINGS, HANDRAILS, STRINGERS, RISERS, ETC ARE TO BE PAINTED P2, U.N.O. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF OWNER FURNISHED EQUIPMENT, INCLUDED DIMENSIONS OF SUCH AS THEY RELATE TO THEIR OWN WORK. REMOVE, SALVAGE AND RE-INSTALL EXISTING ROOM SIGNAGE PRIOR TO PAINTING WALLS IN AREAS OF WORK, TYP. REMOVE AND SALVAGE ALL WALL MOUNTED FURNISHINGS AND ARTWORK PRIOR TO PAINTING. COORDINATE SALVAGE AND RE-INSTALLATION WITH OWNER. DO NOT PAINT OVER EXISTING GLAZED FACE BLOCK OR EXPOSED BRICK, U.N.O. PROTECT ALL FINISHES DURING CONSTRUCTION. 	<table border="0"> <tr> <td>ACT1</td> <td>ACOUSTICAL CEILING TILE MFR: LBG STYLE: RADAR CLIMA PLUS 2210 COLOR: WHITE SIZE: 24" X 24" X 5/8" GRID: DONN DDOWN</td> </tr> <tr> <td>AWP1</td> <td>ACOUSTICAL WALL PANEL MFR: ARMSTRONG STYLE: TESTUM WALL PANEL COLOR: FIELD PAINTED SEE ELEVATIONS SIZE: 60" X 34 1/4" X 2 1/2"</td> </tr> <tr> <td>CG1</td> <td>CORNER GUARD STAINLESS STEEL CORNER GUARD</td> </tr> <tr> <td>CT1</td> <td>CARPET TILE MFR: INTERFACE STYLE: 46312 COLOR: 106410 IRON ACCENT SIZE: 36" X 36" X 1/8" INSTALLATION: QUARTER TURN</td> </tr> <tr> <td>CT2</td> <td>CARPET TILE MFR: INTERFACE STYLE: ON LINE COLOR: 102736 OCEAN SIZE: 36" X 36" X 1/8" INSTALLATION: QUARTER TURN</td> </tr> <tr> <td>CT3</td> <td>CARPET TILE MFR: INTERFACE STYLE: STEP HEAT SR899 COLOR: 106410 ONYX SIZE: 36" X 36" X 1/8" INSTALLATION: MONOLITHIC</td> </tr> <tr> <td>CTW1</td> <td>CERAMIC TILE WALL MFR: DALLIE STYLE: COLORED WHEEL LINEAR COLOR: NAVY SIZE: 4 X 12 INCHES INSTALLATION: 1/8" BRICK OFFSET, FULL HEIGHT WALL</td> </tr> <tr> <td>P1</td> <td>PAINT (GENERAL) MFR: BENJAMIN MOORE COLOR: MATCH EXISTING GENERAL WALL WHITE</td> </tr> <tr> <td>P2</td> <td>PAINT (ACCENT) MFR: BENJAMIN MOORE COLOR: HC-15 STUART GOLD</td> </tr> <tr> <td>P3</td> <td>PAINT (ACCENT) MFR: BENJAMIN MOORE COLOR: HC-159 NEWBURY PORT BLUE</td> </tr> <tr> <td>P4</td> <td>PAINT (TRIM) MFR: SHERWIN WILLIAMS COLOR: SW7019 GAUNTLET GRAY</td> </tr> <tr> <td>PC1</td> <td>POLISHED CONCRETE COLOR: NATURAL LEVEL 3 POLISH CLASS 3 AGGREGATE EXPOSURE</td> </tr> <tr> <td>PL1</td> <td>PLASTIC LAMINATE MFR: WILSONART COLOR: 107560 KENSINGTON MAPLE</td> </tr> <tr> <td>PL2</td> <td>PLASTIC LAMINATE MFR: WILSONART COLOR: 4642-38 CRISP LINEN</td> </tr> <tr> <td>RAF1</td> <td>RESILIENT ATHLETIC FLOORING MFR: SERFLO STYLE: TAGAR EX SPORT W PLUS COLOR: MAPLE DESIGN</td> </tr> <tr> <td>RB1</td> <td>RUBBER BASE MFR: JOHNSONITE STYLE: 474 107 ROLLS COLOR: MATCH EX. BUILDING COLOR</td> </tr> <tr> <td>SC1</td> <td>SEALED CONCRETE MECHANICAL ROOM FLOOR COATING</td> </tr> <tr> <td>SS1</td> <td>STAINLESS STEEL</td> </tr> </table>	ACT1	ACOUSTICAL CEILING TILE MFR: LBG STYLE: RADAR CLIMA PLUS 2210 COLOR: WHITE SIZE: 24" X 24" X 5/8" GRID: DONN DDOWN	AWP1	ACOUSTICAL WALL PANEL MFR: ARMSTRONG STYLE: TESTUM WALL PANEL COLOR: FIELD PAINTED SEE ELEVATIONS SIZE: 60" X 34 1/4" X 2 1/2"	CG1	CORNER GUARD STAINLESS STEEL CORNER GUARD	CT1	CARPET TILE MFR: INTERFACE STYLE: 46312 COLOR: 106410 IRON ACCENT SIZE: 36" X 36" X 1/8" INSTALLATION: QUARTER TURN	CT2	CARPET TILE MFR: INTERFACE STYLE: ON LINE COLOR: 102736 OCEAN SIZE: 36" X 36" X 1/8" INSTALLATION: QUARTER TURN	CT3	CARPET TILE MFR: INTERFACE STYLE: STEP HEAT SR899 COLOR: 106410 ONYX SIZE: 36" X 36" X 1/8" INSTALLATION: MONOLITHIC	CTW1	CERAMIC TILE WALL MFR: DALLIE STYLE: COLORED WHEEL LINEAR COLOR: NAVY SIZE: 4 X 12 INCHES INSTALLATION: 1/8" BRICK OFFSET, FULL HEIGHT WALL	P1	PAINT (GENERAL) MFR: BENJAMIN MOORE COLOR: MATCH EXISTING GENERAL WALL WHITE	P2	PAINT (ACCENT) MFR: BENJAMIN MOORE COLOR: HC-15 STUART GOLD	P3	PAINT (ACCENT) MFR: BENJAMIN MOORE COLOR: HC-159 NEWBURY PORT BLUE	P4	PAINT (TRIM) MFR: SHERWIN WILLIAMS COLOR: SW7019 GAUNTLET GRAY	PC1	POLISHED CONCRETE COLOR: NATURAL LEVEL 3 POLISH CLASS 3 AGGREGATE EXPOSURE	PL1	PLASTIC LAMINATE MFR: WILSONART COLOR: 107560 KENSINGTON MAPLE	PL2	PLASTIC LAMINATE MFR: WILSONART COLOR: 4642-38 CRISP LINEN	RAF1	RESILIENT ATHLETIC FLOORING MFR: SERFLO STYLE: TAGAR EX SPORT W PLUS COLOR: MAPLE DESIGN	RB1	RUBBER BASE MFR: JOHNSONITE STYLE: 474 107 ROLLS COLOR: MATCH EX. 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<p>FINISH KEYNOTES :</p> <p>01 MANUAL ROLLER SHADE LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION</p> <p>02 MOTORIZED ROLLER SHADES LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION</p>																																						



UNIT 'B' FINISH PLAN
1/8" = 1'-0"



ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

DRAWN MRJ
REVIEWED TGD

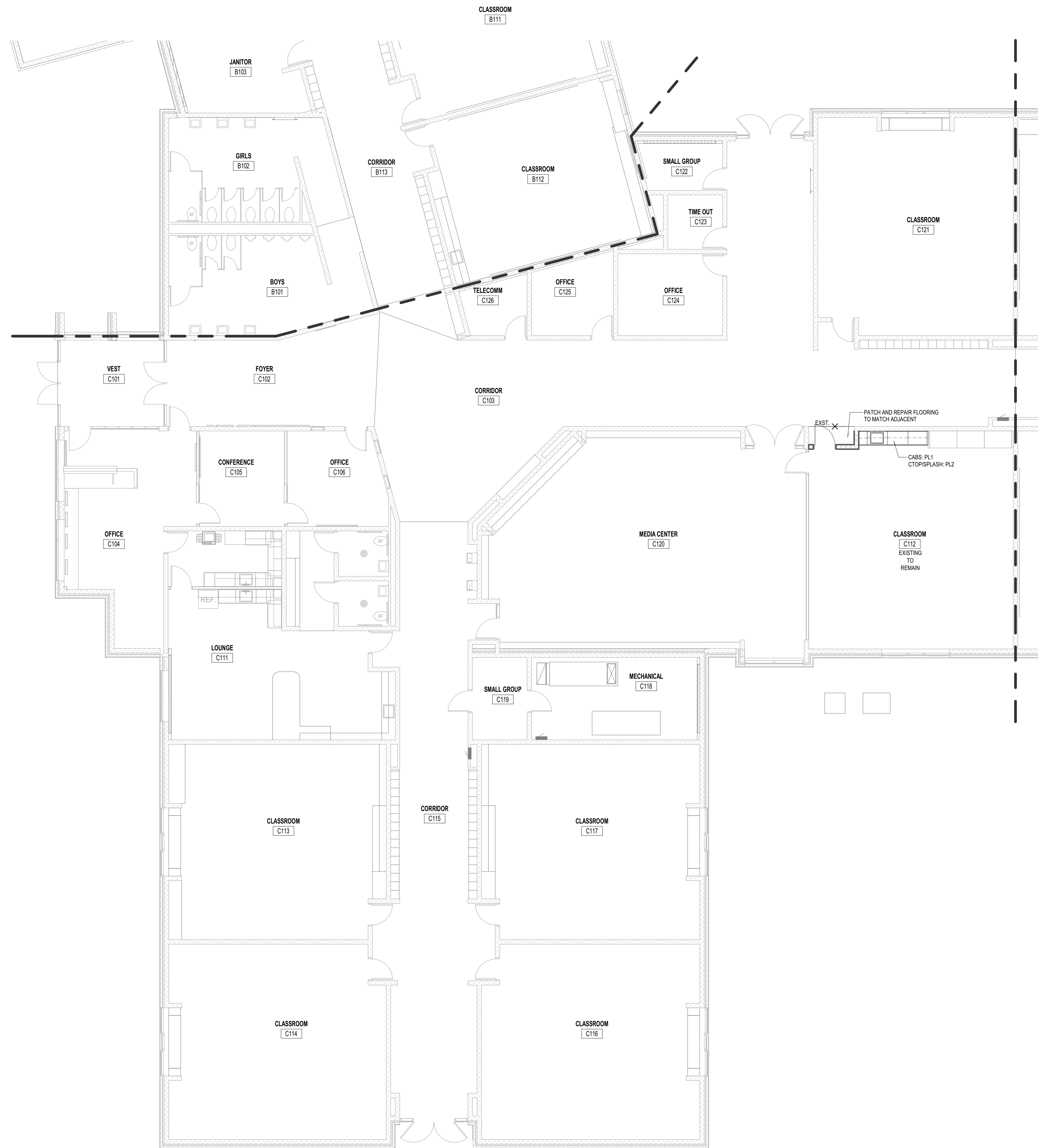
PROJECT NO. 5-5769

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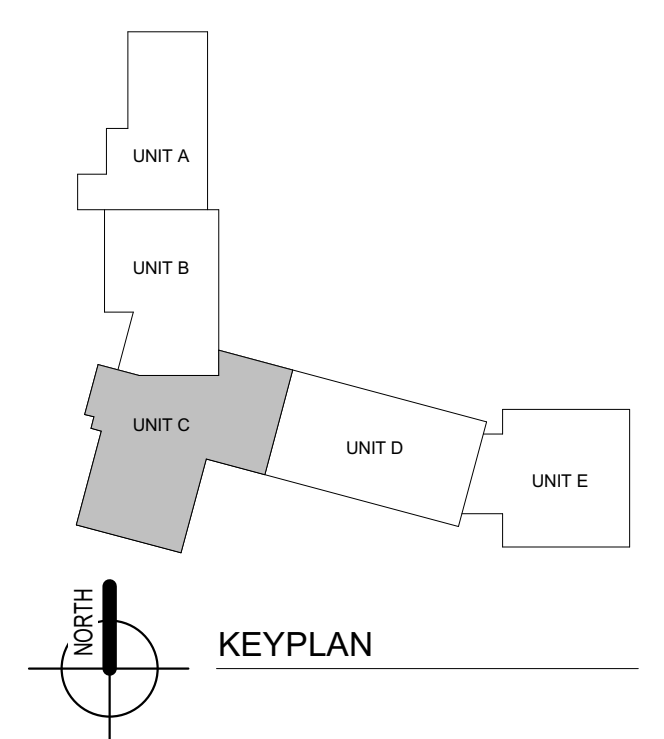
UNIT 'B' FINISH PLAN

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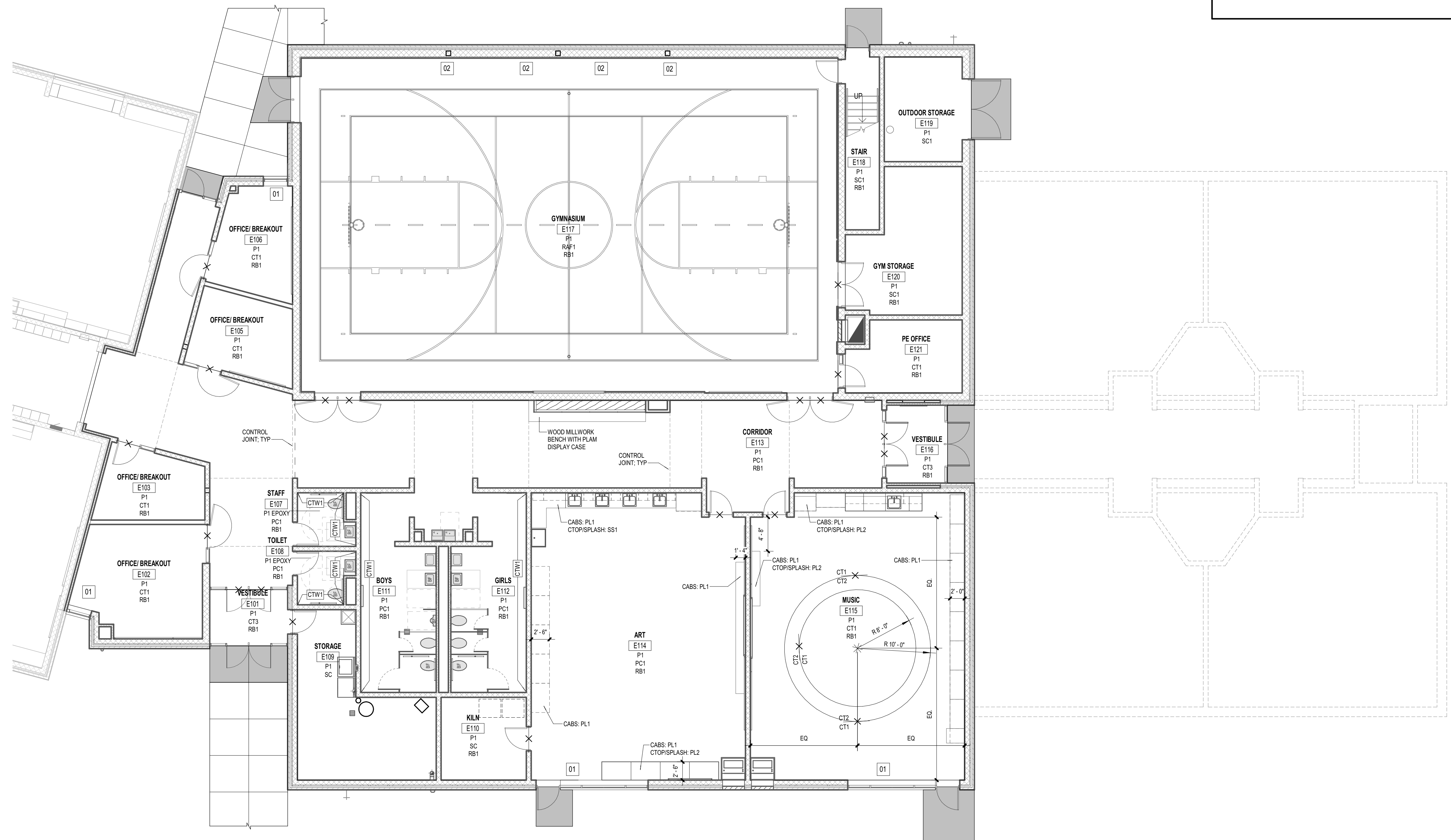
FINISH SYMBOLS :	GENERAL FINISH NOTES :	FINISH LEGEND :
<p>ROOM NAME WALL FINISH FLOOR FINISH BASE FINISH</p> <p>OPT1 VCT1 FLOORING TRANSITION</p> <p>W.P.1 WORK POINT</p>	<ol style="list-style-type: none"> ALL AREAS OF CARPET, LVT, SEALED CONCRETE, OR OTHER RESILIENT FLOORING TO RECEIVE RUBBER BASE: U.N.O. ON FINISH PLANS. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES. ALL REDUCERS TO COORDINATE APPROPRIATELY WITH ABUTTING MATERIAL HEIGHT. INSTALL 4" H. RUBBER BASE (RB) AT CASEWORK TOE KICKS, INSIDE OF FLOORLESS CASEWORK, AND VERTICAL SUPPORTS. SEE SPECIFICATIONS FOR RESILIENT ACCESSORY INFORMATION. PAINT ALL EXPOSED MECHANICAL AND ELECTRICAL ITEMS INTENDED TO RECEIVE FIELD PAINT TO MATCH ADJACENT SURFACES: U.N.O. DOOR AND WINDOW FRAMES TO BE PAINTED P1, U.N.O. EXPOSED CEILINGS, DECK, DUCTWORK, STRUCTURE AND OTHER MISC. EXPOSED ITEMS TO BE PAINTED: U.N.O. ON INTERIOR ELEVATIONS, CEILING PLANS OR FINISH PLANS. FACE & UNDERSIDE OF BALUNES TO BE PAINTED P1, U.N.O. ON FINISH PLANS OR NOTED ON INTERIOR ELEVATIONS. REFER TO CEILING PLANS & CEILING SPECIFICATIONS FOR SPECIAL CEILING DESIGNATIONS AND ACT TYPES. REFER TO INTERIOR ELEVATION SHEETS FOR MORE DETAILED PAINT AND INTERIOR FINISH INFORMATION. ALL WALL TILE INSTALLATIONS SHOULD BE FULL HEIGHT, UNLESS NOTED OR SHOWN OTHERWISE ON INTERIOR ELEVATIONS. ALIGN FLOOR TILE GROUT JOINTS WITH WALL TILE GROUT JOINTS WHERE APPLICABLE. WHERE MATERIALS TRANSITION AT DOOR THRESHOLD, TRANSITION SHOULD OCCUR AT THE CENTER OF THE DOOR IN THE CLOSE POSITION. FOR ALL TILE INSTALLATIONS, REFER TO SPECIFICATIONS FOR TRIM FINISH INFORMATION. MECHANICAL & ELECTRICAL ROOM FINISHES: AS A TYPICAL PAINT WALLS, DO NOT PAINT EXPOSED STRUCTURE; DO NOT PROVIDE WALL BASE. TYPICAL UNLESS NOTED OTHERWISE ON FINISH PLANS. WHERE SEALED CONCRETE (SC) IS SPECIFIED, REFER TO SPECIFICATION SECTION 09 90 00 PAINTING, FOR SYSTEM TYPE. REFER TO SPECIFICATIONS FOR ALL PAINT TYPES. ALL PAINTED WALLS IN TOILET ROOMS, KITCHENS, LOCKER ROOMS, SCIENCE ROOMS, STEM AND NAVIGATIONS SHALL RECEIVE EPOXY PAINT. ALL STAIR AND GUARDRAIL, RAILINGS, HANDRAILS, STRINGERS, RISERS, ETC ARE TO BE PAINTED P2, U.N.O. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF OWNER FURNISHED EQUIPMENT, INCLUDED DIMENSIONS OF SUCH AS THEY RELATE TO THEIR OWN WORK. REMOVE, SALVAGE AND RE-INSTALL EXISTING ROOM SIGNAGE PRIOR TO PAINTING WALLS IN AREAS OF WORK. TYP. REMOVE AND SALVAGE ALL WALL MOUNTED FURNISHINGS AND ARTWORK PRIOR TO PAINTING. COORDINATE SALVAGE AND RE-INSTALLATION WITH OWNER. DO NOT PAINT OVER EXISTING GLAZED FACE BLOCK OR EXPOSED BRICK, U.N.O. PROTECT ALL FINISHES DURING CONSTRUCTION. 	<p>ACT1 ACOUSTICAL CEILING TILE MFR: USG STYLE: RADAR CLIMA PLUS 2210 COLOR: WHITE SIZE: 24" X 24" X 5/8" GRD. DOWN 0X/0W/L</p> <p>AWP1 ACOUSTICAL WALL PANEL MFR: ARMSTRONG STYLE: TECTUM WALL PANEL COLOR: FELD PAINTED SEE ELEVATIONS SIZE: 60" X 36" X 1/2"</p> <p>CG1 CORNER GUARD STAINLESS STEEL CORNER GUARD</p> <p>CT1 CARPET TILE MFR: INTERFACE STYLE: KEV12 COLOR: 10410 IRON ACCENT SIZE: 500X X 500X INSTALLATION: QUARTER TURN</p> <p>CT2 CARPET TILE MFR: INTERFACE STYLE: ON LINE COLOR: 10376 OCEAN SIZE: 250X X 1'6" INSTALLATION: QUARTER TURN</p> <p>CT3 CARPET TILE MFR: INTERFACE STYLE: STEP HEAT SR899 COLOR: 10481 ONYX SIZE: 500X X 500X INSTALLATION: MONOLITHIC</p> <p>CTW1 CERAMIC TILE WALL MFR: DALTILE STYLE: COLOR WHEEL LINEAR COLOR: NAVY SIZE: 4 X 12 INCHES INSTALLATION: 1/3 BRICK OFFSET, FULL HEIGHT WALL</p> <p>P1 PAINT (GENERAL) MFR: BENJAMIN MOORE COLOR: MATCH EXISTING GENERAL WALL WHITE</p> <p>P2 PAINT (ACCENT) MFR: BENJAMIN MOORE COLOR: HC-10 STUART GOLD</p> <p>P3 PAINT (ACCENT) MFR: BENJAMIN MOORE COLOR: HC-155 NEWBURY PORT BLUE</p> <p>P4 PAINT (TRIM) MFR: SHERWIN WILLIAMS COLOR: SW7019 GAUNTLET GRAY</p> <p>PC1 POLISHED CONCRETE COLOR: NATURAL LEVEL 3 POLISH, CLASS 3 AGGREGATE EXPOSURE</p> <p>PL1 PLASTIC LAMINATE MFR: WILSONART COLOR: 107560 KENSINGTON MAPLE</p> <p>PL2 PLASTIC LAMINATE MFR: WILSONART COLOR: 4942-36 CRISP LINEN</p> <p>RAF1 RESILIENT ATHLETIC FLOORING MFR: GEPLO STYLE: TARAFLEX SPORT M PLUS COLOR: MAPLE DESIGN</p> <p>RB1 RUBBER BASE MFR: JOHNSONITE STYLE: #1 120 ROLLS COLOR: MATCH EXT. BUILDING COLOR</p> <p>SC1 SEALED CONCRETE MECHANICAL ROOM FLOOR COATING</p> <p>SS1 STAINLESS STEEL</p>
<p>FINISH KEYNOTES :</p> <p>01 MANUAL ROLLER SHADE LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION.</p> <p>02 MOTORIZED ROLLER SHADES LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION.</p>		



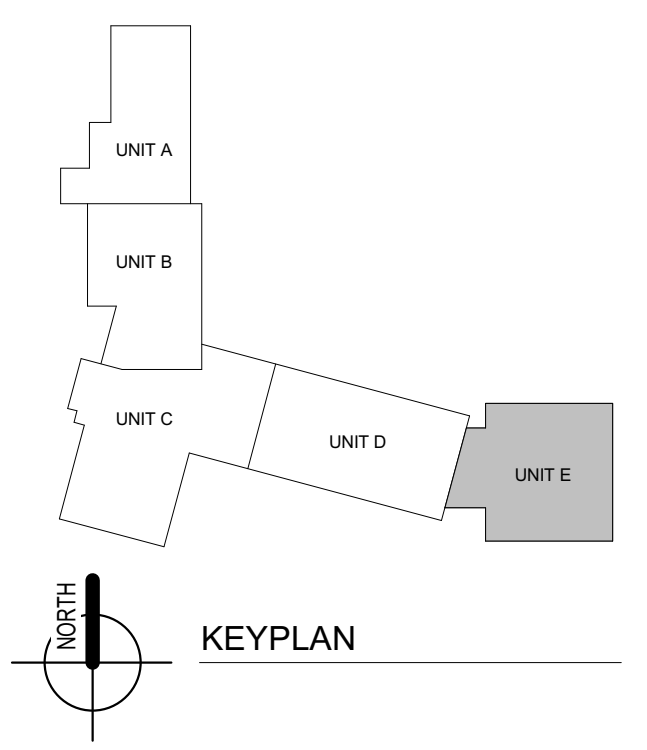
NORTH
UNIT 'C' FINISH PLAN
1/8" = 1'-0"



FINISH SYMBOLS :		GENERAL FINISH NOTES :	FINISH LEGEND :
ROOM NAME	OPT1 VCT1	FLOORING TRANSITION	ACT1
WALL FINISH			MFR: 195G
FLOOR FINISH			STYLE: RADAR CLIM PLUS 2210
BASE FINISH			COLOR: WHITE
			SIZE: 36" X 36" X 3/8"
			GRID: DONN DDXDWL
			AWP1
			ACOUSTICAL WALL PANEL
			MFR: ARMSTRONG
			STYLE: TECTUM WALL PANEL
			COLOR: FIELD PAINTED SEE ELEVATIONS
			SIZE: 36" X 36" X 2 1/2"
			CG1
			CORNER GUARD
			STAINLESS STEEL CORNER GUARD
			CT1
			CARPET TILE
			MFR: INTERFACE
			STYLE: AEST12
			COLOR: 100419 IRON ACCENT
			SIZE: 36" X 36" X 5/8"
			INSTALLATION: QUARTER TURN
			CT2
			CARPET TILE
			MFR: INTERFACE
			STYLE: ON LINE
			COLOR: 102796 OCEAN
			SIZE: 36" X 36" X 1/8"
			INSTALLATION: QUARTER TURN
			CT3
			CARPET TILE
			MFR: INTERFACE
			STYLE: STEP REPEAT SR899
			COLOR: 100481 ONYX
			SIZE: 36" X 36" X 5/8"
			INSTALLATION: MONOLITHIC
			CTW1
			CERAMIC TILE WALL
			MFR: DALTILE
			STYLE: COLOR WHEEL LINEAR
			COLOR: NAVY
			SIZE: 4 X 12 INCHES
			INSTALLATION: 10 BRICK OFFSET, FULL HEIGHT WALL
			P1
			PAINT (GENERAL)
			MFR: BENJAMIN MOORE
			COLOR: MATCH EXISTING GENERAL WALL WHITE
			P2
			PAINT (ACCENT)
			MFR: BENJAMIN MOORE
			COLOR: HC-10 STUART GOLD
			P3
			PAINT (ACCENT)
			MFR: BENJAMIN MOORE
			COLOR: HC-105 NEWBURY PORT BLUE
			P4
			PAINT (TRIM)
			MFR: SHERWIN WILLIAMS
			COLOR: SW7019 GAUNTLET GRAY
			PC1
			POLISHED CONCRETE
			COLOR: NATURAL
			LEVEL: 3 POLISH, CLASS 3 AGGREGATE EXPOSURE
			PL1
			PLASTIC LAMINATE
			MFR: WILSONART
			COLOR: 107540 KENSINGTON MAPLE
			PL2
			PLASTIC LAMINATE
			MFR: WILSONART
			COLOR: 4942-38 CRISP LINEN
			RAF1
			RESILIENT ATHLETIC FLOORING
			MFR: SERRAOR
			STYLE: TARAPLEX SPORT M PLUS
			COLOR: MAPLE DESIGN
			RB1
			RUBBER BASE
			MFR: JOHNSONITE
			STYLE: 474 127 ROLLS
			COLOR: MATCH EX. BUILDING COLOR
			SC1
			SEALED CONCRETE
			MECHANICAL ROOM FLOOR COATING
			SS1
			STAINLESS STEEL



UNIT 'E' FINISH PLAN
1/8" = 1'-0"



ISSUANCES
10.04.2022 BIDS AND CONSTRUCTION

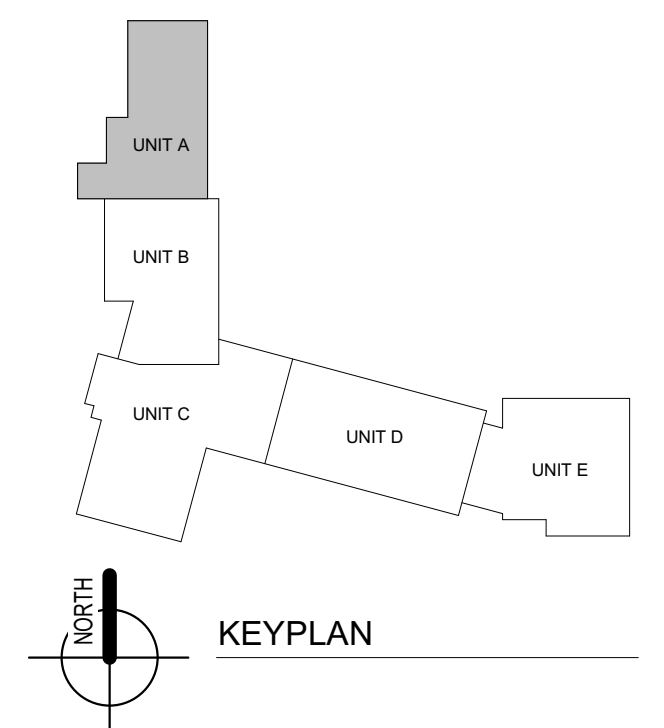
DRAWN MRJ
REVIEWED TGD
PROJECT NO. 5-5769
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ELECTRICAL DEMOLITION GENERAL NOTES

- REMOVE ALL ITEMS SHOWN ON DEMO PLAN, UNLESS OTHERWISE NOTED. REMOVE ALL UNUSED CONDUIT, RACEWAYS, WIRE, CABLE, CONTROLS, JUNCTION BOXES, DISCONNECTS, MOUNTS, AND RELATED ELECTRICAL ACCESSORIES COMPLETELY BACK TO SOURCE. REFER TO DEMOLITION SPECIFICATION.
- MAKE PROVISIONS TO BACKFEED OR RE-CIRCUIT ANY ITEMS THAT ARE EXISTING TO REMAIN WHICH ARE AFFECTED BY THE DEMOLITIONS.
- THE OWNER RESERVES THE RIGHT TO SALVAGE, WHOLE OR IN PART, ANY EQUIPMENT, SYSTEMS, AND/OR MATERIALS THAT ARE SCHEDULED FOR DEMOLITION PRIOR TO REMOVAL FROM THE BUILDING(SITE). THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTION AND GATHERING OF SUCH ITEMS TO A CENTRAL LOCATION AGREED UPON BY THE OWNER AND CONTRACTOR. ALL REMAINING EQUIPMENT AND/OR MATERIALS REMOVED AND NOT REUSED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BUILDING(SITE).
- ALL EQUIPMENT AND/OR MATERIALS SLATED FOR REUSE SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE AND REINSTALLED AS WORK PROGRESSES.
- ALL DEMOLITION SHOWN IS GATHERED FROM FIELD OBSERVATION AND/OR RECORD DRAWINGS. INVESTIGATION OF EXISTING SYSTEMS WILL BE REQUIRED BY THE CONTRACTOR AS PART OF THE BID PRICE, SO THAT THE EXACT EXTENT OF DEMOLITION CAN BE ACCURATELY DETERMINED. THE CONTRACTOR'S BID PRICE SHALL ALSO INCLUDE REMOVAL OF SOME PORTIONS OF SYSTEMS NOT EXPLICITLY SHOWN ON THIS DRAWING, BUT DISCOVERED DURING THE INVESTIGATION PROCESS. WHERE THE EXTENT OF DEMOLITION IS UNCLEAR, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER AND OWNER TO DETERMINE WHICH PORTIONS OF EXISTING SYSTEMS MUST REMAIN ACTIVE AND WHICH PORTIONS MUST BE DEMOLISHED.
- CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION AND SIZES OF EXISTING CONDUIT, WIRING, AND EQUIPMENT.
- IF ASBESTOS OR PCB MATERIAL IS ENCOUNTERED IT WILL BE REMOVED BY THE OWNER.
- LAMPS CONTAINING MERCURY (FLUORESCENT, METAL HALIDE, SODIUM VAPOR, MERCURY VAPOR, ETC.) SHALL BE DISPOSED OF IN A PROPER HAZARDOUS WASTE RECYCLING FACILITY.
- PATCH AND REPAIR ALL FLOOR, WALL AND CEILING OPENINGS DUE TO DEMOLITION WHICH ARE NOT TO BE RE-USED TO MATCH EXISTING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL WALLS, CEILINGS, FLOORS, LIGHTS, AND OTHER FINISHED SURFACES THAT ARE NOT TO BE REMOVED. IF DAMAGED, CONTRACTOR SHALL REPAIR TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- BACKFILLING SHALL PROMPTLY FOLLOW UNDERGROUND DEMOLITION OR REMOVAL WORK AND SHALL CONTINUE AS THE DEMOLITION PROGRESSES.
- EXISTING CONDUIT SYSTEMS MAY BE REUSED FOR THE INSTALLATION OF NEW CONDUCTORS IF THEY ARE DEEMED TO BE IN GOOD CONDITION AND OF ADEQUATE SIZE FOR CODE-COMPLIANT INSTALLATION OF THE NEW CONDUCTORS. RERISE / REROUTE CONDUIT AS NECESSARY TO PROVIDE FEEDS PER POWER AND/OR LIGHTING PLANS.
- PROVIDE BLANK COVER OVER ANY ABANDONED AND REMAINING ROUGH-INS OR JUNCTION BOXES TO MATCH EXISTING.
- DEMOLISH EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED DEVICES, WHETHER INDICATED ON PLAN OR NOT, INCLUDING WIRING AND ACCESSIBLE ABANDONED CONDUIT. DEVICES THAT ARE AN INTEGRAL PART OF OTHER RELATED SYSTEMS, SUCH AS WATERFLOW SWITCHES, TAMPER SWITCHES, MONITORING EQUIPMENT, ETC., SHALL REMAIN FOR INTERCONNECTION WITH NEW FIRE ALARM SYSTEM. REFER TO SECTION 26.05 FOR FURTHER INFORMATION.



UNIT 'A' ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



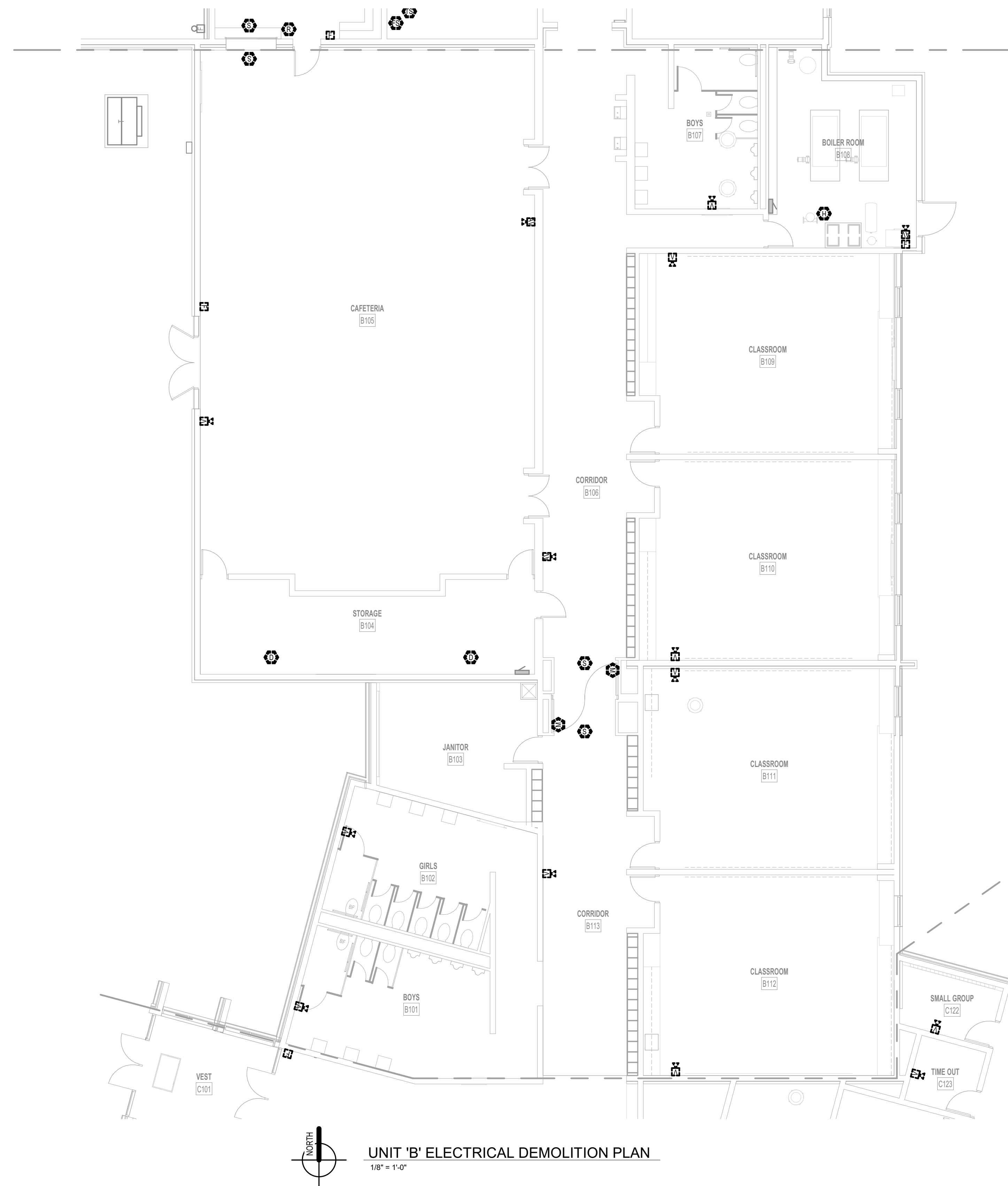
KEYPLAN

DRAWN	KSS
REVIEWED	LCT
PROJECT NO.	5-5769

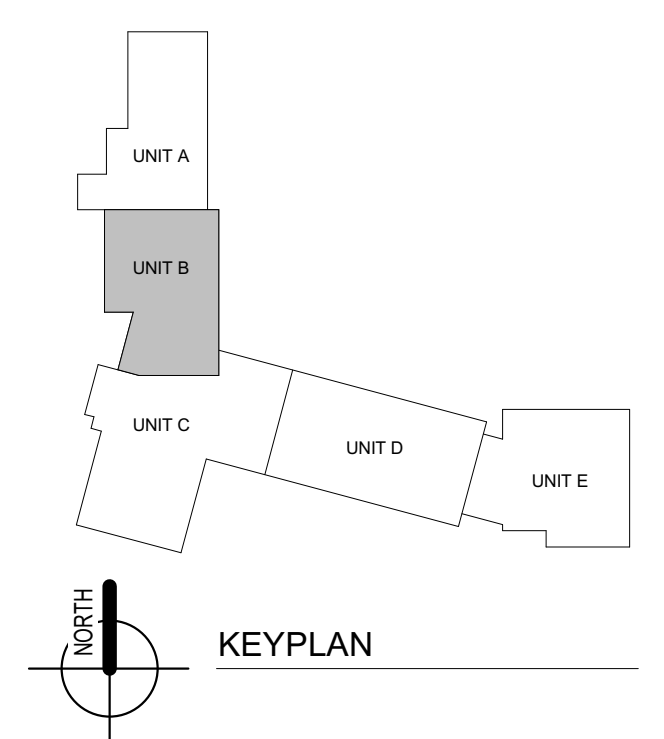
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ELECTRICAL DEMOLITION GENERAL NOTES

1. REMOVE ALL ITEMS SHOWN ON DEMO PLAN, UNLESS OTHERWISE NOTED. REMOVE ALL UNUSED CONDUIT, RACEWAYS, WIRE, CABLE, CONTROLS, JUNCTION BOXES, DISCONNECTS, MOUNTS, AND RELATED ELECTRICAL ACCESSORIES COMPLETELY BACK TO SOURCE. REFER TO DEMOLITION SPECIFICATION.
2. MAKE PROVISIONS TO BACKFEED OR RE-CIRCUIT ANY ITEMS THAT ARE EXISTING TO REMAIN WHICH ARE AFFECTED BY THE DEMOLITIONS.
3. THE OWNER RESERVES THE RIGHT TO SALVAGE WHOLE OR IN PART ANY EQUIPMENT, SYSTEMS, AND/OR MATERIALS THAT ARE SCHEDULED FOR DEMOLITION PRIOR TO REMOVAL FROM THE BUILDING/SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTION AND GATHERING OF SUCH ITEMS TO A CENTRAL LOCATION AGREED UPON BY THE OWNER AND CONTRACTOR. ALL REMAINING EQUIPMENT AND/OR MATERIALS REMOVED AND NOT REUSED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BUILDING/SITE.
4. ALL EQUIPMENT AND/OR MATERIALS SLATED FOR REUSE SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE AND REINSTALLED AS WORK PROGRESSES.
5. ALL DEMOLITION SHOWN IS GATHERED FROM FIELD OBSERVATION AND/OR RECORD DRAWINGS. INVESTIGATION OF EXISTING SYSTEMS WILL BE REQUIRED BY THE CONTRACTOR AS PART OF THE BID PRICE, SO THAT THE EXACT EXTENT OF DEMOLITION CAN BE ACCURATELY DETERMINED. THE CONTRACTOR'S BID PRICE SHALL ALSO INCLUDE REMOVAL OF SOME PORTIONS OF SYSTEMS NOT EXPLICITLY SHOWN ON THIS DRAWING, BUT DISCOVERED DURING THE INVESTIGATION PROCESS. WHERE THE EXTENT OF DEMOLITION IS UNCLEAR, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER AND OWNER TO DETERMINE WHICH PORTIONS OF EXISTING SYSTEMS MUST REMAIN ACTIVE AND WHICH PORTIONS MUST BE DEMOLISHED.
6. CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION AND SIZES OF EXISTING CONDUIT, WIRING, AND EQUIPMENT.
7. IF ASBESTOS OR PCB MATERIAL IS ENCOUNTERED IT WILL BE REMOVED BY THE OWNER.
8. LAMPS CONTAINING MERCURY (FLUORESCENT, METAL HALIDE, SODIUM VAPOR, MERCURY VAPOR, ETC.) SHALL BE DISPOSED OF IN A PROPER HAZARDOUS WASTE RECYCLING FACILITY.
9. PATCH AND REPAIR ALL FLOOR, WALL AND CEILING OPENINGS DUE TO DEMOLITION WHICH ARE NOT TO BE RE-USED TO MATCH EXISTING CONSTRUCTION.
10. CONTRACTOR SHALL PROTECT ALL WALLS, CEILINGS, FLOORS, LIGHTS, AND OTHER FINISHED SURFACES THAT ARE NOT TO BE REMOVED. IF DAMAGED, CONTRACTOR SHALL REPAIR TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
11. BACKFILLING SHALL PROMPTLY FOLLOW UNDERGROUND DEMOLITION OR REMOVAL WORK AND SHALL CONTINUE AS THE DEMOLITION PROGRESSES.
12. EXISTING CONDUIT SYSTEMS MAY BE REUSED FOR THE INSTALLATION OF NEW CONDUCTORS IF THEY ARE DEEMED TO BE IN GOOD CONDITION AND OF ADEQUATE SIZE FOR CODE-COMPLIANT INSTALLATION OF THE NEW CONDUCTORS. REVISE/ REROUTE CONDUIT AS NECESSARY TO PROVIDE FEEDS PER POWER AND/OR LIGHTING PLANS.
13. PROVIDE BLANK COVER OVER ANY ABANDONED AND REMAINING ROUGH-INS OR JUNCTION BOXES TO MATCH EXISTING.
14. DEMOLISH EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED DEVICES (WHETHER INDICATED ON PLAN OR NOT), INCLUDING WIRING AND ACCESSIBLE ABANDONED CONDUIT. DEVICES THAT ARE AN INTEGRAL PART OF OTHER RELATED SYSTEMS, SUCH AS WATERFLOW SWITCHES, TAMPER SWITCHES, MONITORING EQUIPMENT, ETC., SHALL REMAIN FOR INTERCONNECTION WITH NEW FIRE ALARM SYSTEM. REFER TO SECTION 25.05 FOR FURTHER INFORMATION.



UNIT 'B' ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



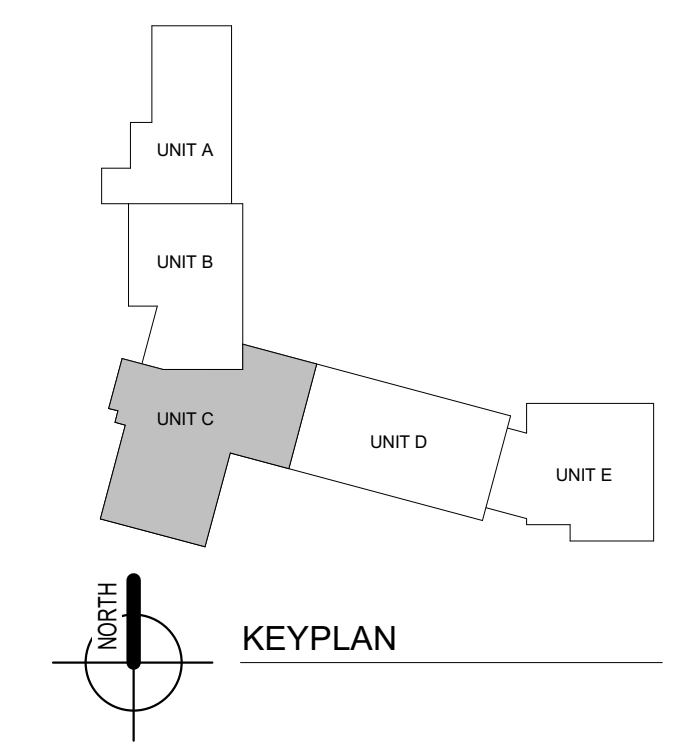
KEYPLAN

ELECTRICAL DEMOLITION GENERAL NOTES

1. REMOVE ALL ITEMS SHOWN ON DEMO PLAN UNLESS OTHERWISE NOTED. REMOVE ALL UNUSED CONDUIT, RACEWAYS, WIRE, CABLE, CONTROLS, JUNCTION BOXES, DISCONNECTS, MOUNTS, AND RELATED ELECTRICAL ACCESSORIES COMPLETELY BACK TO SOURCE. REFER TO DEMOLITION SPECIFICATION.
2. MAKE PROVISIONS TO BACKFEED OR RE-CIRCUIT ANY ITEMS THAT ARE EXISTING TO REMAIN WHICH ARE AFFECTED BY THE DEMOLITIONS.
3. THE OWNER RESERVES THE RIGHT TO SALVAGE WHOLE OR IN PART ANY EQUIPMENT, SYSTEMS, AND/OR MATERIALS THAT ARE SCHEDULED FOR DEMOLITION PRIOR TO REMOVAL FROM THE BUILDING/SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTION AND GATHERING OF SUCH ITEMS TO A CENTRAL LOCATION AGREED UPON BY THE OWNER AND CONTRACTOR. ALL REMAINING EQUIPMENT AND/OR MATERIALS REMOVED AND NOT REUSED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BUILDING/SITE.
4. ALL EQUIPMENT AND/OR MATERIALS SLATED FOR REUSE SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE AND REINSTALLED AS WORK PROGRESSES.
5. ALL DEMOLITION SHOWN IS GATHERED FROM FIELD OBSERVATION AND/OR RECORD DRAWINGS. INVESTIGATION OF EXISTING SYSTEMS WILL BE REQUIRED BY THE CONTRACTOR AS PART OF THE BID PRICE, SO THAT THE EXACT EXTENT OF DEMOLITION CAN BE ACCURATELY DETERMINED. THE CONTRACTOR'S BID PRICE SHALL ALSO INCLUDE REMOVAL OF SOME PORTIONS OF SYSTEMS NOT EXPLICITLY SHOWN ON THIS DRAWING, BUT DISCOVERED DURING THE INVESTIGATION PROCESS. WHERE THE EXTENT OF DEMOLITION IS UNCLEAR, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER AND OWNER TO DETERMINE WHICH PORTIONS OF EXISTING SYSTEMS MUST REMAIN ACTIVE AND WHICH PORTIONS MUST BE DEMOLISHED.
6. CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION AND SIZES OF EXISTING CONDUIT, WIRING, AND EQUIPMENT.
7. IF ASBESTOS OR PCB MATERIAL IS ENCOUNTERED IT WILL BE REMOVED BY THE OWNER.
8. LAMPS CONTAINING MERCURY (FLUORESCENT, METAL HALIDE, SODIUM VAPOR, MERCURY VAPOR, ETC.) SHALL BE DISPOSED OF IN A PROPER HAZARDOUS WASTE RECYCLING FACILITY.
9. PATCH AND REPAIR ALL FLOOR, WALL AND CEILING OPENINGS DUE TO DEMOLITION WHICH ARE NOT TO BE RE-USED TO MATCH EXISTING CONSTRUCTION.
10. CONTRACTOR SHALL PROTECT ALL WALLS, CEILINGS, FLOORS, LIGHTS, AND OTHER FINISHED SURFACES THAT ARE NOT TO BE REMOVED. IF DAMAGED, CONTRACTOR SHALL REPAIR TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
11. BACKFILLING SHALL PROMPTLY FOLLOW UNDERGROUND DEMOLITION OR REMOVAL WORK AND SHALL CONTINUE AS THE DEMOLITION PROGRESSES.
12. EXISTING CONDUIT SYSTEMS MAY BE REUSED FOR THE INSTALLATION OF NEW CONDUCTORS IF THEY ARE DEEMED TO BE IN GOOD CONDITION AND OF ADEQUATE SIZE FOR CODE-COMPLIANT INSTALLATION OF THE NEW CONDUCTORS. REUSE / REROUTE CONDUIT AS NECESSARY TO PROVIDE FEEDS PER POWER AND/OR LIGHTING PLANS.
13. PROVIDE BLANK COVER OVER ANY ABANDONED AND REMAINING ROUGH-INS OR JUNCTION BOXES TO MATCH EXISTING.
14. DEMOLISH EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED DEVICES (WHETHER INDICATED ON PLAN OR NOT), INCLUDING WIRING AND ACCESSIBLE ABANDONED CONDUIT. DEVICES THAT ARE AN INTEGRAL PART OF OTHER RELATED SYSTEMS, SUCH AS WATERFLOW SWITCHES, TAMPER SWITCHES, MONITORING EQUIPMENT, ETC., SHALL REMAIN FOR INTERCONNECTION WITH NEW FIRE ALARM SYSTEM. REFER TO SECTION 16.05 FOR FURTHER INFORMATION.



UNIT 'C' ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



BAUER ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
10.04.2022 BIDS & CONSTRUCTION

DRAWN KSS
REVIEWED LCT

PROJECT NO. 5-5769

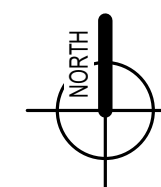
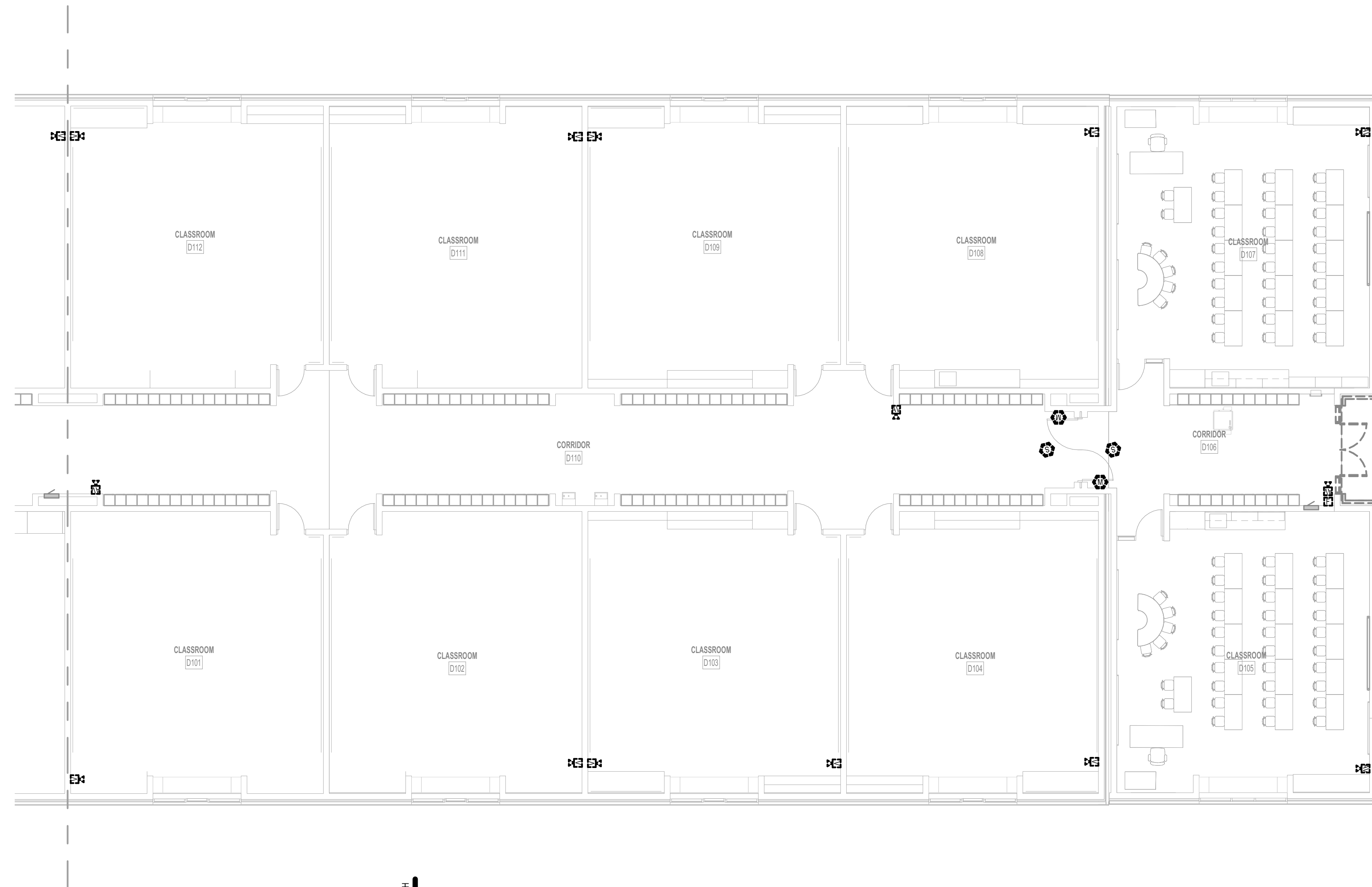
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UNIT 'C' ELECTRICAL DEMOLITION PLAN

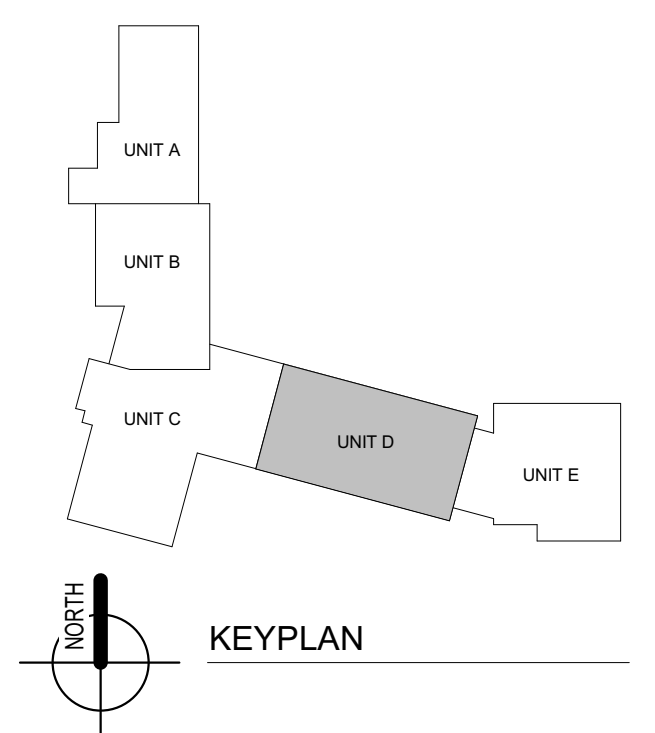
E1.1C

ELECTRICAL DEMOLITION GENERAL NOTES

1. REMOVE ALL ITEMS SHOWN ON DEMO PLAN, UNLESS OTHERWISE NOTED. REMOVE ALL UNUSED CONDUIT, RACEWAYS, WIRE, CABLE, CONTROLS, JUNCTION BOXES, DISCONNECTS, BREAKERS, AND RELATED ELECTRICAL ACCESSORIES COMPLETELY BACK TO SOURCE. REFER TO DEMOLITION SPECIFICATION.
2. MAKE PROVISIONS TO BACKFEED OR RE-CIRCUIT ANY ITEMS THAT ARE EXISTING TO REMAIN WHICH ARE AFFECTED BY THE DEMOLITIONS.
3. THE OWNER RESERVES THE RIGHT TO SALVAGE WHOLE OR IN PART, ANY EQUIPMENT, SYSTEMS, AND/OR MATERIALS THAT ARE SCHEDULED FOR DEMOLITION PRIOR TO REMOVAL FROM THE BUILDINGSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTION AND GATHERING OF SUCH ITEMS TO A CENTRAL LOCATION AGREED UPON BY THE OWNER AND CONTRACTOR. ALL REMAINING EQUIPMENT AND/OR MATERIALS REMOVED AND NOT REUSED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BUILDINGSITE.
4. ALL EQUIPMENT AND/OR MATERIALS SLATED FOR REUSE SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE AND REINSTALLED AS WORK PROGRESSES.
5. ALL DEMOLITION SHOWN IS GATHERED FROM FIELD OBSERVATION AND/OR RECORD DRAWINGS. INVESTIGATION OF EXISTING SYSTEMS WILL BE REQUIRED BY THE CONTRACTOR AS PART OF THE BID PRICE, SO THAT THE EXACT EXTENT OF DEMOLITION CAN BE ACCURATELY DETERMINED. THE CONTRACTOR'S BID PRICE SHALL ALSO INCLUDE REMOVAL OF SOME PORTIONS OF SYSTEMS NOT EXPLICITLY SHOWN ON THIS DRAWING, BUT DISCOVERED DURING THE INVESTIGATION PROCESS. WHERE THE EXTENT OF DEMOLITION IS UNCLEAR, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER AND OWNER TO DETERMINE WHICH PORTIONS OF EXISTING SYSTEMS MUST REMAIN ACTIVE AND WHICH PORTIONS MUST BE DEMOLISHED.
6. CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION AND SIZES OF EXISTING CONDUIT, WIRING, AND EQUIPMENT.
7. IF ASBESTOS OR PCB MATERIAL IS ENCOUNTERED IT WILL BE REMOVED BY THE OWNER.
8. LAMPS CONTAINING MERCURY (FLUORESCENT, METAL HALIDE, SODIUM VAPOR, MERCURY VAPOR, ETC.) SHALL BE DISPOSED OF IN A PROPER HAZARDOUS WASTE RECYCLING FACILITY.
9. PATCH AND REPAIR ALL FLOOR, WALL, AND CEILING OPENINGS DUE TO DEMOLITION WHICH ARE NOT TO BE REUSED TO MATCH EXISTING CONSTRUCTION.
10. CONTRACTOR SHALL PROTECT ALL WALLS, CEILINGS, FLOORS, LIGHTS, AND OTHER FINISHED SURFACES THAT ARE NOT TO BE REMOVED. IF DAMAGED, CONTRACTOR SHALL REPAIR TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
11. BACKFILLING SHALL PROMPTLY FOLLOW UNDERGROUND DEMOLITION OR REMOVAL WORK AND SHALL CONTINUE AS THE DEMOLITION PROGRESSES.
12. EXISTING CONDUIT SYSTEMS MAY BE REUSED FOR THE INSTALLATION OF NEW CONDUCTORS IF THEY ARE DEEMED TO BE IN GOOD CONDITION AND OF ADEQUATE SIZE FOR CODE-COMPLIANT INSTALLATION OF THE NEW CONDUCTORS. REVISE / RELOCATE CONDUIT AS NECESSARY TO PROVIDE FEEDS PER POWER AND/OR LIGHTING PLANS.
13. PROVIDE BLANK COVER OVER ANY ABANDONED AND REMAINING ROUGH-INS OR JUNCTION BOXES TO MATCH EXISTING.
14. DEMOLISH EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED DEVICES (WHETHER INDICATED ON PLAN OR NOT), INCLUDING WIRING AND ACCESSIBLE ABANDONED CONDUIT. DEVICES THAT ARE AN INTEGRAL PART OF OTHER RELATED SYSTEMS, SUCH AS WATERFLOW SWITCHES, TAMPER SWITCHES, MONITORING EQUIPMENT, ETC., SHALL REMAIN FOR INTERCONNECTION WITH NEW FIRE ALARM SYSTEM. REFER TO SECTION 28 05 05 FOR FURTHER INFORMATION.



UNIT 'D' ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



KEYPLAN

ISSUANCES
10.04.2022 BIDS & CONSTRUCTION

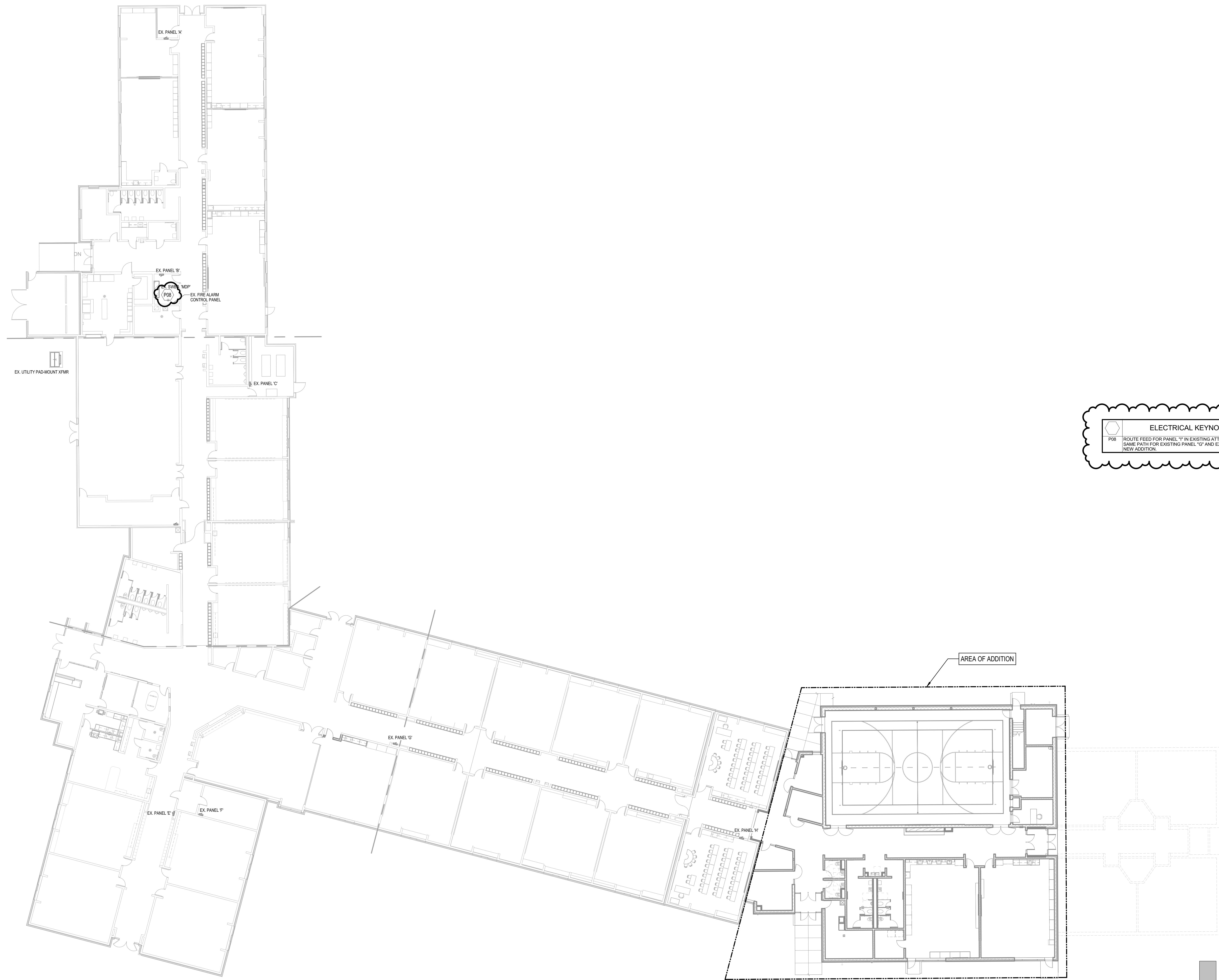
DRAWN KSS
REVIEWED LCT

PROJECT NO. 5-5769

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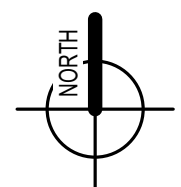
UNIT 'D' ELECTRICAL DEMOLITION PLAN

E1.1D

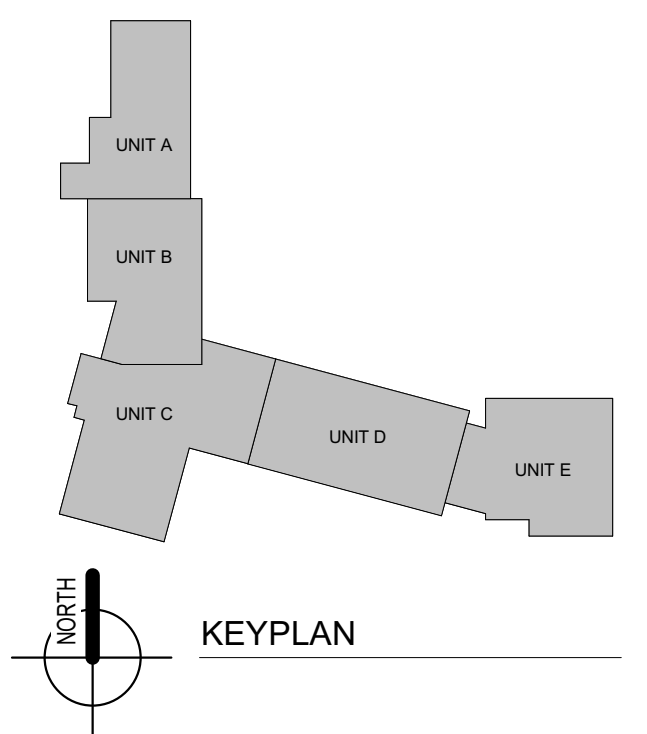


ELECTRICAL KEYNOTES

POB ROUTE FEED FOR PANEL 'T' IN EXISTING ATTIC SPACE ALONG SAME PATH FOR EXISTING PANEL 'C' AND EXTEND THROUGH NEW ADDITION.



OVERALL ELECTRICAL PLAN
1/16" = 1'-0"



ISSUANCES	
10.04.2022	BIDS & CONSTRUCTION
10.27.2022	ADDENDUM 001

DRAWN	KSS
REVIEWED	LCT

PROJECT NO. 5-5769

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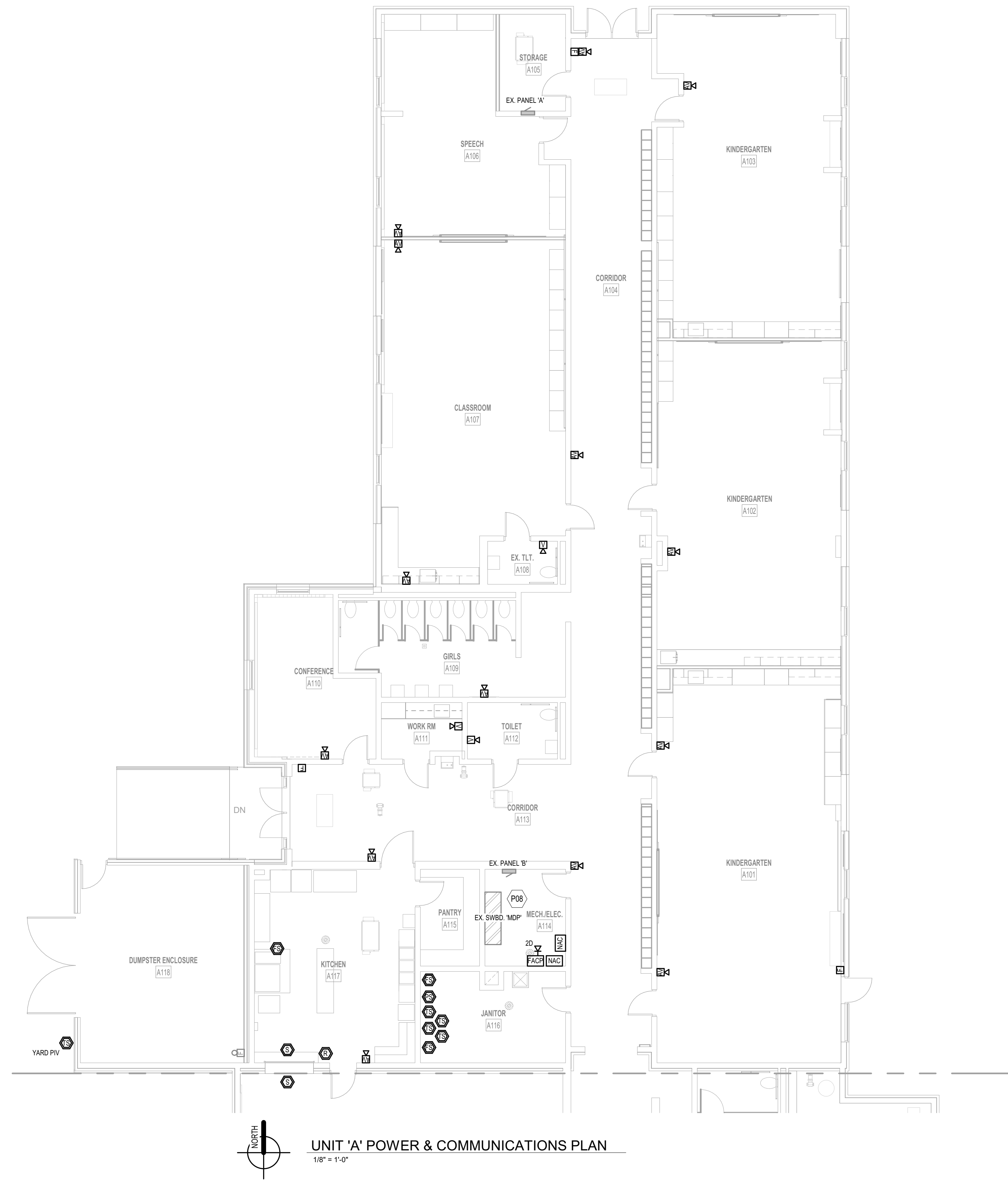
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OVERALL ELECTRICAL PLAN

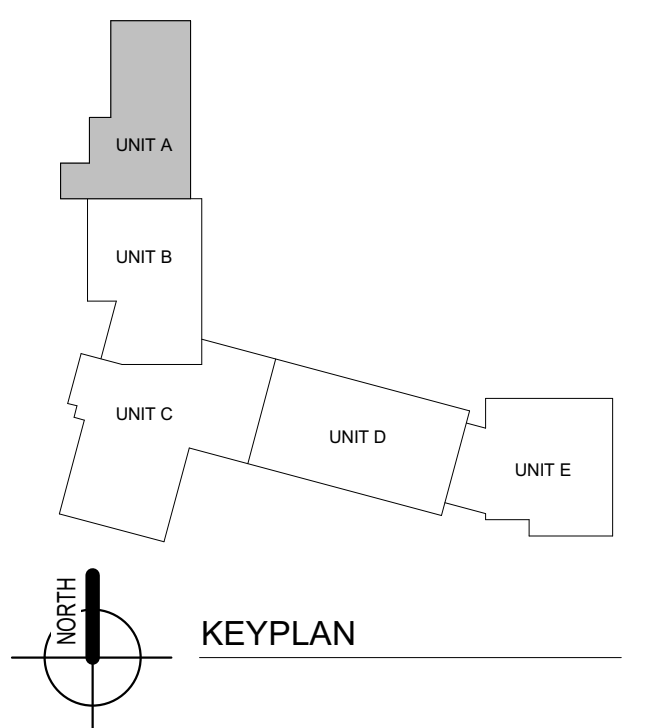
POWER & COMMUNICATION GENERAL NOTES

- REFER TO ELECTRICAL GENERAL NOTES ON SHEET E01.
- REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE CODES.
- ALL 15 AND 20-AMPERE, 125 AND 250-VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE; REFER TO NEC 408.12 AND SPECIFICATION SECTION 28 27 26.
- PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS.
 - REFER TO MECHANICAL/HVAC DRAWINGS FOR LOCATIONS AND QUANTITIES OF DAMPERS.
 - CONNECT TO DEDICATED 20A BRANCH CIRCUIT (WITH BREAKER LOCK-ON ACCESSORY) IN LOCAL PANELBOARD FOR DAMPER(S) IN EACH AREA (DAMPERS MAY BE GROUPED ON EACH CIRCUIT).
 - TERMINATE W/ BOX-COVER FUSIBLE DISCONNECT SWITCH AT EACH DAMPER.
 - PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 5 FEET.
 - PROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS.
- PROVIDE BOX-COVER FUSIBLE DISCONNECT SWITCH (ON BUILDING INTERIOR IN ACCESSIBLE LOCATION FOR EACH SMALL < 1/2 HP MECHANICAL AND/OR PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, PUMPS, UNIT HEATERS, W/ BOXES, ETC.
- DESIGNATED CABLEING PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLEING AND DIV. 28 SAFETY/SECURITY CABLEING ONLY. OTHER CABLEING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 24 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLEING SHALL BE SUPPORTED AND SLEEVED BY OTHER INDEPENDENT PATHWAYS, HANGERS, AND SUPPORTS.
- CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRONIC DOOR HARDWARE (REF. SECTION 08 71 00) TO CENTRAL LOCATION(S). CONNECT ALL POWER SUPPLIES TO DESIGNATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) AS DESIGNATED.

ELECTRICAL KEYNOTES	
	ROUTE FEED FOR PANEL 'F' IN EXISTING ATTIC SPACE ALONG SAME PATH FOR EXISTING PANEL 'G' AND EXTEND THROUGH NEW ADDITION.



UNIT 'A' POWER & COMMUNICATIONS PLAN
1/8" = 1'-0"



KEYPLAN

ISSUANCES
10.04.2022 BIDS & CONSTRUCTION

DRAWN KSS
REVIEWED LCT

PROJECT NO. 5-5769

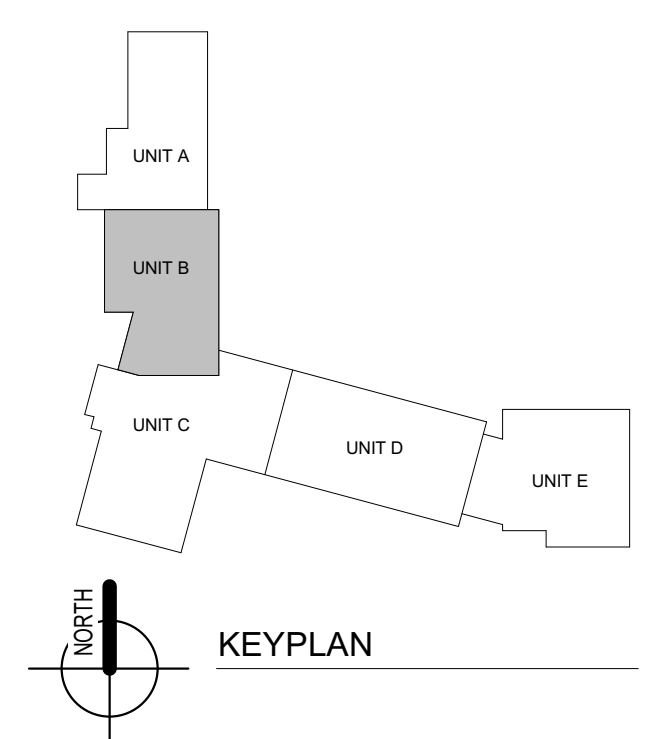
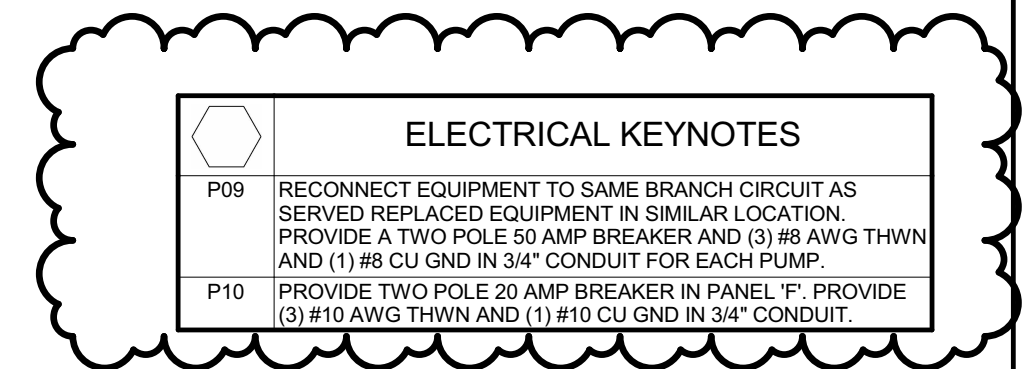
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UNIT 'A' POWER & COMMUNICATIONS PLAN

POWER & COMMUNICATION GENERAL NOTES

- REFER TO ELECTRICAL GENERAL NOTES ON SHEET E9.01.
- REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE CODES.
- ALL 15 AND 20 AMPERE, 125 AND 250 VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE. REFER TO NEC 408.12 AND SPECIFICATION SECTION 26 27 26.
- PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS:
 - REFER TO MECHANICAL/HVAC DRAWINGS FOR LOCATIONS AND QUANTITIES OF DAMPERS.
 - CONNECT TO DEDICATED 30A BRANCH CIRCUIT (WITH BREAKER LOCK-ON ACCESSORY) IN LOCAL PANELBOARD FOR DAMPERS) IN EACH AREA (DAMPERS MAY BE GROUPED ON EACH CIRCUIT).
 - TERMINATE W/ BOX COVER FUSIBLE DISCONNECT SWITCH AT EACH DAMPER.
 - PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 6 FEET).
 - PROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS.
- PROVIDE BOX COVER FUSIBLE DISCONNECT SWITCH (ON BUILDING INTERIOR IN ACCESSIBLE LOCATION) FOR EACH SMALL (< 1/2 HP) MECHANICAL AND/OR PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, PUMPS, UNIT HEATERS, W/ BOXES, ETC.
- DESIGNATED CABLING PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLING AND DIV. 28 SAFETY/SECURITY CABLING ONLY. OTHER CABLING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 26 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLING SHALL BE SUPPORTED AND SLEEVED BY OTHER INDEPENDENT PATHWAYS, HANGERS, AND SUPPORTS.
- CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRONIC DOOR HARDWARE (REF. SECTION 08 71 00) TO CENTRAL LOCATIONS) ADJACENT TO DESIGNATED ACCESS CONTROL EQUIPMENT LOCATIONS). CONNECT ALL POWER SUPPLIES TO DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) AS DESIGNATED.
 - THE FOLLOWING DIV. 27 AND DIV. 28 SYSTEMS WILL BE DOCUMENTED AND BID SEPARATELY BY CONSULTANT IN ASSOCIATION WITH HUDSONVILLE P.S. TECHNOLOGY DEPT.
 - NETWORK ELECTRONICS (SWITCHES, ACCESS POINTS, ETC.)
 - VDP TELEPHONE SYSTEMS
 - CLASSROOM AUDIO-VISUAL EQUIPMENT AND INSTRUCTIONAL TECHNOLOGY
 - AUDIO-VISUAL SYSTEM FOR GYMNASIUM
 - ACCESS CONTROL SYSTEM
 - VIDEO SURVEILLANCE SYSTEM



ISSUANCES

10.04.2022	BIDS & CONSTRUCTION
11.02.2022	ADDENDUM 002
12.05.2022	BULLETIN 001

DRAWN	KSS
REVIEWED	LCT

PROJECT NO. 5-5769

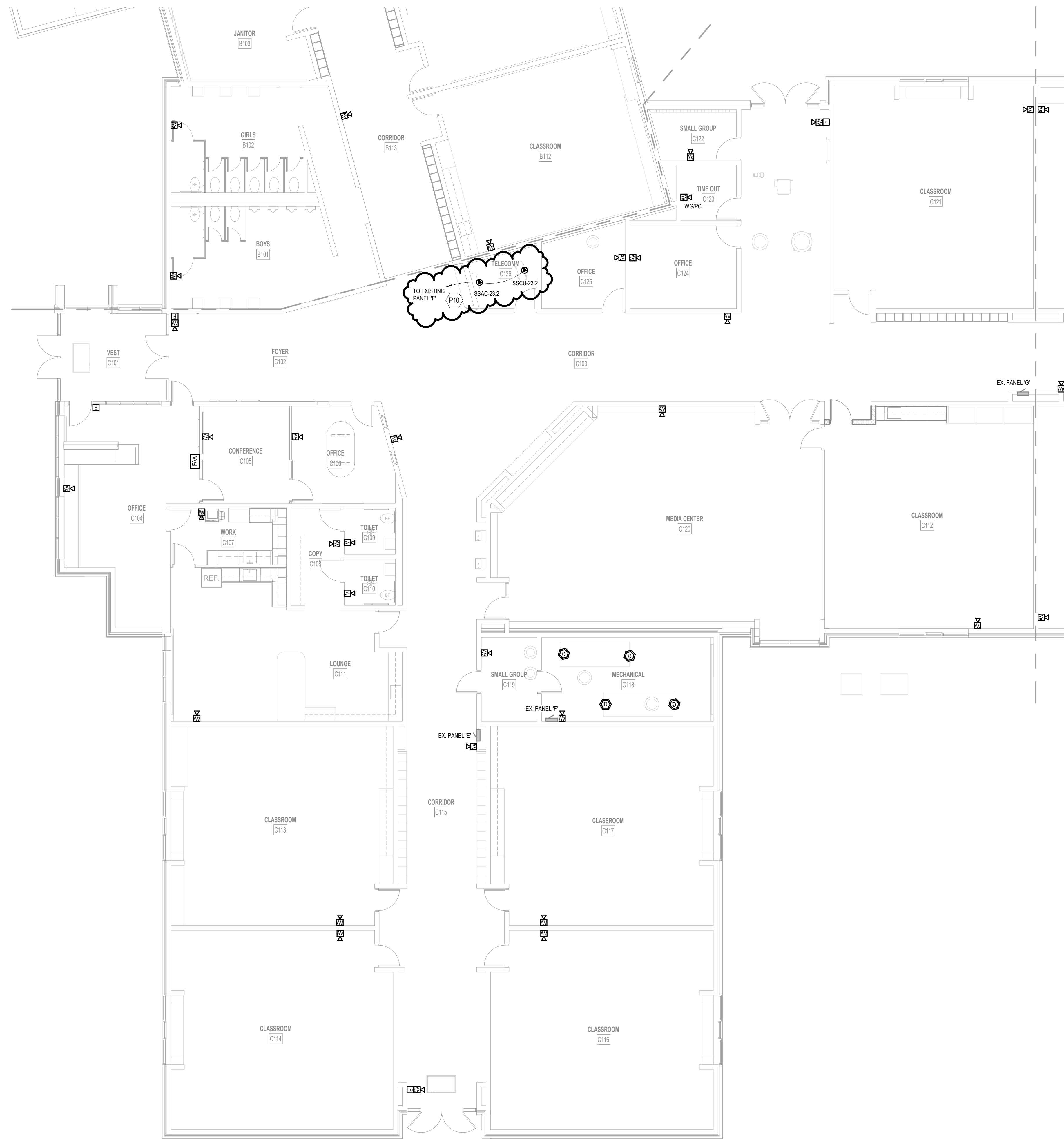
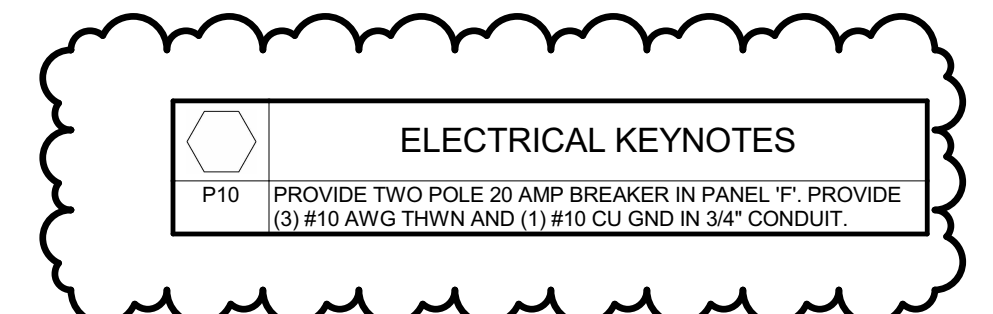
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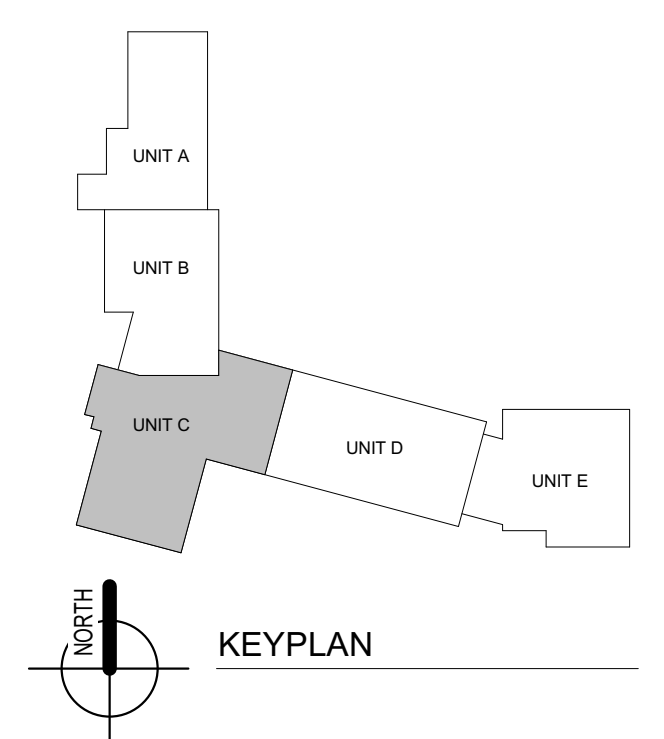
UNIT 'B' POWER & COMMUNICATIONS PLAN

POWER & COMMUNICATION GENERAL NOTES

1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E6.01.
2. REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE CODES.
3. ALL 15 AND 20-AMPERE, 125 AND 250 VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE. REFER TO NEC-40R.12 AND SPECIFICATION SECTION 26 27 28.
4. PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS:
 - A. REFER TO MECHANICAL/HVAC DRAWINGS FOR LOCATIONS AND QUANTITIES OF DAMPERS.
 - B. CONNECT TO DEDICATED 20A BRANCH CIRCUIT (WITH BREAKER LOCK ON ACCESSORY IN LOCAL PANELBOARD FOR DAMPERS) IN EACH AREA (DAMPERS MAY BE GROUPED ON EACH CIRCUIT).
 - C. TERMINATE W/ BOX COVER FUSIBLE DISCONNECT SWITCH AT EACH DAMPER.
 - D. PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 6 FEET).
 - E. PROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS.
5. PROVIDE BOX COVER FUSIBLE DISCONNECT SWITCH (ON BUILDING INTERIOR IN ACCESSIBLE LOCATION) FOR EACH SMALL (< 1/2 HP) MECHANICAL AND/OR PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, PUMPS, UNIT HEATERS, W/ BOXES, ETC.
6. DESIGNATED CABLEING PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLEING AND DIV. 28 SAFETY/SECURITY CABLEING ONLY. OTHER CABLEING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 26 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLEING SHALL BE SUPPORTED AND SLEEVED BY OTHER INDEPENDENT PATHWAYS, HANGERS, AND SUPPORTS.
7. CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRONIC DOOR HARDWARE (REF. SECTION 08 71 00) TO CENTRAL LOCATIONS ADJACENT TO DESIGNATED ACCESS CONTROL EQUIPMENT LOCATIONS. CONNECT ALL POWER SUPPLIES TO DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) AS DESIGNATED.
8. THE FOLLOWING DIV. 27 AND DIV. 28 SYSTEMS WILL BE DOCUMENTED AND BID SEPARATELY BY CONSULTANT IN ASSOCIATION WITH HUDSONVILLE P.S. TECHNOLOGY DEPT:
 - A. NETWORK ELECTRONICS (SWITCHES, ACCESS POINTS, ETC.)
 - B. VOIP TELEPHONE SYSTEMS
 - C. CLASSROOM AUDIO-VISUAL EQUIPMENT AND INSTRUCTIONAL TECHNOLOGY
 - D. AUDIO-VISUAL SYSTEM FOR GYMNASIUM
 - E. ACCESS CONTROL SYSTEM
 - F. VIDEO SURVEILLANCE SYSTEM



1 UNIT 'C' POWER & COMMUNICATIONS PLAN
E2.1C 1/8" = 1'-0"



ISSUANCES	
10.04.2022	BIDS & CONSTRUCTION
12.05.2022	BULLETIN 001

DRAWN	KSS
REVIEWED	LCT

PROJECT NO. 5-5769

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UNIT 'C' POWER & COMMUNICATIONS PLAN

ELECTRICAL ABBREVIATIONS table with columns for symbol, description, and abbreviation.

MAXIMUM CONDUCTOR LENGTHS FOR TYPICAL BRANCH CIRCUITS table with columns for circuit voltage, conductor size, and length.

COMMUNICATIONS SYMBOL LEGEND table with columns for symbol and description.

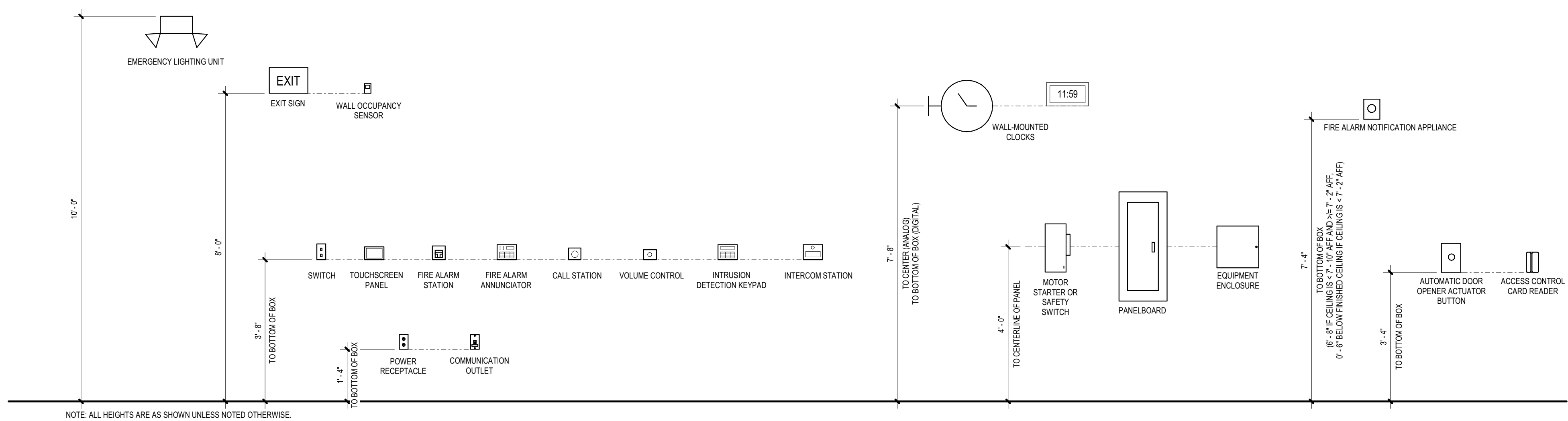
POWER SYMBOL LEGEND table with columns for symbol and description.

LIGHTING SYMBOL LEGEND table with columns for symbol and description.

FIRE ALARM SYMBOL LEGEND table with columns for symbol and description.

ELECTRONIC SAFETY / SECURITY SYMBOL LEGEND table with columns for symbol and description.

ELECTRICAL GENERAL NOTES section containing 26 numbered notes regarding electrical installation standards and requirements.

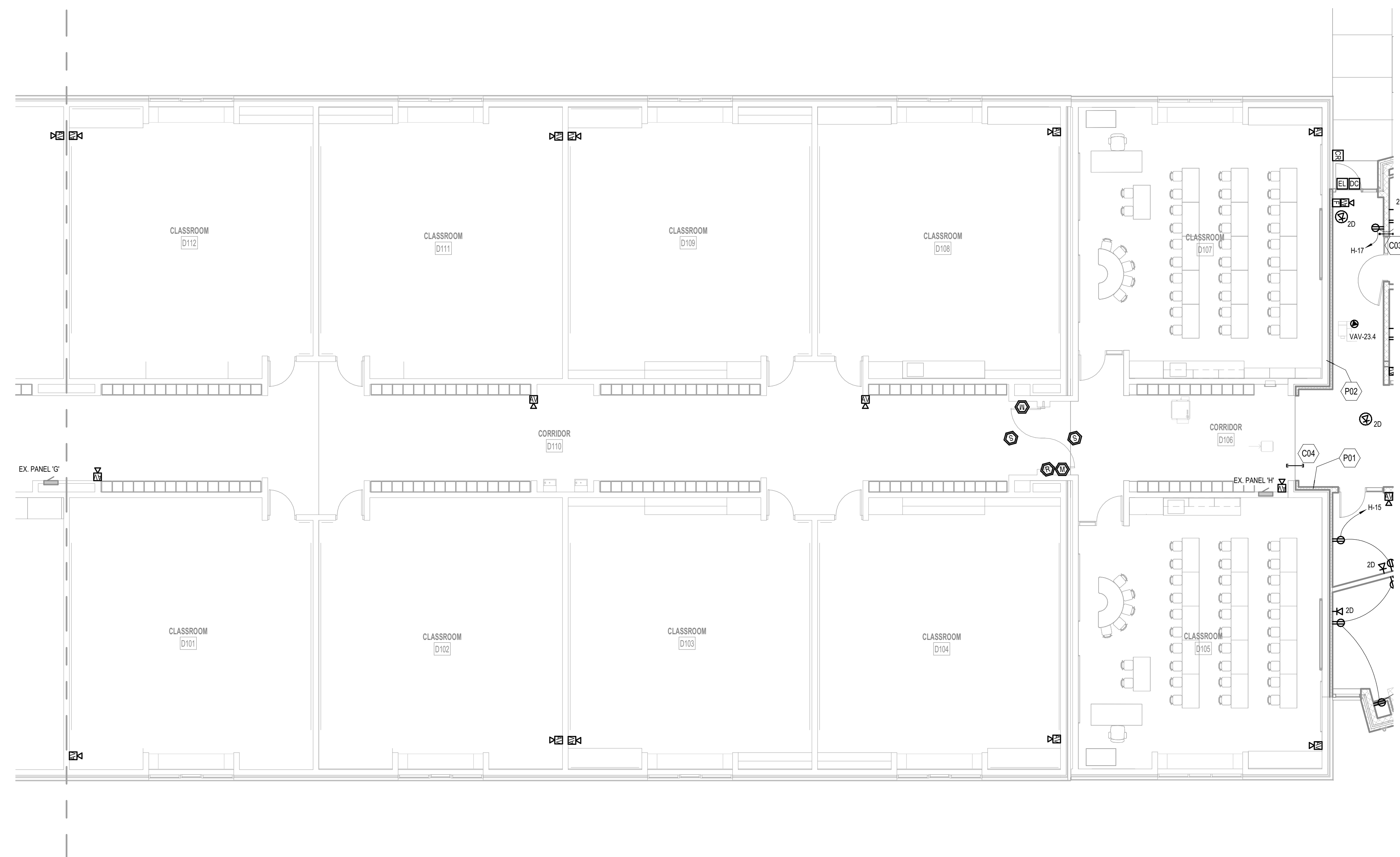


TYPICAL MOUNTING HEIGHTS FOR WALL DEVICES, EQUIPMENT, & FIXTURES
NOT TO SCALE

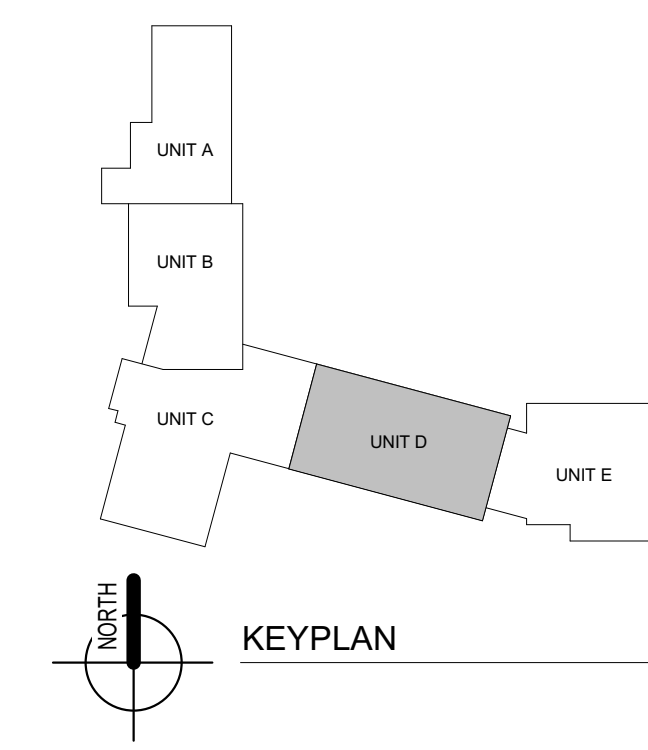
POWER & COMMUNICATION GENERAL NOTES

- REFER TO ELECTRICAL GENERAL NOTES ON SHEET E6.01.
- REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE CODES.
- ALL 15 AND 20-AMPERE, 120- AND 250-VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE. REFER TO NEC-408.12 AND SPECIFICATION SECTION 26 27 26.
- PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS.
 - REFER TO MECHANICAL/HVAC DRAWINGS FOR LOCATIONS AND QUANTITIES OF DAMPERS.
 - CONNECT TO DEDICATED 20A BRANCH CIRCUIT (WITH BREAKER LOCK ON ACCESSORY IN LOCAL PANEL BOARD FOR DAMPERS) IN EACH AREA. DAMPERS MAY BE GROUPED ON EACH CIRCUIT.
 - TERMINATE W/ BOX COVER FUSIBLE DISCONNECT SWITCH AT EACH DAMPER.
 - PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER UNLESS COVERED BY ANOTHER DETECTOR WITHIN 5 FEET.
 - PROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS.
- PROVIDE BOX COVER FUSIBLE DISCONNECT SWITCH ON BUILDING INTERIOR IN ACCESSIBLE LOCATION FOR EACH SMALL (1/2" TO 1") MECHANICAL AND/OR PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, PUMPS, UNIT HEATERS, W/ BOXES, ETC.
- DESIGNATED CABLING PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLING AND DIV. 28 SAFETY/SECURITY CABLING ONLY. OTHER CABLING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 25 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLING SHALL BE SUPPORTED AND SLEAVED BY OTHER INDEPENDENT PATHWAYS, HANGERS, AND SUPPORTS.
- CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRONIC DOOR HARDWARE (REF. SECTION 08 71 00) TO CENTRAL LOCATION(S) ADJACENT TO DESIGNATED ACCESS CONTROL EQUIPMENT LOCATION(S). CONNECT ALL POWER SUPPLIES TO DESIGNATED FANTRY POWER SYSTEM BRANCH CIRCUIT(S) AS DESIGNATED.

ELECTRICAL KEYNOTES	
CD3	(1) 2" CONDUIT SLEEVES FOR DIV. 27 COMMUNICATIONS CABLING
CD4	(1) 4" CONDUIT SLEEVES FOR DIV. 27 COMMUNICATIONS CABLING
PO1	ESTABLISH NEW CONCRETE ENCASED GROUNDING ELECTRODE IN FOOTING OF NEW ADDITION. INTERCONNECT WITH GROUNDING ELECTRODE SYSTEM AT SERVICE ENTRANCE OR NEAREST SEPARATELY DERIVED SYSTEM PER NEC AND SPECIFICATION REQUIREMENTS.
PO2	BOND METAL STRUCTURE OF ADDITION TO METAL STRUCTURE OF EXISTING BUILDING PER NEC REQUIREMENTS.



UNIT 'D' POWER & COMMUNICATIONS PLAN
1/8" = 1'-0"



BAUER ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
10.04.2022 BIDS & CONSTRUCTION

DRAWN KSS
REVIEWED LCT

PROJECT NO. 5-5769

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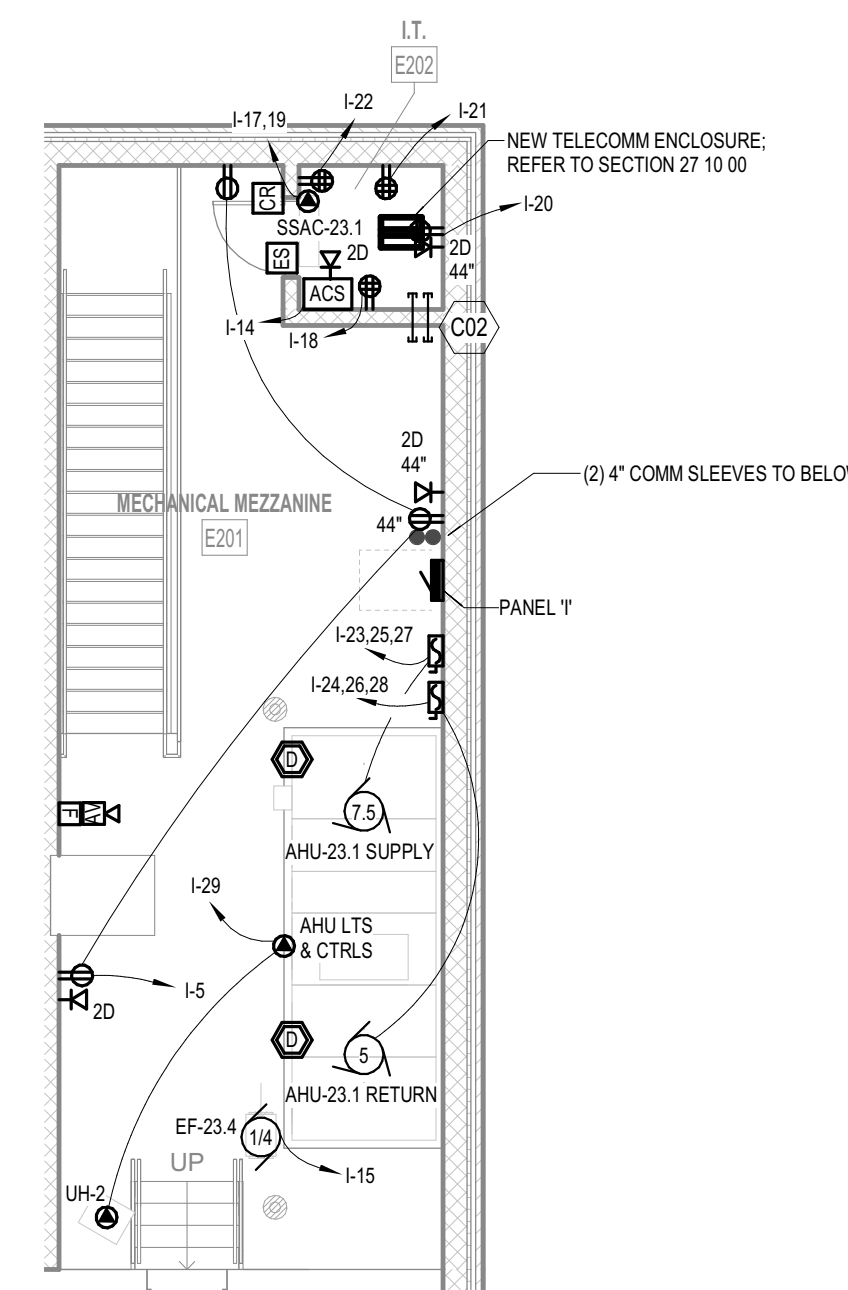
UNIT 'D' POWER & COMMUNICATIONS PLAN

E2.1D

POWER & COMMUNICATION GENERAL NOTES

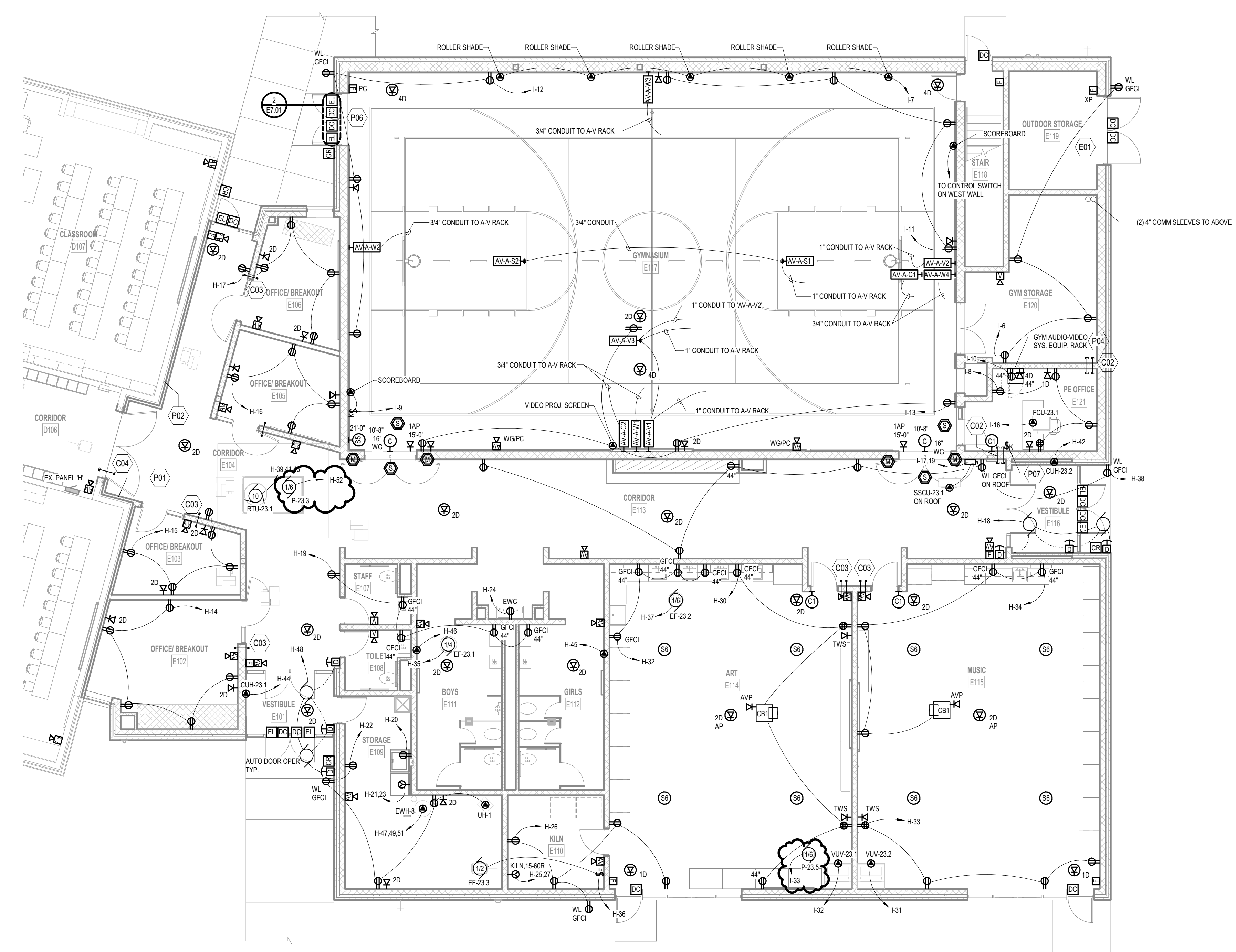
- REFER TO ELECTRICAL GENERAL NOTES ON SHEET E01.
- REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE CODES.
- ALL 15 AND 20 AMPERE, 125 AND 250 VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE. REFER TO NEC 408.12 AND SPECIFICATION SECTION 26 27 26.
- PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS.
 - REFER TO MECHANICAL/HVAC DRAWINGS FOR LOCATIONS AND QUANTITIES OF DAMPERS.
 - CONNECT TO DEDICATED 20A BRANCH CIRCUIT WITH BREAKER LOCKON ACCESSORY IN LOCAL PANELBOARD FOR DAMPERS IN EACH AREA (DAMPERS MAY BE GROUDED ON EACH CIRCUIT).
 - TERMINATE W/ BOX COVER FUSIBLE DISCONNECT SWITCH AT EACH DAMPER.
 - PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 5 FEET.
 - PROVIDE FIRE ALARM ADDRESSABLE RELAYS FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS.
- PROVIDE BOX COVER FUSIBLE DISCONNECT SWITCH ON BUILDING INTERIOR IN ACCESSIBLE LOCATION FOR EACH SMALL (1/2 HP MECHANICAL AND/OR PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, UNIT HEATERS, W/ BOXES, ETC.
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- CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRONIC DOOR HARDWARE (REF. SECTION 08 11 00) TO CENTRAL LOCATIONS ADJACENT TO DESIGNATED ACCESS CONTROL EQUIPMENT LOCATIONS. CONNECT ALL POWER SUPPLIES TO DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) AS DESIGNATED.
- THE FOLLOWING DIV. 27 AND DIV. 28 SYSTEMS WILL BE DOCUMENTED AND BID SEPARATELY BY CONSULTANT IN ASSOCIATION WITH HUDSONVILLE P.S. TECHNOLOGY DEPT.
 - NETWORK ELECTRONICS (SWITCHES, ACCESS POINTS, ETC.)
 - VOP TELEPHONE SYSTEMS
 - CLASSROOM AUDIO/VIDEO EQUIPMENT AND INSTRUCTIONAL TECHNOLOGY
 - AUDIO/VIDEO SYSTEM FOR GYMNASIUM
 - ACCESS CONTROL SYSTEM
 - VIDEO SURVEILLANCE SYSTEM

AUDIO-VIDEO SYSTEMS BOX & CONNECTOR PLATE SCHEDULE						
ITEM I.D. / TAG	ROUGH-IN OR ITEM SIZE	MOUNTING	LOCATION (HEIGHT TO BOTTOM OF BOX)	BOX & CONDUIT PROVIDED BY	CONNECTOR PLATE & WIRE CABLE PROVIDED BY	SPECIAL NOTES
AV-A-C1	TWO GANG x 3 1/2" DEEP	FLUSH	44" AFF	SECTION 27 05 28	N.I.C. (SEPARATE BID PACKAGE)	A-V SYSTEM CONTROL TOUCHPANEL
AV-A-C2	SINGLE GANG x 3 1/2" DEEP	FLUSH	15'-6" AFF (VERIFY: SEE DETAIL)	SECTION 27 05 28	N.I.C. (SEPARATE BID PACKAGE)	PROJECTION SCREEN CONTROL
AV-A-S1	4" SQ. x 2 1/8" DEEP	SURFACE	SIDE OF ROOF, JOIST JUST ABOVE BOTTOM CHORD (APPROX. 22'-0" AFF)	SECTION 27 05 28	N.I.C. (SEPARATE BID PACKAGE)	SPEAKER JUNCTION BOX
AV-A-S2	4" SQ. x 2 1/8" DEEP	SURFACE	SIDE OF ROOF, JOIST JUST ABOVE BOTTOM CHORD (APPROX. 22'-0" AFF)	SECTION 27 05 28	N.I.C. (SEPARATE BID PACKAGE)	SPEAKER JUNCTION BOX
AV-A-V1	4 1 1/16" SQ. x 2 1/8" DEEP, SINGLE GANG RING	FLUSH	16" AFF	SECTION 27 05 28	N.I.C. (SEPARATE BID PACKAGE)	VIDEO INPUT(S)
AV-A-V2	4 1 1/16" SQ. x 2 1/8" DEEP, SINGLE GANG RING	FLUSH	16" AFF	SECTION 27 05 28	N.I.C. (SEPARATE BID PACKAGE)	VIDEO INPUT(S)
AV-A-V3	4" SQ. x 2 1/8" DEEP	SURFACE	SIDE OF ROOF, JOIST JUST ABOVE BOTTOM CHORD (APPROX. 22'-0" AFF)	SECTION 27 05 28	N.I.C. (SEPARATE BID PACKAGE)	VIDEO PROJECTOR OUTPUT/CONTROL, VERIFY EXACT LOCATION OF PROJ. W/ INSTALLERS
AV-A-W1	4 1 1/16" SQ. x 2 1/8" DEEP, SINGLE GANG RING	FLUSH	16" AFF	SECTION 27 05 28	N.I.C. (SEPARATE BID PACKAGE)	AUDIO-VIDEO INPUT(S)
AV-A-W2	4 1 1/16" SQ. x 2 1/8" DEEP, SINGLE GANG RING	FLUSH	16" AFF	SECTION 27 05 28	N.I.C. (SEPARATE BID PACKAGE)	AUDIO-VIDEO INPUT(S)
AV-A-W3	4 1 1/16" SQ. x 2 1/8" DEEP, SINGLE GANG RING	FLUSH	16" AFF	SECTION 27 05 28	N.I.C. (SEPARATE BID PACKAGE)	AUDIO-VIDEO INPUT(S)
AV-A-W4	4 1 1/16" SQ. x 2 1/8" DEEP, SINGLE GANG RING	FLUSH	16" AFF	SECTION 27 05 28	N.I.C. (SEPARATE BID PACKAGE)	AUDIO-VIDEO INPUT(S)

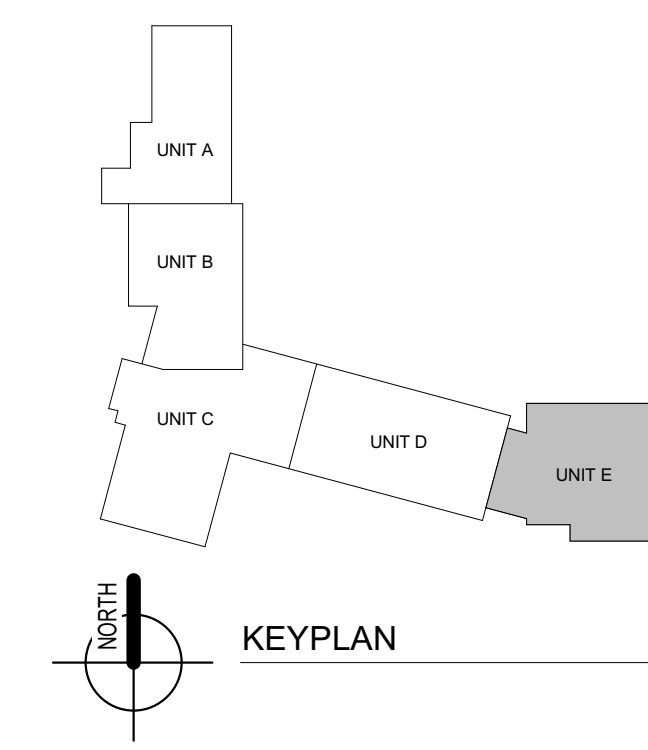


MECH MEZZANINE POWER & COMMUNICATIONS PLAN
1/8" = 1'-0"

ELECTRICAL KEYNOTES	
C02	(2) 4" CONDUIT SLEEVES FOR DIV. 27 COMMUNICATIONS CABLEING
C03	(1) 2" CONDUIT SLEEVES FOR DIV. 27 COMMUNICATIONS CABLEING
C04	(1) 4" CONDUIT SLEEVES FOR DIV. 27 COMMUNICATIONS CABLEING
E01	ALL ELECTRICAL MATERIALS AND INSTALLATION IN THIS ROOM SHALL COMPLY WITH NEC ARTICLE 500 HAZARDOUS LOCATION REQUIREMENTS FOR CLASS 1, DIVISION 1, GROUP C & D
F01	ESTABLISH NEW CONCRETE-ENCASED GROUNDING ELECTRODE IN FOOTING OF NEW ADDITION. INTERCONNECT WITH GROUNDING ELECTRODE SYSTEM AT SERVICE ENTRANCE OR NEAREST SEPARATELY SERVED SYSTEM PER NEC AND SPECIFICATION REQUIREMENTS.
P02	BOND METAL STRUCTURE OF ADDITION TO METAL STRUCTURE OF EXISTING BUILDING PER NEC REQUIREMENTS.
P04	INSTALL 8" x 8" x 6" JUNCTION BOX BEHIND AUDIO EQUIP. RACK FOR A-V CONDUITS TO ENTER RACK WHILE RECESSED IN WALL. SURFACE MOUNTED CONDUITS ARE NOT ACCEPTABLE ABOVE, BELOW, OR ON SIDES RACK. STUB AN ADDITIONAL (2) 1" CONDUITS OUT ABOVE ACCESSIBLE CEILING SPACE FROM BOX.
P06	ROUTE ACCESS CONTROL CONDUITS FROM DOOR FRAME THROUGH WALL OVER TO STAIRWELL AND STUB OUT ABOVE 16'-0" AFF.
P07	ROLLER SHADE CONTROL FOR GYMNASIUM, KEY-OPERATED SWITCH FURNISHED BY SECTION 12 24 13, WIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



UNIT 'E' POWER & COMMUNICATIONS PLAN
1/8" = 1'-0"



BAUER ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
 HUDSONVILLE, MICHIGAN

ISSUANCES

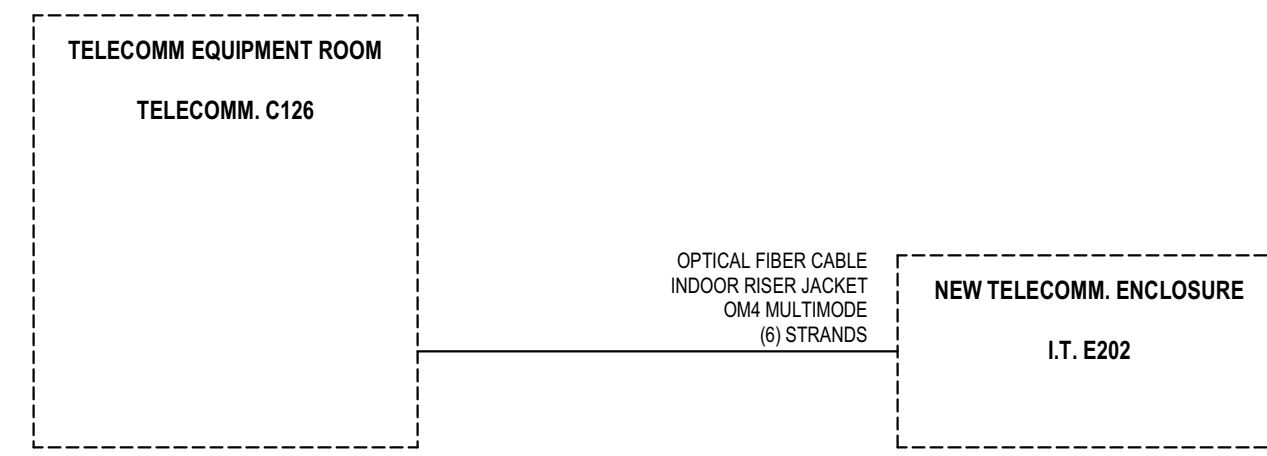
10.04.2022	BIDS & CONST.
10.27.2022	ADDENDUM 001
11.02.2022	ADDENDUM 002
12.05.2022	BULLETIN 001
02.16.2023	BULLETIN 003

DRAWN: KSS
REVIEWED: LCT

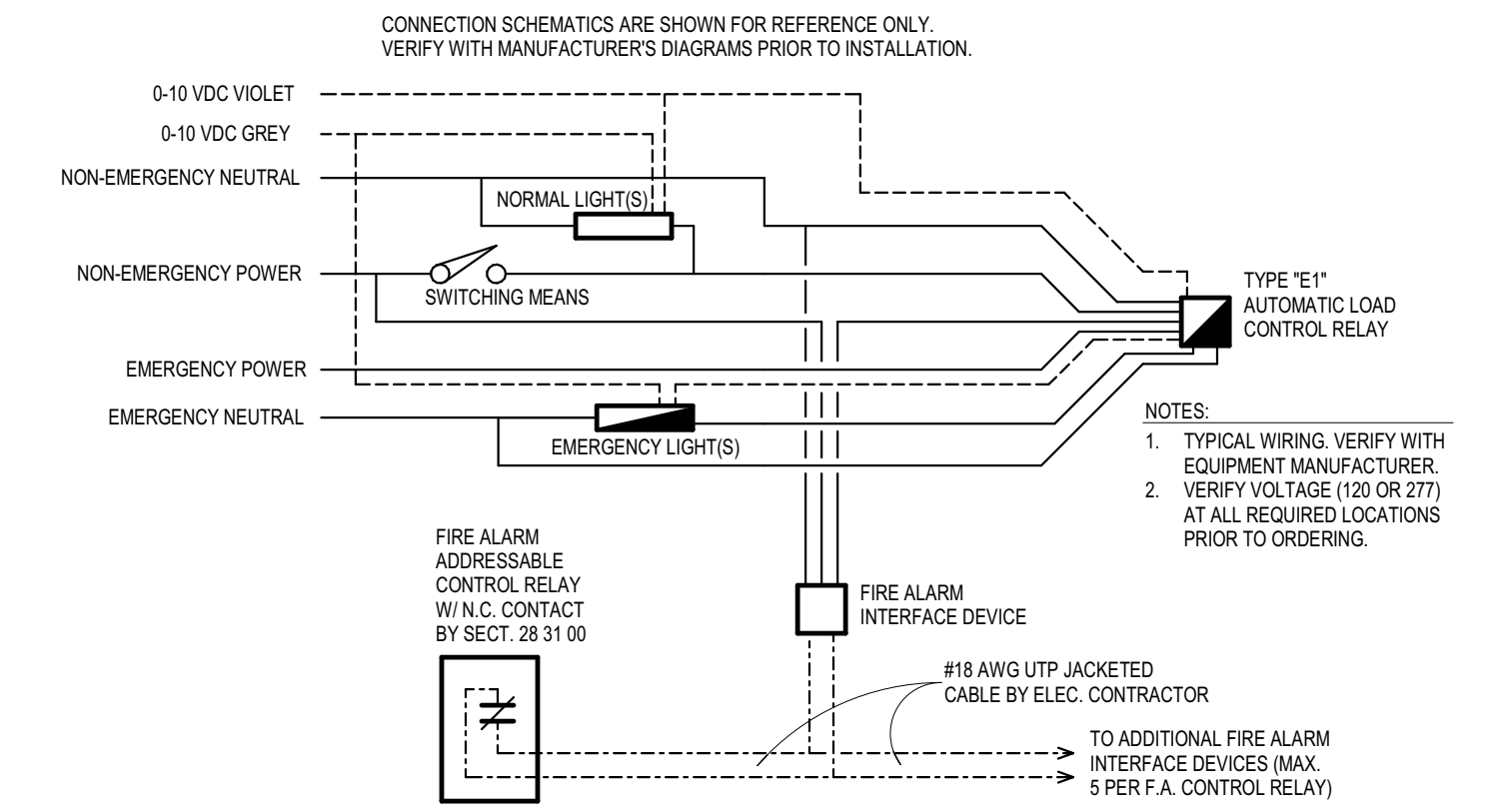
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UNIT 'E' POWER & COMMUNICATIONS PLAN

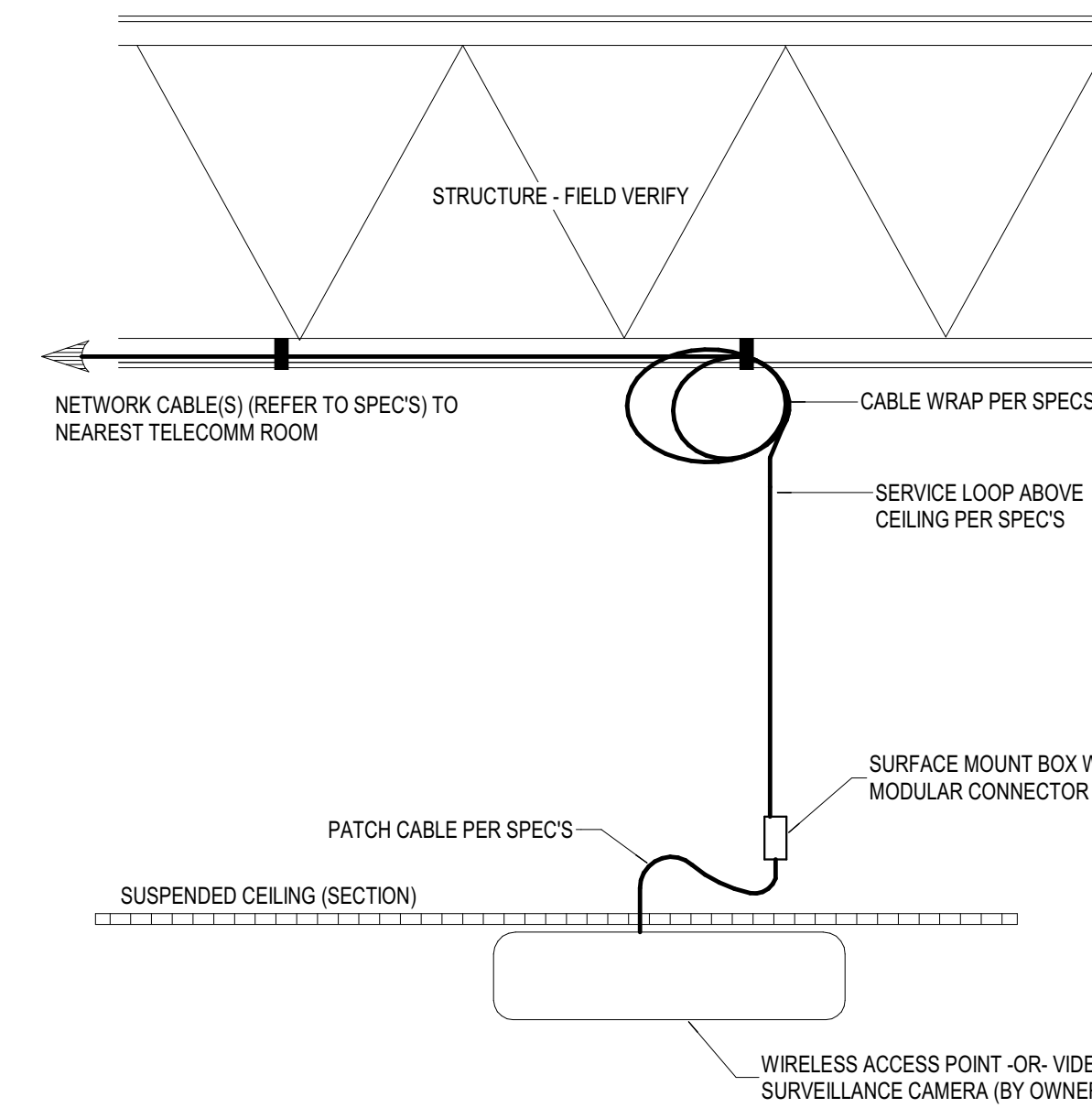
E2.1E



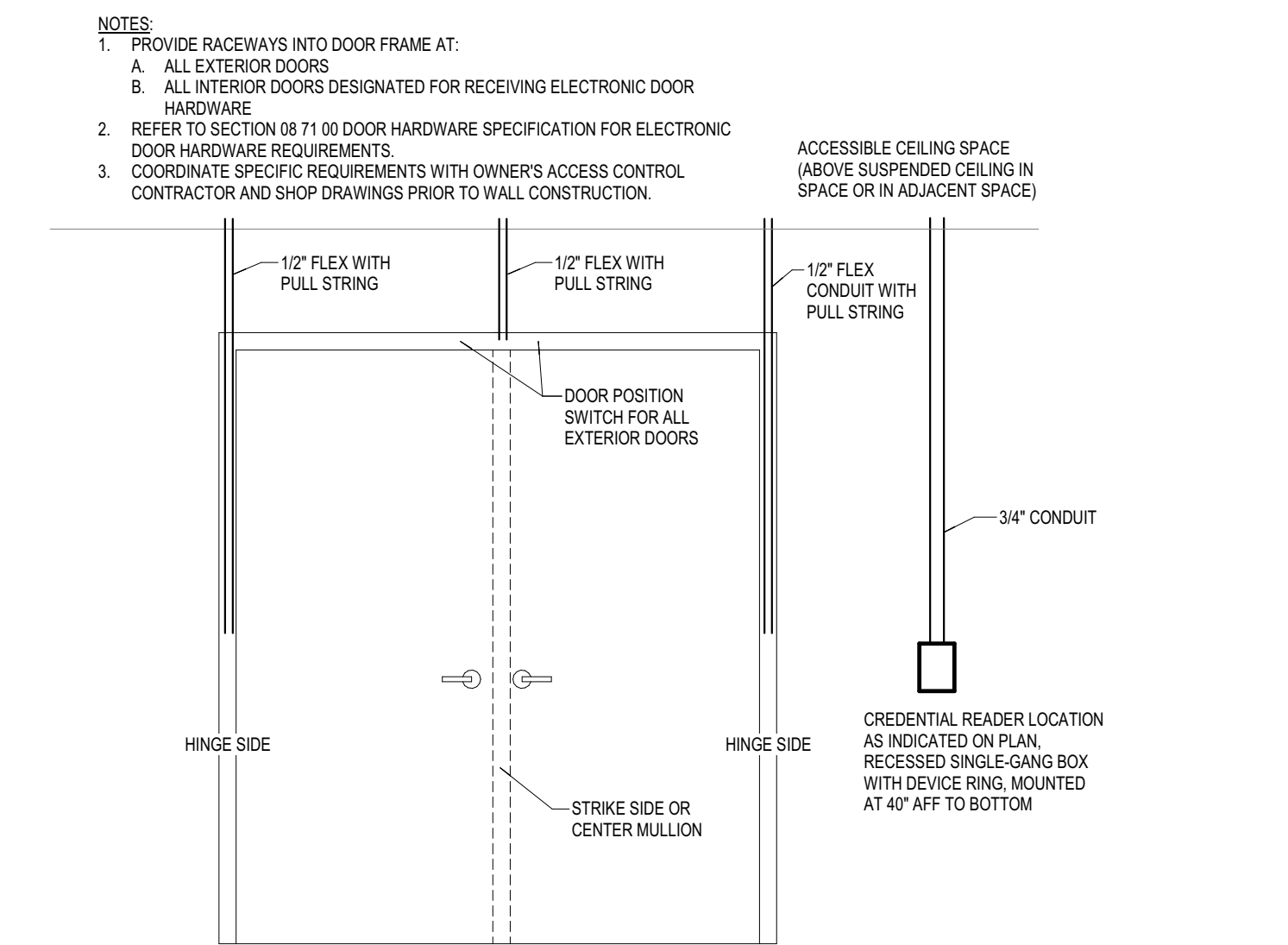
5
E7.01
NOT TO SCALE
COMMUNICATIONS CABLING BACKBONE RISER DIAGRAM



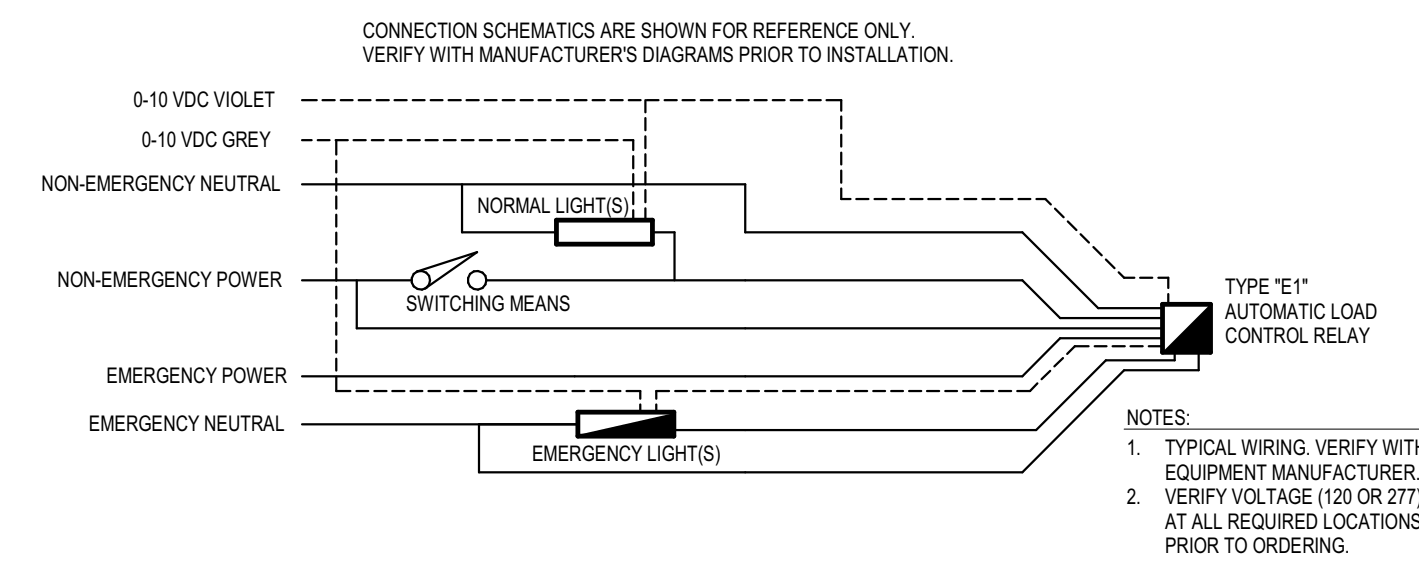
3
E7.01
1" = 1'-0"
EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL RELAY WITH FIRE ALARM INTERFACE



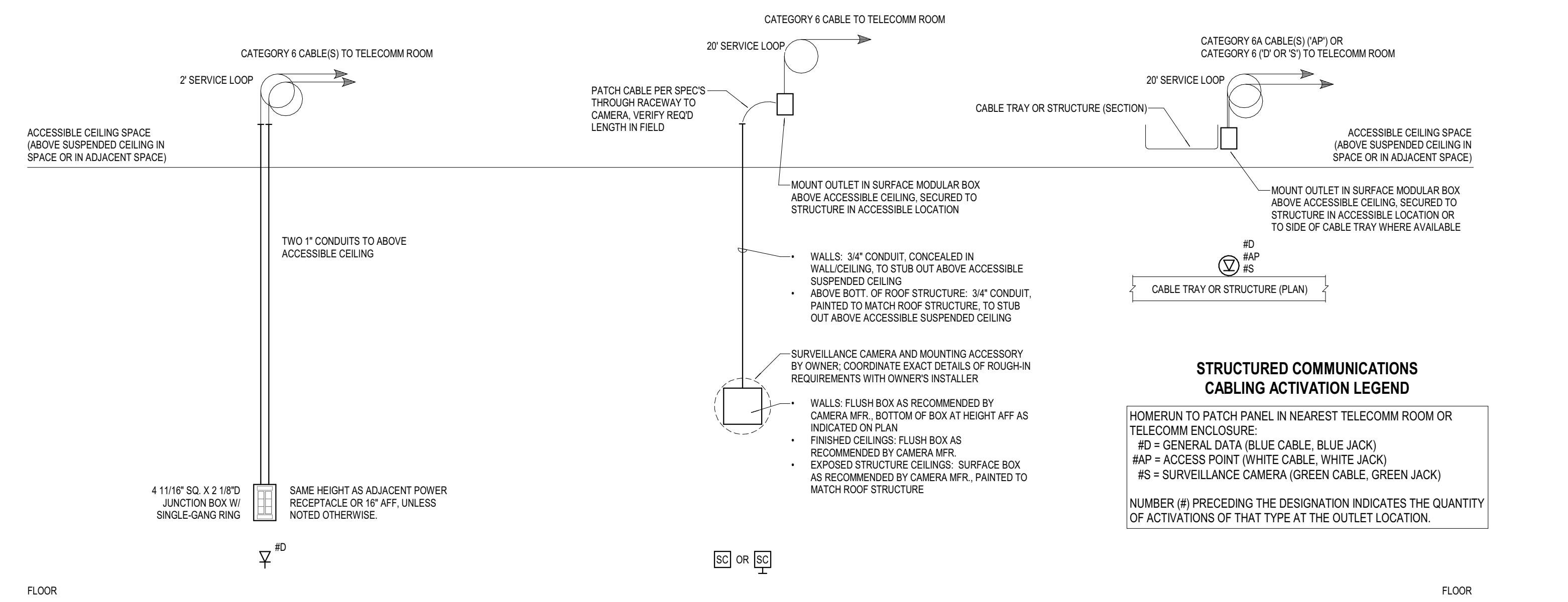
4
E7.01
NOT TO SCALE
CEILING MOUNTED COMMUNICATION DEVICE



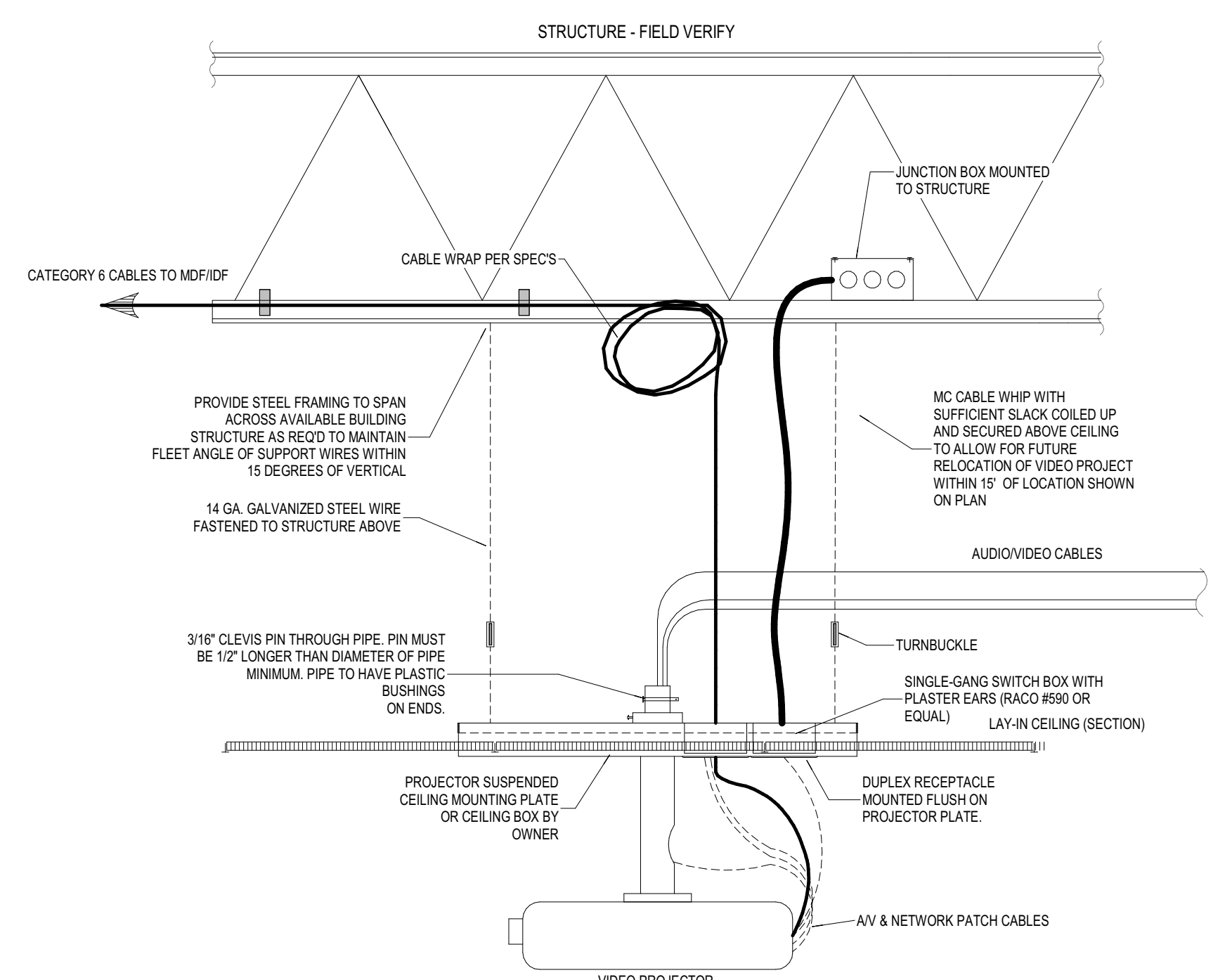
2
E7.01
NOT TO SCALE
TYPICAL ROUGH-IN FOR DOORS WITH ELECTRONIC ACCESS CONTROL/MONITORING



7
E7.01
1" = 1'-0"
EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL RELAY



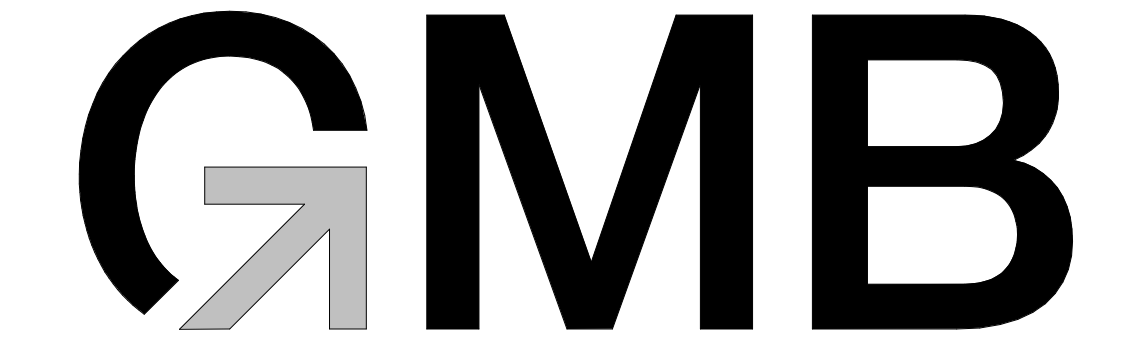
1
E7.01
NOT TO SCALE
TYPICAL COMMUNICATIONS OUTLET DETAILS



6
E7.01
NOT TO SCALE
TYPICAL CLASSROOM VIDEO PROJECTOR MOUNTING DETAIL

PARK ELEMENTARY ADDITIONS AND RENOVATIONS

HUDSONVILLE PUBLIC SCHOOLS



5525 PARK AVENUE
HUDSONVILLE, MICHIGAN

BIDS & CONSTRUCTION
03.23.2023
GMB PROJECT # 5-5798

GENERAL INFORMATION

- G0.01 GENERAL NOTES DIMENSIONS AND LEGENDS
- G1.01 CODE COMPLIANCE FIRST FLOOR PLAN

CIVIL

- C0.00 OVERALL EXISTING SITE SURVEY
- C0.01 OVERALL EXISTING SITE SURVEY
- C0.02 OVERALL EXISTING SITE SURVEY
- C1.01 DEMOLITION PLAN
- C2.01 SITE PLAN
- C3.01 GRADING PLAN
- C4.01 UTILITY PLAN
- C6.01 LANDSCAPE PLAN
- C7.01 S.E.S.C. PLAN
- C8.01 SITE DETAILS
- C8.02 SITE DETAILS

STRUCTURAL

- S0.01 STRUCTURAL GENERAL INFORMATION
- S0.02 STRUCTURAL SCHEDULES
- S0.03 SNOW DRIFT PLAN
- S0.04 MASONRY REINFORCING PLAN
- S1.1A UNIT 'A' DEMOLITION PLAN
- S2.1A UNIT 'A' FOUNDATION PLAN
- S2.1B UNIT 'B' FOUNDATION PLAN
- S3.1A UNIT 'A' ROOF FRAMING PLAN
- S3.1B UNIT 'B' ROOF FRAMING PLAN
- S3.2A UNIT 'A' HIGH ROOF FRAMING PLAN
- S7.01 STRUCTURAL FOUNDATION DETAILS
- S7.02 STRUCTURAL FRAMING DETAILS
- S7.03 STRUCTURAL FRAMING DETAILS

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- A1.1A UNIT 'A' FIRST FLOOR DEMOLITION PLAN
- A1.1B UNIT 'B' FIRST FLOOR DEMOLITION PLAN
- A1.1C UNIT 'C' FIRST FLOOR DEMOLITION PLAN
- A1.1D UNIT 'D' FIRST FLOOR DEMOLITION PLAN
- A2.1A UNIT 'A' FIRST FLOOR AND GYM MEZZANINE PLANS
- A2.1B UNIT 'B' FIRST FLOOR PLAN
- A2.1C UNIT 'C' FIRST FLOOR PLAN
- A2.1D UNIT 'D' FIRST FLOOR PLAN
- A2.30 OVERALL ROOF PLAN
- A2.80 ENLARGED PLANS
- A3.1A UNIT 'A' FIRST FLOOR REFLECTED CEILING PLAN
- A3.1B UNIT 'B' FIRST FLOOR REFLECTED CEILING PLAN
- A3.1C UNIT 'C' FIRST FLOOR REFLECTED CEILING PLAN
- A3.1D UNIT 'D' FIRST FLOOR REFLECTED CEILING PLAN
- A4.01 EXTERIOR ELEVATIONS
- A5.01 DOOR & FRAME SCHEDULE
- A6.01 BUILDING SECTIONS
- A6.02 BUILDING SECTIONS
- A6.03 BUILDING SECTIONS
- A6.04 BUILDING SECTIONS
- A6.10 WALL SECTIONS
- A6.11 WALL SECTIONS
- A6.12 WALL SECTIONS
- A6.13 WALL SECTIONS
- A7.01 ARCHITECTURAL WALL DETAILS
- A7.02 WALL DETAILS
- A7.03 ROOF DETAILS
- A7.04 DOOR, WINDOW AND LOUVER DETAILS
- A7.05 DETAILS
- A8.01 INTERIOR ELEVATIONS
- A8.02 INTERIOR ELEVATIONS AND DETAILS
- APPENDIX 001-A9.01 ROOM SIGNAGE
- A9.1A UNIT 'A' FIRST FLOOR FINISH PLAN
- A9.1B UNIT 'B' FIRST FLOOR FINISH PLAN
- A9.1C UNIT 'C' FIRST FLOOR FINISH PLAN
- A9.1D UNIT 'D' FIRST FLOOR FINISH PLAN

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- P0.01 PLUMBING GENERAL INFORMATION
- P1.1A UNIT 'A' PLUMBING DEMOLITION PLAN
- P1.1B UNIT 'B' PLUMBING DEMOLITION PLAN
- P2.0A UNIT 'A' PLUMBING FOUNDATION PLAN
- P2.0B UNIT 'B' PLUMBING FOUNDATION PLAN
- P2.1A UNIT 'A' FIRST FLOOR PLUMBING PLAN
- P2.1B UNIT 'B' FIRST FLOOR PLUMBING PLAN

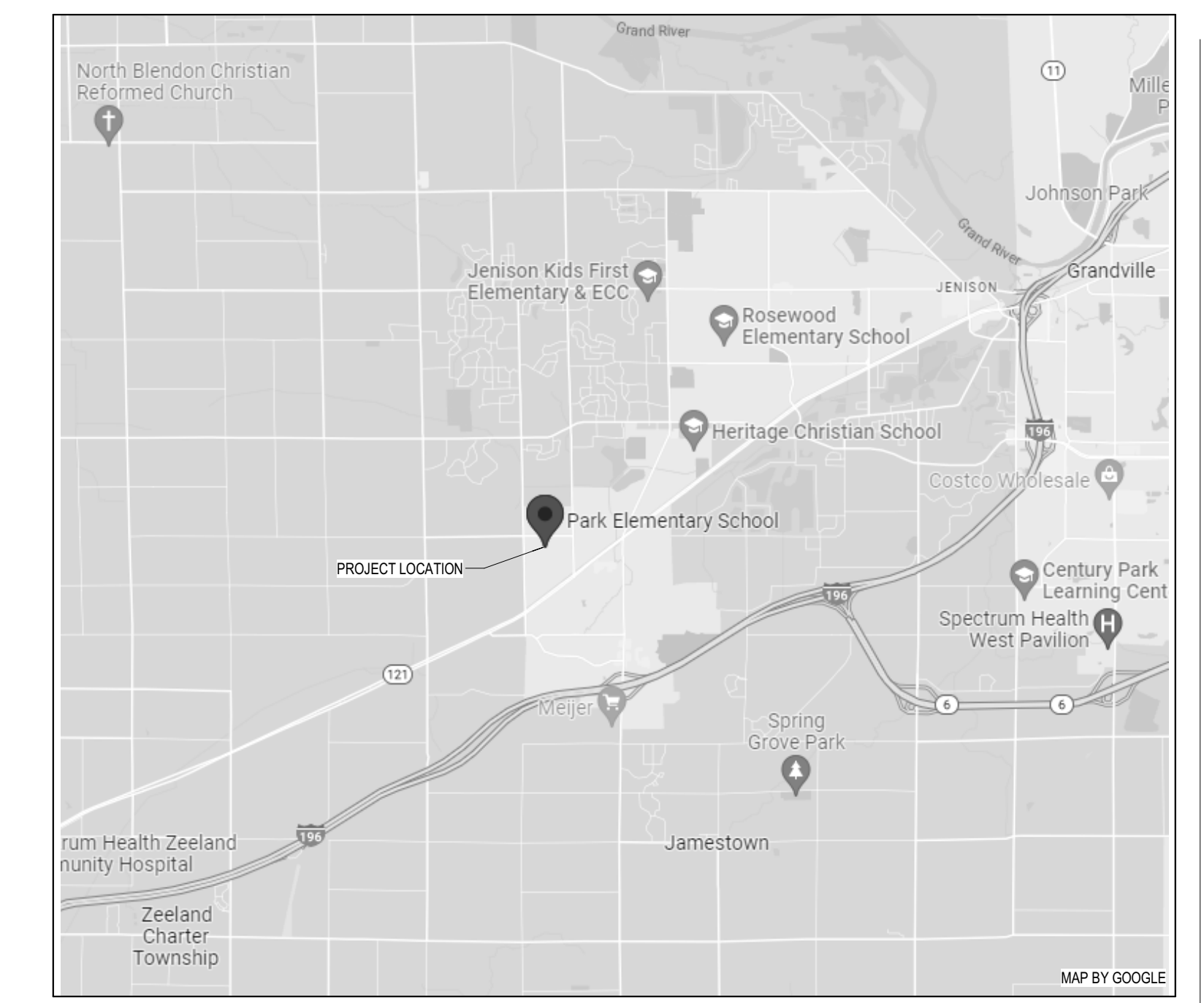
MECHANICAL

- M0.01 MECHANICAL GENERAL INFORMATION
- M1.1A UNIT 'A' FIRST FLOOR MECHANICAL DEMOLITION PLAN
- M1.1B UNIT 'B' FIRST FLOOR MECHANICAL DEMOLITION PLAN
- M1.1C UNIT 'C' FIRST FLOOR MECHANICAL DEMOLITION PLANS
- M1.1D UNIT 'D' FIRST FLOOR MECHANICAL DEMOLITION PLANS
- M2.1A UNIT 'A' FIRST FLOOR AND GYM MEZZANINE HVAC PLANS
- M2.1B UNIT 'B' FIRST FLOOR HVAC PLAN
- M2.1C UNIT 'C' FIRST FLOOR HVAC PLANS
- M2.1D UNIT 'D' FIRST FLOOR HVAC PLANS
- M3.1A UNIT 'A' FIRST FLOOR AND MEZZANINE HYDRONIC PLANS
- M3.1B UNIT 'B' FIRST FLOOR HYDRONIC PLAN
- M3.1C UNIT 'C' FIRST FLOOR HYDRONIC PLANS
- M3.1D UNIT 'D' FIRST FLOOR HYDRONIC PLANS
- M3.80 ENLARGED HYDRONIC PLANS
- M7.01 MECHANICAL DETAILS
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- M8.01 OVERALL CONTROL PLAN
- M8.02 MECHANICAL AND CONTROL DIAGRAMS
- M8.03 MECHANICAL AND CONTROL DIAGRAMS
- M9.01 MECHANICAL SCHEDULES
- M9.02 MECHANICAL SCHEDULES

ELECTRICAL

- E0.01 ELECTRICAL SYMBOL LEGENDS & GENERAL NOTES
- E1.1A UNIT 'A' ELECTRICAL DEMOLITION PLAN
- E1.1B UNIT 'B' ELECTRICAL DEMOLITION PLAN
- E1.1C UNIT 'C' ELECTRICAL DEMOLITION PLAN
- E1.1D UNIT 'D' ELECTRICAL DEMOLITION PLAN
- E2.1A UNIT 'A' POWER & COMMUNICATIONS PLANS
- E2.1B UNIT 'B' POWER & COMMUNICATIONS PLAN
- E2.1C UNIT 'C' POWER & COMMUNICATIONS PLAN
- E2.1D UNIT 'D' POWER & COMMUNICATIONS PLAN
- E3.1A UNIT 'A' LIGHTING PLANS
- E3.1B UNIT 'B' LIGHTING PLAN
- E3.1C UNIT 'C' LIGHTING PLAN
- E3.1D UNIT 'D' LIGHTING PLAN
- E4.01 EXISTING POWER DISTRIBUTION ONE-LINE DIAGRAM
- E4.02 POWER DISTRIBUTION ONE-LINE DIAGRAM
- E5.01 POWER DISTRIBUTION EQUIPMENT SCHEDULES
- E5.02 POWER DISTRIBUTION EQUIPMENT SCHEDULES
- E5.10 LIGHTING FIXTURE, CONTROL & ENERGY SCHEDULES
- E7.01 ELECTRICAL DETAILS
- E7.02 COMMUNICATIONS DETAILS
- ES1.01 SITE ELECTRICAL DEMOLITION PLAN
- ES2.01 SITE ELECTRICAL PLAN

VICINITY MAP



ALTERNATES

- C-1: ADD ALTERNATE FOR SOUTH PARKING LOT
- C-2: POURED IN PLACE (PIP) SURFACING IN LIEU OF ENGINEERED WOOD FIBER (EWF)
- C-3: CUSTOM NET PLAYGROUND STRUCTURE

CONSTRUCTION MANAGER

OWEN-AMES-KIMBALL CO.
300 IONIA NW, GRAND RAPIDS, MI 49503
P. 616.456.1521 WWW.OWEN-AMES-KIMBALL.COM

OWNER

HUDSONVILLE PUBLIC SCHOOLS
3886 VAN BUREN STREET, HUDSONVILLE, MI 49426
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GMB ARCHITECTURE + ENGINEERING
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ELECTRICAL ABBREVIATIONS table with columns for symbol, description, and abbreviation.

MAXIMUM CONDUCTOR LENGTHS FOR TYPICAL BRANCH CIRCUITS table with columns for circuit voltage, conductor size, and feet one-way based on single phase and three phase.

COMMUNICATIONS SYMBOL LEGEND table with columns for symbol and description.

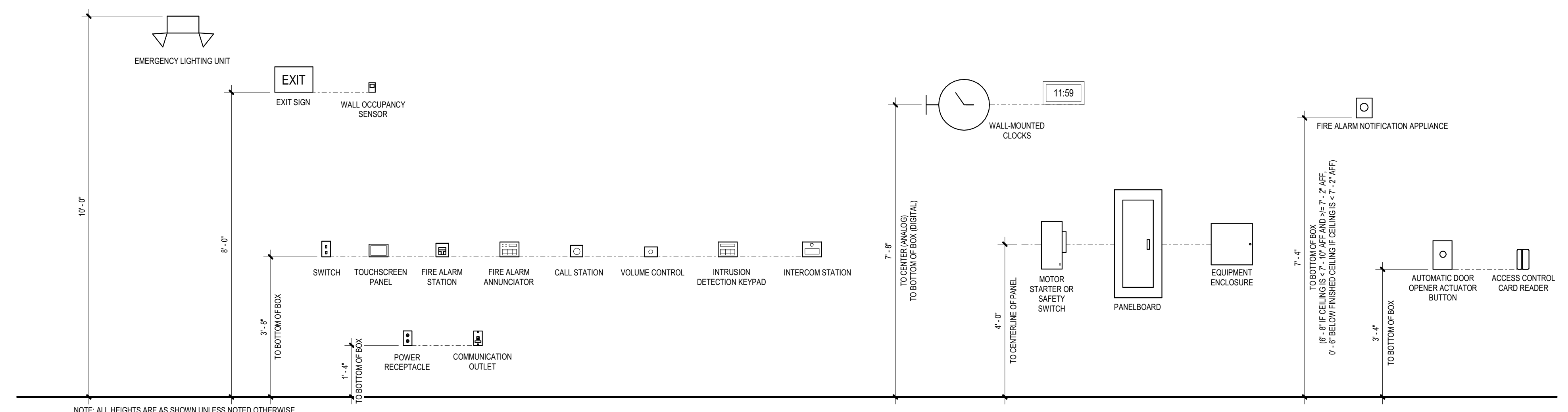
POWER SYMBOL LEGEND table with columns for symbol, description, and notes.

LIGHTING SYMBOL LEGEND table with columns for symbol, description, and notes.

FIRE ALARM SYMBOL LEGEND table with columns for symbol, description, and notes.

ELECTRONIC SAFETY / SECURITY SYMBOL LEGEND table with columns for symbol, description, and notes.

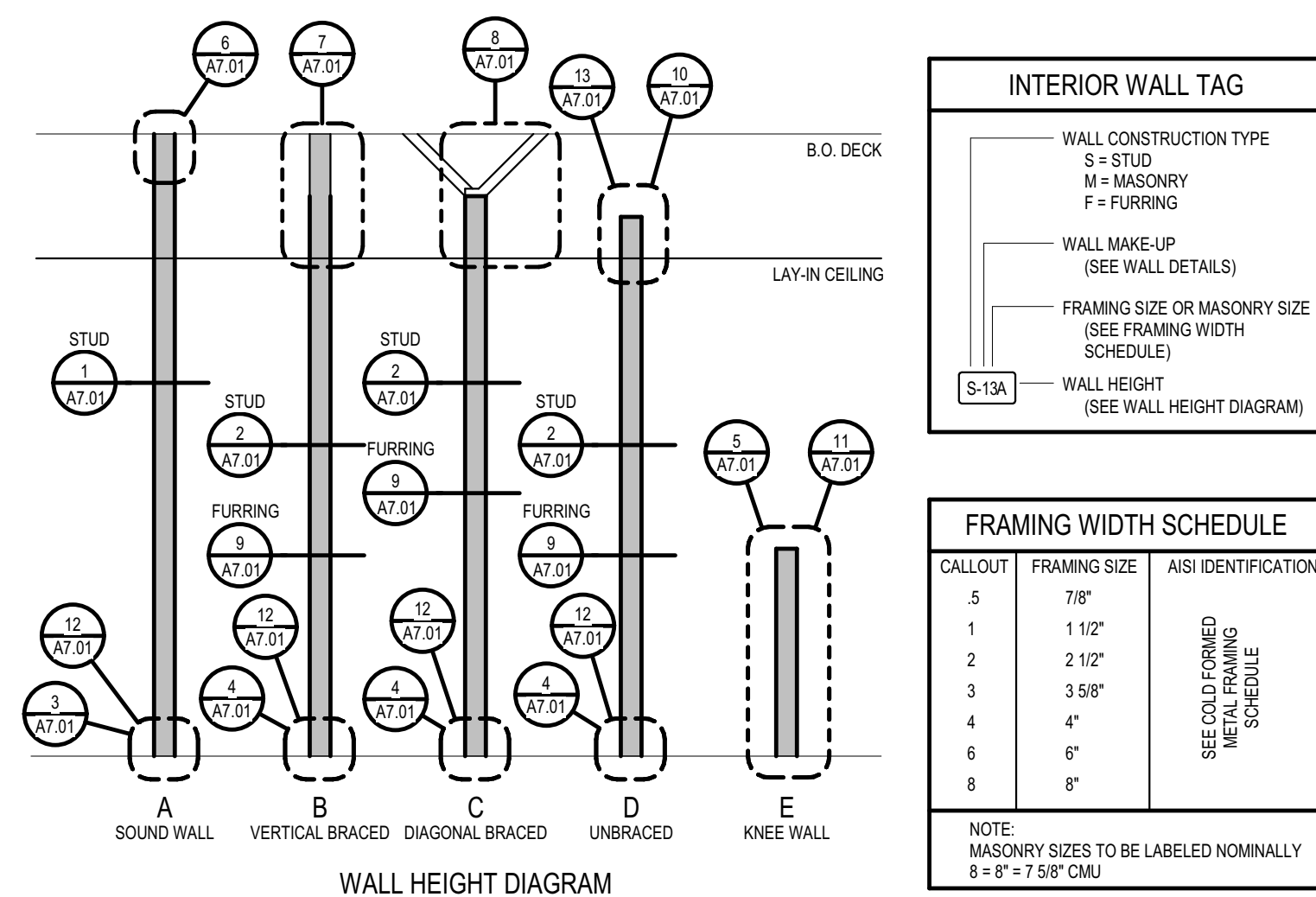
ELECTRICAL GENERAL NOTES section containing 26 numbered notes regarding electrical code compliance, installation requirements, and safety protocols.



TYPICAL MOUNTING HEIGHTS FOR WALL DEVICES, EQUIPMENT, & FIXTURES

GENERAL FLOOR PLAN NOTES:

- DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.
- REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.
- INTERIOR STUD WALLS ARE TO USE 3/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
- TURN UP VAPOR BARRIER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE.
- SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR).
- EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.
- REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINERY, FRAMES, STRUCTURAL ITEMS, ETC.
- PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR'S RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR / SITE SUPERVISOR.
- COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LEADERS, PIPING, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- ALL GUARDRAILS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2018 IBC, ANSI ICC A117.1-2009 & AMERICANS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
- PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE 001 FOR REQUIREMENTS.
- FOR ALL CABINERY, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
- ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE - UNLESS NOTED OTHERWISE.
- CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW CONSTRUCTION. TYPICAL THROUGHOUT.
- SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
- WHERE SPECIALLY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALLY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR LINTEL CONDITIONS PER SPECIFICATIONS.
- WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASHPORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SMOOTH PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT.
- SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING (FOR ALL WALLS) NOT OTHERWISE NOTED ON STRUCTURAL PLANS:
 - ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-4#.
 - ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-4#.
 - ALL INTERIOR NON-BEARING WALLS OVER 10'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-4#.



WALL TAG & HEIGHT DIAGRAM
3/8" = 1'-0"

GENERAL PROJECT NOTES:

- FINISH FLOOR ELEVATION = 634.02 = 100'-0"
- DRAWINGS ARE NOT TO BE SCALED WHEN A DIMENSION IS IN QUESTION. VERIFY WITH ARCHITECT.
- DETAILS SHOWN BUT NOT CALLED OUT STILL APPLY, UNLESS OTHERWISE NOTED.
- GENERAL TRADE CONTRACTOR SHALL COORDINATE ALL TRADES INCLUDING OWNER FURNISHED EQUIPMENT, INCLUDING DIMENSIONS OF SUCH AS THEY RELATE TO HISHER OWN WORK.
- ALL EXPOSED SURFACES SHALL BE FINISHED. CONTACT ARCHITECT FOR DIRECTION IF FINISH IS NOT LISTED.
- NO UTILITIES INCLUDING BUT NOT LIMITED TO, PIPING AND CONDUIT SHALL BE EXPOSED UNLESS APPROVED BY ARCHITECT.
- GYPSUM BOARD WALLS AND BULKHEADS SHALL HAVE CONTROL JOINTS AT 20'-0" O.C. MAXIMUM AND AS SHOWN ON DRAWINGS.
- ANY CONTRACTOR IS TO STOP WORK IMMEDIATELY IN AREA IF ABATEMENT MATERIALS ARE ENCOUNTERED. NOTIFY GENERAL CONTRACTOR OF SUSPECTED ABATEMENT MATERIALS. ABATEMENT CAN BE DONE UNDER A SEPARATE ABATEMENT CONTRACT AS NEGOTIATED BY OWNER.
- AT ALL AREAS OF WORK WHERE EXISTING MASONRY BLOCK AND BRICK WALLS ARE BEING MODIFIED OR CONNECTED TO NEW MASONRY AND/OR BRICK MUST BE TOOTHED, UNLESS NOTED ON DRAWINGS.
- CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES PRIOR TO EXCAVATION, TRENCHING, ETC. AND SHALL REPAIR OR REPLACE ANY DAMAGED UTILITIES AS A RESULT OF CONSTRUCTION.
- ALL TRADES ARE TO COORDINATE ANY DEMOLITION, CAPPING OR ABANDONMENT OF EXISTING MECHANICAL, ELECTRICAL, PLUMBING OR ARCHITECTURAL ITEMS.
- ANY DEMOLITION OR CONSTRUCTION WHICH DAMAGES ADJACENT SURFACES IS TO BE REPAIRED TO MATCH THE EXISTING SURFACE DAMAGED MATERIALS & FINISHES AND ALL REPAIR WORK IS TO BE COORDINATED WITH NEW CONSTRUCTION.
- CONTRACTOR IS TO PROVIDE TEMPORARY SHORING AND BRACING FOR EXISTING ROOF/FLOOR STRUCTURE AS REQUIRED UNTIL PERMANENT WALLS & LINTELS ARE INSTALLED.
- SITE SECURITY AND SAFETY ARE THE CONTRACTORS RESPONSIBILITY. SITE SHALL BE SECURED FENCED IF REQUIRED BY CONTRACTOR.
- ALL ITEMS TO BE SAVED AND/OR RELOCATED ARE TO BE STORED IN A PROPER MANNER SO NO DAMAGE WILL OCCUR TO THESE ITEMS DURING THEIR STORAGE PERIOD.
- ALL CONSTRUCTION AND MATERIALS ARE TO BE INSTALLED BY THE MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS UNLESS DIRECTED OTHERWISE BY ARCHITECT.
- SEE SPECIFICATIONS FOR STEEL LINTEL SIZES FOR WALL OPENINGS NOT DETAILED (e.g. HVAC DUCTS, ETC.).
- REFER TO GENERAL INFORMATION SHEET 001 FOR TYPICAL BARRIER FREE AND ACCESSIBLE DIMENSIONS.
- REFER TO GENERAL INFORMATION SHEET 001 FOR TYPICAL WALL REINFORCING SCHEDULE (SEE WALL REINFORCING SCHEDULE).
- FURNISH & INSTALL 2x12 HORIZONTAL WOOD BLOCKING BETWEEN STUDS WHERE REQUIRED FOR MOUNTING OF UPPER CABINETS, GRAB BARS OR OTHER EQUIPMENT AS REQUIRED FOR PROPER SUPPORT.
- COORDINATE ALL CONSTRUCTION PRACTICE TOLERANCES WITH OTHER TRADES WHOSE WORK MAY BE AFFECTED, DIRECTLY OR INDIRECTLY, WITH YOUR SPECIFIC TRADE. IN ALL CASES, THE MOST STRINGENT TOLERANCE SHALL APPLY AND SHALL BE COORDINATED THRU THE GENERAL CONTRACTOR, JOB SUPERINTENDENT AND/OR CONSTRUCTION MANAGER AND FIELD OBSERVATION PERSON AS APPLICABLE.
- REFER TO FLOOR PLANS, SCHEDULES AND EXTERIOR ELEVATIONS FOR WINDOW FRAME TYPES.
- REFER TO FLOOR PLANS, SCHEDULES AND INTERIOR ELEVATIONS FOR BORROWED LITE FRAME TYPES.
- AT MASONRY CAVITY WALL LOCATION, PROVIDE APPROPRIATE SEPARATION IN REGARDS TO INTERIOR AIR INFILTRATION AND EXTERIOR AIR AND WATER INFILTRATION THRU WALL. PROVIDE NECESSARY AIR AND WATER BARRIERS REQUIRED, INCLUDING DAMS, TO PREVENT WALL LEAKAGE.

CODE NOTES:

- FIRE DEPARTMENT ACCESS AND WATER SUPPLY SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF VERTICAL CONSTRUCTION.
- FIRE STOP ALL INTERCONNECTIONS BETWEEN VERTICAL AND HORIZONTAL SPACES AND CONCEALED WALL SPACES AT THE CEILING, FLOOR, AND ROOF LEVELS.
- INSTALL SOLID BLOCK BEHIND ALL RECESSED WALL UNITS AS REQUIRED TO MAINTAIN FIRE RATINGS.
- ALL FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS, AND SMOKE PARTITIONS SHALL BE IDENTIFIED WITH STENCILING AT INTERVALS NOT TO EXCEED 3'-0". REFER TO CODE PLAN FOR WALLS REQUIRED TO BE PROTECTED.
- ALL PENETRATIONS AT SMOKE AND FIRE RATED WALLS, FLOORS, CEILING, ETC. SHALL BE PROTECTED, SEALED OR DAMPERED USING ONLY U.L. AND / OR I.C.B.O. APPROVED METHODS, MATERIALS AND INSTALLATION.
- SEE REFLECTED CEILING PLANS AND LIGHTING PLANS FOR EXTENSION LOCATIONS.
- ALL EXITS TO BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE.
- PANIC HARDWARE TO BE PROVIDED AT EACH EXIT DOOR FROM ROOMS WITH AN OCCUPANT LOAD 50 OR MORE INCLUDING MAIN CORRIDOR EXIT DOORS.
- ALL ELEVATORS SHALL COMPLY WITH A.D.A., A.D.G.A. AND A.N.S.I. REQUIREMENTS.
- SPECIAL STRUCTURAL INSPECTIONS ARE REQUIRED. REVIEW GENERAL STRUCTURAL NOTES AND SPECIFICATIONS FOR REQUIREMENTS.
- FIRE SPRINKLER AND FIRE ALARM SYSTEM SHALL BE PROVIDED PER NFPA NO. 13, 70 & 72. SUBMIT ALL REQUIRED DRAWING AND INFORMATION TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY RELATED WORK. OBTAIN APPROVAL OF COMPLETED SYSTEMS PRIOR TO FINAL ACCEPTANCE.

ACCESSIBILITY NOTES:

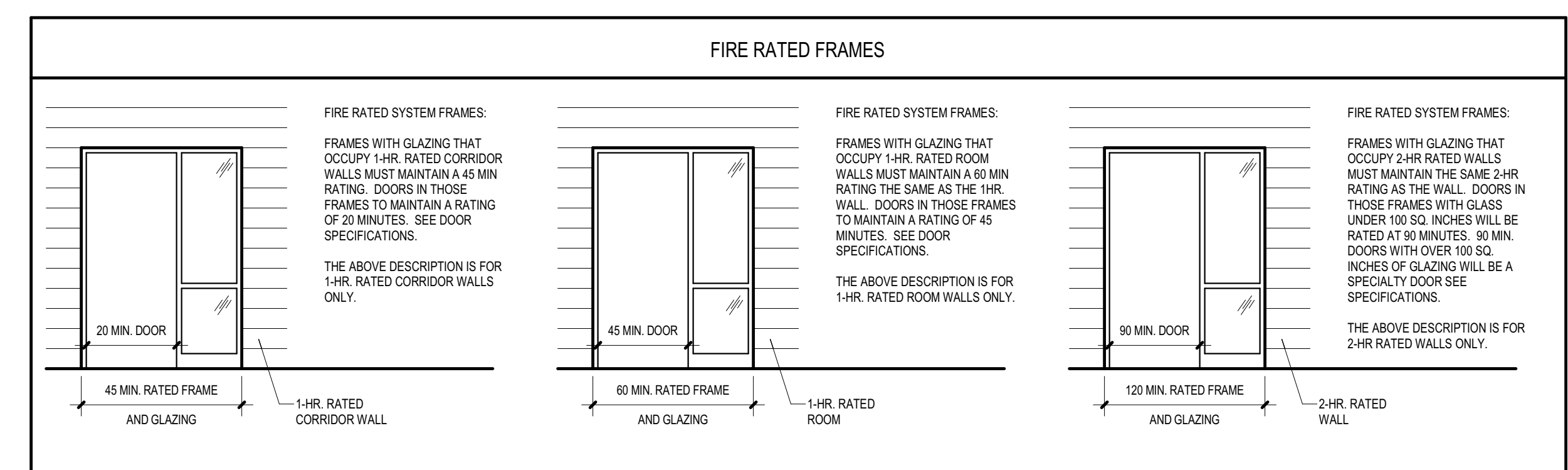
- PUBLIC ENTRANCES: AT LEAST 60% SHALL BE ACCESSIBLE.
- ACCESSIBLE ENTRANCES TO THE BUILDING SHALL BE IDENTIFIED BY THE INTERNATIONAL SIGN OF ACCESSIBILITY.
- AN ACCESSIBLE ROUTE OF NOT LESS THAN 3'-0" WIDE MUST BE PROVIDED TO ALL PORTIONS OF THE BUILDING AND BETWEEN THE BUILDING AND THE PUBLIC WAY. ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM SLOPE OF 1:20 AND A MAXIMUM CROSS SLOPE OF 1:50.
- ACCESSIBLE ROUTE SHALL BE WITHOUT STEPS OR CHANGES IN LEVEL GREATER THAN 1/2" WITHOUT AN APPROVED RAMP.
- ACCESSIBLE RAMPS THAT ARE REQUIRED BY ANSIA 117.1 SHALL NOT HAVE A SLOPE THAT EXCEEDS 1FT. IN 12 FEET. RAMPS AND GROUND SURFACES SHALL BE OF A SLIP RESISTANT SURFACE.
- THRESHOLDS MUST BE 1/2" OR LESS IN HEIGHT.
- ALL ACCESSIBLE PARKING SPACES MUST HAVE A SIGN THAT INCLUDES THE INTERNATIONAL SIGN OF ACCESSIBILITY. PARKING SPACE WILL BE OUTLINED IN A CONTRASTING COLOR WITH THE INTERNATIONAL SIGN OF ACCESSIBILITY PAINTED IN THE CENTER.
- ALL ALARMS TO MEET ACCESSIBILITY REQUIREMENTS.

STRUCTURAL NOTES:

- CONSTRUCTION AND/OR CONTROL JOINTS IN CONCRETE SHALL BE ON A 1'-0" SQUARE GRID (MAX) UNLESS OTHERWISE NOTED. ALL CONSTRUCTION JOINTS SHALL BE DOVELEWED 1/2" SMOOTH DOWELS AT 24" O.C. SEE DETAILS.
- PROVIDE CONTINUOUS U-BLOCK BOND BEAMS AT THE LOCATIONS INDICATED ON WALL SECTIONS OR DETAILS. FILL U-BLOCKS WITH CONCRETE AND REINFORCE WITH (2) #5 BARS CONTINUOUS UNLESS NOTED OTHERWISE ON DRAWINGS.

ABBREVIATIONS

A.D.A.	= AMERICANS WITH DISABILITY ACT	MFR	= MANUFACTURER
A.F.F.	= ABOVE FINISHED FLOOR	MAX.	= MAXIMUM
ALT.	= ALTERNATE	M.B.	= MARKER BOARD
ALUM.	= ALUMINUM	M.B.C.	= MICHIGAN BUILDING CODE
BD.	= BOARD	MECH.	= MECHANICAL
B.F.	= BARRIER FREE	M.N.	= MINIMUM
BATT.	= BATTEN/INFLATION	MISC.	= MISCELLANEOUS
B.O.	= BOTTOM OF	M.J.	= MASONRY JOINT
BRG.	= BEARING	M.O.	= MASONRY OPENING
C.J.	= CONTROL JOINT	M.L.	= METAL
C.L.G.	= CEILING	N.I.C.	= NOT IN CONTRACT
CONC.	= CONCRETE	N.O.M.	= NOMINAL
CONT.	= CONTINUOUS	O.C.	= ON CENTER
CONF.	= CONFERENCE	OPP.	= OPPOSITE
CORR.	= CORRIDOR	PLAM.	= PLASTIC LAMINATE
DIAM.	= DIAMETER	P.T.	= PRESSURE TREATED
DM.	= DIMENSION	REQ.	= REQUIRED
D.W.	= DISHWASHER	REINF.	= REINFORCING
D.F.	= DRINKING FOUNTAIN	R.D.	= ROOF DRAIN
DN.	= DOWN	SM.	= SIMILAR TO
DS.	= DOWNSPOUT	U.A.G.	= UNLESS NOTED OTHERWISE
EQ.	= EQUAL	STD.	= STANDARD
EL.	= ELEVATION	STOR.	= STORAGE
EX.	= EXISTING	S.S.	= STAINLESS STEEL
EXP.	= EXPANSION	T.	= TOILET
F.D.	= FLOOR DRAIN	T.B.	= TACK BOARD
F.E.	= FIRE EXTINGUISHER	T&G.	= TONGUE AND GROOVE
F.E.C.	= FIRE EXTINGUISHER CABINET	T.O.F.	= TOP OF FOOTING
F.E.C.	= FIRE EXT. RECESSED CABINET	T.O.M.	= TOP OF MASONRY
F.E.S.C.	= FIRE EXT. SEMI-RECESSED CABINET	T.O.W.	= TOP OF WALL
FIN.	= FINISHED	T.W.P.	= TYPICAL
FIR.	= FLOOR	U.A.G.	= UNLESS NOTED OTHERWISE
GA.	= GAUGE	V.F.	= VERIFY IN FIELD
GYP.	= GYPSUM BOARD	V.E.T.	= VERTICAL
H.D.	= HAND DRYER	VEST.	= VESTIBULE
HORIZ.	= HORIZONTAL	W.	= WITH
H.S.S.	= HOLLOW STRUCT. SECTION	W.W.F.	= WELDED WIRE FABRIC
ISO.	= ISOCYANURATE		
INSUL.	= INSULATION		



DEPTH	GAUGE (33 KSI)	FLANGE WIDTH	IDENTIFICATION AISI S1010S220	LOCATION / USE
3 1/2"	20	1 1/4"	250S125-30	BULKHEADS & MISC. FRAMING
3 5/8"	20	1 1/4"	302S125-30	INTERIOR WALLS & BULKHEADS
6"	18	1 5/8"	600S162-43	
3 5/8"	20	1 5/8"	302S162-33	INTERIOR JAMBS
6"	18	1 5/8"	600S162-43	
6"	16	1 5/8"	600S162-54	EXTERIOR WALLS

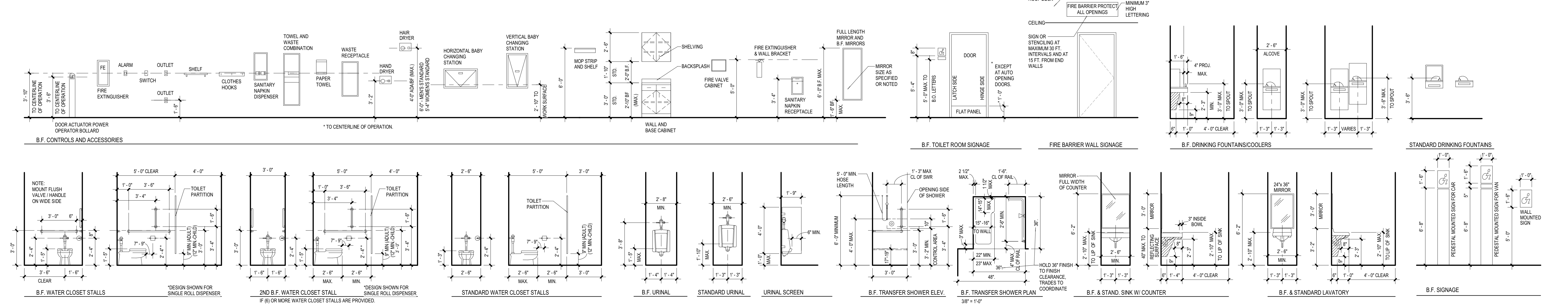
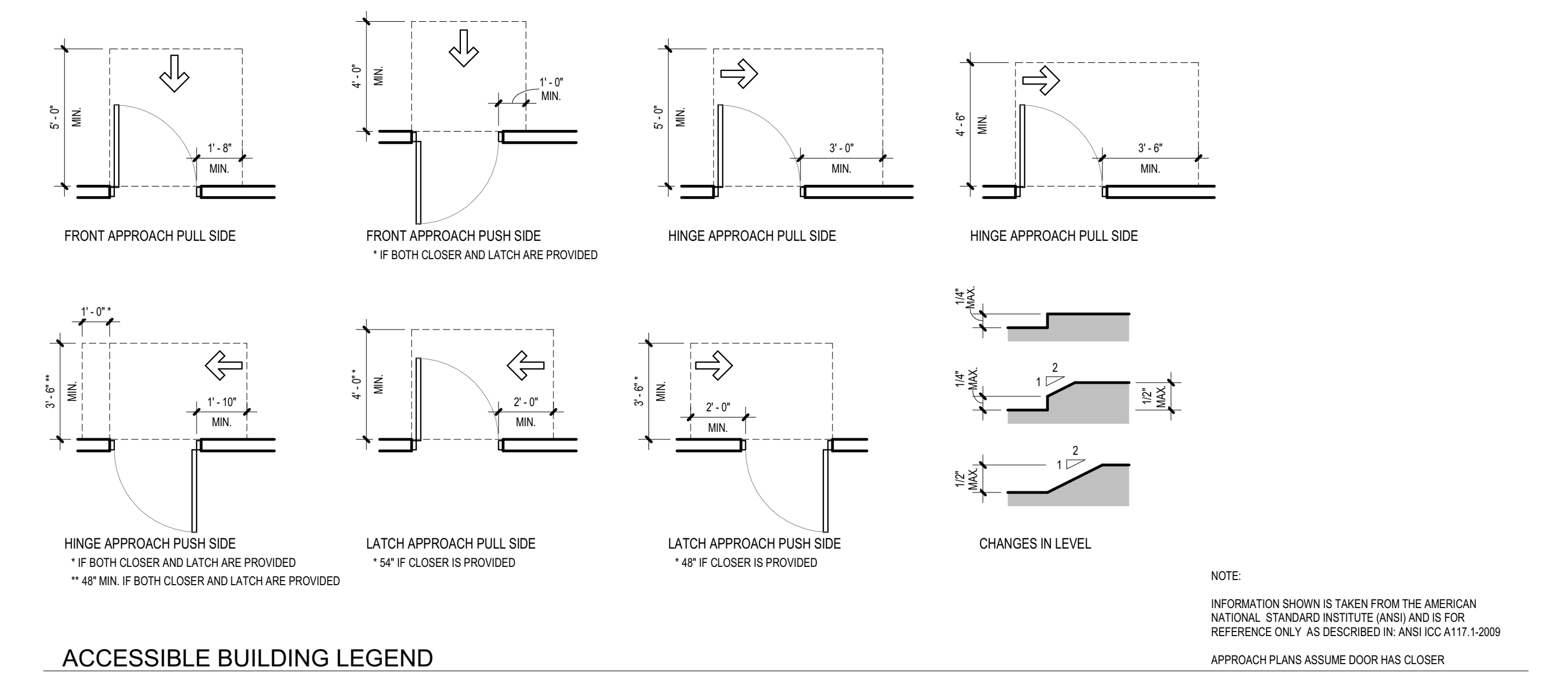
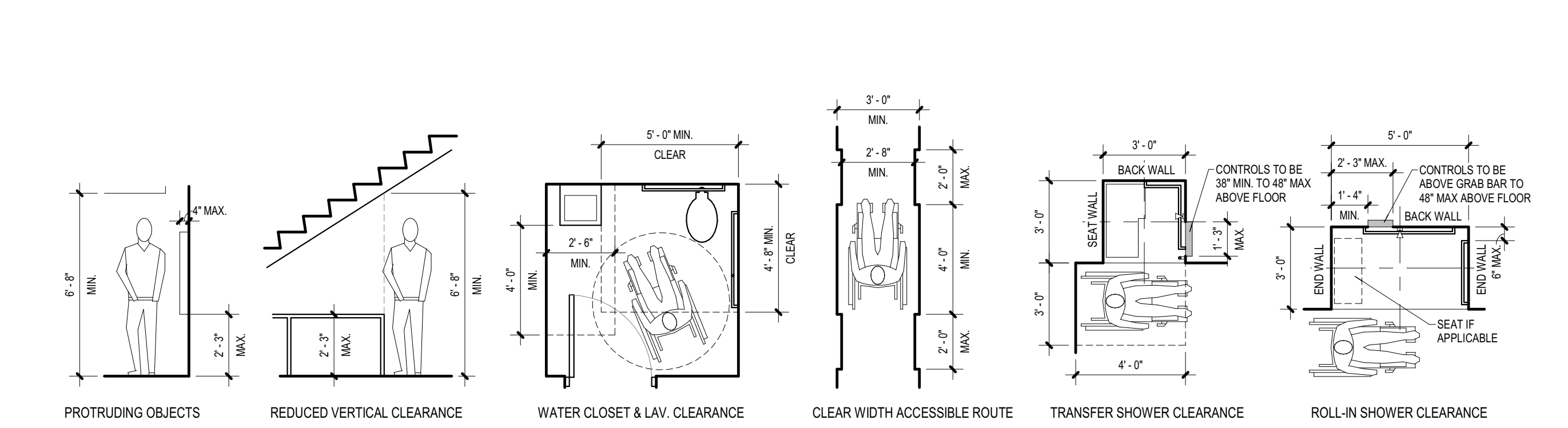
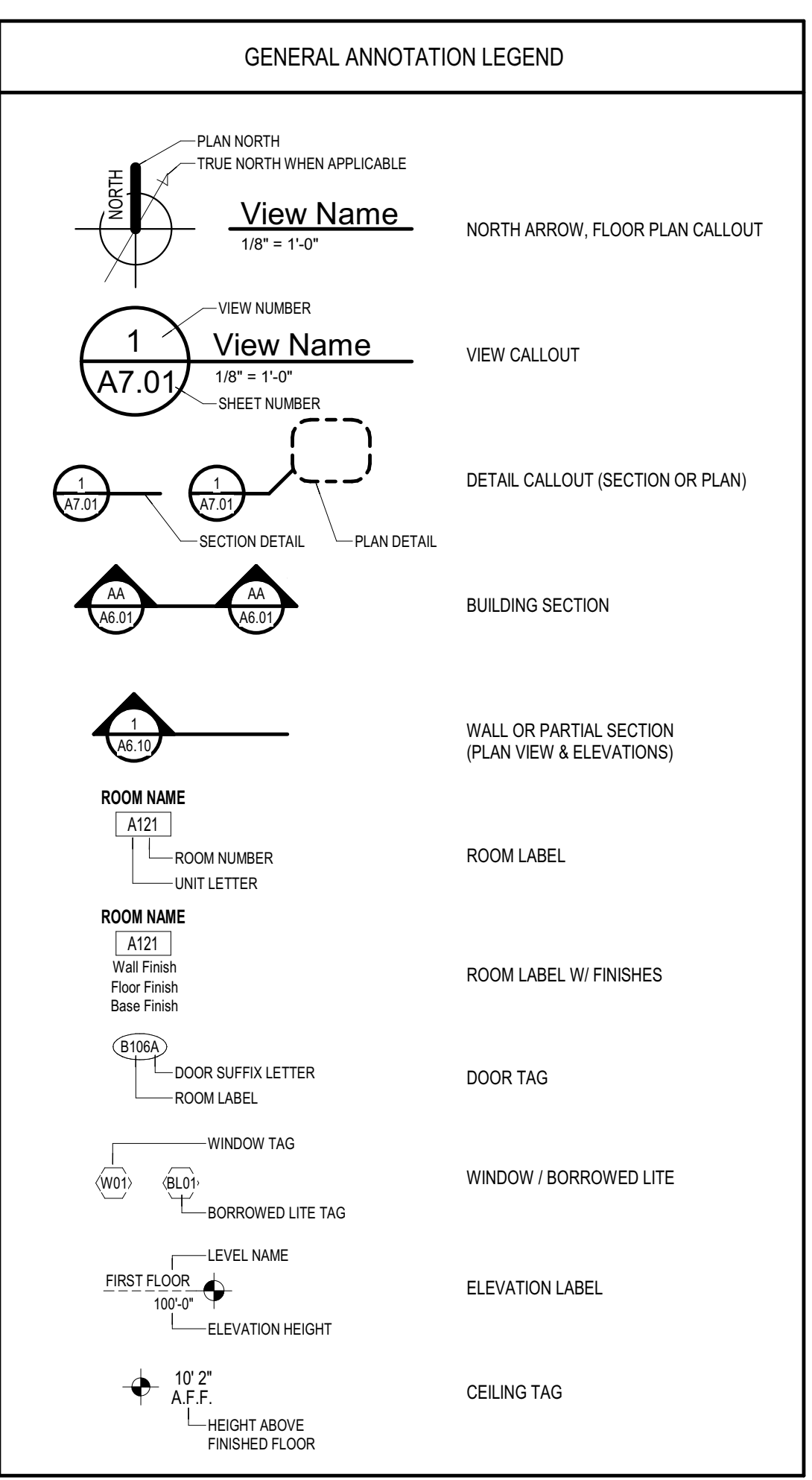
DEPTH	GAUGE (33 KSI)	FLANGE WIDTH	IDENTIFICATION AISI S1010S220	LOCATION / USE
2 1/2"	20	1 1/4"	250T125-30	BULKHEADS & MISC. FRAMING
3 5/8"	20	1 1/4"	302T125-30	INTERIOR WALLS & BULKHEADS
3 5/8"	20	2 1/2"	302T250-33	DEFLECTION TRACK
6"	18	1 1/4"	600T125-43	INTERIOR WALLS & BULKHEADS
6"	16	1 1/2"	600T150-54	EXTERIOR WALLS

DEPTH	GAUGE (33 KSI)	FLANGE WIDTH	IDENTIFICATION AISI S1010S220	LOCATION / USE
7/8"	20	N/A	087T125-33	WHERE NOTED
1 1/2"	20	N/A	150T125-33	WHERE NOTED

NOTE: ALL MEMBERS IN THIS SCHEDULE ARE SIZED FOR MAXIMUM 15' TALL WALLS. NOTE THAT 6" INTERIOR STUDS CAN SPAN A MAXIMUM HEIGHT OF 20'. SEE COLD-FORMED METAL HEADER SCHEDULE FOR SPECIFIC JAMB & HEADER REQUIREMENTS.

ROUGH OPENING	MATERIAL	HEADER SHAPE
6'-0" MAX	HEADER: (2) 302S162-33 JOISTS JAMBS: (2) 302S162-33 STUDS EACH END (1) 302T125-33 TRACK	
10'-0" MAX	HEADER: (2) 600S162-33 JOISTS JAMBS: (2) 302T125-33 TRACKS (2) 302S162-33 STUDS EACH END (1) 302T125-33 TRACK	
12'-0" MAX	HEADER: (2) 1000S162-43 JOISTS JAMBS: (2) 302S162-33 HORIZONTAL (1) 302S162-33 TRACKS (2) 302S162-33 STUDS EACH END (1) 302T125-33 TRACK	

ALL HEADERS IN THIS SCHEDULE ARE SIZED FOR INTERIOR, NON-LOAD BEARING WALLS ONLY BASED ON 1/2" WALL HEIGHT / 5 psf INTERNAL LOAD / 50 psf VERTICAL DEAD LOAD



BARRIER FREE ADA DIMENSIONS
1/4" = 1'-0"

GENERAL CODE NOTES:

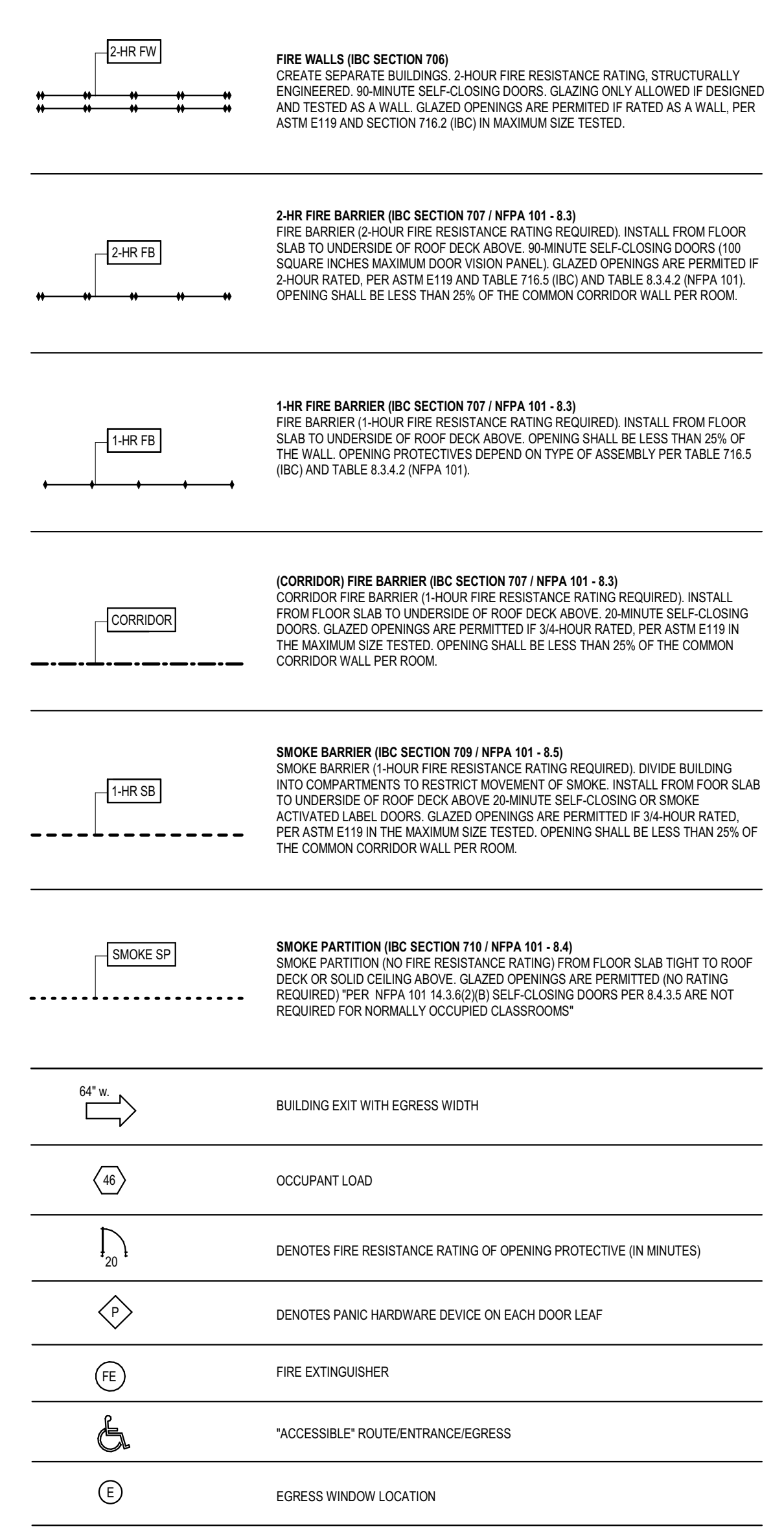
- A. FIRE DEPARTMENT ACCESS AND WATER SUPPLY SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF VERTICAL CONSTRUCTION.
- B. FIRE STOP ALL INTERCONNECTIONS BETWEEN VERTICAL AND HORIZONTAL SPACES AND CONCEALED WALL SPACES AT THE CEILING, FLOOR, AND ROOF LEVELS.
- C. INSTALL SOLID BLOCK BEHIND ALL RECESSED WALL UNITS AS REQUIRED TO MAINTAIN FIRE RATINGS.
- D. ALL FIRE WALLS, FIRE PARTITIONS, SMOKE BARRIERS, AND SMOKE PARTITIONS SHALL BE IDENTIFIED WITH STENCILING AT INTERVALS NOT TO EXCEED 30'. REFER TO CODE PLAN FOR WALLS REQUIRED TO BE PROTECTED OR DAMPENED USING ONLY U.L. AND OR I.C.C. APPROVED METHODS, MATERIALS AND INSTALLATION.
- E. ALL PENETRATIONS AT SMOKE AND FIRE RATED WALLS, FLOORS, CEILINGS, ETC. SHALL BE PROTECTED, SEALED OR DAMPENED USING ONLY U.L. AND OR I.C.C. APPROVED METHODS, MATERIALS AND INSTALLATION.
- F. SEE REFLECTED CEILING PLANS AND LIGHTING PLANS FOR EXIT SIGNAGE LOCATIONS.
- G. ALL EXITS TO BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE.
- H. ALL ELEVATORS SHALL COMPLY WITH A.D.A., A.D.A.G.G. AND A.N.S.I. REQUIREMENTS.
- I. SPECIAL STRUCTURAL INSPECTIONS ARE REQUIRED. REVIEW GENERAL STRUCTURAL NOTES AND SPECIFICATIONS FOR REQUIREMENTS.
- J. FIRE SPRINKLERS AND FIRE ALARM SYSTEM SHALL BE PROVIDED PER NFPA NO. 13.7 & 72. SUBMIT ALL REQUIRED DRAWING AND INFORMATION TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY RELATED WORK. OBTAIN APPROVAL OF COMPLETED SYSTEMS PRIOR TO FINAL ACCEPTANCE.

FIRE AREA / ALTERATION LEGEND

BUILDINGS SEPARATED BY 2-HR. FIRE WALLS PER MBC 706
BUILDINGS SEPARATED INTO SMOKE COMPARTMENTS PER NFPA 101 15.3.7

BUILDING #	NEW EXISTING	OCC. TYPE	FIRE SUPPRESSION	AREA	LEVEL OF ALTERATION & AREA	AREA OF NO WORK
BUILDING 1 - FIRE AREA 1	EXISTING	E	NOT PROTECTED	13,180 SF	LEVEL 2: 2,552 SF	10,628 SF
BUILDING 1 - FIRE AREA 2	EXISTING	E	NOT PROTECTED	8,315 SF	LEVEL 1: 3,938 SF	4,377 SF
BUILDING 2 - FIRE AREA 1	EXISTING	E	NOT PROTECTED	300 SF	LEVEL 1: 300 SF	0 SF
BUILDING 2 - FIRE AREA 2	EXISTING	E	NOT PROTECTED	10,058 SF	LEVEL 2: 2,778 SF	7,280 SF
BUILDING 3	EXISTING	E	NOT PROTECTED	3,484 SF	LEVEL 1: 3,000 SF	484 SF
BUILDING 4 - FIRE AREA 1	NEW	E	NOT PROTECTED	2,812 SF	LEVEL 1: 1,021 SF	1,791 SF
BUILDING 4 - FIRE AREA 2	NEW	E	NOT PROTECTED	11,026 SF	NEW CONSTRUCTION	0 SF
TOTALS:				55,920 SF	13,647 SF	

LEGEND - CODE COMPLIANCE PLAN

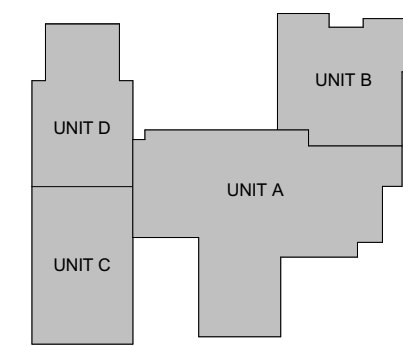


LIFE SAFETY NOTES

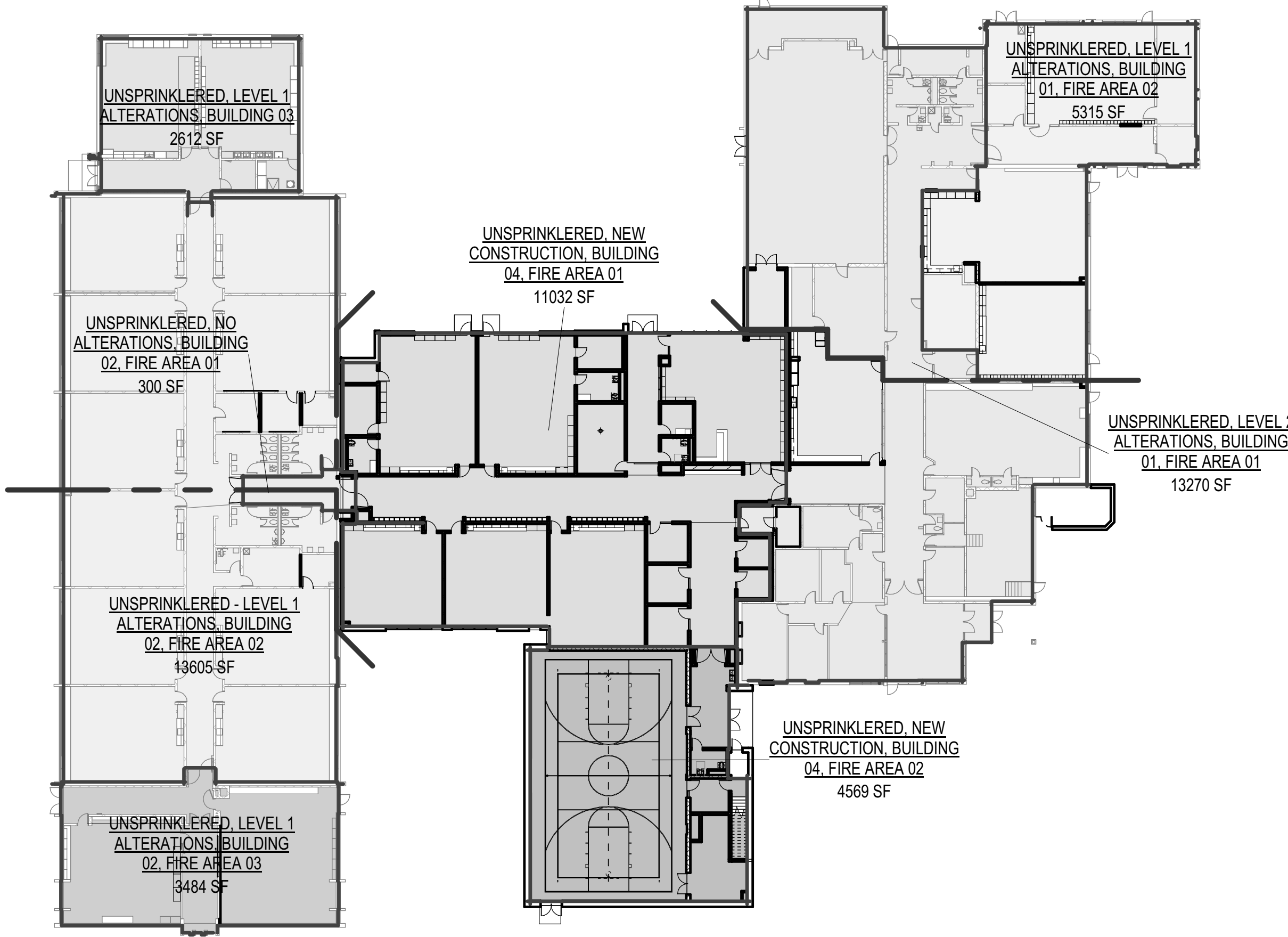
1. CODE: NFPA 101, 2012 LIFE SAFETY CODE, AS AMENDED BY STATE FIRE MARSHAL, 2015 MICHIGAN BUILDING CODE, MICHIGAN REHABILITATION CODE 2015
2. CONSTRUCTION TYPE: II (WOOD)
HAZARD OF CONTENTS: ORDINARY HAZARD
3. OCCUPANCY: EDUCATIONAL OCCUPANCY (SPACES SUBJECT TO "ASSEMBLY" OCCUPANCY NOTED ON PLAN)
4. AREA & HEIGHT:
ALLOWABLE AREA: 25,995 SQ. FT. (REFER TO CALCULATIONS ON SHEET)
ALLOWABLE HEIGHT: 2 STORIES, 55 FEET, ACTUAL: 1 STORY, 33 FEET
SMOKE COMPARTMENTS: MINIMUM OF 2 COMPARTMENTS, MAXIMUM OF 30,000 SQ. FT. EACH
5. SEPARATION & PROTECTION:
CORRIDORS SHALL BE 1-HR RATED SEPARATION AND OPENING PROTECTIVES WHERE REQUIRED. FIRE AREAS SEPARATED BY 2-HR FIRE SEPARATION & 60-MIN. OPENING PROTECTIVES. BOILER/FURNACE ROOMS, STORAGE AREAS, AND CUSTODIAL CLOSETS: 1-HR RATED SEPARATION & OPENING PROTECTIVES WHERE REQUIRED.
6. OCCUPANT LOAD: (BASED ON FOLLOWING - SEE PLAN)
ASSEMBLY (CONFERENCE, DINING, GYMNASIUM): 1/15 SF NET
BUSINESS: 1/100 SF GROSS
CLASSROOMS: 1/50 SF NET
KITCHENS: 1/100 SF GROSS
LIBRARIES (READING AREAS): 1/50 SF NET
LIBRARIES (STACK AREAS): 1/100 SF GROSS
LOCKERS: 1/7 SF NET, OR 1/15 SF GROSS INCLUDING SHOWERS, TOILETS & DRYING
MECHANICAL EQUIPMENT: 1/300 SF GROSS
SHOPS, LABS, VOC ROOMS: 1/50 SF NET
STAGES: 1/15 SF NET
STORAGE: 1/300 SF GROSS
7. EGRESS REQUIREMENTS:
A. 6'-0" MINIMUM CORRIDOR WIDTH (CORRIDOR CAPACITY = OCCUPANT LOAD/REQUIRED NUMBER OF EXITS)
B. EGRESS WIDTHS - 0.2" PER PERSON LEVEL OR RAMPED)
C. 20' MAXIMUM TRAVEL DISTANCE
D. 20' DEAD-END MAXIMUM TRAVEL IN CORRIDOR
E. 75' MAXIMUM COMMON PATH OF TRAVEL
F. EXITS:
(1) 2 REMOTE EXITS REQUIRED FOR EDUCATIONAL SPACES > 50 PEOPLE OR > 1,000 SQ. FT. IN AREA
(2) MINIMUM NUMBER PER OCCUPANTS: 2 IF < 201, 3 IF < 1001, 4 IF > 1000
(3) WINDOWS FOR RESCUE REQUIRED IN BUILDINGS NOT PROTECTED BY AUTOMATIC SPRINKLER SYSTEM
(4) PANIC HARDWARE AT AREAS > 100 OCCUPANT LOAD IF DOOR PROVIDES WITH LATCH OR LOCK
(5) DISCHARGE: ALL EXITS SHALL TERMINATE AT A PUBLIC WAY OR AN EXTERIOR EXIT DISCHARGE
G. HORIZONTAL EXITS:
(1) SUBSTITUTED FOR NO MORE THAN ONE-HALF OF REQUIRED EXITS
(2) FIRE BARRIERS SEPARATING BUILDING AREAS WITH HORIZ. EXITS BETWEEN SHALL BE 2-HOUR RATED
(3) WHERE SERVING BOTH SIDES OF FIRE BARRIER ADJACENT OPENINGS REQUIRED WITH DOORS SWINGING IN OPPOSITE DIRECTIONS
H. DOORS:
(1) MINIMUM CLEAR WIDTH SHALL BE 32"
(2) SIDE HINGED
(3) SWING IN DIRECTION OF TRAVEL WHERE OCCUPANT LOAD IS > 50
(4) SELF-CLOSING OR AUTOMATIC CLOSING IN FIRE BARRIERS AND HORIZONTAL EXITS
8. INTERIOR FINISH:
A. EXITS - CLASS A
B. ALL OTHER - CLASS A OR B
C. INTERIOR WALL & CEILING FINISH IF LESS THAN 10% OF AGGREGATE WALL & CEILING AREAS OF ANY ROOM MAY BE CLASS C
9. OTHER PROVISIONS:
BUILDING CONSTRUCTION - MICHIGAN BUILDING CODE 2015
ELECTRICAL - 2017 NFPA 70 (NEC) AS AMENDED BY MICHIGAN PART 8 RULES
MECHANICAL - MICHIGAN MECHANICAL CODE 2015
PLUMBING - MICHIGAN PLUMBING CODE 2015
FIRE ALARM SYSTEM - NFPA 72
FIRE EXTINGUISHERS - NFPA 10
FIRE SPRINKLERS - NFPA 13

FIRESTOPPING REQUIREMENT
ALL OPENINGS AROUND MECHANICAL, PLUMBING, ELECTRICAL, AND STRUCTURAL PENETRATIONS THRU A FIRE RESISTIVE RATED ASSEMBLY (INCLUDING FLOORS) SHALL BE SEALED WITH FIRE RATED FIRESTOPPING IN COMPLIANCE WITH ASTM E814 AND EQUIVALENT TO FIRE RATING REQUIRED. PENETRATIONS THRU SMOKE RESISTIVE NON-FIRE RATED ROOM, WALLS SHALL BE SEALED SMOKE TIGHT

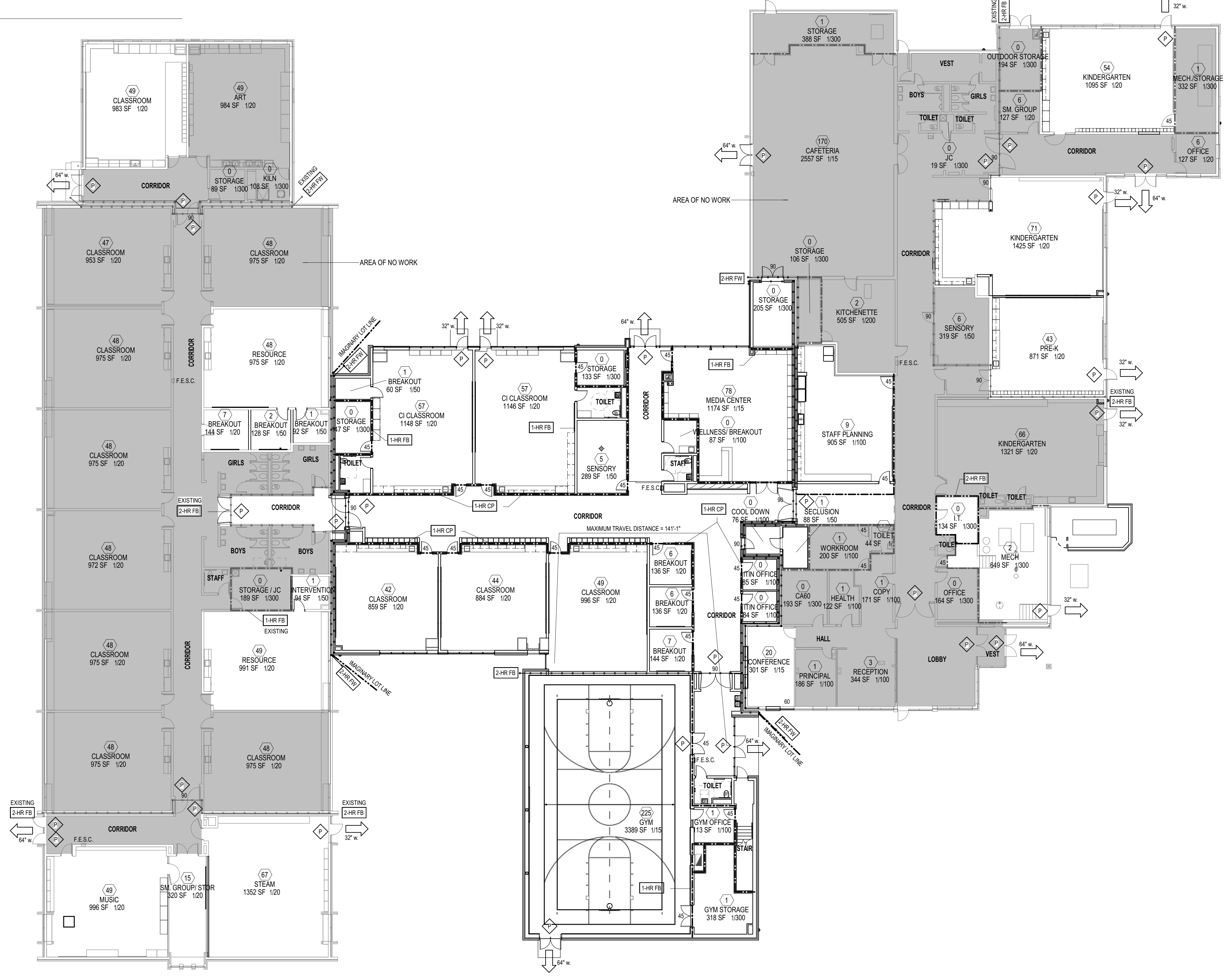
AREA CALCULATION:
TABULAR AREA = 14,500
ALLOWABLE AREA PER STORY = A (TABULAR) + (A (IN)) * 0.75 + 25,995 GSF



NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS				LAVATORIES				BATH/TUBS/SHOWERS/NA	DRINKING FOUNTAINS	OTHER	
				MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE				
1	ASSEMBLY	A-2	CAFETERIA	1 PER 75	1 PER 75	1 PER 200	1 PER 200	1 PER 200	1 PER 200	1 PER 200	1 PER 200	1 PER 200	1 PER 500	1 SERVICE SINK	REQUIRED 1
1	ASSEMBLY	A-3	GYMNASIUM, MEDIA CENTER	1 PER 125	1 PER 65	1 PER 200	1 PER 150	1 PER 150	1 PER 150	1 PER 150	1 PER 150	1 PER 150	1 PER 1000	1 SERVICE SINK	REQUIRED 1
3	EDUCATIONAL	E	EDUCATIONAL FACILITIES	1 PER 50	1 PER 50	1 PER 50	1 PER 50	1 PER 50	1 PER 50	1 PER 50	1 PER 50	1 PER 100	1 SERVICE SINK	REQUIRED 1	
	TOTAL			REQUIRED 8	REQUIRED 11	REQUIRED 9	REQUIRED 6	REQUIRED 6	REQUIRED 6	REQUIRED 6	REQUIRED 6	REQUIRED 5	REQUIRED 1	REQUIRED 1	
				ACTUAL 11	ACTUAL 11	ACTUAL 6	ACTUAL 6	ACTUAL 6	ACTUAL 6	ACTUAL 6	ACTUAL 3	ACTUAL 2			



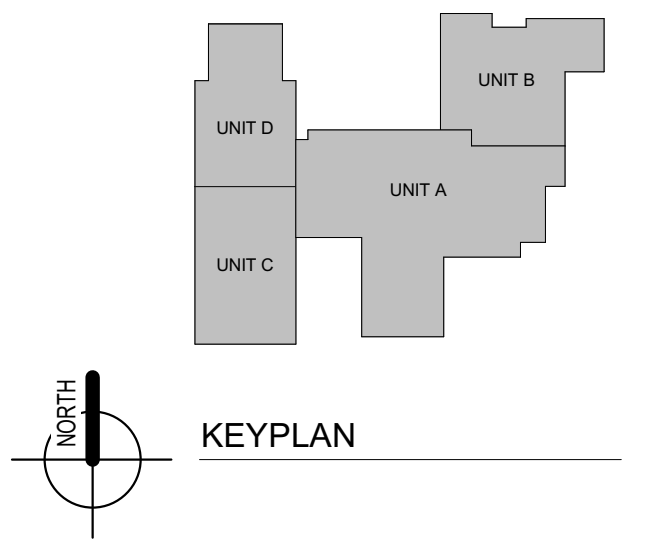
FIRST FLOOR AREA PLAN
1" = 30'-0"



CODE COMPLIANCE FIRST FLOOR PLAN
1/16" = 1'-0"



OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"



ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

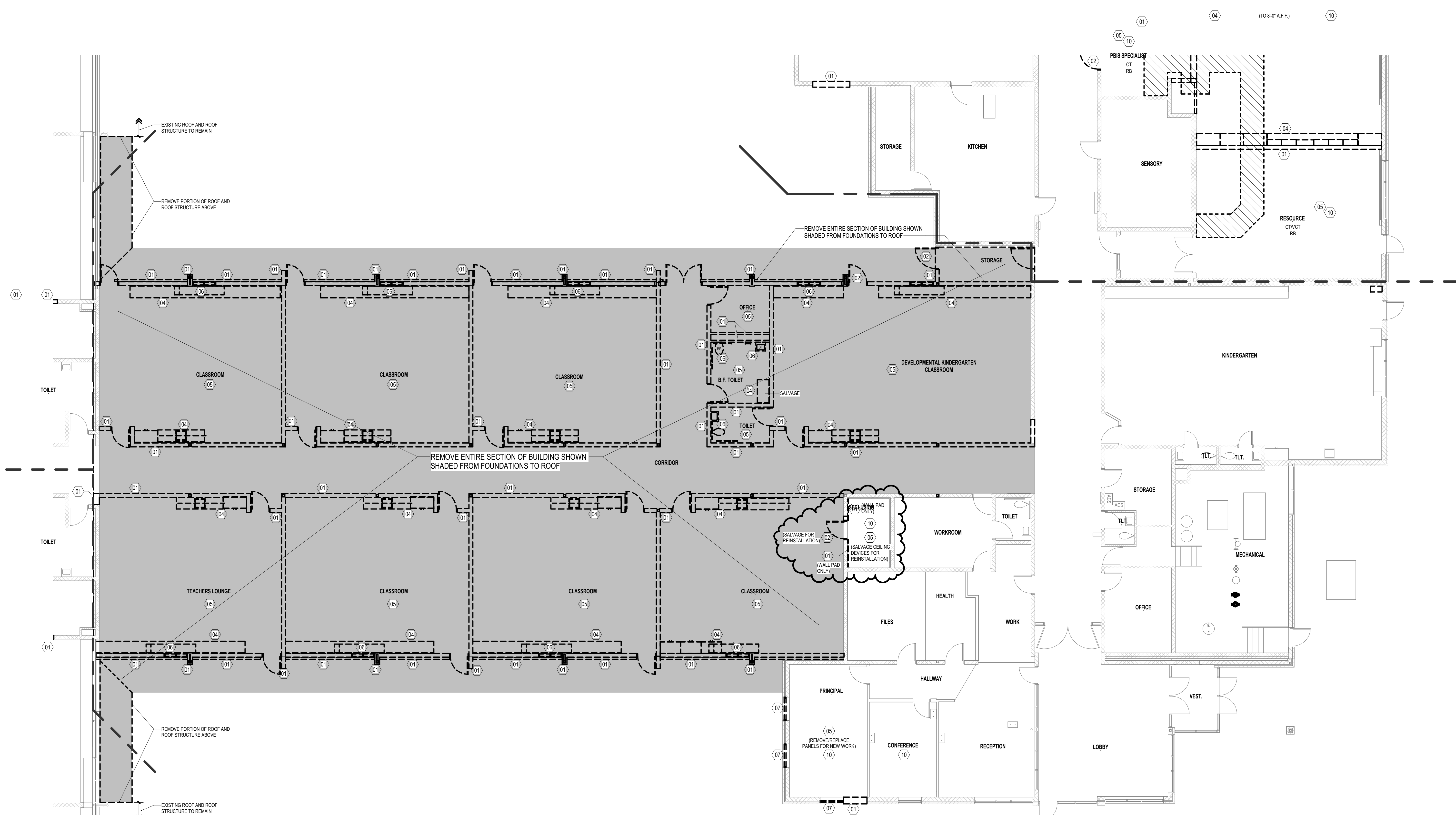
DRAWN MEE
REVIEWED TGD
PROJECT NO. 5-5798
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OVERALL FIRST FLOOR PLAN

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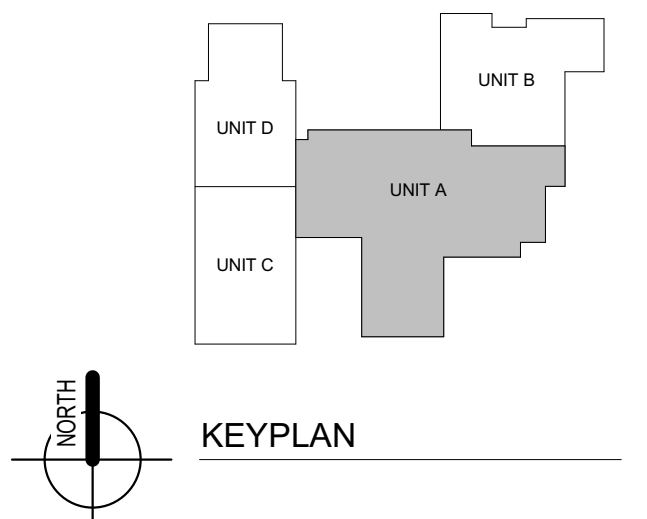
DEMOLITION NOTES

- DEMOLITION CONTRACTOR IS TO STOP WORK IMMEDIATELY IN AREA IF ASBESTOS IS ENCOUNTERED. NOTIFY CONSTRUCTION MANAGER OF SUSPECTED AREA SO PROPER ABATEMENT CAN BE DONE. (UNDER A SEPARATE ASBESTOS ABATEMENT CONTRACT AS NEGOTIATED BY OWNER.)
 - ALL MASONRY BLOCK AND BRICK WALLS TO BE REMOVED MUST BE TOOTHED TO RECEIVE NEW MASONRY UNLESS NOTED OTHERWISE ON DRAWINGS.
 - DEMOLITION CONTRACTOR IS TO PROVIDE TEMPORARY SHORING AND BRACING FOR EXISTING ROOF/FLOOR STRUCTURE AS REQUIRED UNTIL PERMANENT WALLS & LINTELS ARE INSTALLED. REFER TO STRUCT. & ARCH. DWGS. FOR BEARING CONDITIONS.
 - ALL TRADES ARE TO COORDINATE ANY DEMOLITION, CAPPING OR ABANDONMENT OF EXISTING MECHANICAL, ELECTRICAL, PLUMBING OR ARCHITECTURAL ITEMS.
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 - PATCH WALLS & ROOF TO MATCH EXISTING CONSTRUCTION BEHIND REMOVAL OF WALL COVERS, EXHAUST FANS, INTAKE HOODS & CABINET HEATERS. VERIFY SEQUENCE OF REMOVAL W/ CONSTRUCTION MANAGER. SEE MECHANICAL AND ELECTRICAL DEMO SHEETS FOR WALL, ROOF & FLOOR OPENINGS TO BE PATCHED.
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- REMOVE EXISTING WALL INCLUDING DOORS, WINDOWS, BORROWED LITES, AND ANY EQUIPMENT OR FURNISHINGS ATTACHED TO WALL OR PORTION OF EXISTING WALL AS SHOWN ON FLOOR PLAN (MIN. 4" BELOW FLOOR SLAB AND AS REQUIRED FOR NEW CONSTRUCTION). FLOOR SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW FLOOR MATERIAL. WALL SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW WALL FINISH. SEE MECHANICAL & ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS. SUPPORT UNBRACED SECTIONS OF WALL OR ROOF AS REQUIRED.
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 - SAW OUT AND REMOVE FLOOR OR PORTION OF EXISTING FLOOR SLAB AS SHOWN OR DIMENSIONED ON FLOOR PLAN. EXCAVATE, FILL & COMPACT SOIL AS REQUIRED FOR NEW SLAB. COORDINATE WITH MECHANICAL/ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS & LOCATIONS. INSTALL NEW SLAB TO MATCH EXIST. ELEVATION. SEE STRUCTURAL FOR ADDITIONAL INFORMATION REGARDING SLAB REMOVAL.
 - REMOVE EXISTING CASEWORK/MILLWORK, COUNTER TOPS & BACK SPLASH. SAVE ITEMS AT OWNER'S REQUEST.
 - REMOVE EXISTING SUSPENDED PLASTER CEILING INCLUDING ALL FRAMING, TILES, TEES, HANGERS & WIRES USED TO SUPPORT THAT CEILING. REPLACE PER REFL. CEILING PLANS.
 - SEE MECHANICAL DEMOLITION NOTES FOR REMOVAL OF EXIST. PLUMBING/MECHANICAL (i.e. LAVATORIES, SINKS, WATER CLOSETS, URINALS, FIN TUBE, MECH. DUCTWORK, UNIT VENTS, ETC.)
 - REMOVE EXISTING WINDOW, WINDOW WALL WITH ALUMINUM FRAMING WITH METAL PANELS BELOW WINDOW FRAME, SILL & GLAZING INCLUDING ALL EXISTING WOOD BLOCKING AND FRAMING ABOVE WINDOWS TO ROOF AND/OR MASONRY TIES AT BRICK PIERS AND SIDE WALLS.
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DEMOLITION LEGEND	
	EXISTING WALL TO BE DEMOLISHED
	PORTION OF EXISTING WALL TO BE DEMOLISHED
	EXISTING OBJECT TO BE DEMOLISHED
	AREA OF FLOOR CUTTING
	EXISTING WALLS TO REMAIN
	EXISTING OBJECTS TO REMAIN
	DEMOLITION TAG: SEE DEMOLITION NOTES
	ROOM NAME, FLOOR FINISH, ROOM NAME, FLOORING TYPE, CEILING TYPE, CEILING FINISH

UNIT 'A' FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION
04.18.2023 ADDENDUM 01

DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5798
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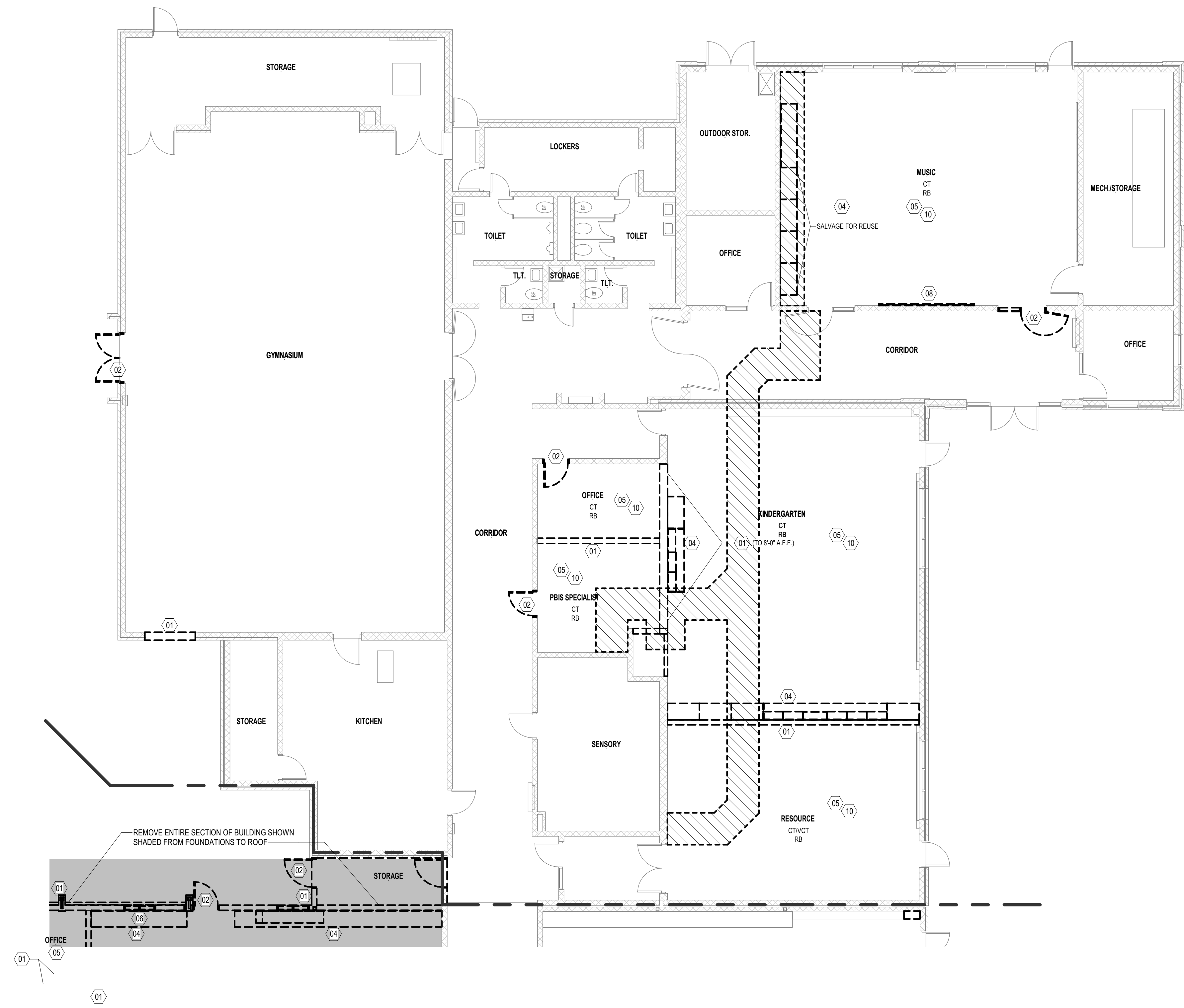
UNIT 'A' FIRST FLOOR DEMOLITION PLAN

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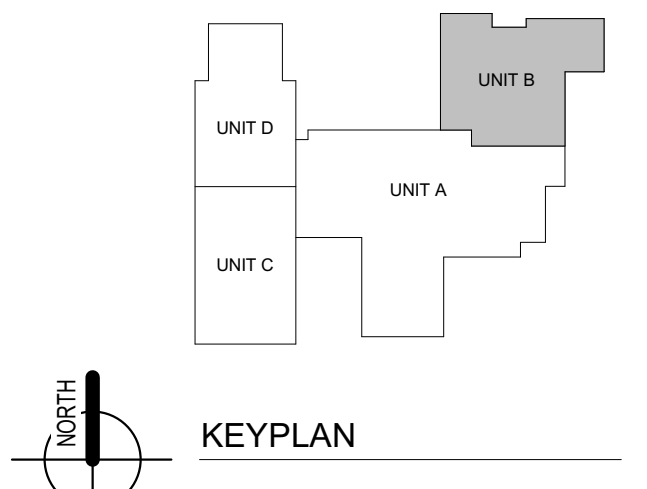
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	DEMOLITION TAG; SEE DEMOLITION NOTES
<u>ROOM NAME</u>	EXISTING ROOM FINISH INFORMATION: ROOM NAME, FLOORING TYPE, CEILING TYPE
<u>FLOOR FINISH</u>	
<u>CEILING FINISH</u>	

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UNIT 'B' FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5798

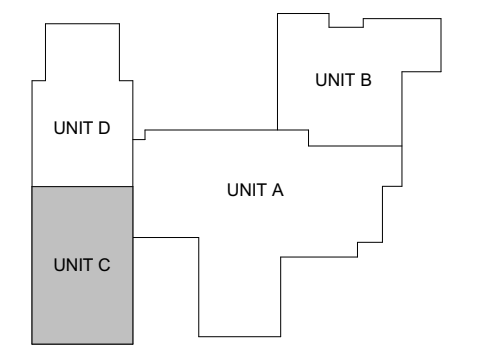
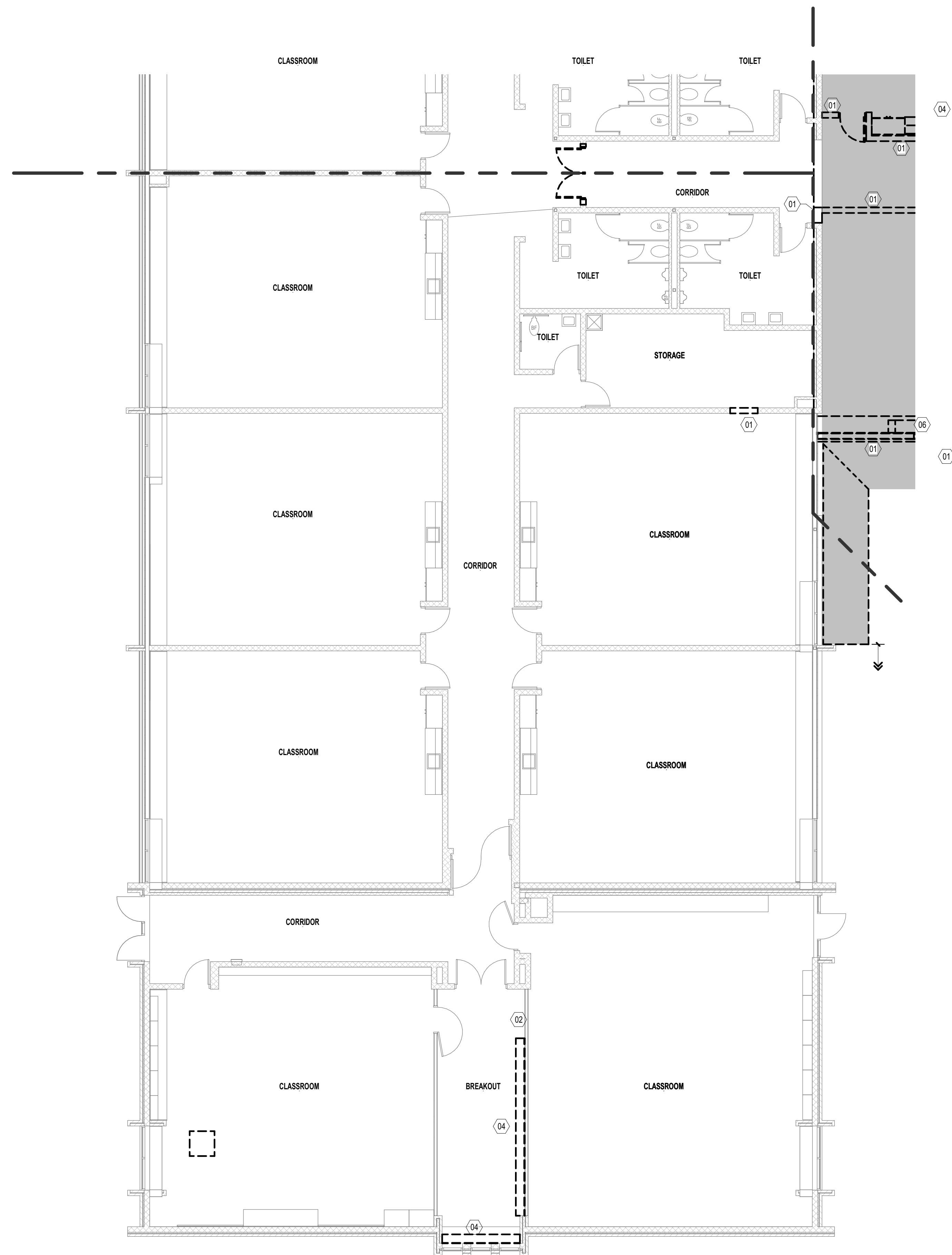
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UNIT 'B' FIRST FLOOR DEMOLITION PLAN
A1.1B

DEMOLITION LEGEND	
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	PORTION OF EXISTING WALL TO BE DEMOLISHED
	EXISTING OBJECT TO BE DEMOLISHED
	AREA OF FLOOR CUTTING
	EXISTING WALLS TO REMAIN
	EXISTING OBJECTS TO REMAIN
	DEMOLITION TAG; SEE DEMOLITION NOTES
	ROOM NAME
	FLOOR FINISH
	CEILING FINISH

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 - 04 REMOVE EXISTING CASEWORK/MILLWORK, COUNTER TOPS & BACK SPLASH. SAVE ITEMS AT OWNER'S REQUEST.
 - 05 REMOVE EXISTING SUSPENDED PLASTER CEILING INCLUDING ALL FRAMING, TILES, TEES, HANGERS & WIRES USED TO SUPPORT THAT CEILING. REPLACE PER REF. CEILING PLANS.
 - 06 SEE MECHANICAL DEMOLITION NOTES FOR REMOVAL OF EXIST. PLUMBING/MECHANICAL (i.e. LAVATORIES, SINKS, WATER CLOSETS, URINALS, P/N TUBE, MECH. DUCTWORK, UNIT VENTS, ETC.)
 - 07 REMOVE EXISTING WINDOW, WINDOW WALL WITH ALUMINUM FRAMING WITH METAL PANELS BELOW WINDOW FRAME, SILL & GLAZING INCLUDING ALL EXISTING WOOD BLOCKING AND FRAMING ABOVE WINDOWS TO ROOF AND/OR MASONRY TIES AT BRICK PIERS AND SIDE WALLS.
 - 08 REMOVE EXISTING EQUIPMENT OR FURNISHINGS SECURED TO FLOOR, WALL OR CEILING AND STORE FOR REUSE BY OWNER.
 - 09 REMOVE EXISTING CHALK, TACK OR WHITE BOARD. REMOVE ALL GLUE RESIDUE, ETC. FROM BLOCK BEHIND BOARD AND PREPARE SURFACE FOR NEW FINISH MATERIALS WHERE REQUIRED.
 - 10 REMOVE EXISTING FLOOR COVERING AND BASE, INCLUDING ALL GLUE RESIDUE, MUDBEDS, ETC. FROM FLOORS & WALLS AND PREPARE SURFACE FOR NEW FINISH MATERIALS, INCLUDING GRINDING, PATCHING AND/OR SELF-LEVELING COMPOUND AS REQUIRED. WALL & FLOOR SURFACE TO RECEIVE NEW FINISH MATERIAL & PATCH TO MATCH EXISTING.
 - 11 REMOVE PORTION OF EXISTING ROOF & STRUCTURE (AS SHOWN ON DEMOLITION PLAN). PROVIDE TEMPORARY WEATHER PROTECTION AS NEEDED AROUND PERIMETER OF ROOF REMOVAL AS REQUIRED. PROVIDE TEMPORARY SHORING & BRACING AS REQUIRED.
 - 12 REMOVE EXISTING TOILET PARTITION, DISPENSERS AND/OR TOILET ACCESSORIES AND REPAIR ADJACENT SURFACES TO RECEIVE NEW FINISHES.
 - 13 REMOVE EXISTING LOCKERS AND LOCKER BASE. CUT SLOPED LOCKER TOP & BASE AS NECESSARY. RE-USE/RELOCATE EXISTING END PANEL AS REQUIRED. RE-USE & PREPARE FOR NEW FINISHES.
 - 14 REMOVE EXISTING MEZZANINE INCLUDING ALL SUPPORT FRAMING, FLOOR DECK, HANGERS AND ALL ADDITIONAL RELATED MATERIALS. REPAIR WALL TO MATCH ADJACENT WALL MATERIALS AND FINISH.
 - 15 REMOVE EXISTING TERRAZZO FLOORING, CONCRETE SLAB AND COVERED BASE. REFER TO ROOM FINISH SCHEDULE FOR NEW FLOORING.
 - 16 REMOVE EXISTING BASKETBALL BACKBOARD AND ALL RELATED HANGERS, FASTENERS AND FRAMING TO STRUCTURE ABOVE.



UNIT 'C' FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

KEYPLAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

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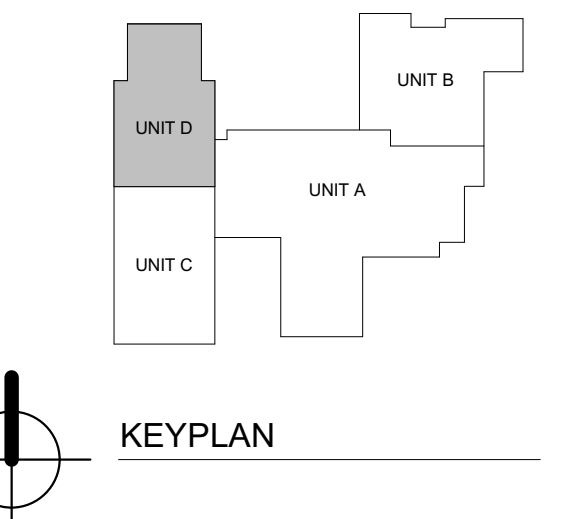
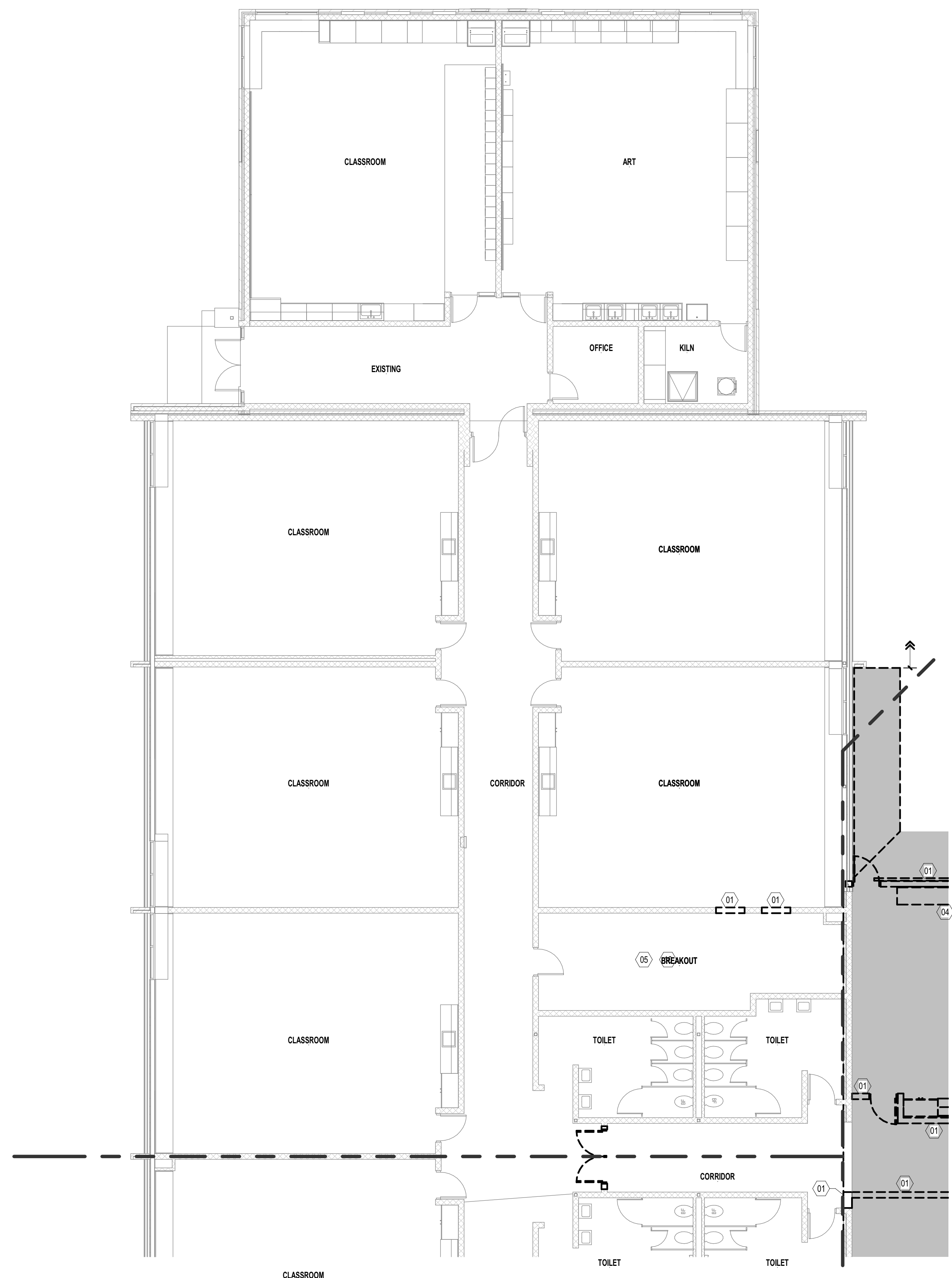
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UNIT 'C' FIRST FLOOR DEMOLITION PLAN

DEMOLITION LEGEND	
	EXISTING WALL TO BE DEMOLISHED
	PORTION OF EXISTING WALL TO BE DEMOLISHED
	EXISTING OBJECT TO BE DEMOLISHED
	AREA OF FLOOR CUTTING
	EXISTING WALLS TO REMAIN
	EXISTING OBJECTS TO REMAIN
	DEMOLITION TAG: SEE DEMOLITION NOTES
	EXISTING ROOM FINISH INFORMATION: ROOM NAME, FLOORING TYPE, CEILING TYPE

DEMOLITION NOTES

- DEMOLITION CONTRACTOR IS TO STOP WORK IMMEDIATELY IN AREA IF ASBESTOS IS ENCOUNTERED. NOTIFY CONSTRUCTION MANAGER OF SUSPECTED AREA SO PROPER ABATEMENT CAN BE DONE. (UNDER A SEPARATE ASBESTOS ABATEMENT CONTRACT AS NEGOTIATED BY OWNER.)
- ALL MASONRY BLOCK AND BRICK WALLS TO BE REMOVED MUST BE TOOTHED TO RECEIVE NEW MASONRY, UNLESS NOTED OTHERWISE ON DRAWINGS.
- DEMOLITION CONTRACTOR IS TO PROVIDE TEMPORARY SHORING AND BRACING FOR EXISTING ROOF/FLOOR STRUCTURE AS REQUIRED. UNTIL PERMANENT WALLS & LINTELS ARE INSTALLED, REFER TO STRUCT. & ARCH. DWGS. FOR BEARING CONDITIONS.
- ALL TRADES ARE TO COORDINATE ANY DEMOLITION, CAPPING OR ABANDONMENT OF EXISTING MECHANICAL, ELECTRICAL, PLUMBING OR ARCHITECTURAL ITEMS.
- ALL ITEMS TO BE SAVED AND/OR RELOCATED ARE TO BE STORED IN A PROPER MANNER SO NO DAMAGE WILL OCCUR TO THESE ITEMS DURING THEIR STORAGE PERIOD.
- ALL DEMOLITION WHICH DAMAGES ADJACENT SURFACES IS TO BE REPAIRED TO MATCH THE EXISTING SURFACE DAMAGED (MATERIALS & FINISHES) AND ALL REPAIR WORK IS TO BE COORDINATED WITH NEW CONSTRUCTION FOR NEW OPENINGS IN EXISTING WALLS. COORDINATE NEW LINTELS W/ MASONRY CONTRACTOR.
- PATCH WALLS & ROOF TO MATCH EXISTING CONSTRUCTION BEHIND REMOVAL OF WALL LOUVERS, EXHAUST FANS, INTAKE HOODS & CABINET HEATERS. VERIFY SEQUENCE OF REMOVAL W/ CONSTRUCTION MANAGER. SEE MECHANICAL AND ELECTRICAL SHOP SHEETS FOR WALL, ROOF & FLOOR OPENINGS TO BE PATCHED.
- ALL TRADES ARE TO COORDINATE THE REMOVAL OF EXISTING LOOSE EQUIPMENT WITH ARCHITECT AND/OR OWNER. ADDITIONAL EQUIPMENT FOUND THAT IS NOT NOTED ON DEMOLITION PLAN SHALL BE REMOVED AS PART OF GENERAL DEMOLITION AFTER VERIFICATION WITH ARCHITECT/OWNER.
- 01 REMOVE EXISTING WALL INCLUDING DOORS, WINDOWS, BORROWED LITES, AND ANY EQUIPMENT OR FURNISHINGS ATTACHED TO WALL OR PORTION OF EXISTING WALL AS SHOWN ON FLOOR PLAN (MIN. 4" BELOW FLOOR SLAB) AND AS REQUIRED FOR NEW CONSTRUCTION. FLOOR SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW FLOOR MATERIAL. WALL SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW WALL FINISH. SEE MECHANICAL & ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS. SUPPORT UNBRACED SECTIONS OF WALL OR ROOF AS REQUIRED.
- 02 REMOVE EXISTING BORROWED LITE OR DOOR & DOOR FRAME. (DOOR LITEL TO REMAIN UNLESS OTHERWISE NOTED ON PLAN. SEE STRUCTURAL FOR ADDITIONAL INFORMATION). WHERE DOOR FRAMES ARE TO REMAIN, PROTECT FRAMES FROM DAMAGE. SAND AND PREP FOR NEW PAINT FINISH UNDER SECTION 09 00 00. SEE DOOR SCHEDULE FOR REQUIRED NEW DOORS AND FRAMES OR ONLY NEW DOORS.
- 03 SAW CUT AND REMOVE FLOOR OR PORTION OF EXISTING FLOOR SLAB AS SHOWN OR DIMENSIONED ON FLOOR PLAN. EXCAVATE, FILL & COMPACT SOIL AS REQUIRED FOR NEW SLAB. COORDINATE WITH MECHANICAL, ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS & LOCATIONS. INSTALL NEW SLAB TO MATCH EXIST. ELEVATION. SEE STRUCTURAL FOR ADDITIONAL INFORMATION REGARDING SLAB REMOVAL.
- 04 REMOVE EXISTING CASEWORK/MILLWORK, COUNTER TOPS & BACK SPLASH. SAVE ITEMS AT OWNER'S REQUEST.
- 05 REMOVE EXISTING SUSPENDED PLASTER CEILING INCLUDING ALL FRAMING, TILES, TEES, HANGERS & WIRES USED TO SUPPORT THAT CEILING. REPLACE PER REF. CEILING PLANS.
- 06 SEE MECHANICAL DEMOLITION NOTES FOR REMOVAL OF EXIST. PLUMBING/MECHANICAL (i.e. LAVATORIES, SINKS, WATER CLOSETS, URINALS, PIN TUBE, MISC. DUCTWORK, UNIT VENTS, ETC.)
- 07 REMOVE EXISTING WINDOW, WINDOW WALL WITH ALUMINUM FRAMING WITH METAL PANELS BELOW WINDOW FRAME, SILL & GLAZING INCLUDING ALL EXISTING WOOD BLOCKING AND FRAMING ABOVE WINDOWS TO ROOF AND/OR MASONRY TIES AT BRICK PIERS AND SIDE WALLS.
- 08 REMOVE EXISTING EQUIPMENT OR FURNISHINGS SECURED TO FLOOR, WALL OR CEILING AND STORE FOR REUSE BY OWNER.
- 09 REMOVE EXISTING CHALK, TACK OR WHITE BOARD. REMOVE ALL GLUE RESIDUE, ETC. FROM BLOCK BEHIND BOARD AND PREPARE SURFACE FOR NEW FINISH MATERIALS WHERE REQUIRED.
- 10 REMOVE EXISTING FLOOR COVERING AND BASE, INCLUDING ALL GLUE RESIDUE, MUDBEDS, ETC. FROM FLOORS & WALLS AND PREPARE SURFACE FOR NEW FINISH MATERIALS, INCLUDING GRINDING, PATCHING AND/OR SELF-LEVELING COMPOUND AS REQUIRED. WALL & FLOOR SURFACE TO RECEIVE NEW FINISH MATERIAL & PATCH TO MATCH EXISTING.
- 11 REMOVE PORTION OF EXISTING ROOF & STRUCTURE (AS SHOWN ON DEMOLITION PLAN), PROVIDE TEMPORARY WEATHER PROTECTION AS NEEDED AROUND PERIMETER OF ROOF REMOVAL AS REQUIRED. PROVIDE TEMPORARY SHORING & BRACING AS REQUIRED.
- 12 REMOVE EXISTING TOILET PARTITION, DISPENSERS AND/OR TOILET ACCESSORIES AND REPAIR ADJACENT SURFACES TO RECEIVE NEW FINISHES.
- 13 REMOVE EXISTING LOCKERS AND LOCKER BASE. CUT SLOPED LOCKER TOP & BASE AS NECESSARY. RE-USE/RELOCATE EXISTING END PANEL AS REQUIRED. REVISE & PREPARE FOR NEW FINISHES.
- 14 REMOVE EXISTING KEELING IN INCLUDING ALL SUPPORT FRAMING, FLOOR DECK, HANGERS AND ALL ADDITIONAL RELATED MATERIALS. REPAIR WALL TO MATCH ADJACENT WALL MATERIALS AND FINISH.
- 15 REMOVE EXISTING TERRAZZO FLOORING, CONCRETE SLAB AND COYD BASE. REFER TO ROOM FINISH SCHEDULE FOR NEW FLOORING.
- 16 REMOVE EXISTING BASKETBALL BACKBOARD AND ALL RELATED HANGERS, FASTENERS AND FRAMING TO STRUCTURE ABOVE.



UNIT 'D' FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
 HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5798

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UNIT 'D' FIRST FLOOR DEMOLITION PLAN

A1.1D

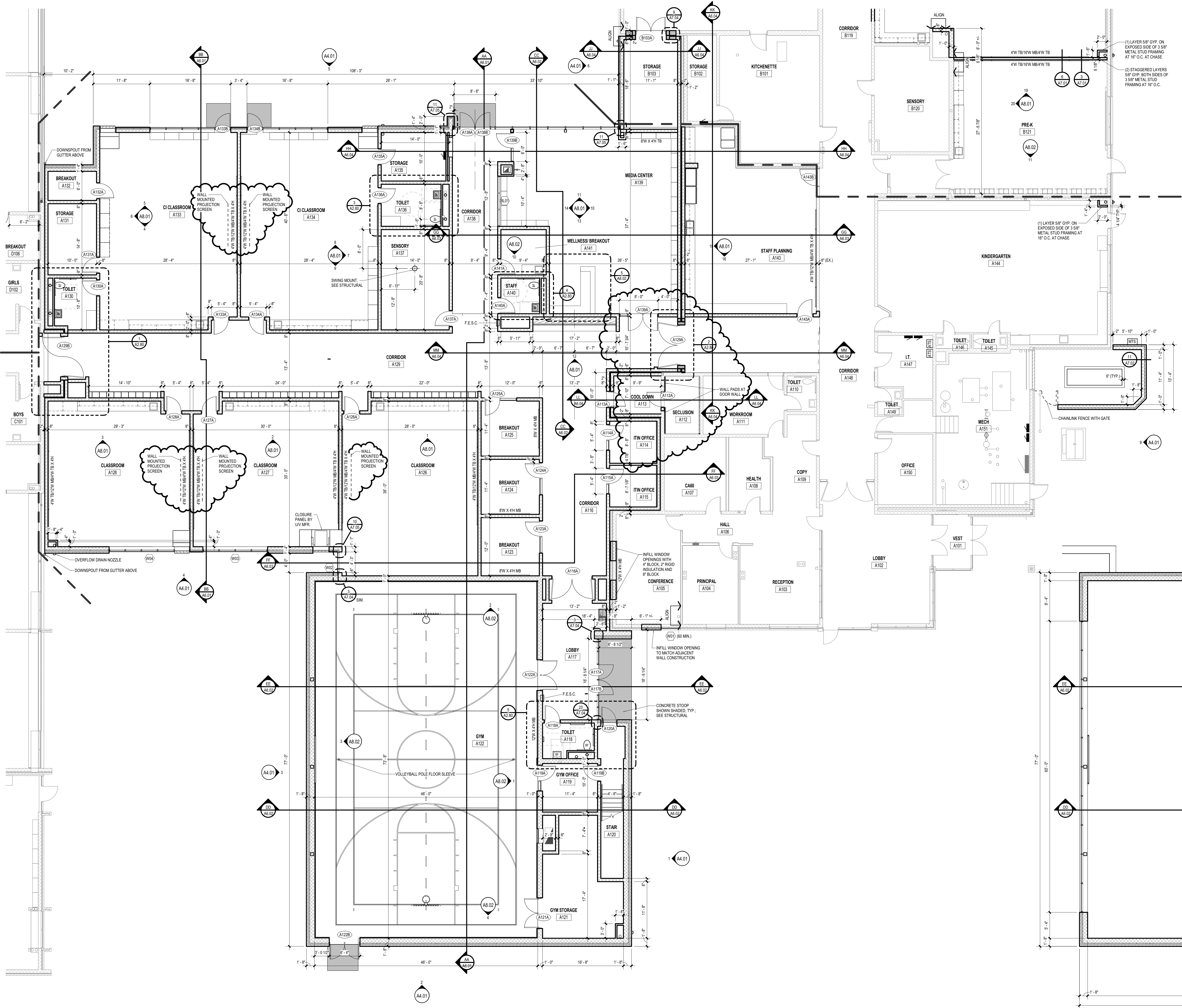
GENERAL FLOOR PLAN NOTES:

- DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.
- REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.
- INTERIOR STUD WALLS ARE TO USE 3/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
- TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE.
- SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (EVERY RECESS REQUIRED BY MFR.)
- EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.
- REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINETS, FRAMES, STRUCTURAL ITEMS, ETC.
- PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILING TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR / SITE SUPERVISOR.
- COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS. DRAW LEADERS: FRAMES, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- ALL GUARDRAILS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2015 I.B.C. AND ICC A117.1-2009 & AMENDMENTS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
- PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE G0101 FOR REQUIREMENTS.
- FOR ALL CABINETS, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
- ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE - UNLESS NOTED OTHERWISE.
- CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW CONSTRUCTION. TYPICAL THROUGHOUT.
- SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
- WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR UNITS CONDITIONS PER SPECIFICATIONS.
- WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASERWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SAID PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING. AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT.
- SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS:
 - A. ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48
 - B. ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48
 - C. ALL INTERIOR NON-BEARING WALLS OVER 10'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48

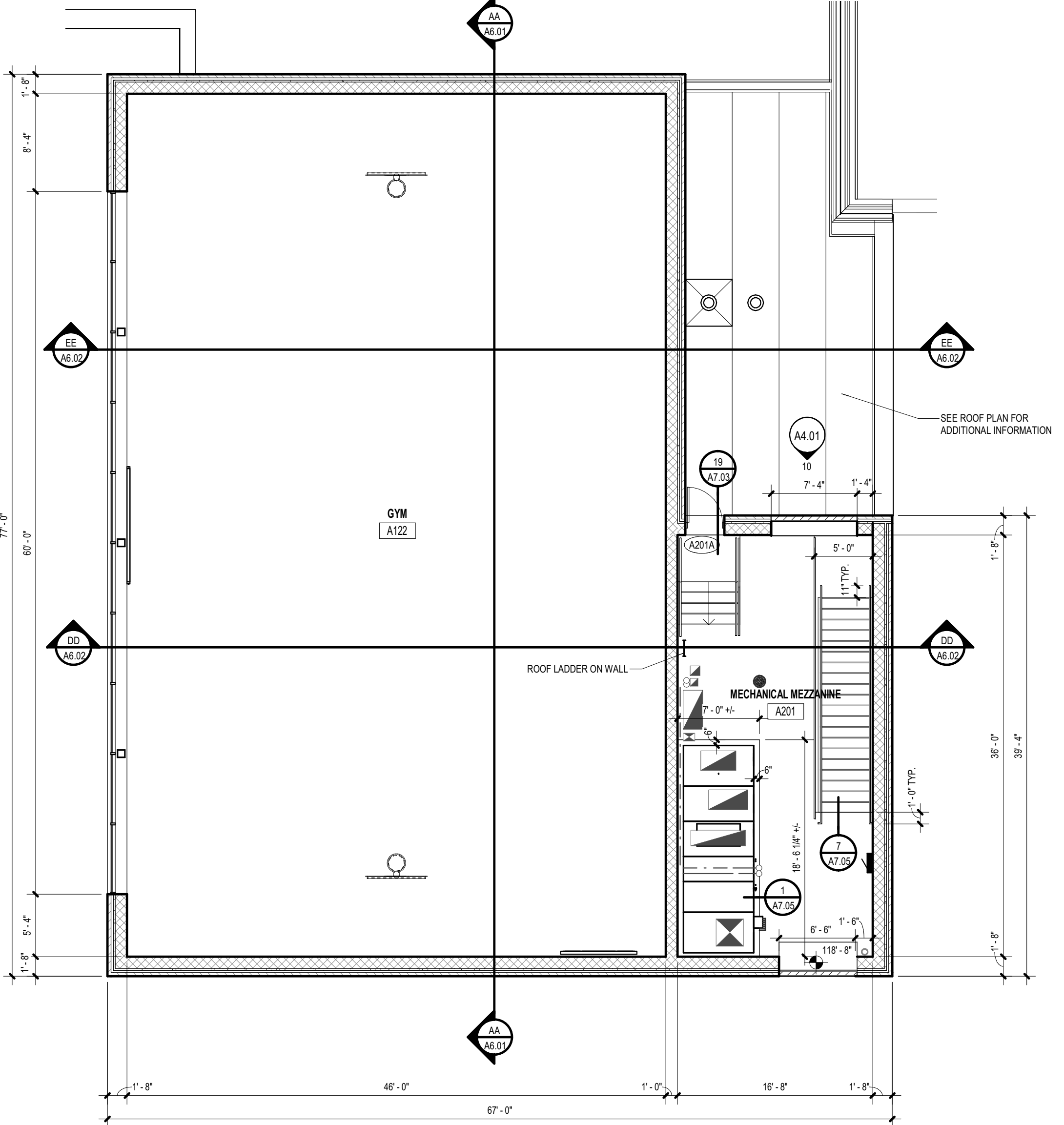
WALL LEGEND

	8" GYP. BOARD BOTH SIDES 3/8" LIGHT GA. METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL. WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE.
	6" GYP. BOARD BOTH SIDES 6" LIGHT GA. METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL. WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE.
	CMU WALL SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN (8" TYPICAL U.L.O.)
	BRICK AND CMU WALL W/ 2" SPRAY APPLIED INSULATION SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN. SEE WALL SECTIONS FOR ADDITIONAL DETAILS. BANKING, ETC. (8" BRICK & 8" CMU TYPICAL U.L.O.)
	CONCRETE WALL SEE STRUCTURAL PLANS FOR REQUIRED REINFORCING.

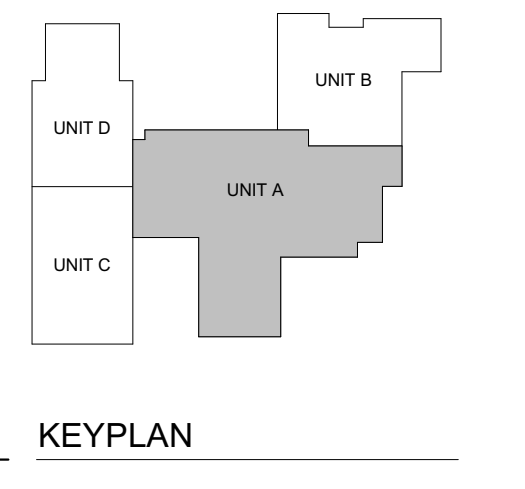
*FIRE RATINGS AS CALLED FOR ON CODE COMPLIANCE PLAN
DIMENSIONS GIVEN ARE TO THE FINISHED FACE OF CMU OR GYPSUM WALL BOARD UNLESS NOTED OTHERWISE.



UNIT 'A' FIRST FLOOR PLAN
1/8" = 1'-0"



UNIT 'A' GYM MEZZANINE PLAN
1/8" = 1'-0"



KEYPLAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION
04.18.2023 ADDENDUM 01

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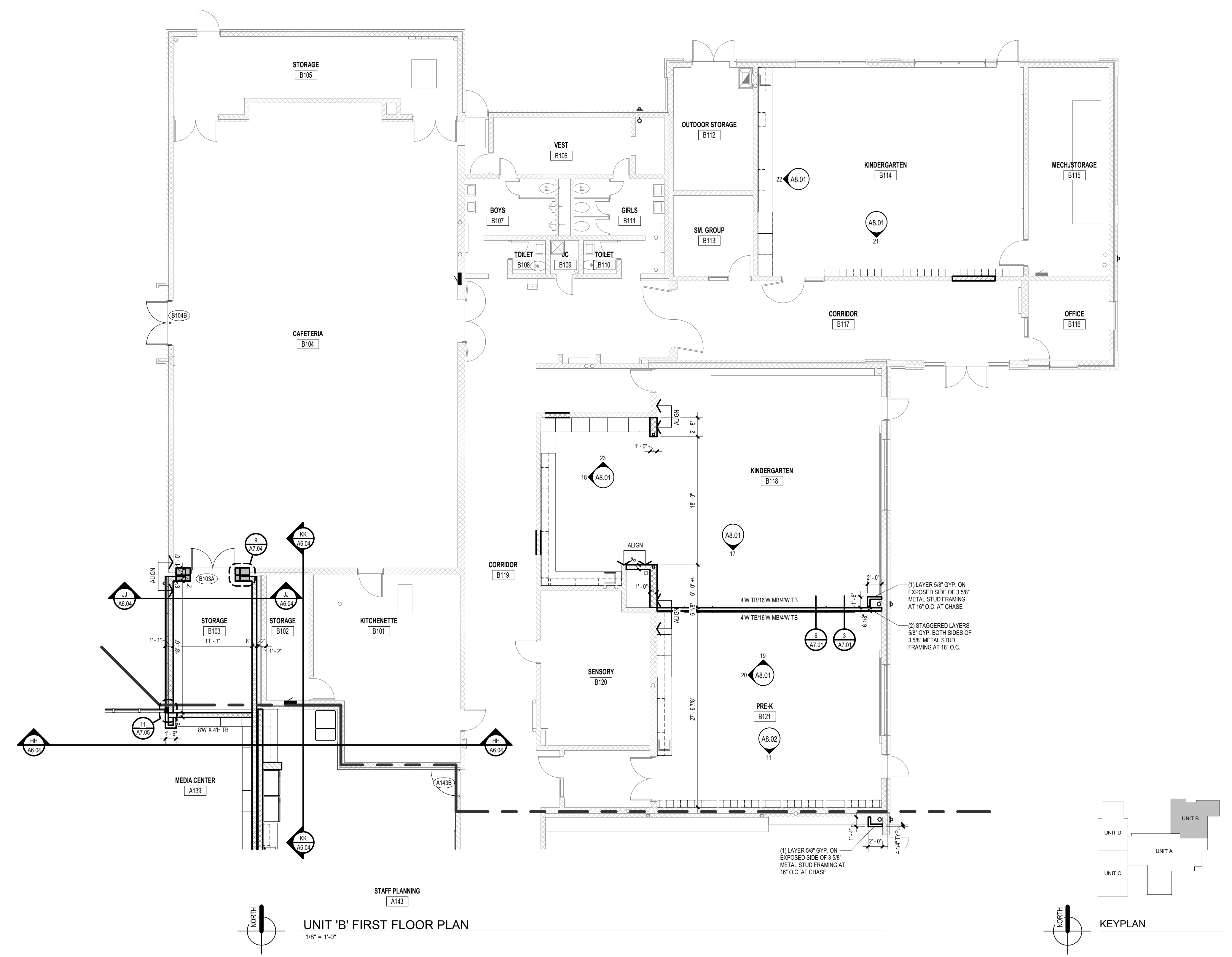
UNIT 'A' FIRST FLOOR AND GYM MEZZANINE PLANS

WALL LEGEND	
	8" GYP BOARD BOTH SIDES 3/8" LIGHT GA METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL. WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE.
	5/8" GYP BOARD BOTH SIDES 1/2" LIGHT GA METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL. WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE.
	CMU WALL SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN (8" TYPICAL U.N.O.)
	BRICK AND CMU WALL W/ 2" SPRAY APPLIED INSULATION SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN. SEE WALL SECTIONS FOR ADDITIONAL DETAILS. BRICKING, ETC. (8" BRICK & 8" CMU TYPICAL U.N.O.)
	CONCRETE WALL SEE STRUCTURAL PLANS FOR REQUIRED REINFORCING.

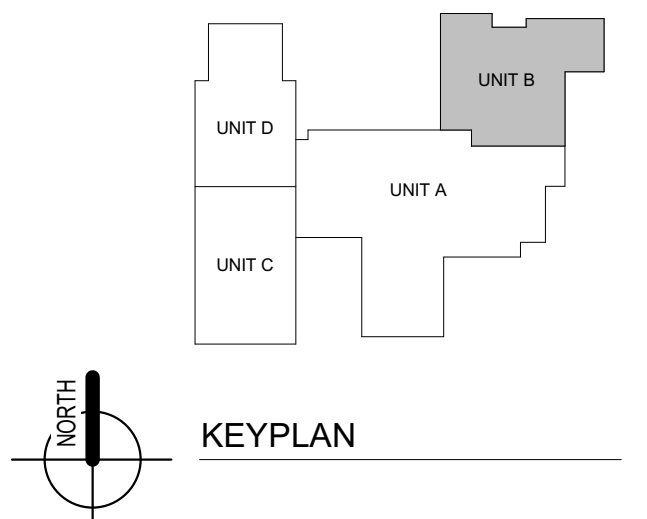
FIRE RATINGS AS CALLED FOR ON CODE COMPLIANCE PLAN
DIMENSIONS GIVEN ARE TO THE FINISHED FACE OF CMU OR GYPSUM WALL BOARD UNLESS NOTED OTHERWISE.

GENERAL FLOOR PLAN NOTES:

- DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.
- REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.
- INTERIOR STUD WALLS ARE TO USE 3/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
- TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE.
- SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.)
- EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.
- REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINETRY, FRAMES, STRUCTURAL ITEMS, ETC.
- PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR SITE SUPERVISOR.
- COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LEADERS, PIPING, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- ALL GUARDRAILS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2015 I.B.C., ANSI ICC A117.1-2009 & AMERICANS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
- PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE 06.01 FOR REQUIREMENTS.
- FOR ALL CABINETRY: SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
- ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE. UNLESS NOTED OTHERWISE.
- CONTRACTOR TO MAINTAIN/REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION/NEW CONSTRUCTION. TYPICAL THROUGHOUT.
- SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
- WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR LINTEL CONDITIONS PER SPECIFICATIONS.
- WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASEWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SAID PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING. AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT.
- SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING (FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS):
 - A. ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-48.
 - B. ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-48.
 - C. ALL INTERIOR NON-BEARING WALLS OVER 16'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-48.



UNIT 'B' FIRST FLOOR PLAN
1/8" = 1'-0"



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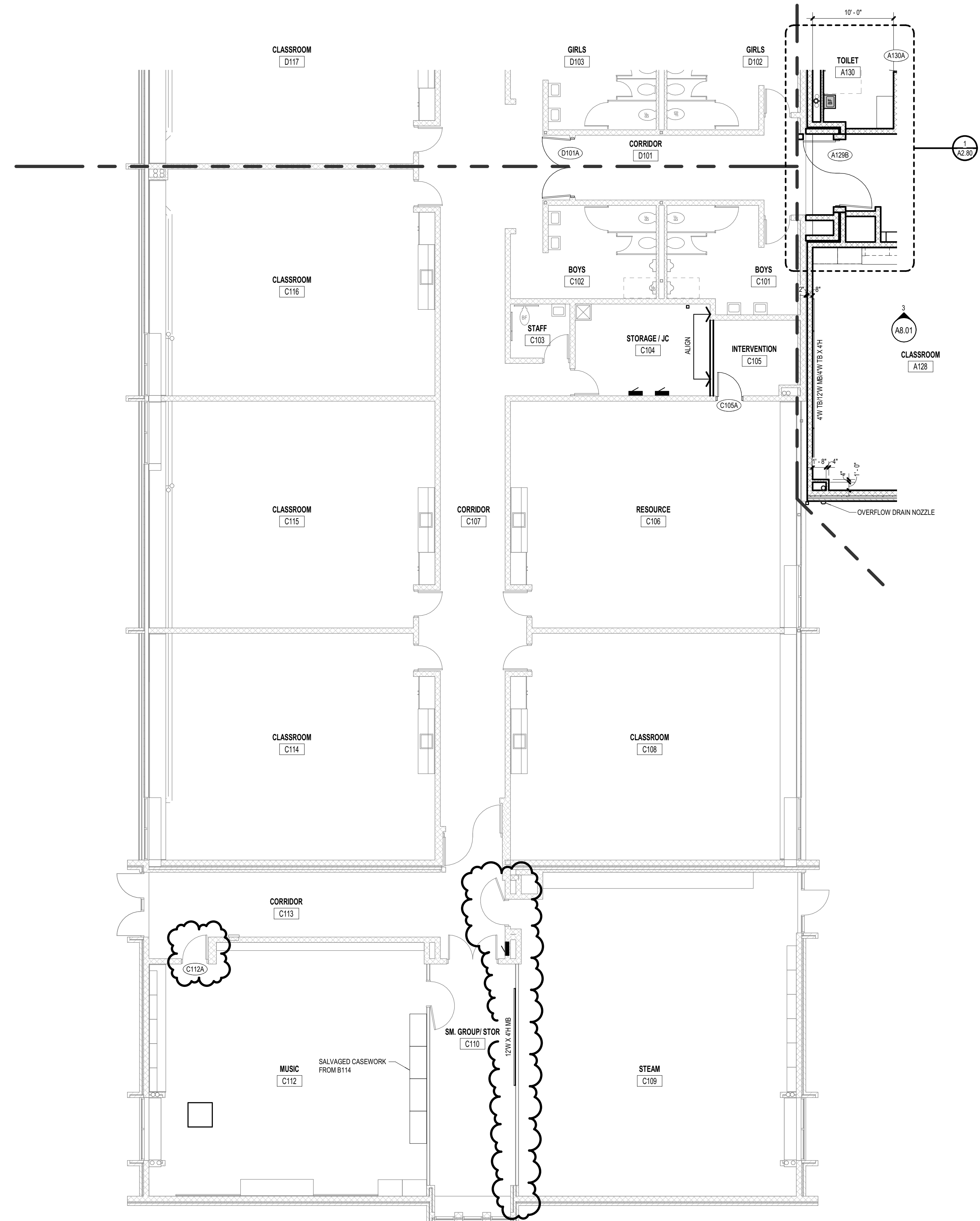
UNIT 'B' FIRST FLOOR PLAN

WALL LEGEND	
	1/2" GYP BOARD BOTH SIDES 3/4" LIGHT GA. METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE
	5/8" GYP BOARD BOTH SIDES 1" LIGHT GA. METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE
	CMU WALL SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN (IF TYPICAL U.N.O.)
	BRICK AND CMU WALL W/ 2" SPRAY APPLIED INSULATION SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN. SEE WALL SECTIONS FOR ADDITIONAL DETAILS BANDING, ETC. (3/8" BRICK & 8" CMU TYPICAL U.N.O.)
	CONCRETE WALL SEE STRUCTURAL PLANS FOR REQUIRED REINFORCING.

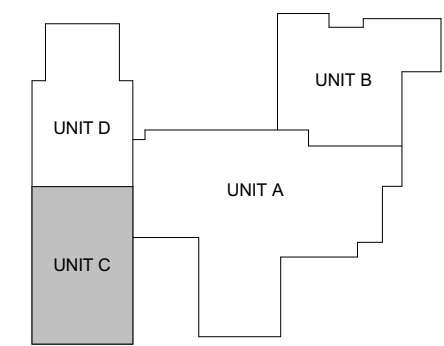
*FIRE RATINGS AS CALLED FOR ON CODE COMPLIANCE PLAN
DIMENSIONS GIVEN ARE TO THE FINISHED FACE OF CMU OR GYPSUM WALL BOARD UNLESS NOTED OTHERWISE

GENERAL FLOOR PLAN NOTES:

- DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.
- REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.
- INTERIOR STUD WALLS ARE TO USE 3/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
- TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE.
- SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.)
- EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.
- REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOODING, ETC.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINERY, FRAMES, STRUCTURAL ITEMS, ETC.
- PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR / SITE SUPERVISOR.
- COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LEADERS, PIPING, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- ALL GUARDRAILS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2015 I.B.C., AND ICC A111.1-2009 & AMERICANS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
- PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE 02.01 FOR REQUIREMENTS.
- FOR ALL CABINERY, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
- ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE - UNLESS NOTED OTHERWISE.
- CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW CONSTRUCTION. TYPICAL THROUGHOUT.
- SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
- WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR UNITS CONDITIONS PER SPECIFICATIONS.
- WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASEWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SAID PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING. AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT.
- SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS.
 - A. ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-48.
 - B. ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-48.
 - C. ALL INTERIOR NON-BEARING WALLS OVER 16' HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-48.



UNIT 'C' FIRST FLOOR PLAN
1/8" = 1'-0"



KEYPLAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION
04.18.2023 ADDENDUM 01

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PROJECT NO. 5-5798

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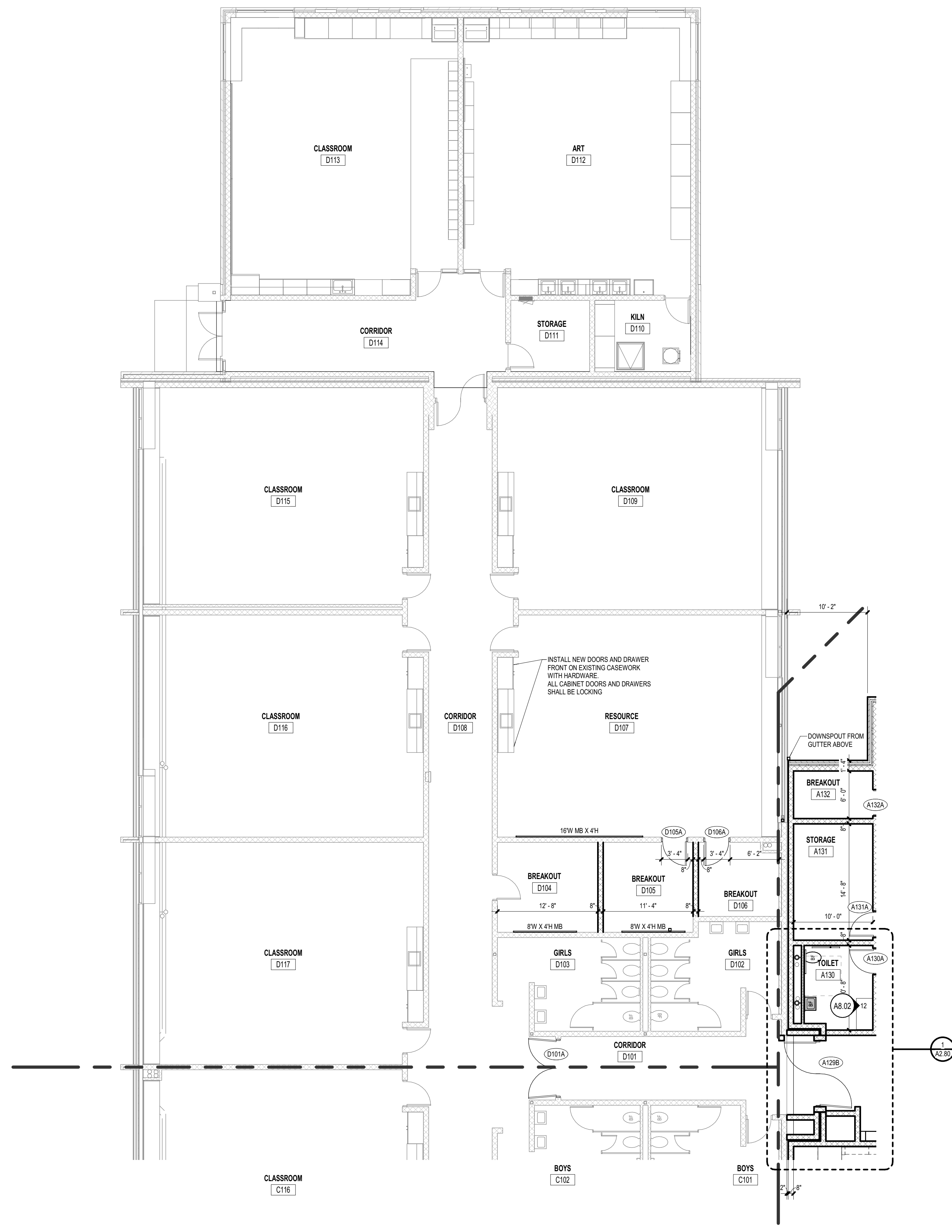
UNIT 'C' FIRST FLOOR PLAN

WALL LEGEND	
	5/8" OYP BOARD BOTH SIDES 3/8" LIGHT GA METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE
	5/8" OYP BOARD BOTH SIDES 1/2" LIGHT GA METAL FRAMING AT 16" O.C. SOUND BATT FULL HEIGHT OF WALL WALLS TO BOTTOM OF DECK UNLESS NOTED OTHERWISE
	CMU WALL SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN (8" TYPICAL U.N.O.)
	BRICK AND CMU WALL W/ 2" SPRAY APPLIED INSULATION SEE FLOOR PLANS FOR REQUIRED WALL REINFORCING. NOMINAL DIMENSIONS GIVEN. SEE WALL SECTIONS FOR ADDITIONAL DETAILS. BANKING ETC. (3 5/8" BRICK & 8" CMU TYPICAL U.N.O.)
	CONCRETE WALL SEE STRUCTURAL PLANS FOR REQUIRED REINFORCING.

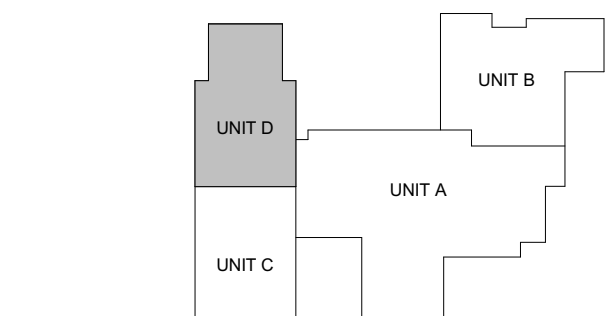
FIRE RATINGS AS CALLED FOR ON CODE COMPLIANCE PLAN
DIMENSIONS GIVEN ARE TO THE FINISHED FACE OF CMU OR GYPSUM WALL BOARD UNLESS NOTED OTHERWISE

GENERAL FLOOR PLAN NOTES:

- DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS
- REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION
- INTERIOR STUD WALLS ARE TO USE 3 5/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED
- TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE
- SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TLE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.)
- EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE
- REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINERY, FRAMES, STRUCTURAL ITEMS, ETC.
- PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR, SITE SUPERVISOR.
- COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LEADERS, PIPING, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- ALL GUARDRAILS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2019 I.B.C. AND ICC A117-1-2009 & AMERICANS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
- PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE G0 01 FOR REQUIREMENTS.
- FOR ALL CABINERY, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
- ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE - UNLESS NOTED OTHERWISE.
- CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW CONSTRUCTION. TYPICAL THROUGHOUT.
- SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
- WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR LITELLS CONDITIONS PER SPECIFICATIONS.
- WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASEWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SAID PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING. AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT.
- SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING (FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS):
 - ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-4#.
 - ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-4#.
 - ALL INTERIOR NON-BEARING WALLS OVER 16'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-S-4#.



UNIT 'D' FIRST FLOOR PLAN
1/8" = 1'-0"



ISSUANCES
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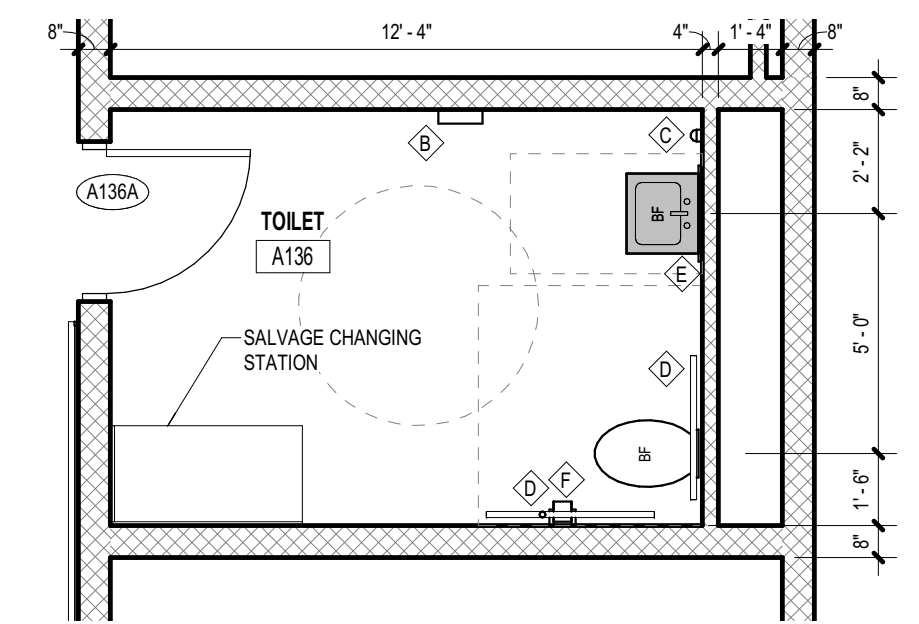
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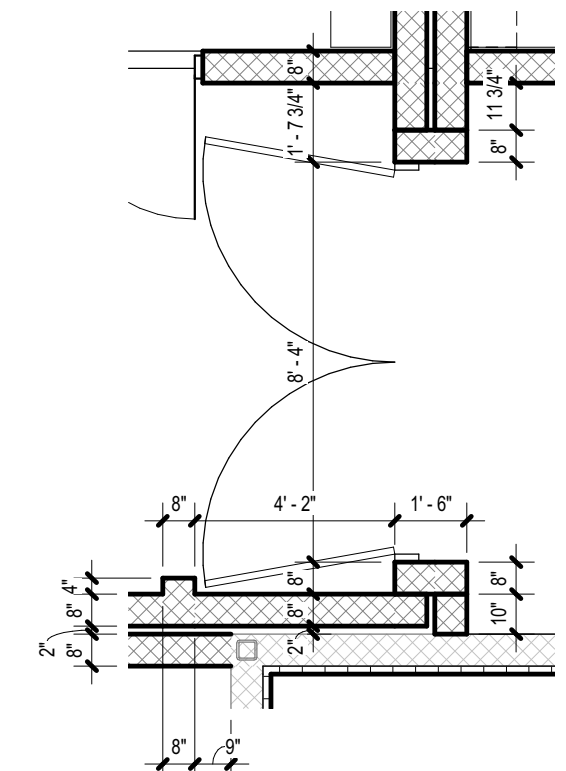
UNIT 'D' FIRST FLOOR PLAN

TOILET ACCESSORIES LEGEND (SEE SHEET 06.01 FOR MOUNTING HEIGHTS) (SEE SPEC)	
⊕ ELECTRIC HAND DRYER	⊕ NAPKIN DISPOSAL (RECESSED)
⊕ PAPER TOWEL DISPENSER*	⊕ NAPKIN DISPOSAL (WALL MOUNTED)
⊕ SOAP DISPENSER*	⊕ BABY CHANGING STATION
⊕ BARRIER FREE GRAB BARS	⊕ 24" x 60" FRAMED GLASS MIRROR
⊕ 24" x 36" FRAMED GLASS MIRROR	⊕ TOILET PAPER DISPENSER*

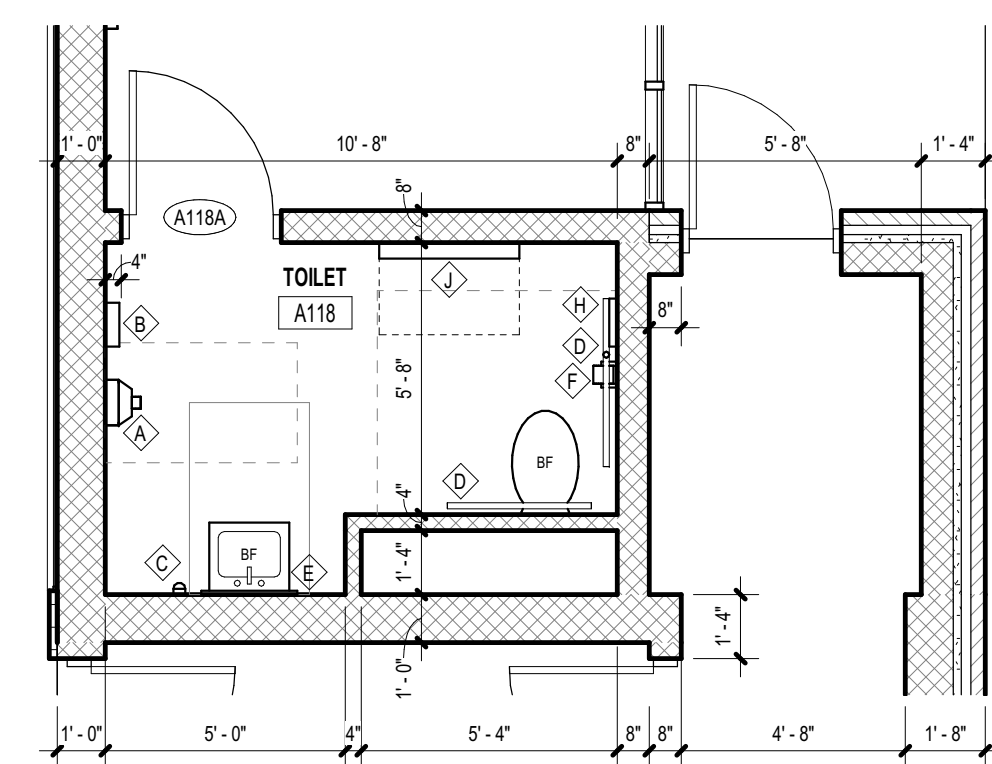
* PROVIDED BY OWNER, INSTALLED BY CONTRACTOR



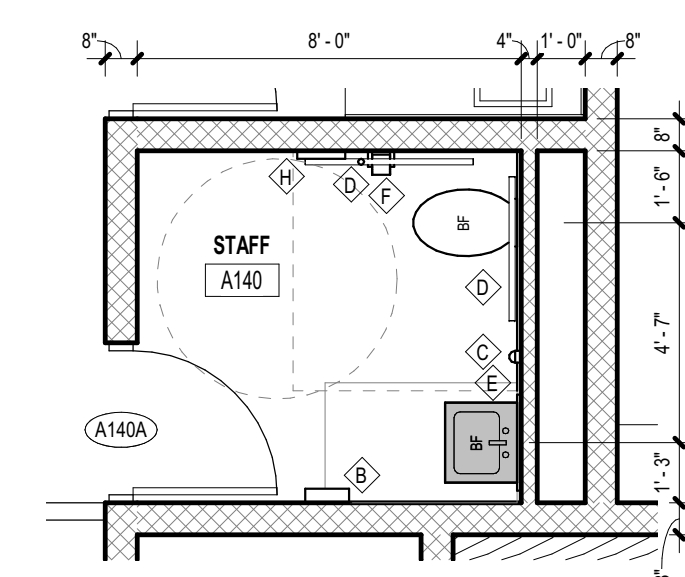
3 TOILET A136
A2.80 14' x 1'-0"



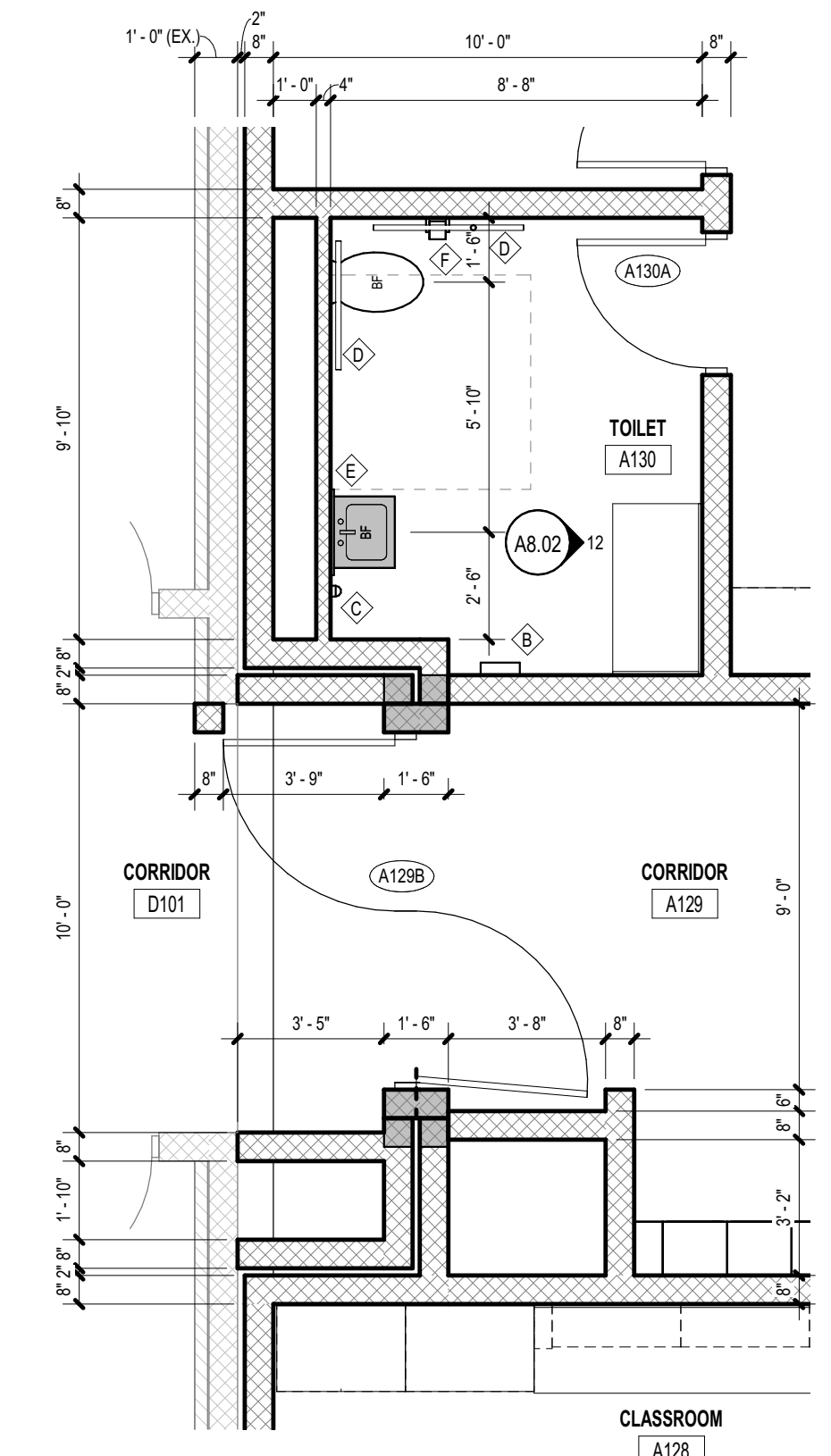
2 PORTAL FRAME A129A
A2.80 14' x 1'-0"



5 TOILET A118
A2.80 14' x 1'-0"



4 STAFF A140
A2.80 14' x 1'-0"



1 TOILET A130 & PORTAL FRAME A129B
A2.80 14' x 1'-0"

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ENLARGED PLANS

A2.80

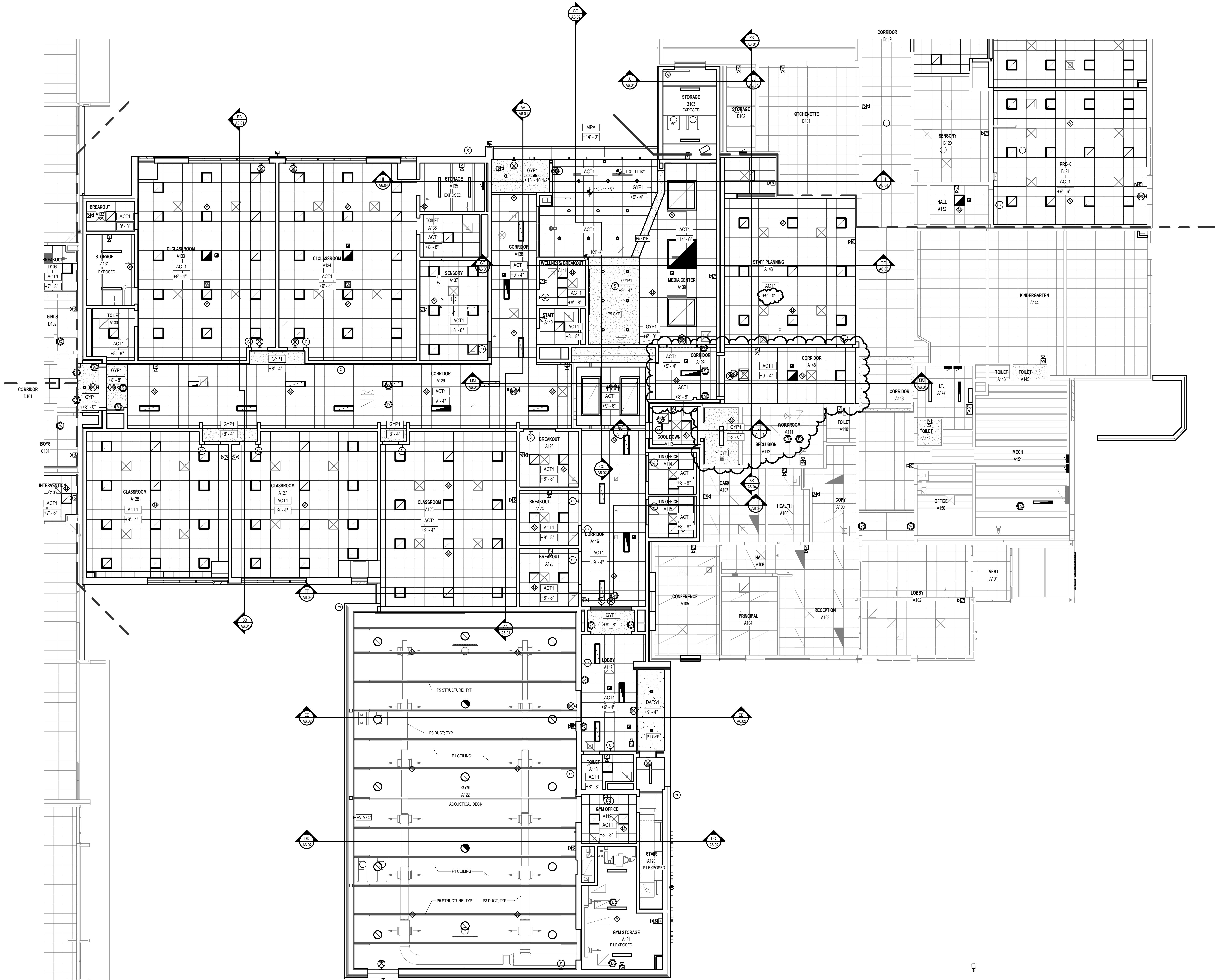
GENERAL REFLECTED CEILING NOTES:

- A. CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
- B. CEILING TILE TYPE AS SPECIFIED; CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
- C. WIRE CEILING SYSTEM FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS, CEILING DIFFUSERS, AND OTHER DEVICES. WIRING TO METAL DECK IS STRICTLY PROHIBITED.
- D. UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2'-0" x 2'-0" @ 2'-0" x 2'-0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.
- E. PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.
- F. MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
- G. PROVIDE 2'-0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.
- H. PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
- I. REFER TO THE MECHANICAL DRAWINGS FOR LOWERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
- J. ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS - COORDINATE CHANGES WITH ARCHITECT & AFFECTED DISCIPLINES.
- K. SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING LAYOUT.

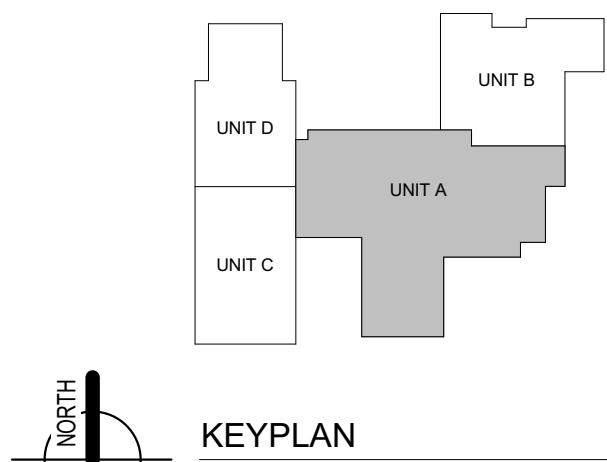
REFLECTED CEILING LEGEND

ACT1	CEILING TYPE	CEILING TAG
+10'-0"	HEIGHT ABOVE FINISH FLOOR	
ACT1	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING 24" X 24" SUPPORT: SUSPENSION SYSTEM	
ACT2	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING 48" X 24" SUPPORT: SUSPENSION SYSTEM	
DAFS1	DIRECT APPLIED FINISH SYSTEM C.J. SPACED 30" O.C. MAX. UNLESS SHOWN OTHERWISE SUPPORT: SEE DETAILS	
DGC1	DECORATIVE GRID CEILING SYSTEM GRID SPACING 24" X 24" SUPPORT: SUSPENSION SYSTEM	
DGC2	DECORATIVE GRID CEILING SYSTEM GRID SPACING 48" X 48" SUPPORT: SUSPENSION SYSTEM	
GCT1	GYPSUM CEILING TILE SYSTEM GRID SPACING 24" X 24" SUPPORT: SUSPENSION SYSTEM	
GCT2	SUSPENDED GYPSUM CEILING TILE SYSTEM GRID SPACING 48" X 24" SUPPORT: SUSPENSION SYSTEM	
GYP1	GYPSUM BOARD CEILING OR BULKHEAD GRID SPACING 24" X 24" SUPPORT: SUSPENSION SYSTEM OR METAL STUD FRAMING PAINT: P1 UNLESS NOTED OTHERWISE	
MFA	METAL PANEL 'W' SOFFIT	
PDP1	ACOUSTICAL PYRAMIDAL CEILING DIFFUSER GRID SPACING 24" X 24" SUPPORT: SUSPENSION SYSTEM	
C.J.	CONTROL JOINT	
E.J.	EXPANSION JOINT	
	CUT TILE	
	RECESSED LIGHT FIXTURE	
	SURFACE / PENDANT MOUNT LIGHT FIXTURE	
	MECHANICAL SUPPLY DIFFUSER / RETURN GRILLE / EXHAUST GRILLE / LINEAR SLOT DIFFUSER	
	EXIT SIGN (CEILING OR WALL-MOUNTED)	
	ELECTRICAL DEVICES (CEILING OR WALL-MOUNTED)	

NOTE: REFER TO STRUCTURAL, PLUMBING/FIRE PROTECTION, MECHANICAL AND ELECTRICAL/TELEPHONY FOR MORE DETAILED SYMBOL LEGENDS. SHOWN FOR GENERAL COORDINATION. NOT ALL SYMBOLS ARE INDICATED. NOTIFY ARCHITECT OF ANY/ALL DISCREPANCIES.



UNIT 'A' FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
 HUDSONVILLE PUBLIC SCHOOLS
 HUDSONVILLE, MICHIGAN

ISSUANCES
 03.23.2023 BIDS & CONSTRUCTION
 04.18.2023 ADDENDUM 001

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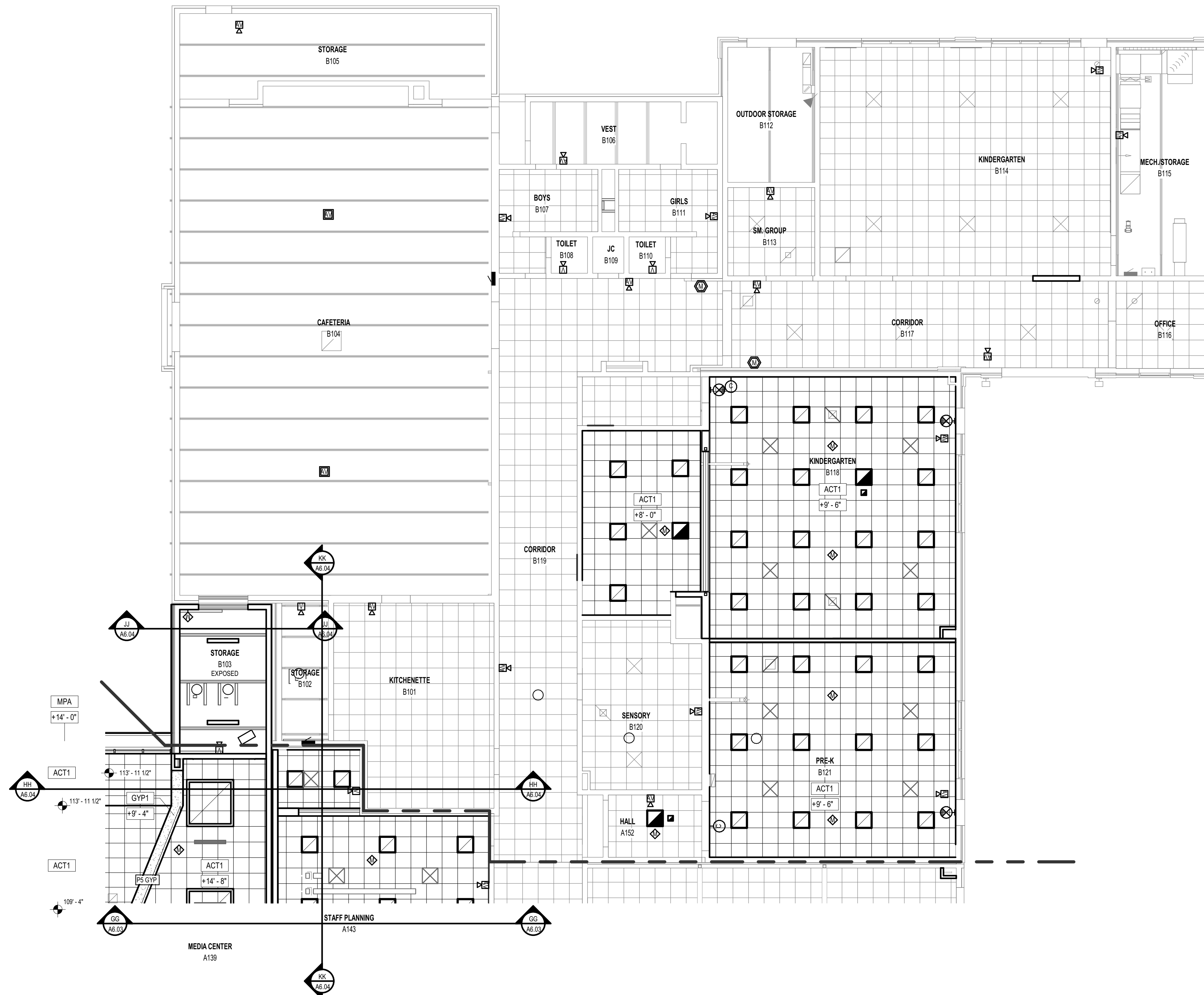
UNIT 'A' FIRST FLOOR
 REFLECTED CEILING PLAN

A3.1A

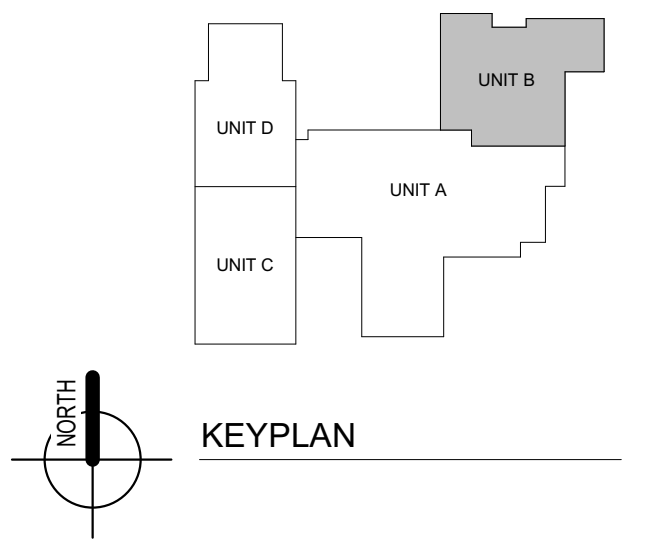
- GENERAL REFLECTED CEILING NOTES:**
- CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
 - CEILING TILE TYPE AS SPECIFIED. CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
 - WIRE CEILING SYSTEM FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS, CEILING DIFFUSERS, AND OTHER DEVICES WIRING TO METAL DECK IS STRICTLY PROHIBITED.
 - UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2'-0" x 2'-0" OR 2'-0" x 4'-0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.
 - PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.
 - MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A GRID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
 - PROVIDE 2'-0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.
 - PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
 - REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
 - ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS - COORDINATE CHANGES WITH ARCHITECT & AFFECTED DISCIPLINES.
 - SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING LAYOUT.

REFLECTED CEILING LEGEND	
ACT1	CEILING TYPE
+10'-0"	HEIGHT ABOVE FINISH FLOOR
ACT1	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING: 24" X 24" SUPPORT: SUSPENSION SYSTEM
ACT2	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM
DAFS1	DIRECT-APPLIED FINISH SYSTEM C.J. SPACED 36" - 0" O.C. MAX. UNLESS SHOWN OTHERWISE SUPPORT: SEE DETAILS
DGC1	DECORATIVE GRID CEILING SYSTEM GRID SPACING: 24" X 24" SUPPORT: SUSPENSION SYSTEM
DGC2	DECORATIVE GRID CEILING SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM
GCT1	GYPSUM CEILING TILE SYSTEM GRID SPACING: 24" X 24" SUPPORT: SUSPENSION SYSTEM
GCT2	SUSPENDED GYPSUM CEILING TILE SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM
GYP1	GYPSUM BOARD CEILING OR BULKHEAD C.J. SPACED 36" - 0" O.C. MAX. UNLESS SHOWN OTHERWISE SUPPORT: SUSPENSION SYSTEM OR METAL STUD FRAMING PAINT: "P" UNLESS NOTED OTHERWISE
MFA	METAL PANEL 'X' SCOFFIT
PDP1	ACOUSTICAL PYRAMIDAL CEILING DIFFUSER GRID SPACING: 24" X 24" SUPPORT: SUSPENSION SYSTEM
C.J.	CONTROL JOINT
E.J.	EXPANSION JOINT
(Symbol)	CUT TILE
(Symbol)	RECESSED LIGHT FIXTURE
(Symbol)	SURFACE / PENDANT MOUNT LIGHT FIXTURE
(Symbol)	MECHANICAL SUPPLY DIFFUSER / RETURN GRILLE / EXHAUST GRILLE / LINEAR SLOT DIFFUSER
(Symbol)	EXIT SIGN (CEILING OR WALL-MOUNTED)
(Symbol)	ELECTRICAL DEVICES (CEILING OR WALL-MOUNTED)

NOTE: REFER TO STRUCTURAL, PLUMBING/FIRE PROTECTION, MECHANICAL, AND ELECTRICAL/TECHNOLOGY FOR MORE DETAILED SYMBOL LEGENDS. SHOWN FOR GENERAL COORDINATION. NOT ALL SYMBOLS ARE INDICATED. NOTIFY ARCHITECT OF ANY/ALL DISCREPANCIES.



UNIT 'B' FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

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PROJECT NO. 5-5798

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UNIT 'B' FIRST FLOOR REFLECTED CEILING PLAN

A3.1B

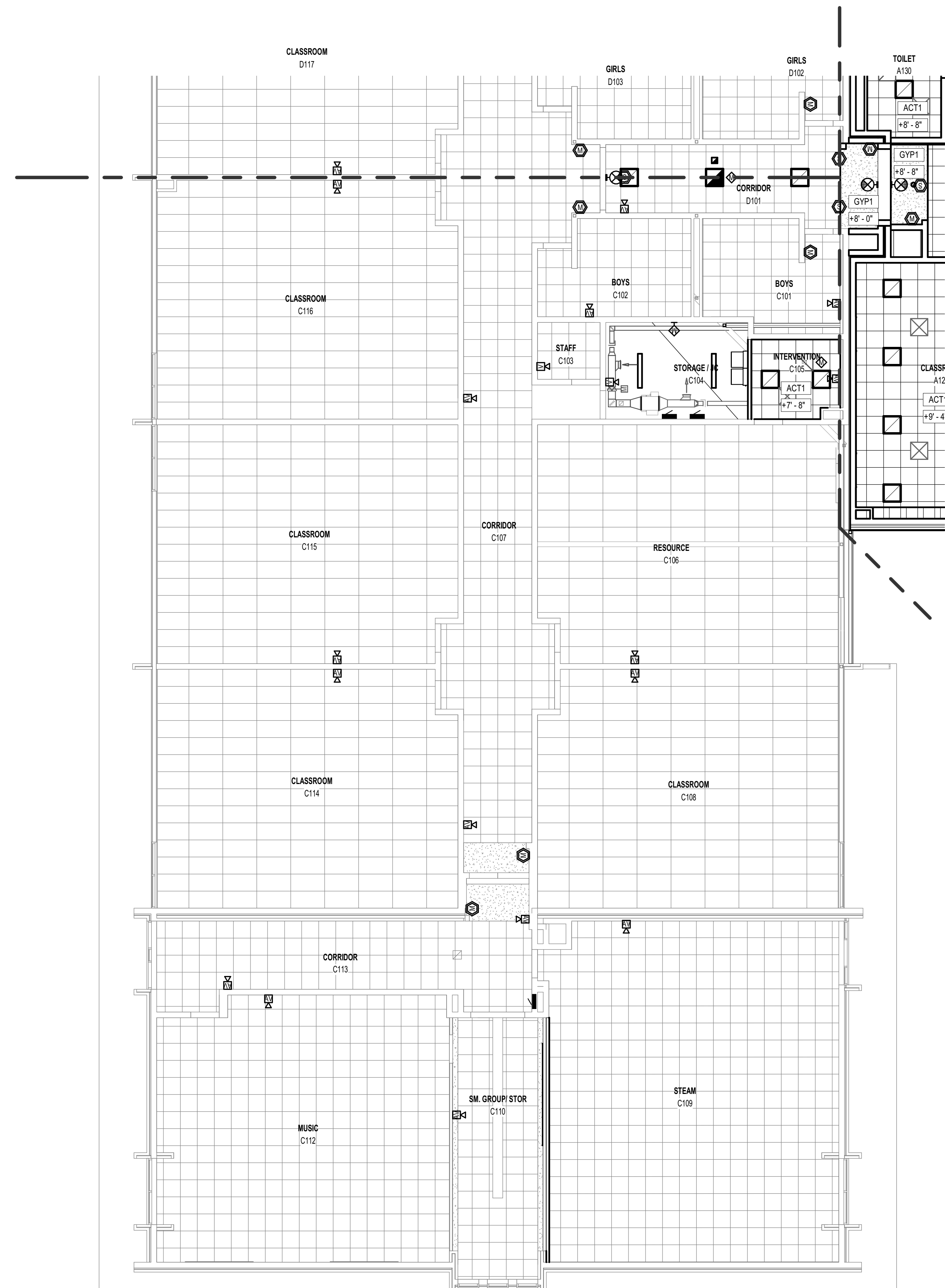
GENERAL REFLECTED CEILING NOTES:

- A. CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
- B. CEILING TILE TYPE AS SPECIFIED. CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
- C. WIRE CEILING SYSTEM FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS, CEILING DIFFUSERS, AND OTHER DEVICES. **WIRING TO METAL DECK IS STRICTLY PROHIBITED.**
- D. UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL, TEE AND ACOUSTICAL TILE 2'-0" x 2'-0" OR 2'-0" x 1'-0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.
- E. PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.
- F. MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
- G. PROVIDE 2'-0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.
- H. PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
- I. REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
- J. ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS - COORDINATE CHANGES WITH ARCHITECT & AFFECTED DISCIPLINES.
- K. SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING LAYOUT.

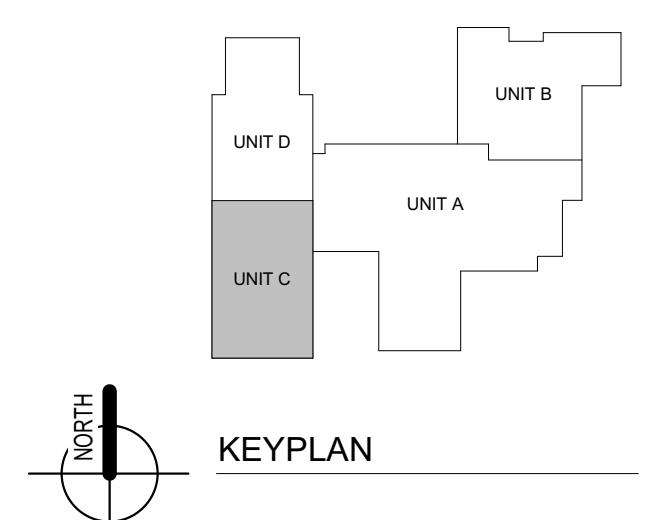
REFLECTED CEILING LEGEND

ACT1	CEILING TYPE	CEILING TAG
+10'-0"	HEIGHT ABOVE FINISH FLOOR	
[ACT1]	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM	
[ACT2]	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM	
[DAFS1]	DIRECT APPLIED FINISH SYSTEM GRID SPACING: 48" X 24" SUPPORT: SEE DETAILS	
[DGC1]	DECORATIVE GRID CEILING SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM	
[DGC2]	DECORATIVE GRID CEILING SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM	
[GCT1]	GYPSUM CEILING TILE SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM	
[GCT2]	SUSPENDED GYPSUM CEILING TILE SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM	
[GYP1]	GYPSUM BOARD CEILING OR BULKHEAD C.J. SPACED BY: 48" MAX. UNLESS SHOWN OTHERWISE SUPPORT: SUSPENSION SYSTEM OR METAL STUD FRAMING PAINT: PP UNLESS NOTED OTHERWISE	
[MPA]	METAL PANEL 'X' SOFFIT	
[PDP1]	ACOUSTICAL PYRAMIDAL CEILING DIFFUSER GRID SPACING: 24" X 24" SUPPORT: SUSPENSION SYSTEM	
C.J.	CONTROL JOINT	
E.J.	EXPANSION JOINT	
[CUT TILE]	CUT TILE	
[RECESSED LIGHT]	RECESSED LIGHT FIXTURE	
[SURFACE / PENDANT MOUNT]	SURFACE / PENDANT MOUNT LIGHT FIXTURE	
[MECHANICAL SUPPLY]	MECHANICAL SUPPLY DIFFUSER / RETURN GRILLE / EXHAUST GRILLE / LINEAR SLOT DIFFUSER	
[EXIT SIGN]	EXIT SIGN (CEILING OR WALL-MOUNTED)	
[ELECTRICAL DEVICES]	ELECTRICAL DEVICES (CEILING OR WALL-MOUNTED)	

NOTE: REFER TO STRUCTURAL, PLUMBING/FIRE PROTECTION, MECHANICAL, AND ELECTRICAL TECHNOLOGY FOR MORE DETAILED SYMBOL LEGENDS. SHOWN FOR GENERAL COORDINATION. NOT ALL SYMBOLS ARE INDICATED. NOTIFY ARCHITECT OF ANY ALL DISCREPANCIES.



UNIT 'C' FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5798

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UNIT 'C' FIRST FLOOR REFLECTED CEILING PLAN

A3.1C

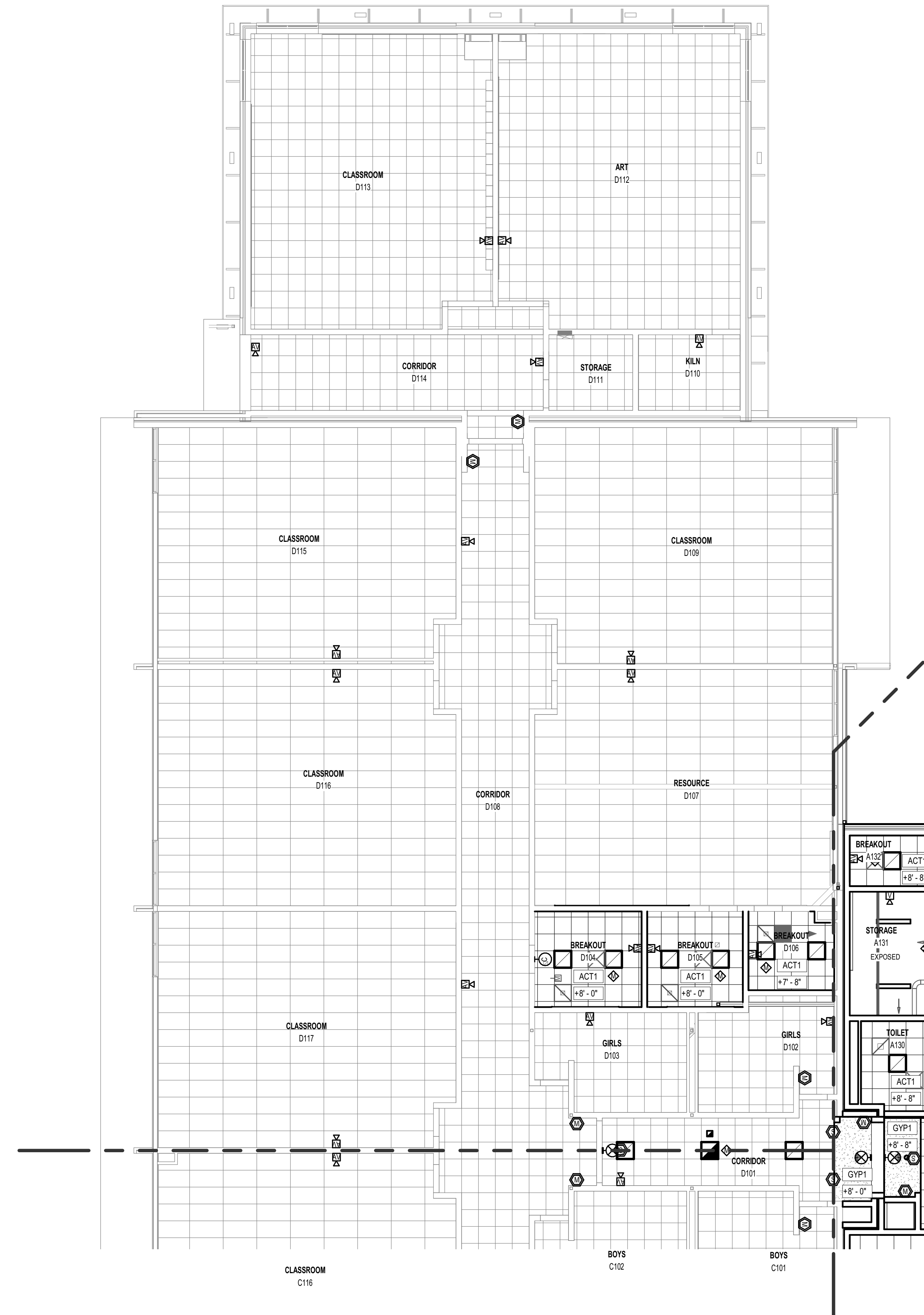
GENERAL REFLECTED CEILING NOTES:

- A. CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
- B. CEILING TILE TYPE AS SPECIFIED. CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
- C. WIRE CEILING SYSTEM FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS, CEILING DIFFUSERS, AND OTHER DEVICES. **WIRING TO METAL DECK IS STRICTLY PROHIBITED.**
- D. UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2' - 0" x 2' - 0" OR 2' - 0" x 4' - 0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.
- E. PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.
- F. MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
- G. PROVIDE 2' - 0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.
- H. PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
- I. REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
- J. ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS - COORDINATE CHANGES WITH ARCHITECT & AFFECTED DISCIPLINES.
- K. SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING LAYOUT.

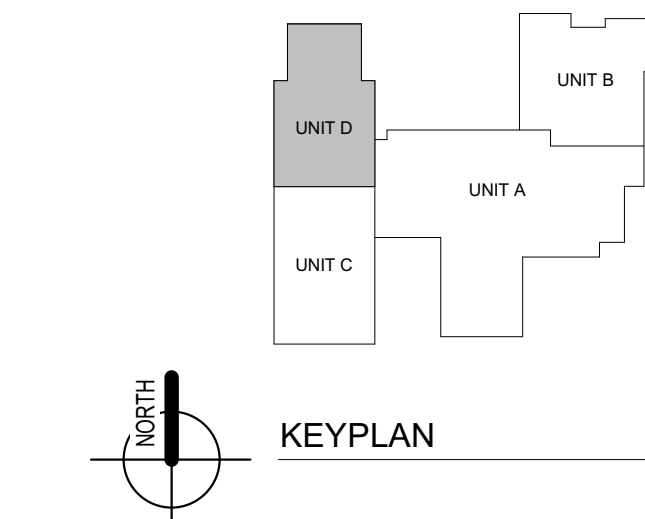
REFLECTED CEILING LEGEND

CEILING TYPE	CEILING TAG
ACT1 +10' - 0" — HEIGHT ABOVE FINISH FLOOR	
	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING: 24" X 24" SUPPORT: SUSPENSION SYSTEM
	ACOUSTICAL CEILING TILE SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM
	DIRECT APPLIED FINISH SYSTEM GRID SPACING: 24" X 24" SUPPORT: SEE DETAILS
	DECORATIVE GRID CEILING SYSTEM GRID SPACING: 24" X 24" SUPPORT: SUSPENSION SYSTEM
	DECORATIVE GRID CEILING SYSTEM GRID SPACING: 48" X 48" SUPPORT: SUSPENSION SYSTEM
	GYPSUM CEILING TILE SYSTEM GRID SPACING: 24" X 24" SUPPORT: SUSPENSION SYSTEM
	SUSPENDED GYPSUM CEILING TILE SYSTEM GRID SPACING: 48" X 24" SUPPORT: SUSPENSION SYSTEM
	GYPSUM BOARD CEILING OR BULKHEAD C.J. SPACED 30" O.C. MAX. UNLESS SHOWN OTHERWISE SUPPORT: SUSPENSION SYSTEM OR METAL STUD FRAMING PAINT: 'P' UNLESS NOTED OTHERWISE
	METAL PANEL 'A' SOFFIT
	ACOUSTICAL PYRAMIDAL CEILING DIFFUSER GRID SPACING: 24" X 24" SUPPORT: SUSPENSION SYSTEM
	CONTROL JOINT
	EXPANSION JOINT
	CUT TILE
	RECESSED LIGHT FIXTURE
	SURFACE / PENDANT MOUNT LIGHT FIXTURE
	MECHANICAL SUPPLY DIFFUSER / RETURN GRILLE / EXHAUST GRILLE / LINEAR SLOT DIFFUSER
	EXIT SIGN (CEILING OR WALL-MOUNTED)
	ELECTRICAL DEVICES (CEILING OR WALL-MOUNTED)

NOTE: REFER TO STRUCTURAL, PLUMBING/FIRE PROTECTION, MECHANICAL AND ELECTRICAL TECHNOLOGY FOR MORE DETAILED SYMBOL LEGENDS. SHOWN FOR GENERAL COORDINATION. NOT ALL SYMBOLS ARE INDICATED. NOTIFY ARCHITECT OF ANYVALL DISCREPANCIES.



UNIT 'D': FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



KEYPLAN

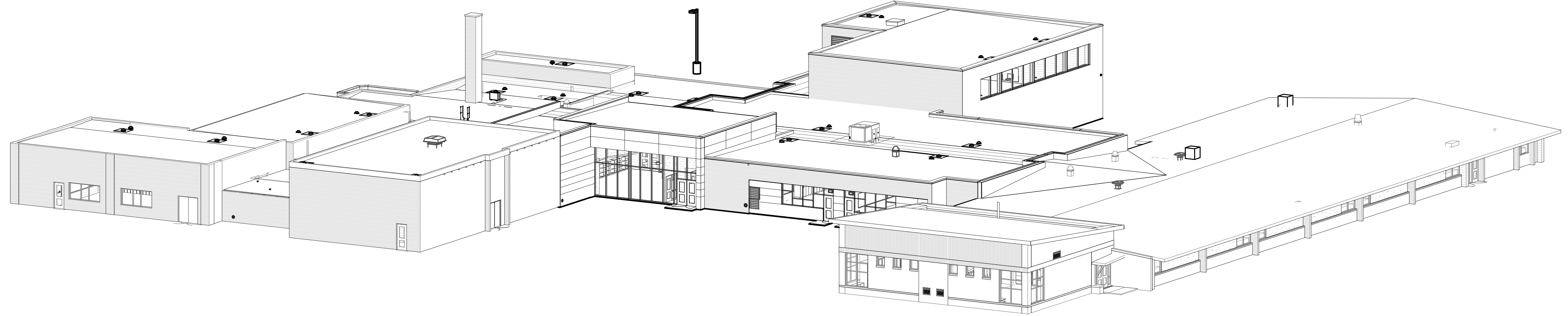
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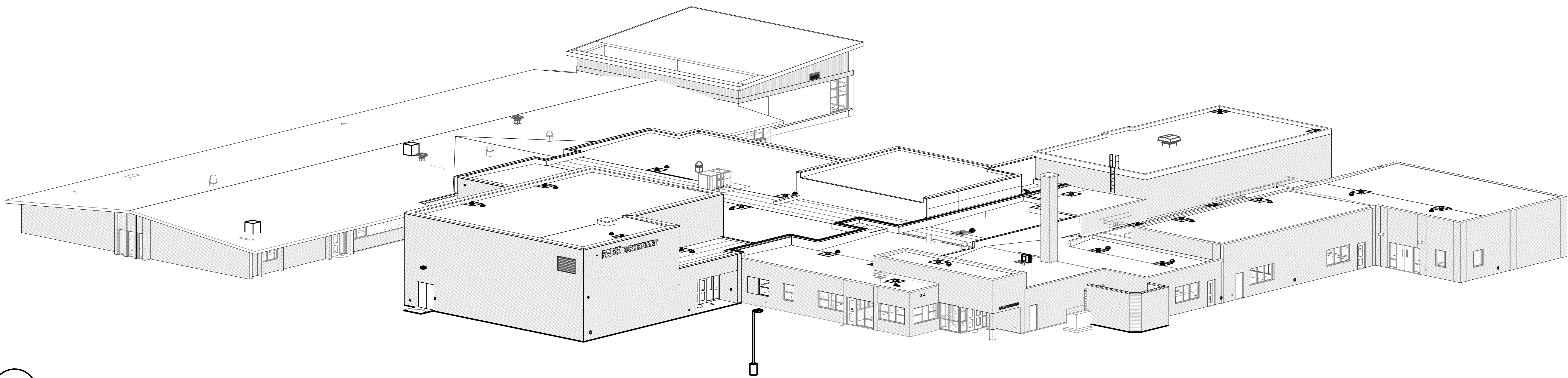
PROJECT NO. 5-5798

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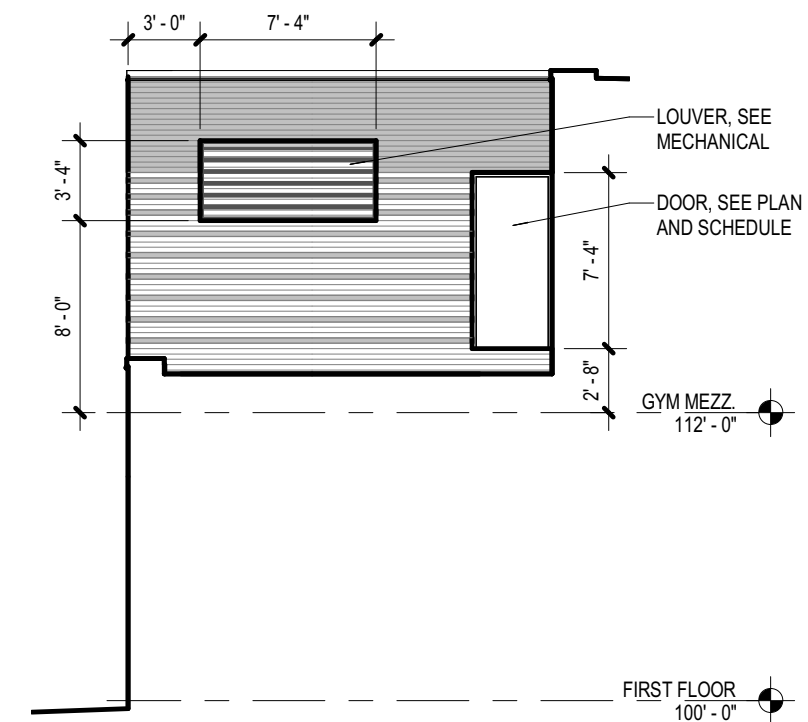
UNIT 'D' FIRST FLOOR REFLECTED CEILING PLAN



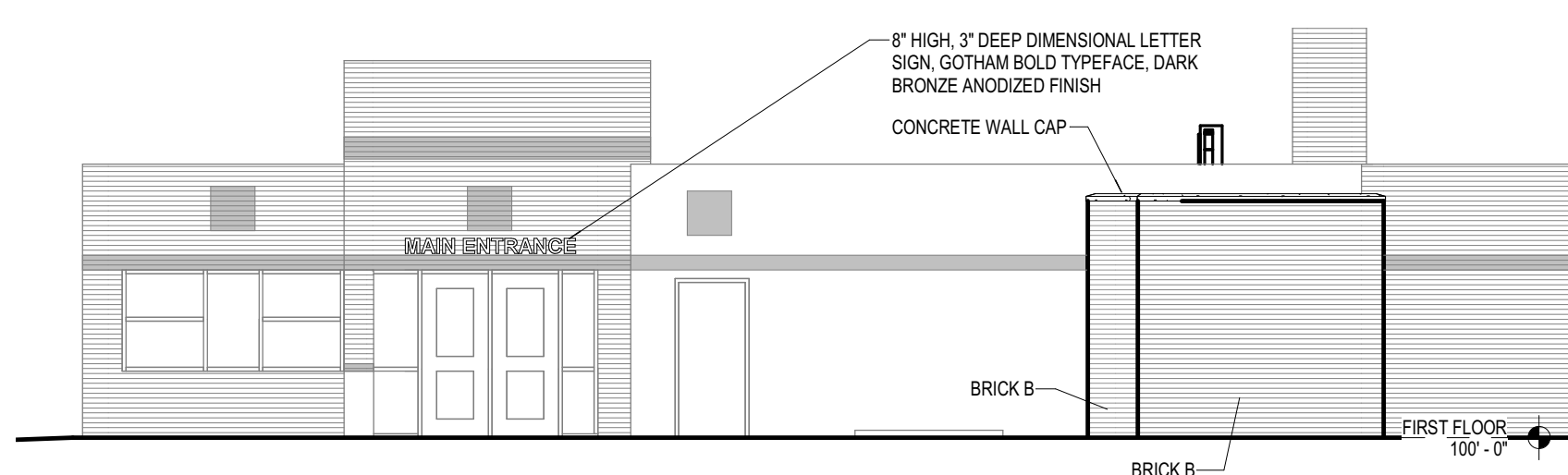
8 NORTHWEST PERSPECTIVE
A4.01



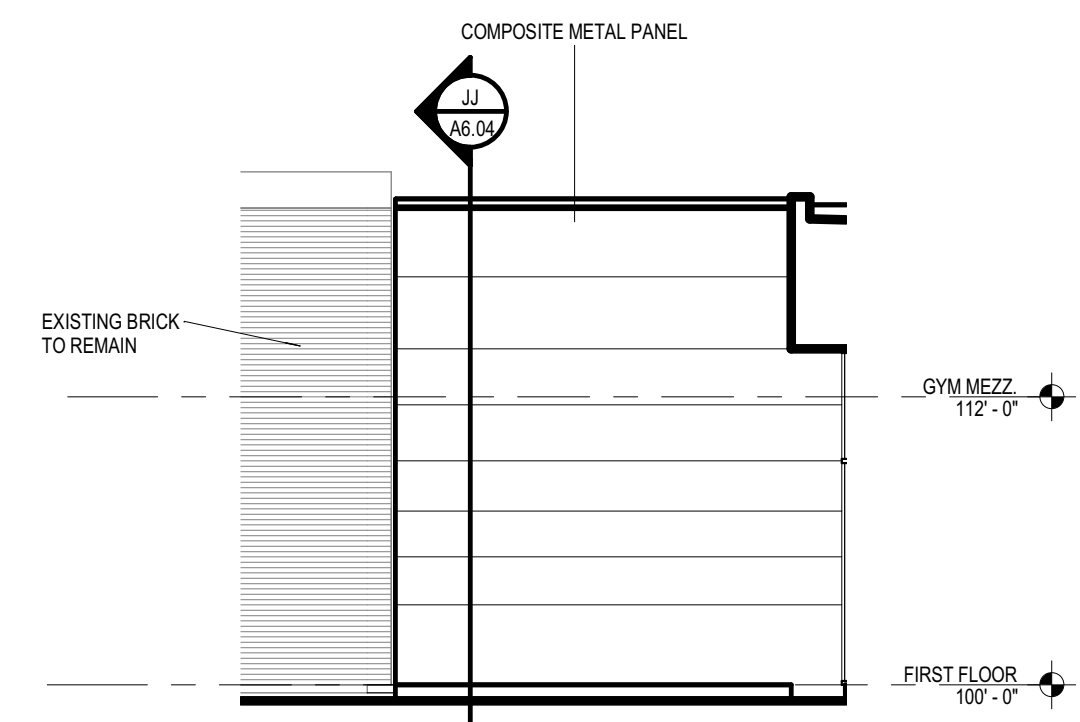
7 SOUTHEAST PERSPECTIVE
A4.01



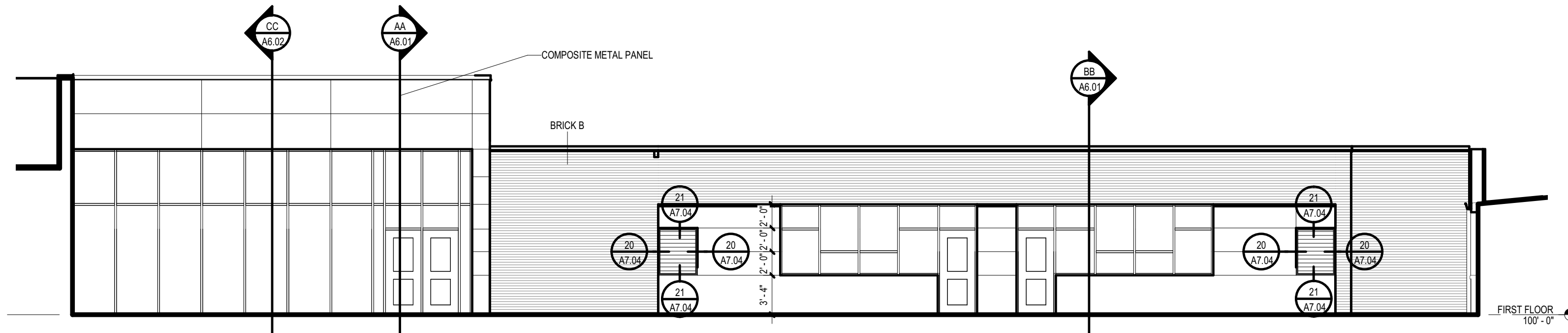
10 GYM MEZZANINE NORTH ELEVATION
A4.01 1/8" = 1'-0"



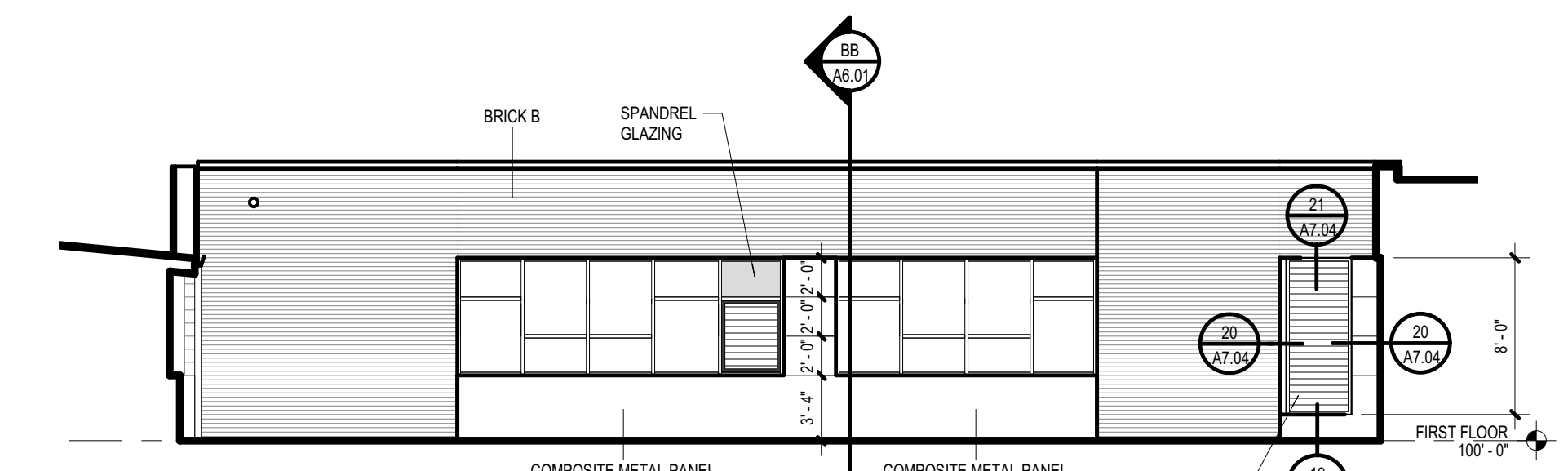
9 EAST ELEVATION MAIN ENTRY
A4.01 1/8" = 1'-0"



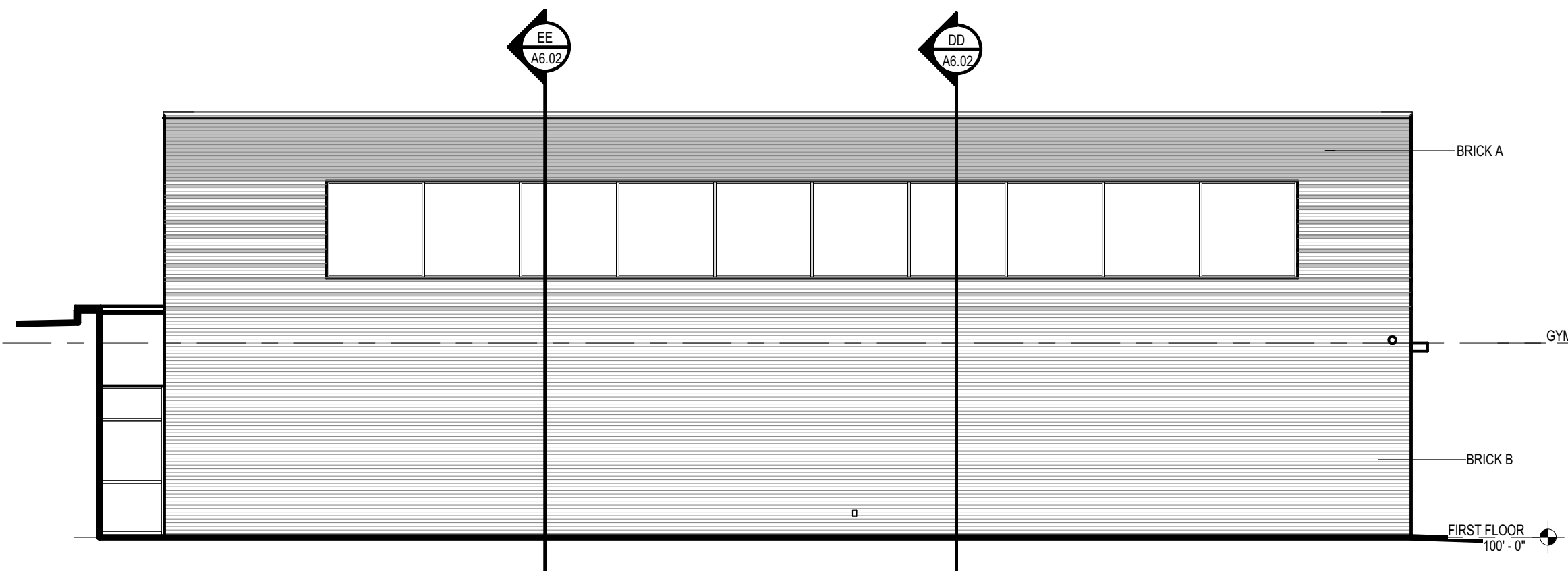
6 UNIT 'B' PARTIAL WEST ELEVATION
A4.01 1/8" = 1'-0"



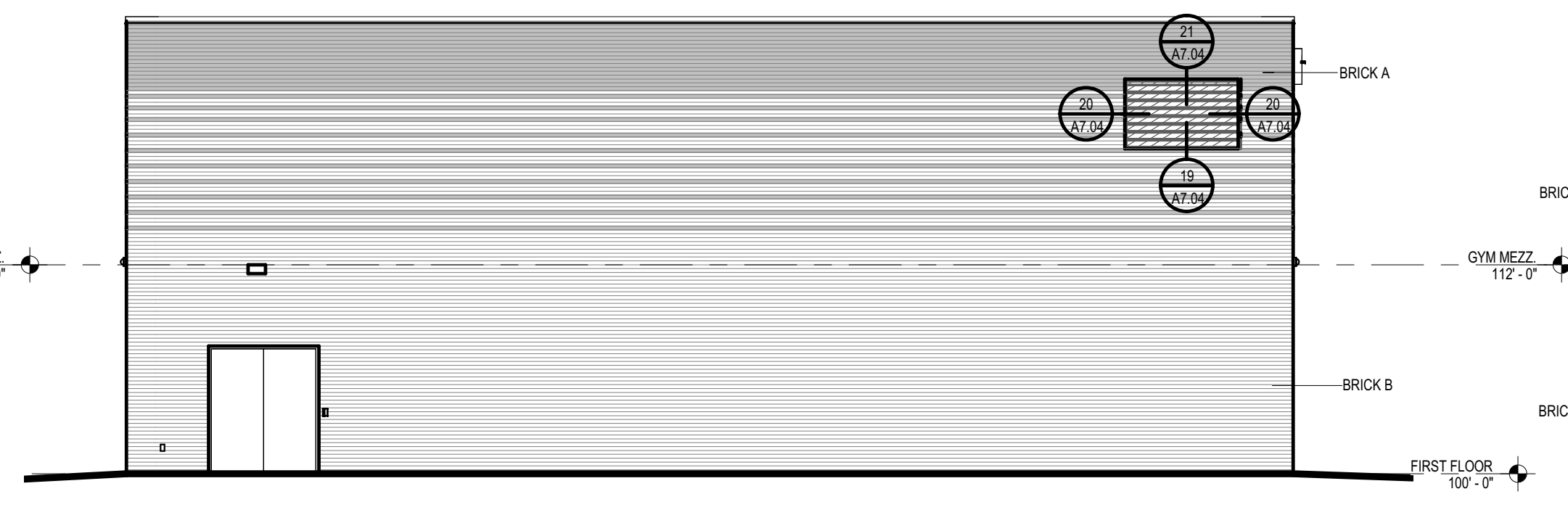
5 UNIT 'A' NORTH ELEVATION
A4.01 1/8" = 1'-0"



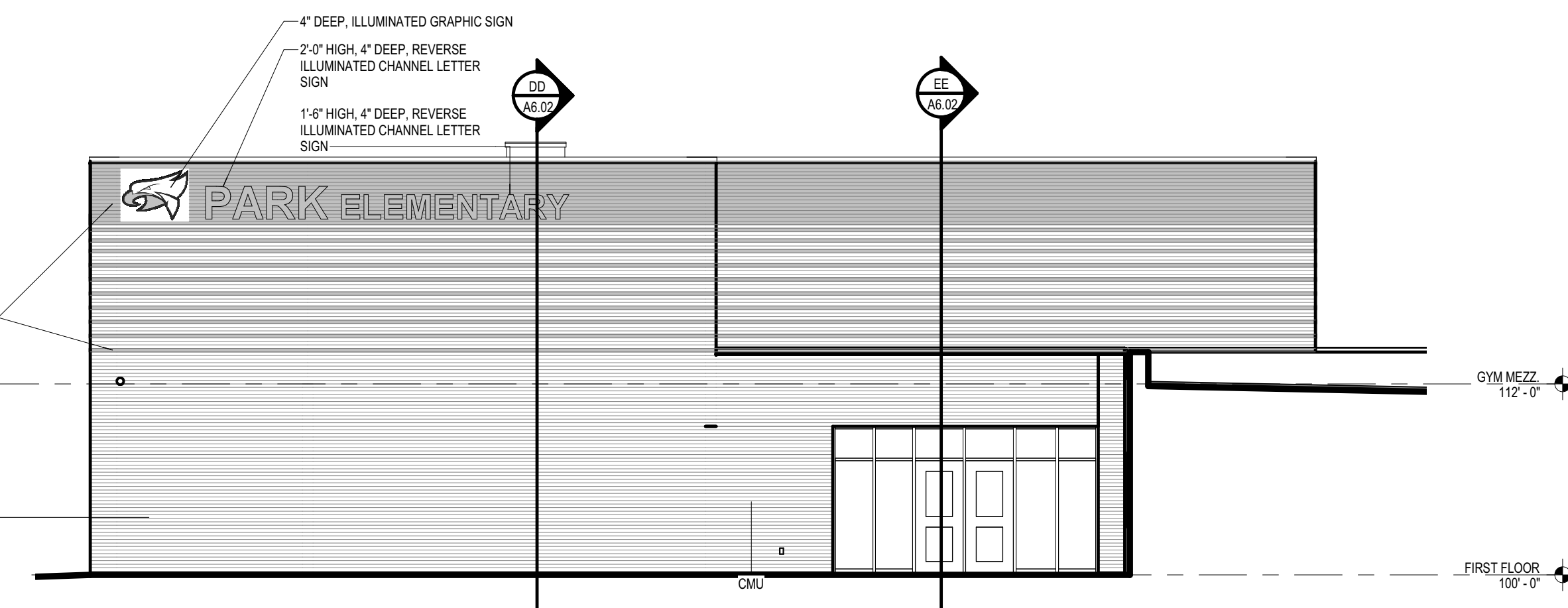
4 UNIT 'A' CLASSROOMS SOUTH ELEVATION
A4.01 1/8" = 1'-0"



3 UNIT 'A' GYM WEST ELEVATION
A4.01 1/8" = 1'-0"



2 UNIT 'A' GYM SOUTH ELEVATION
A4.01 1/8" = 1'-0"



1 UNIT 'A' GYM EAST ELEVATION
A4.01 1/8" = 1'-0"

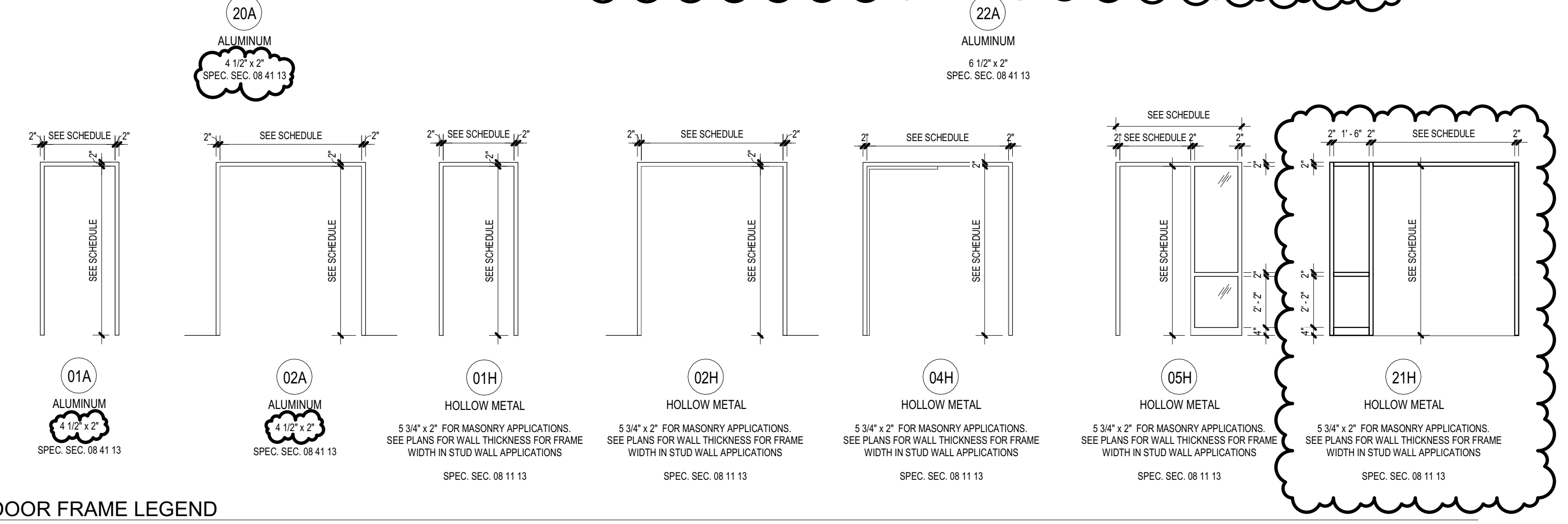
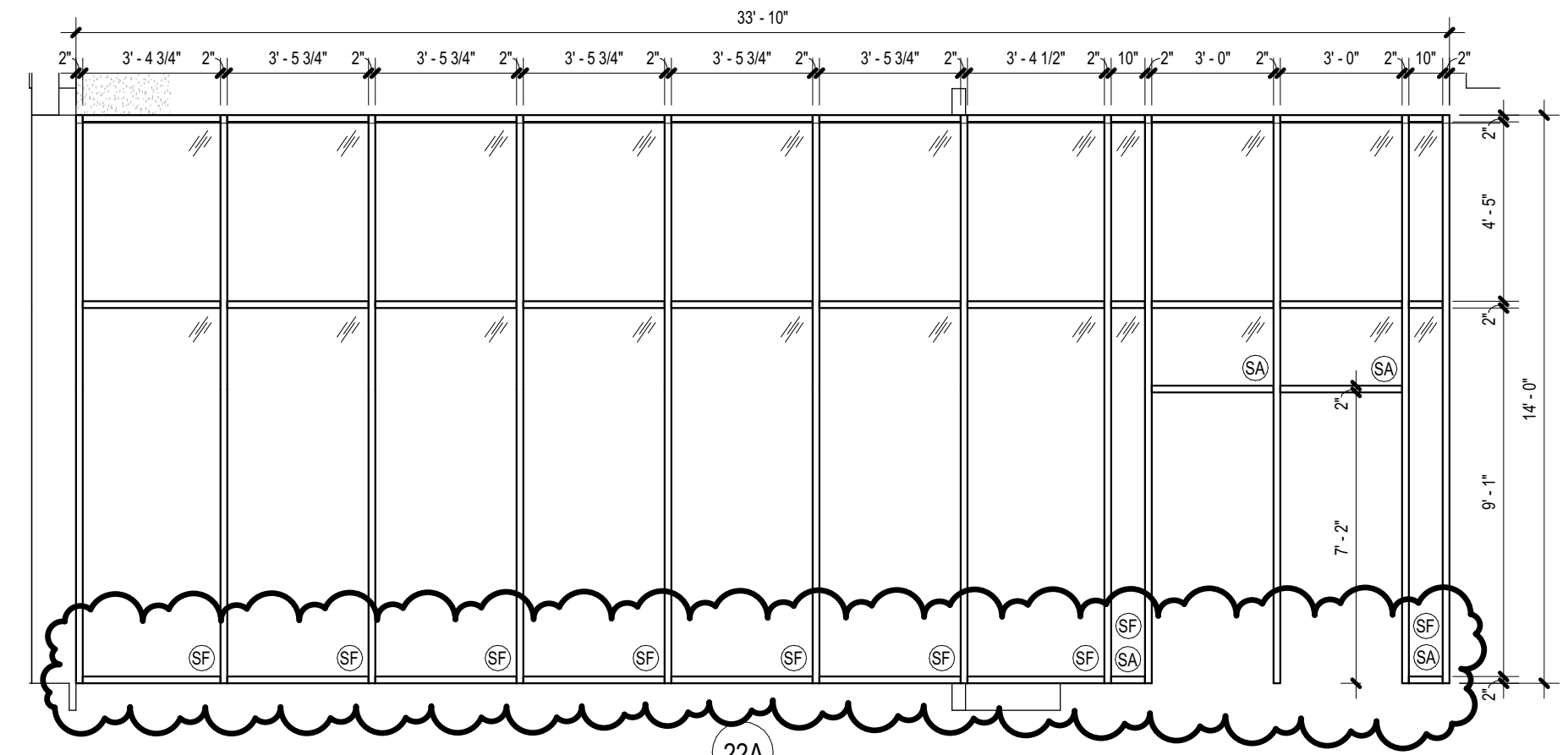
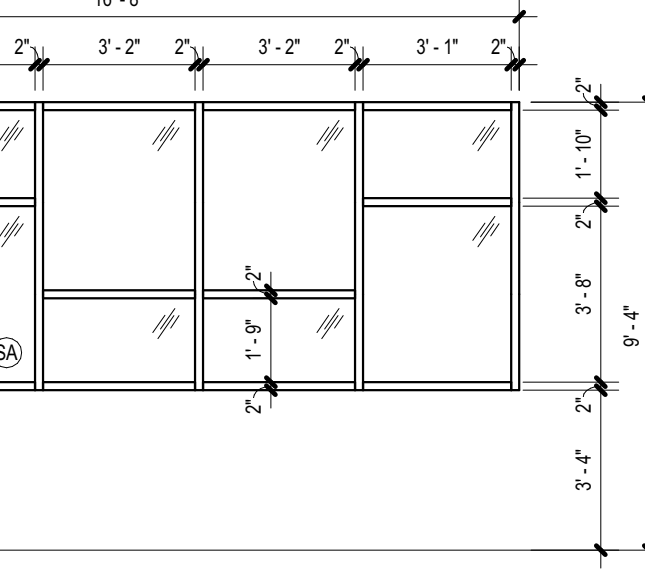
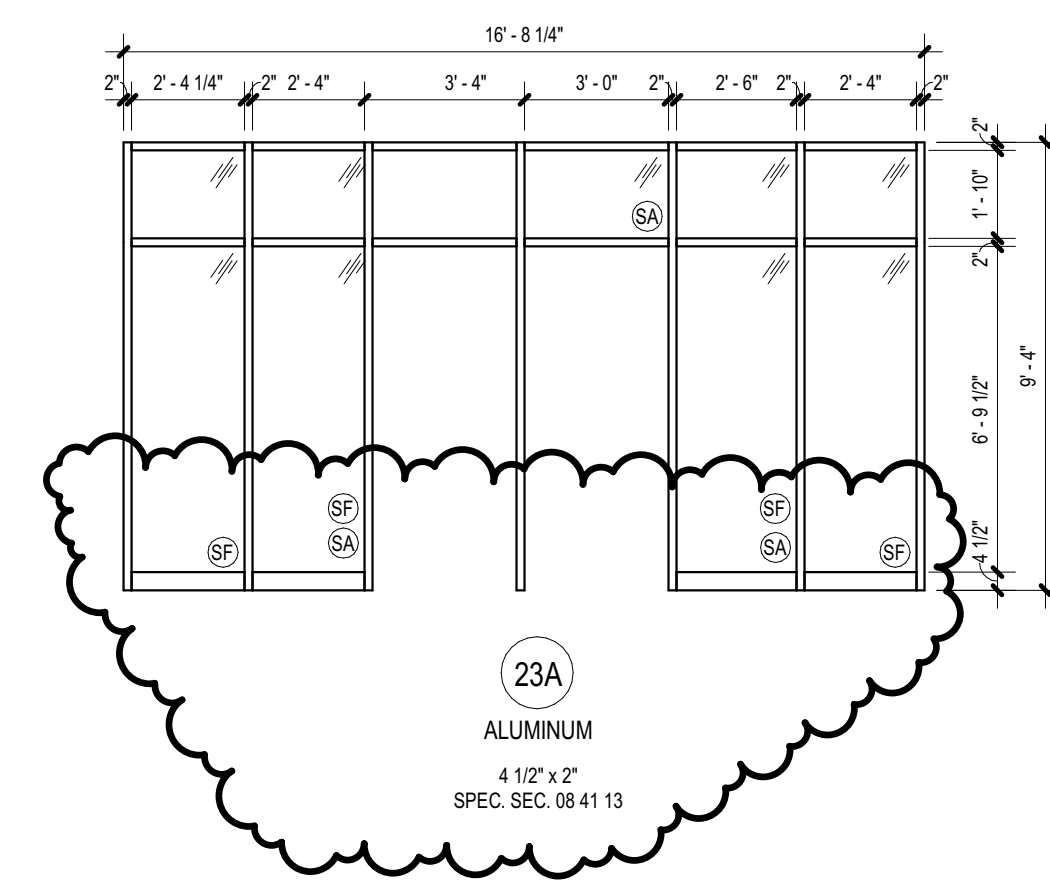
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EXTERIOR ELEVATIONS



DOOR NUMBERING LEGEND

DOOR NUMBERING: A101A (1st door, room 101)

DOOR NAME / SIZE: 3'-0\"/>

- (PR) 3'-0\"/>
- (2) 3'-0\"/>
- 3'-0\"/>

NOTE: STANDARD DOOR AND FRAME DIMENSIONS ARE GIVEN IN WIDTH X HEIGHT X THICKNESS

GLAZING NOTES:

ALL EXTERIOR WINDOWS AND DOOR LITES: 1\"/>

INTERIOR DOOR & BORROWED LITES: 1/4\"/>

GLASS TO BE TEMPERED AS REQUIRED BY SPECIFICATIONS AND APPLICABLE CODES.

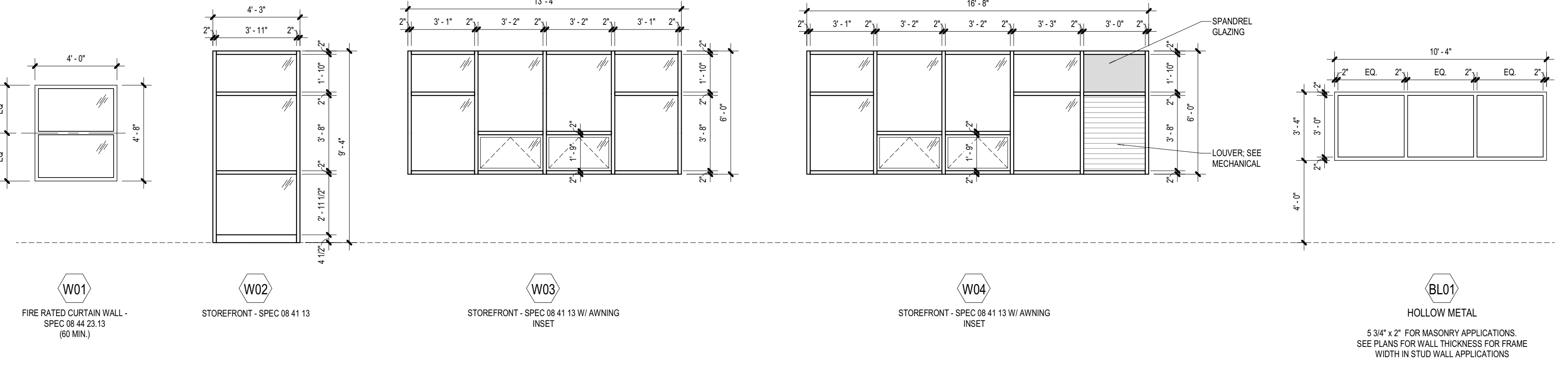
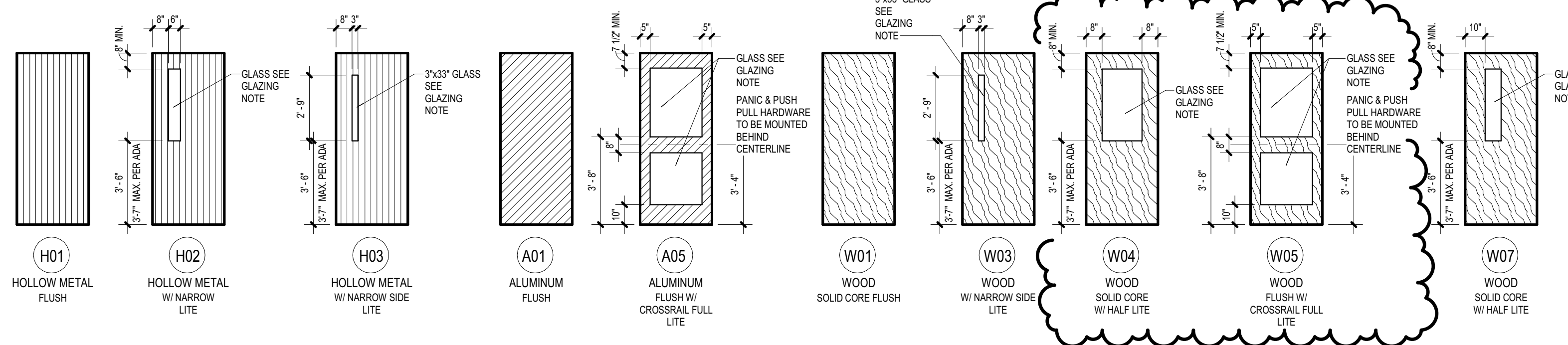
MAXIMUM GLASS AREA PER FIRE RATING: 180 MIN. LABEL = NO GLASS; 60 MIN. LABEL = 100 SQ IN; 45 MIN. LABEL = 1200 SQ IN; 20 MIN. LABEL = AS TESTED.

VERIFY COMPLIANCE TO ALL APPLICABLE CODES.

ADJUST LITE SIZE BASED ON SCHEDULED FIRE RATINGS AS NECESSARY.

NOTE: ALL SIDELITES AND TRANSOMS W/ 20 MIN. DOORS REQUIRE 45 MIN. RATED GLAZING.

LEGEND: (E) = EGRESS PANE; (G) = GRAPHIC FILM; (S) = SAFETY GLAZING; (SF) = SECURITY FILM; (ST) = SELF-TIGHTENING GLAZING; (SP) = SPANDREL PANEL; (L) = LOUVER PANEL.



DOOR TYPE LEGEND
1/4\"/>

WINDOW LEGEND
1/4\"/>

DOOR & FRAME SCHEDULE UNIT 'C'

DOOR NUMBER	DOOR SIZE	DOOR TYPE	FRAME TYPE	FIRE RATING	HWNR SET NO.	ELEC. HARDWARE	REMOVABLE MULLION	HEAD	JAMB	SILL	REMARKS
C105A	3'-0\"/> <tr> <td>C112A</td> <td>3'-0\"/> </td></tr>	C112A	3'-0\"/>								
C112A	3'-0\"/>										

DOOR & FRAME SCHEDULE UNIT 'B'

DOOR NUMBER	DOOR SIZE	DOOR TYPE	FRAME TYPE	FIRE RATING	HWNR SET NO.	ELEC. HARDWARE	REMOVABLE MULLION	HEAD	JAMB	SILL	REMARKS
B103A	PR 3'-0\"/> <tr> <td>B104B</td> <td>PR 3'-0\"/> </td></tr>	B104B	PR 3'-0\"/>								
B104B	PR 3'-0\"/>										

DOOR & FRAME SCHEDULE UNIT 'A'

DOOR NUMBER	DOOR SIZE	DOOR TYPE	FRAME TYPE	FIRE RATING	HWNR SET NO.	ELEC. HARDWARE	REMOVABLE MULLION	HEAD	JAMB	SILL	REMARKS																																																														
A115A	3'-0\"/> <tr> <td>A115A</td> <td>3'-0\"/> <tr> <td>A116A</td> <td>PR 4'-0\"/> <tr> <td>A117A</td> <td>3'-0\"/> <tr> <td>A117B</td> <td>3'-0\"/> <tr> <td>A118A</td> <td>3'-0\"/> <tr> <td>A118A</td> <td>3'-0\"/> <tr> <td>A119A</td> <td>3'-0\"/> <tr> <td>A119B</td> <td>3'-0\"/> <tr> <td>A120A</td> <td>3'-0\"/> <tr> <td>A120A</td> <td>PR 3'-0\"/> <tr> <td>A122B</td> <td>PR 3'-0\"/> <tr> <td>A123A</td> <td>3'-0\"/> <tr> <td>A124A</td> <td>3'-0\"/> <tr> <td>A125A</td> <td>3'-0\"/> <tr> <td>A126A</td> <td>3'-0\"/> <tr> <td>A127A</td> <td>3'-0\"/> <tr> <td>A128A</td> <td>3'-0\"/> <tr> <td>A128B</td> <td>PR 4'-0\"/> <tr> <td>A129B</td> <td>PR 4'-0\"/> <tr> <td>A130A</td> <td>3'-0\"/> <tr> <td>A131A</td> <td>3'-0\"/> <tr> <td>A132A</td> <td>3'-0\"/> <tr> <td>A133A</td> <td>3'-0\"/> <tr> <td>A133B</td> <td>3'-0\"/> <tr> <td>A134A</td> <td>3'-0\"/> <tr> <td>A134B</td> <td>3'-0\"/> <tr> <td>A135A</td> <td>3'-0\"/> <tr> <td>A136A</td> <td>3'-0\"/> <tr> <td>A137A</td> <td>3'-0\"/> <tr> 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DOOR & FRAME SCHEDULE UNIT 'D'

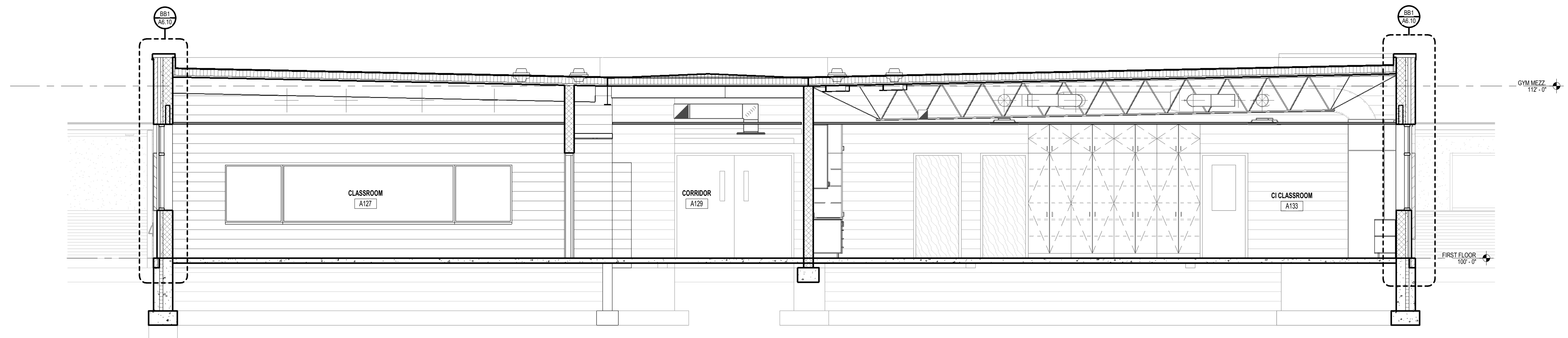
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ISSUANCES
03.23.2023 BIDS & CONSTRUCTION
04.18.2023 ADDENDUM 01

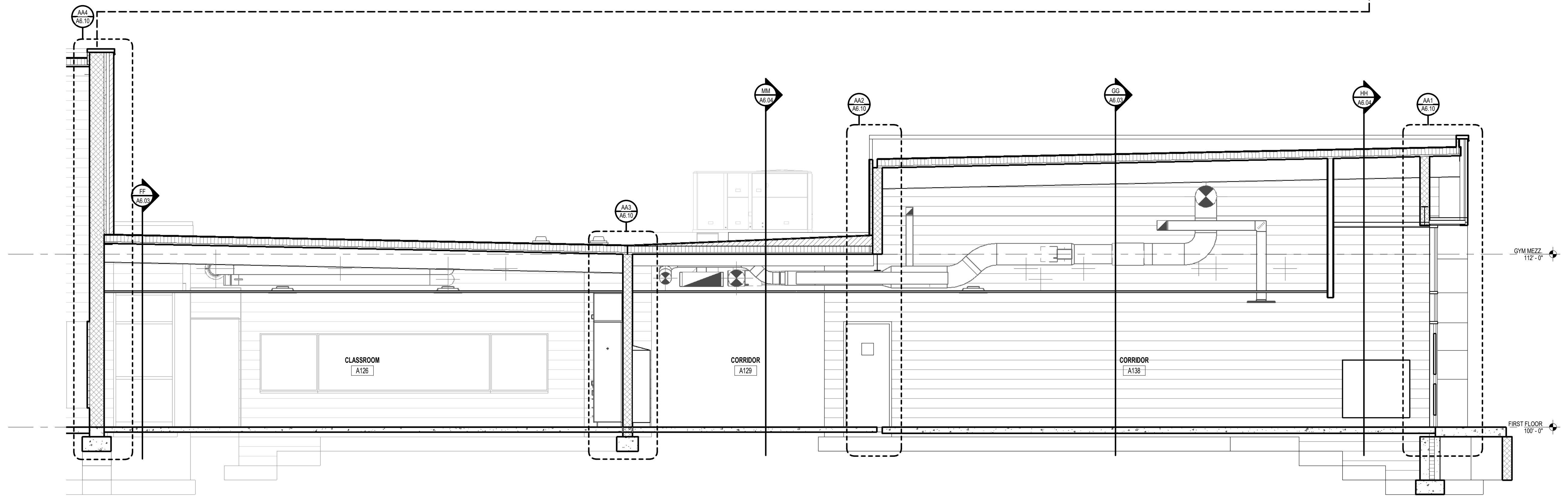
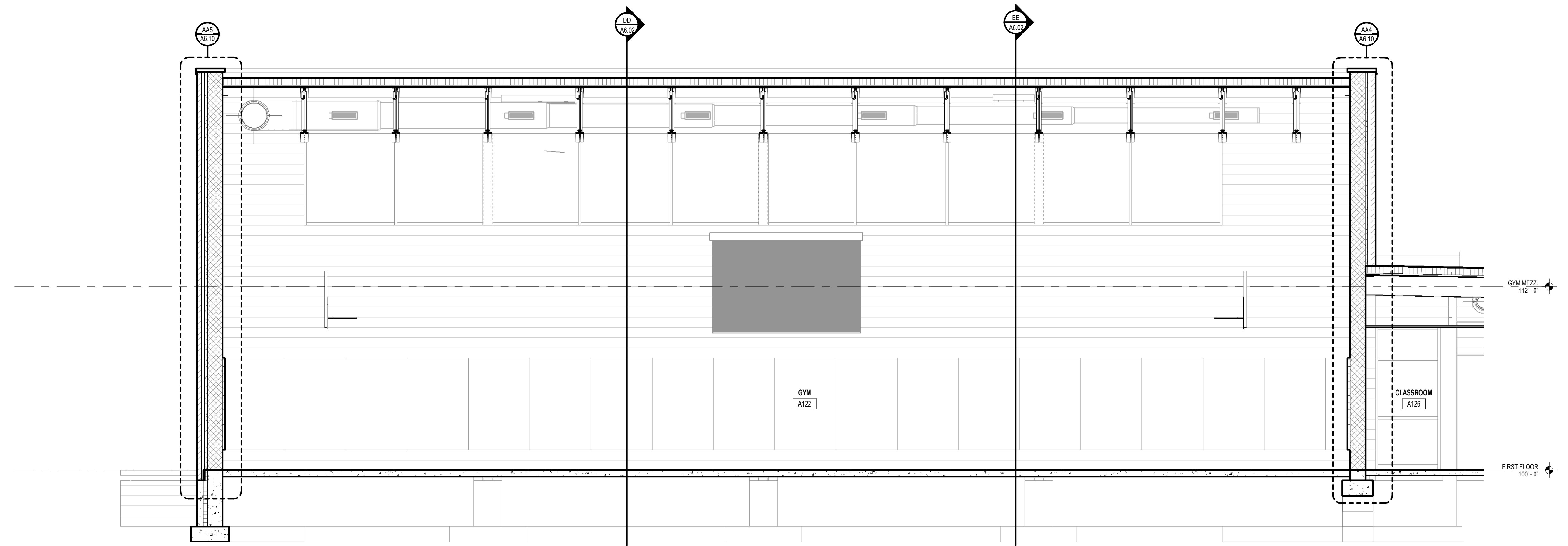
DRAWN MEE
REVIEWED TGD

PROJECT NO. 5-5798
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DOOR & FRAME SCHEDULE



BB BUILDING SECTION BB
A6.01 1/4" = 1'-0"



AA BUILDING SECTION AA
A6.01 1/4" = 1'-0"

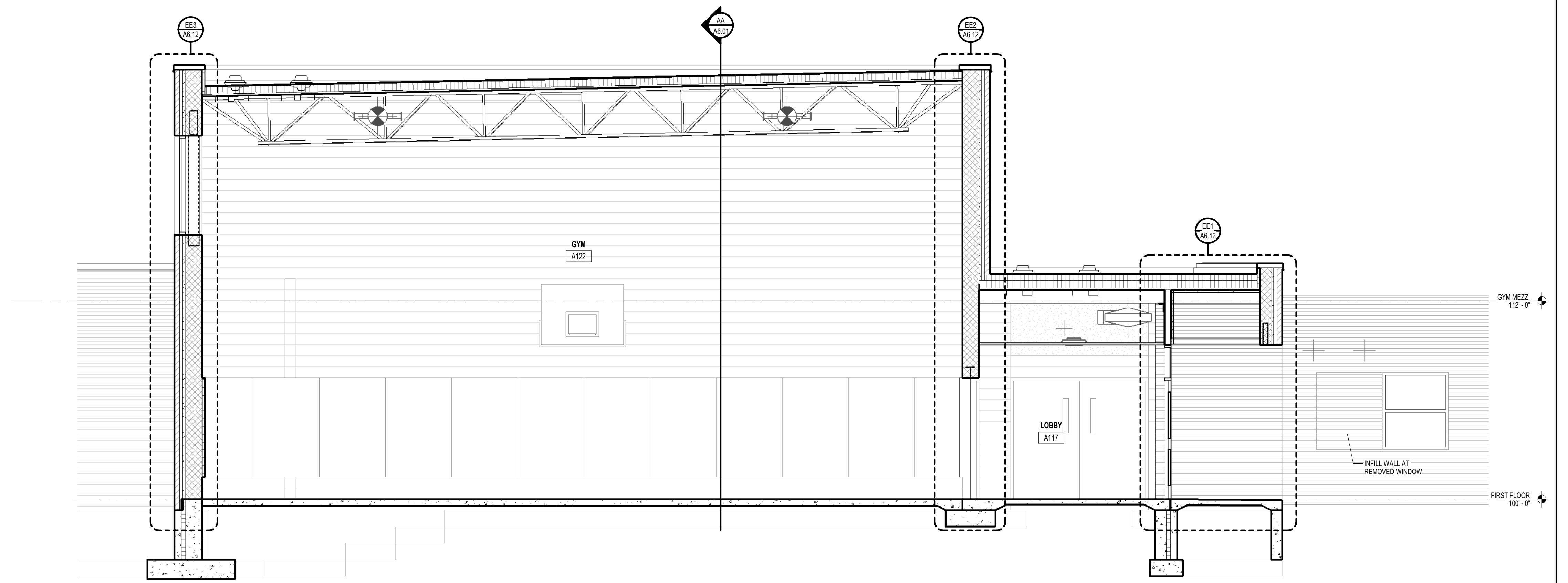
ISSUANCES
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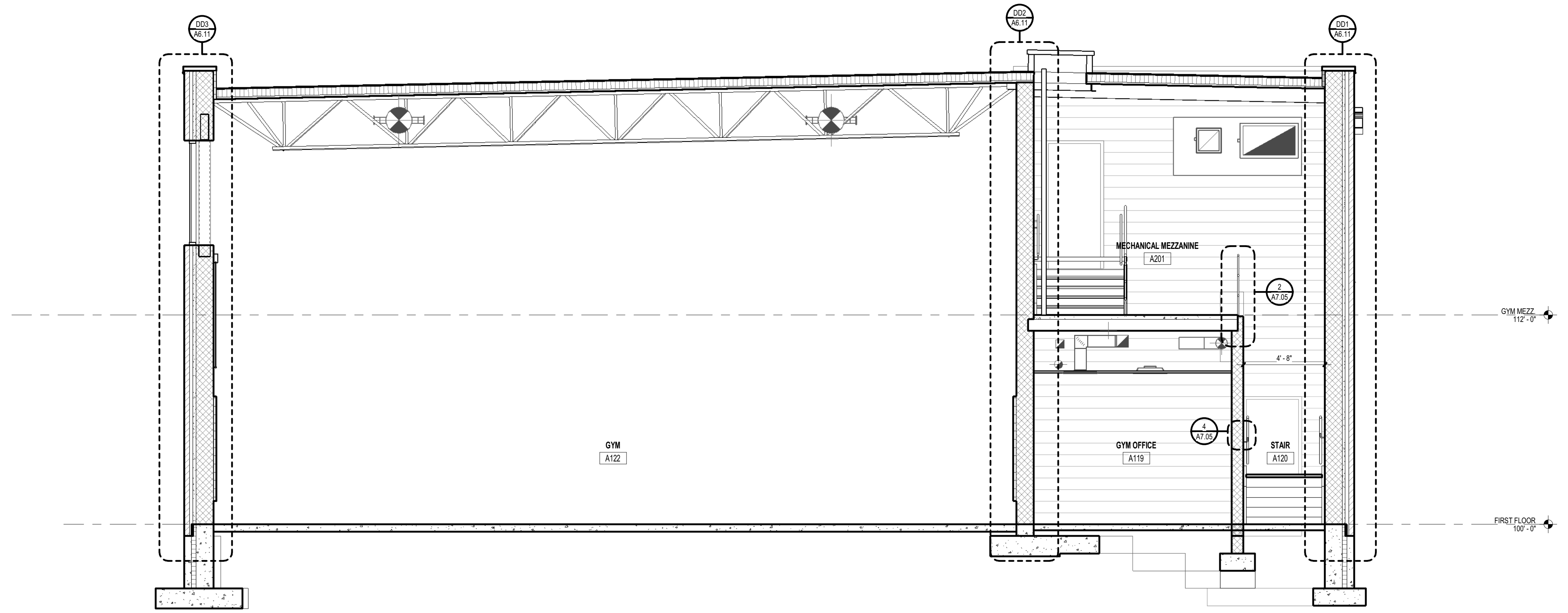
PROJECT NO. 5-5798

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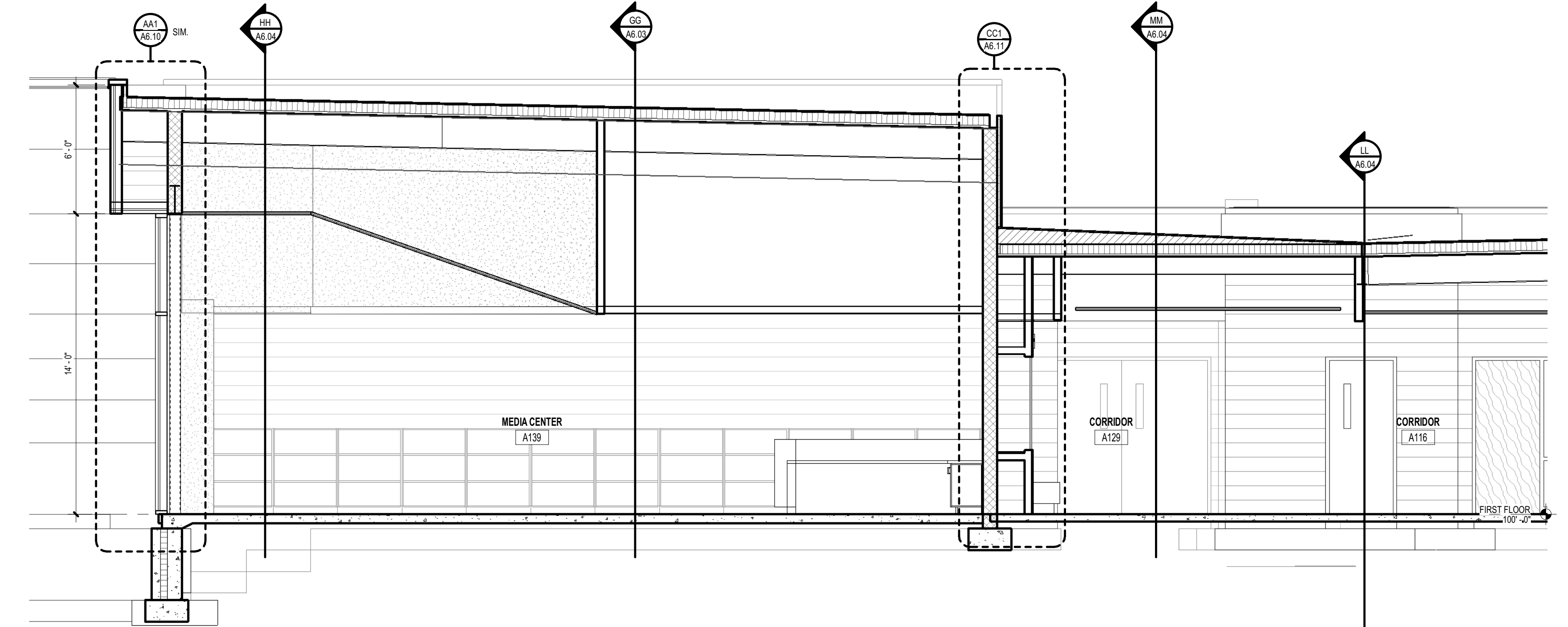
BUILDING SECTIONS



EE BUILDING SECTION EE
A6.02 1/4" = 1'-0"



DD BUILDING SECTION DD
A6.02 1/4" = 1'-0"



CC BUILDING SECTION CC
A6.02 1/4" = 1'-0"

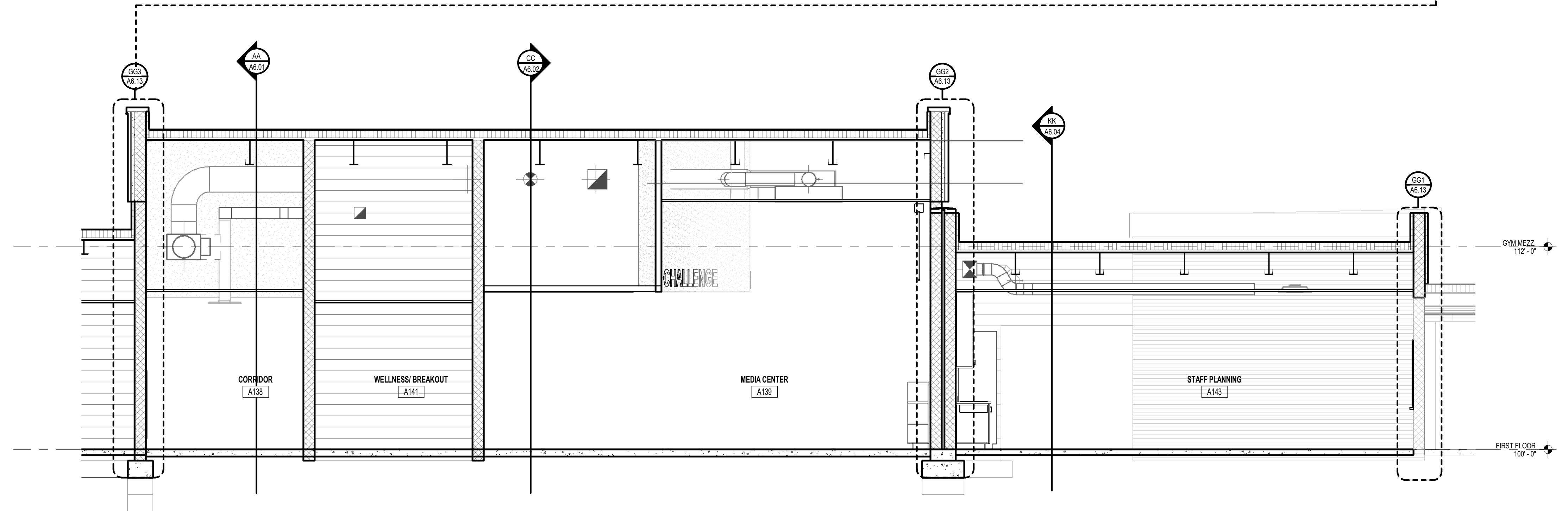
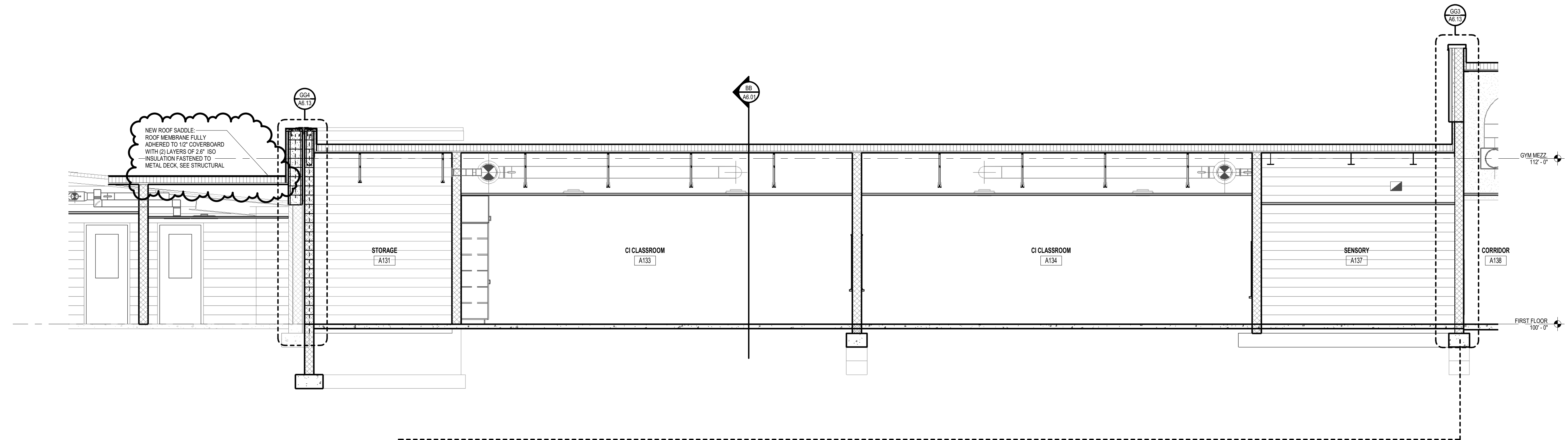
ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

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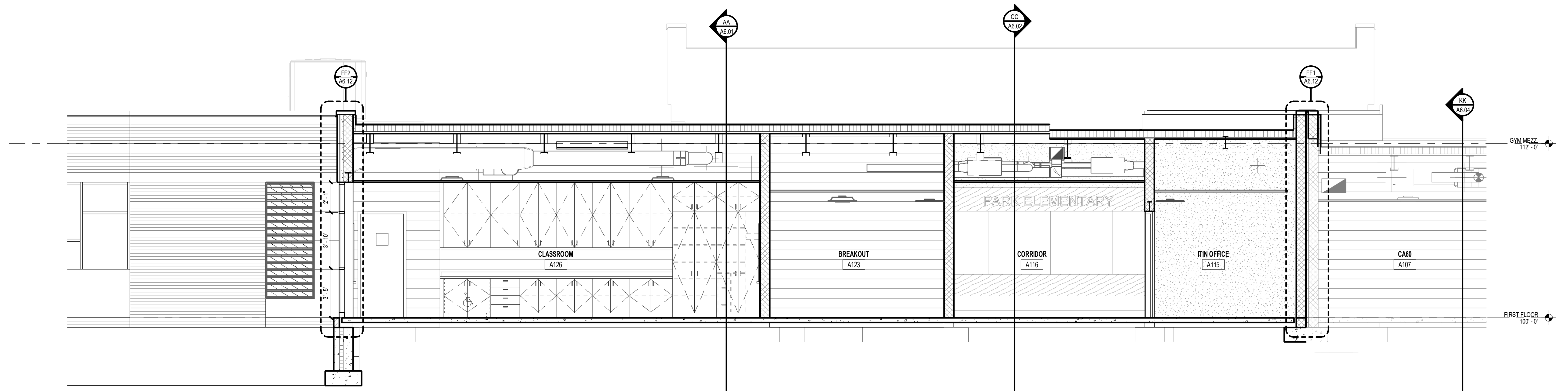
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BUILDING SECTIONS



GG BUILDING SECTION GG
A6.03 1/4" = 1'-0"



FF BUILDING SECTION FF
A6.03 1/4" = 1'-0"

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION
04.18.2023 ADDENDUM 01

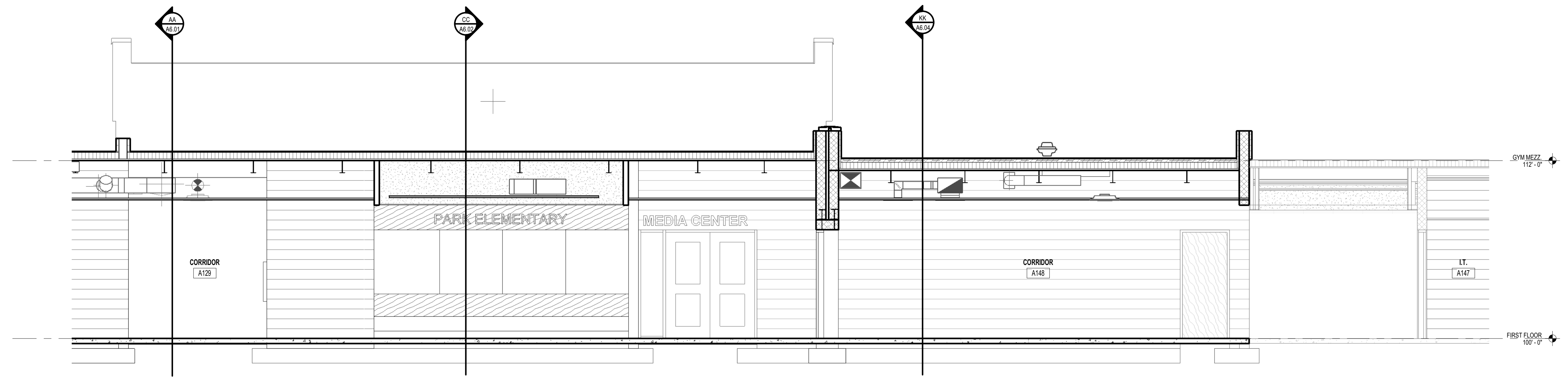
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PROJECT NO. 5-5798

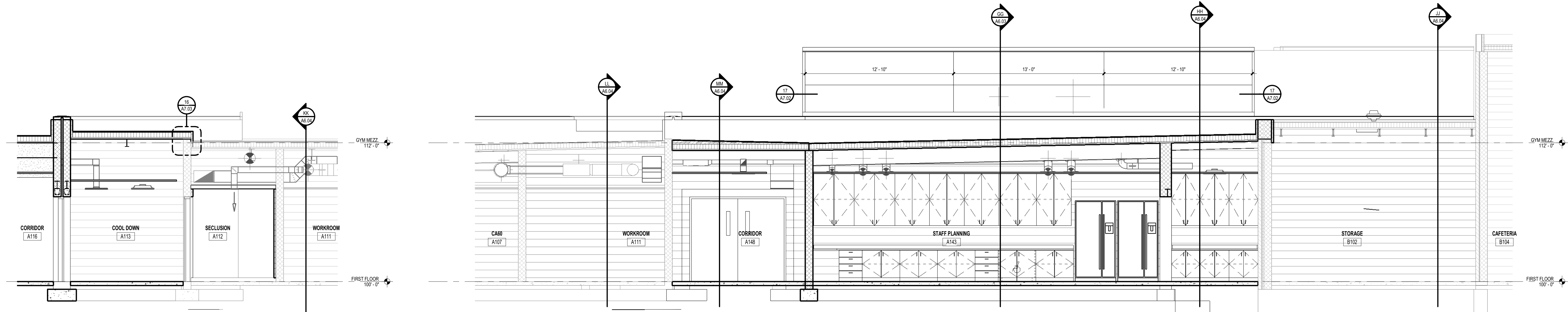
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BUILDING SECTIONS

A6.03

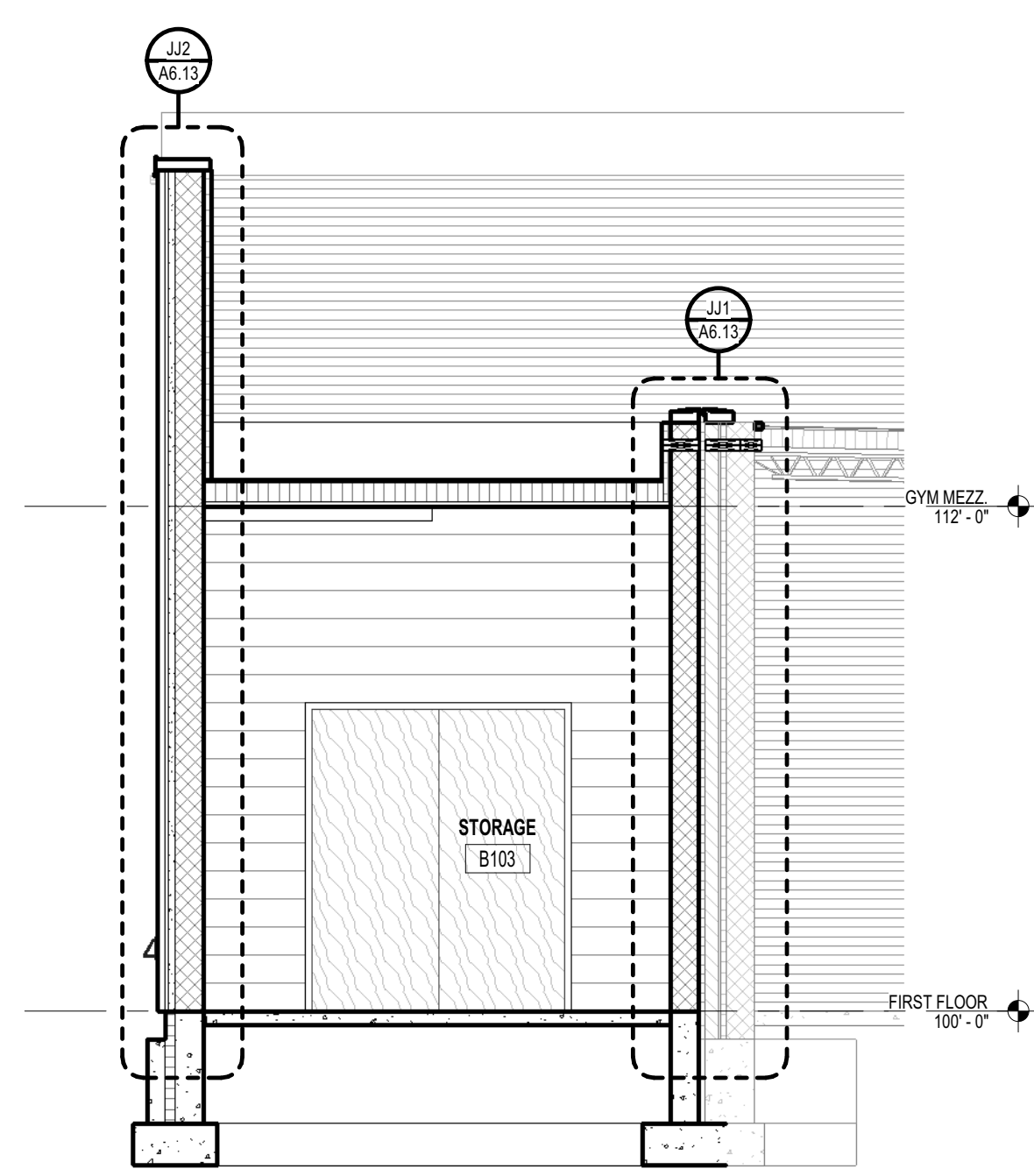


MM BUILDING SECTION MM
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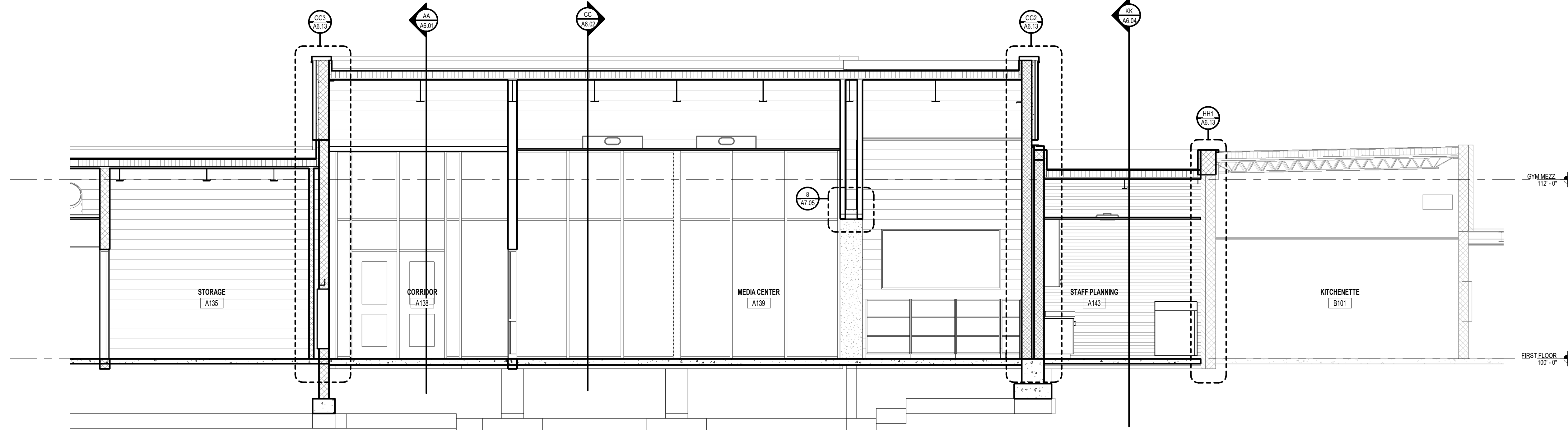


LL BUILDING SECTION LL
1/4" = 1'-0"

KK BUILDING SECTION KK
1/4" = 1'-0"



JJ BUILDING SECTION JJ
1/4" = 1'-0"



HH BUILDING SECTION HH
1/4" = 1'-0"

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN MEE
REVIEWED TGD
PROJECT NO. 5-5798
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BUILDING SECTIONS

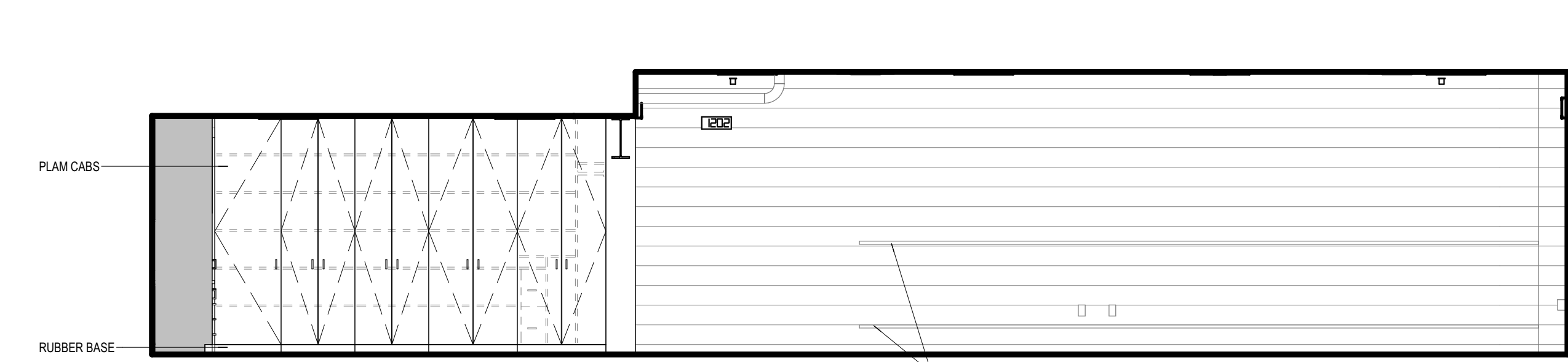
A6.04

CASEWORK LEGEND
(SEE ELEVATIONS AND/OR PLANS FOR MORE INFORMATION) (SEE SPECS)

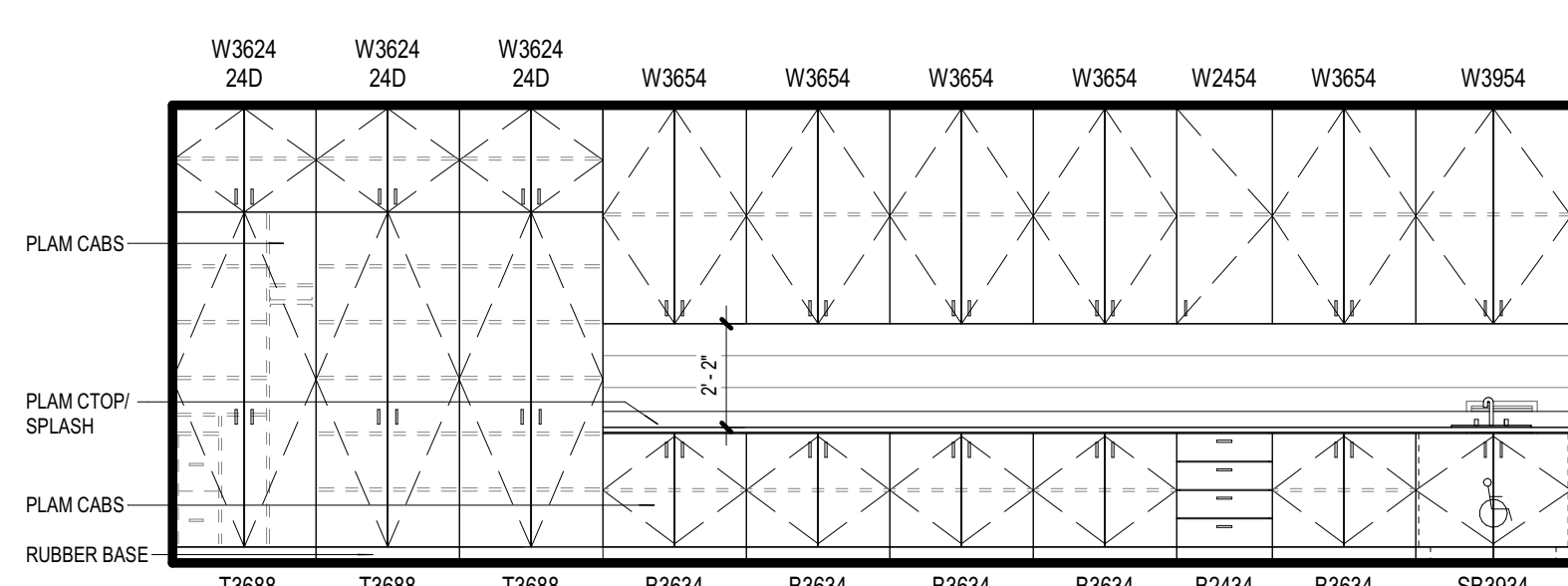
STYLE: **I** **42** **B4** WIDTH
DEPTH: **12** HEIGHT

*DEPTH ONLY GIVEN IF OTHER THAN 24" DEEP FOR BASE (TALL CABINET OR 12" DEEP FOR WALL CABINET ARE USED, TYP.)

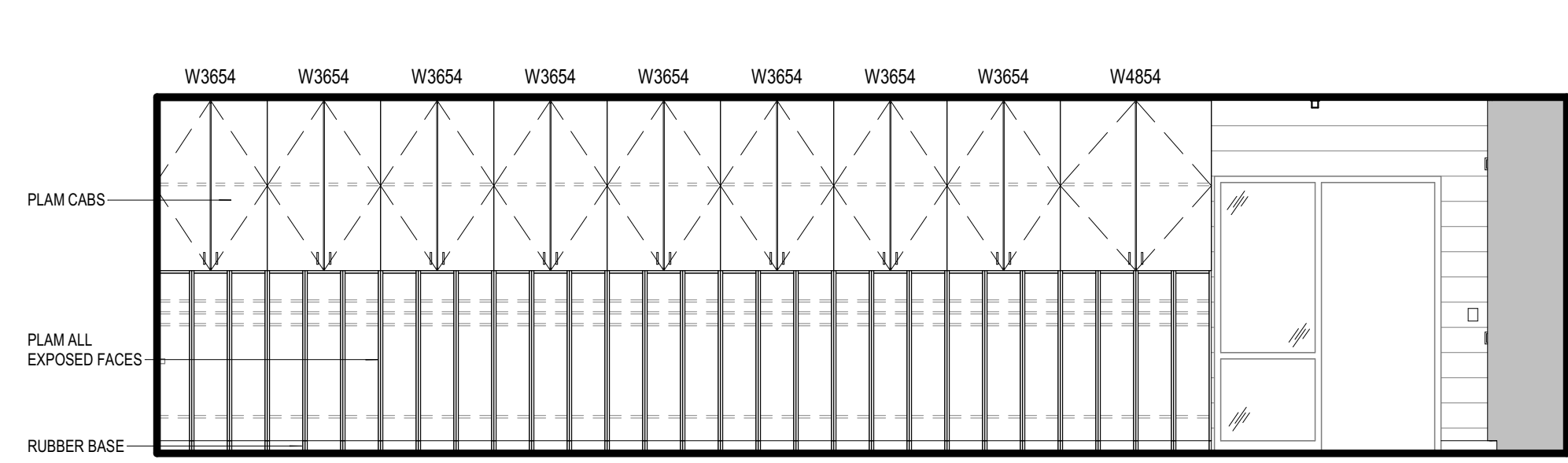
B BASE CABINET
F FILLER PANEL
M MOBILE CABINET
T TALL CABINET
W WALL CABINET



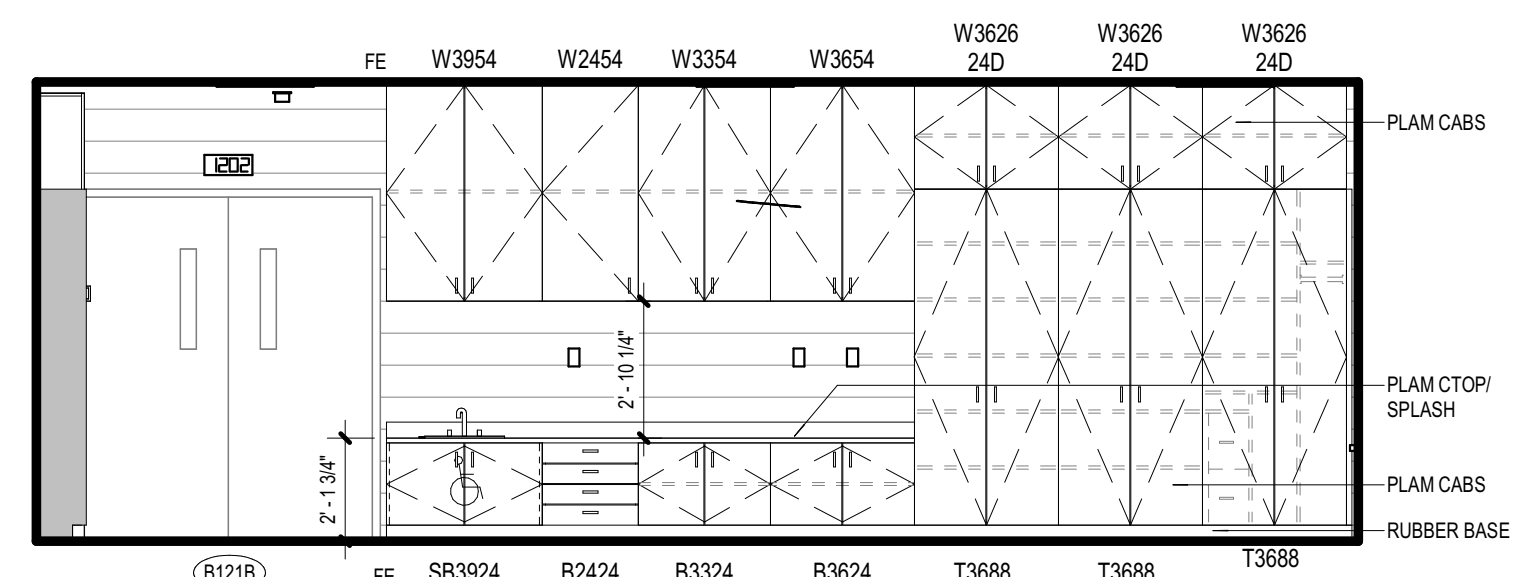
23 B118 KINDERGARTEN NORTH
1/4" = 1'-0"



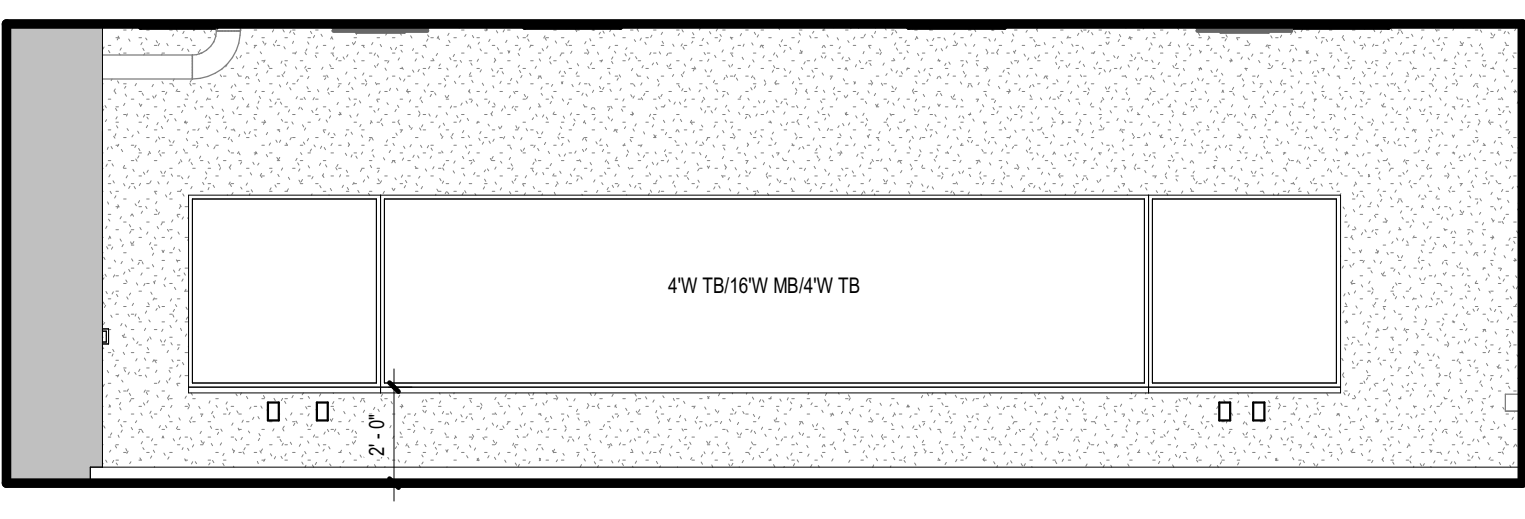
22 B114 KINDERGARTEN WEST
1/4" = 1'-0"



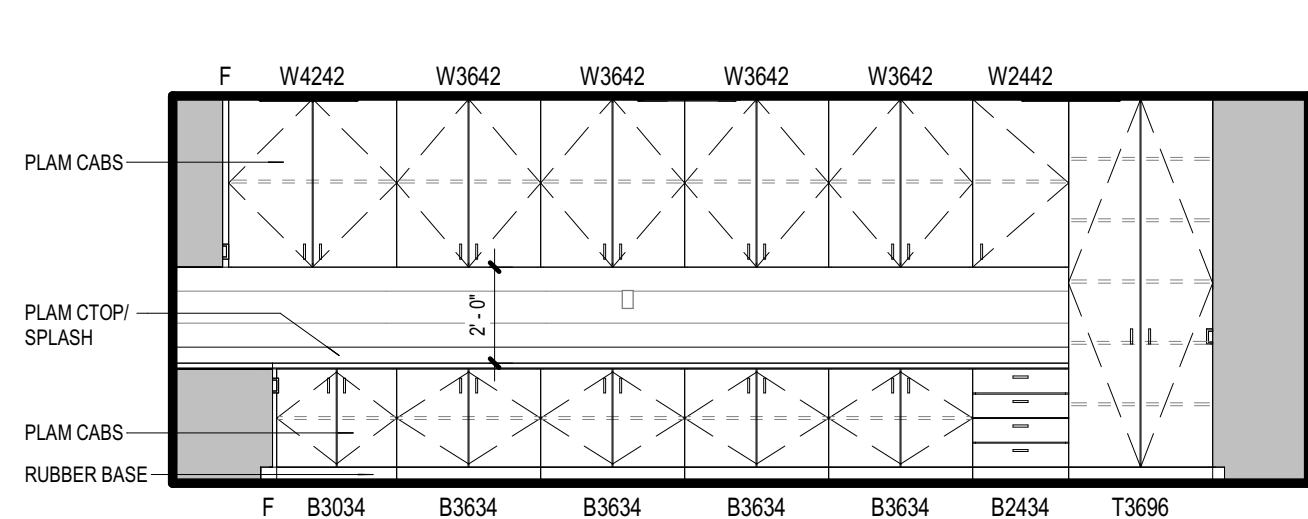
21 B114 KINDERGARTEN SOUTH
1/4" = 1'-0"



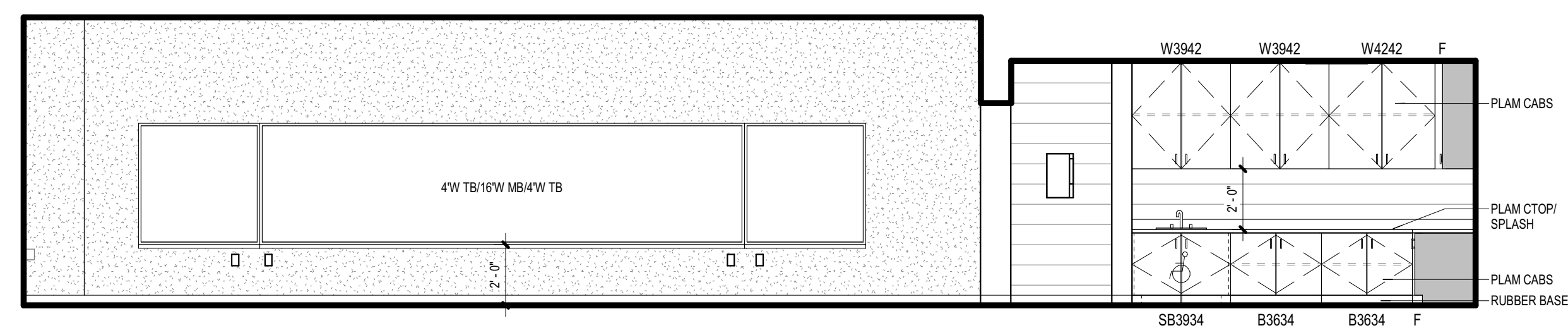
20 B121 PRE-K WEST
1/4" = 1'-0"



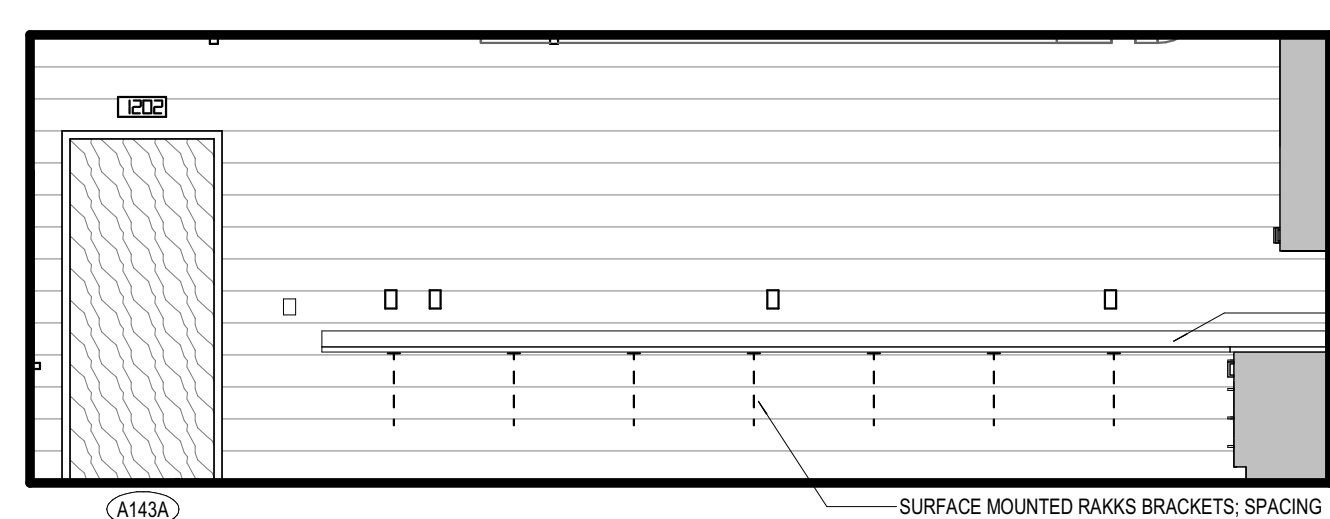
19 B121 PRE-K NORTH
1/4" = 1'-0"



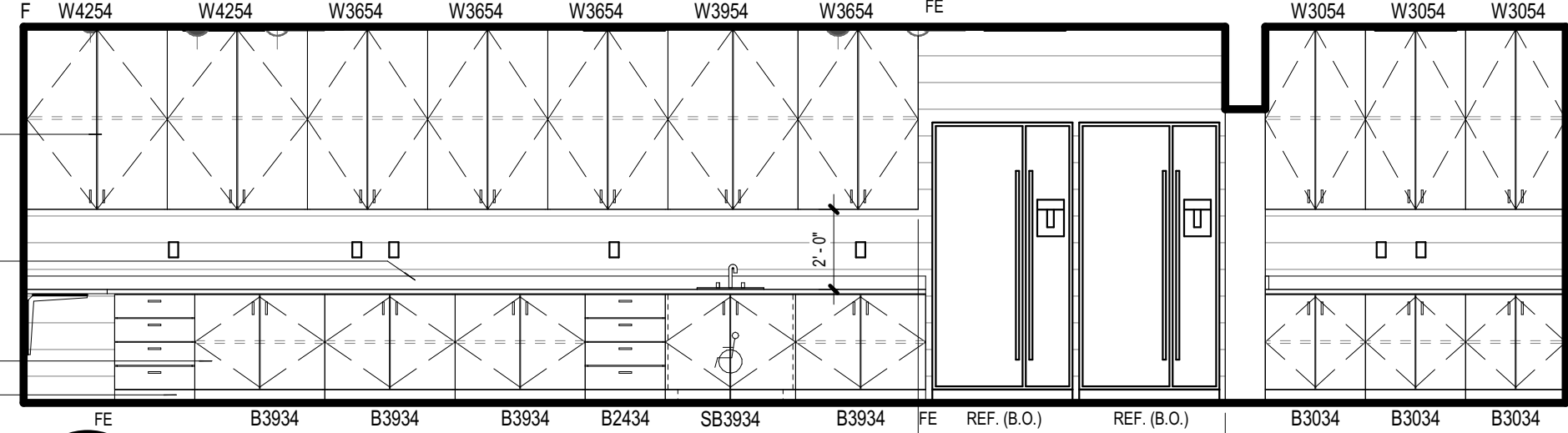
18 B118 KINDERGARTEN WEST
1/4" = 1'-0"



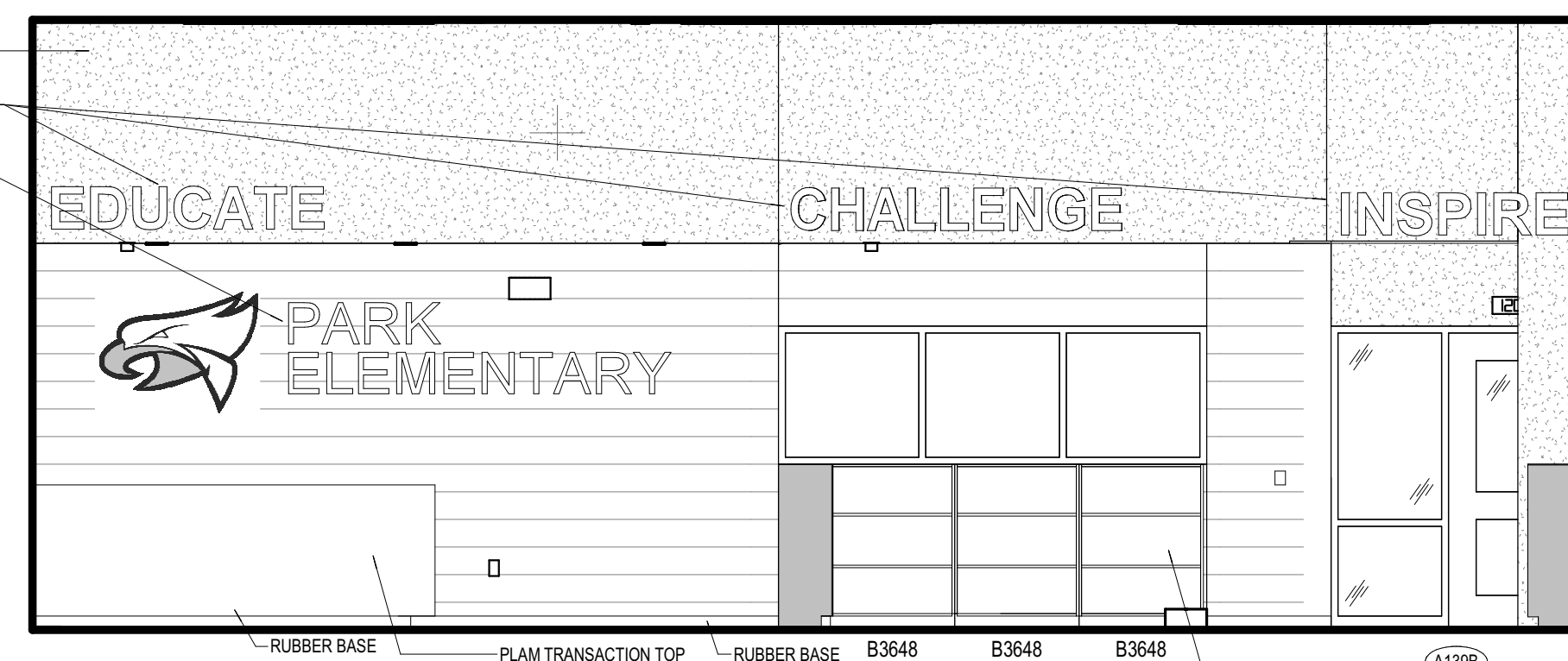
17 B118 KINDERGARTEN SOUTH
1/4" = 1'-0"



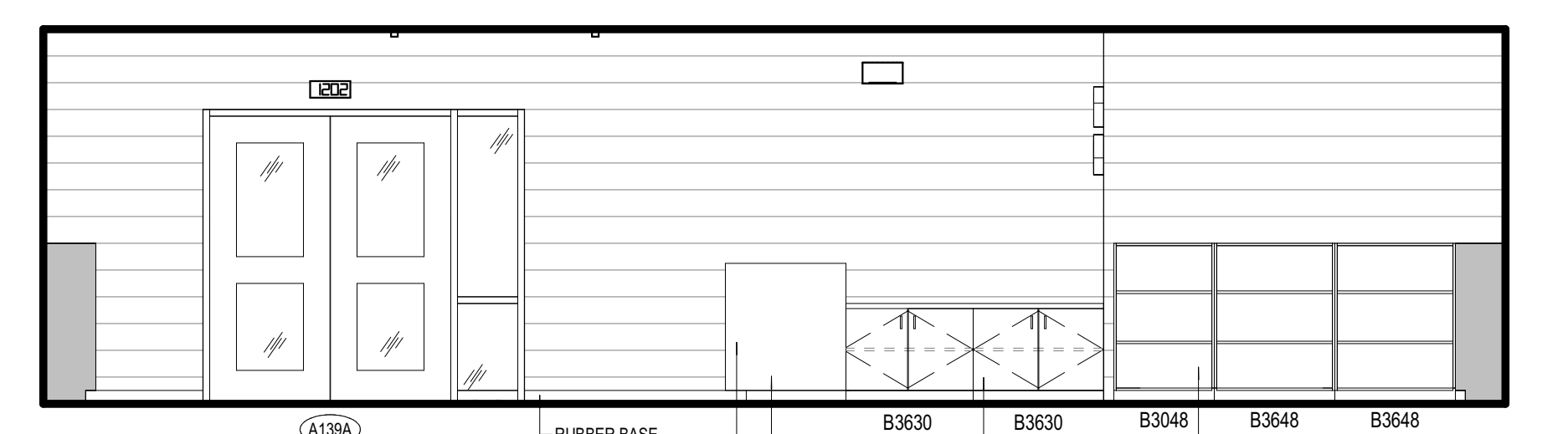
16 A143 STAFF PLANNING SOUTH
1/4" = 1'-0"



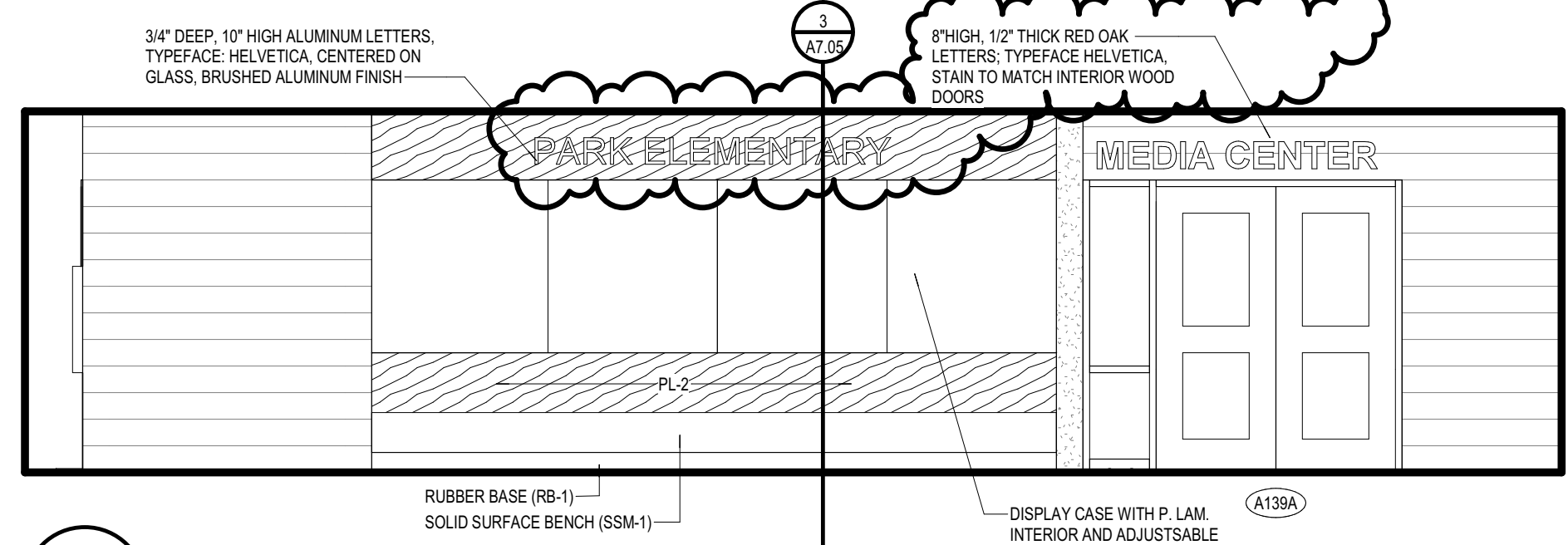
15 A143 STAFF PLANNING WEST
1/4" = 1'-0"



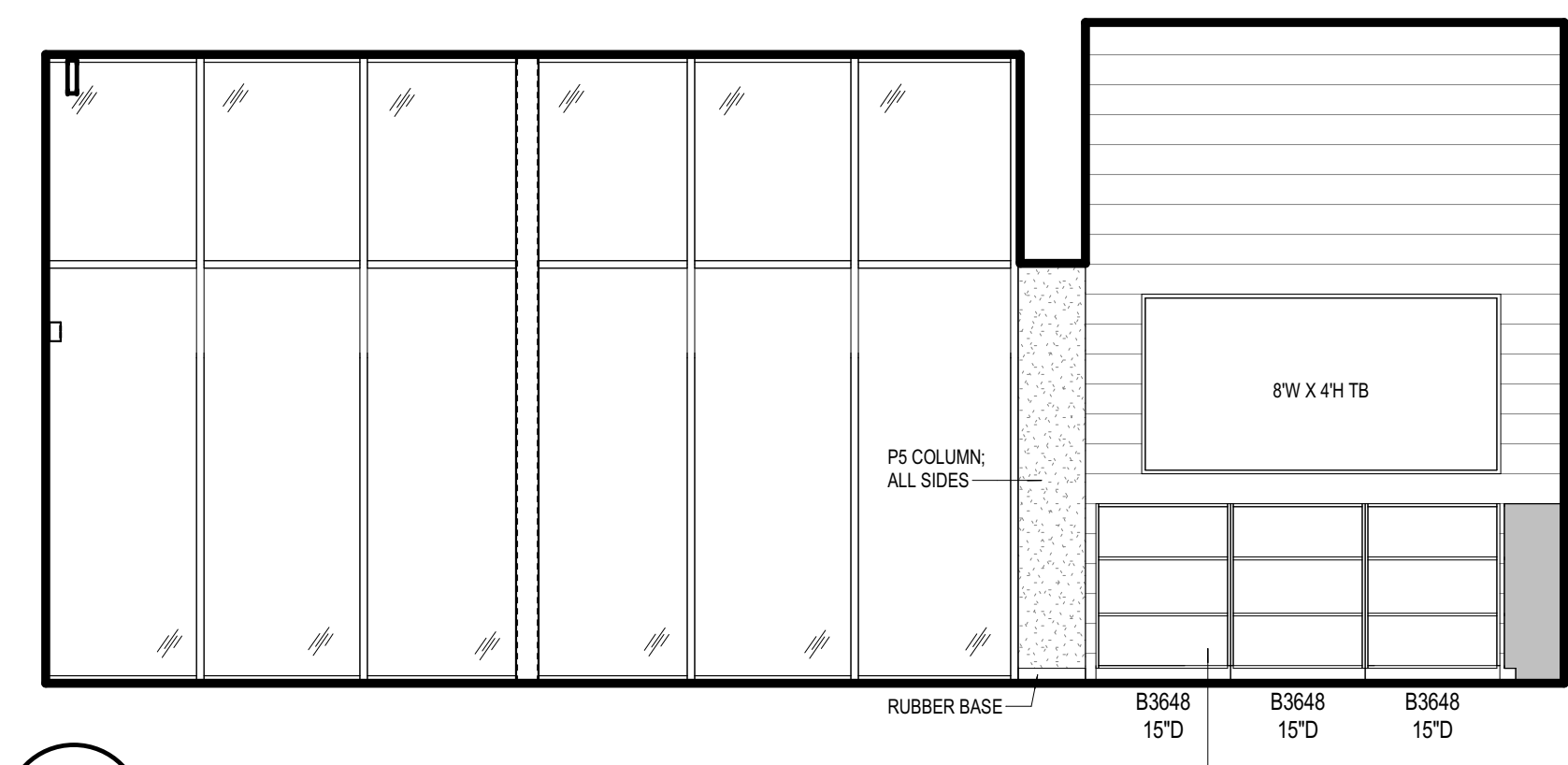
14 A139 MEDIA CENTER WEST
1/4" = 1'-0"



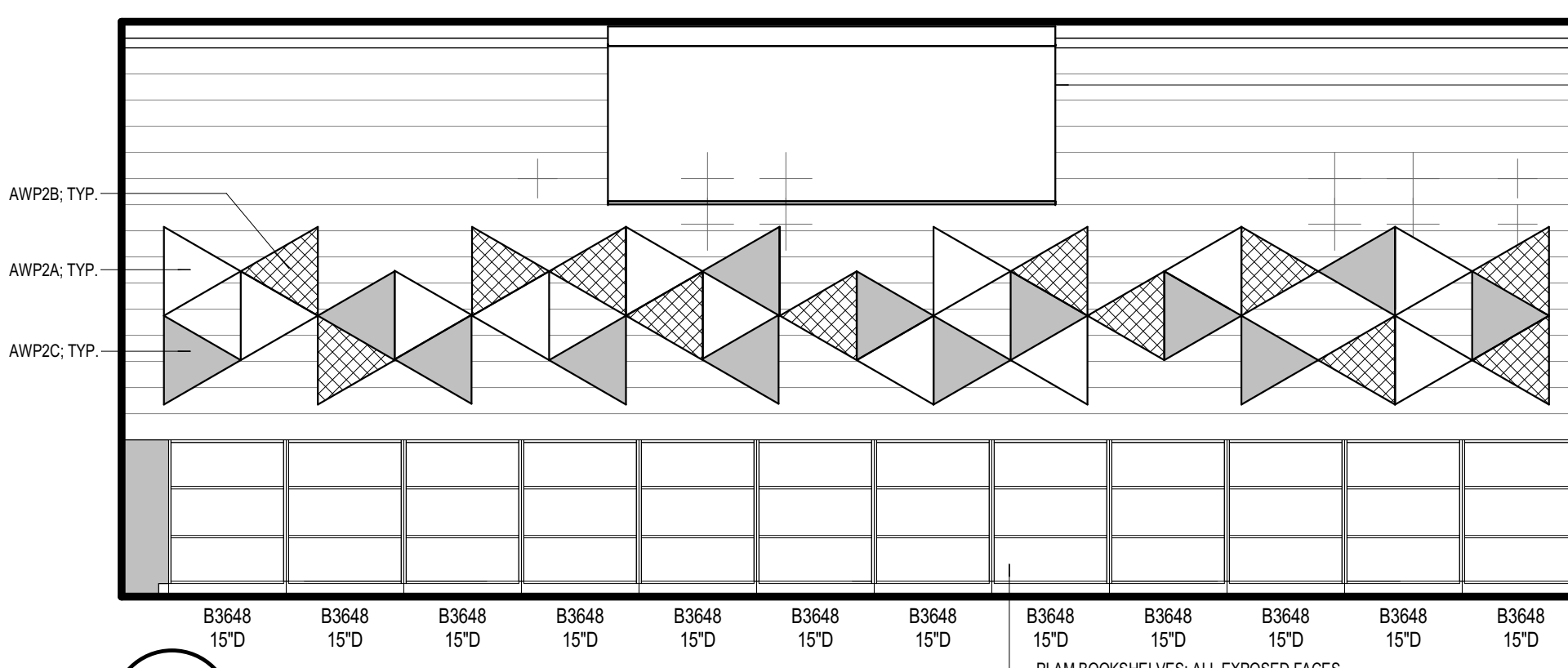
13 A139 MEDIA CENTER SOUTH
1/4" = 1'-0"



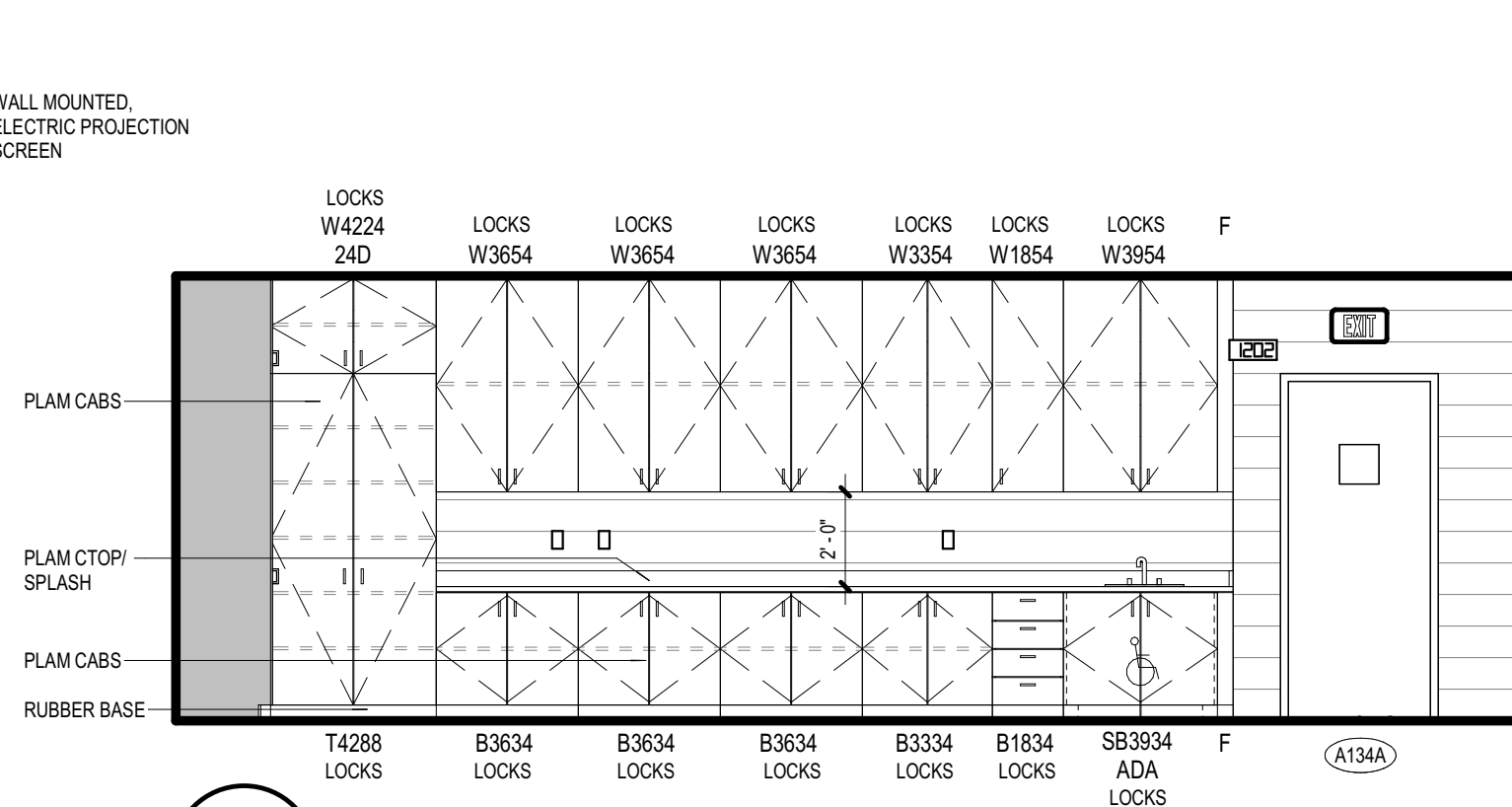
12 A128 CORRIDOR NORTH
1/4" = 1'-0"



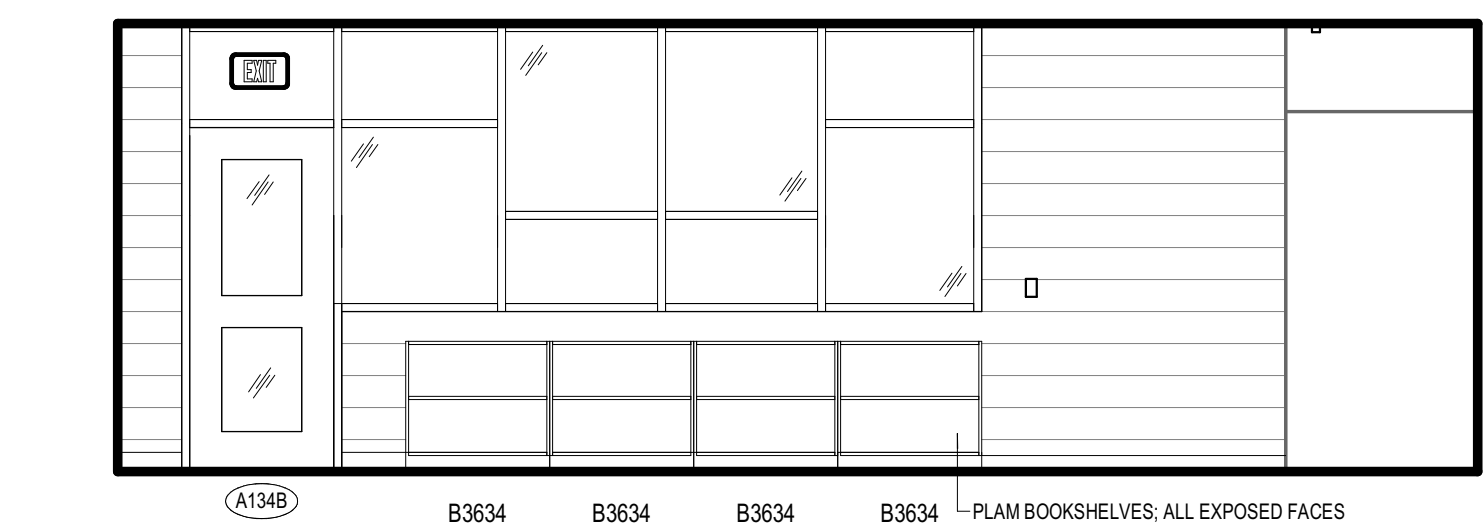
11 A139 MEDIA CENTER NORTH
1/4" = 1'-0"



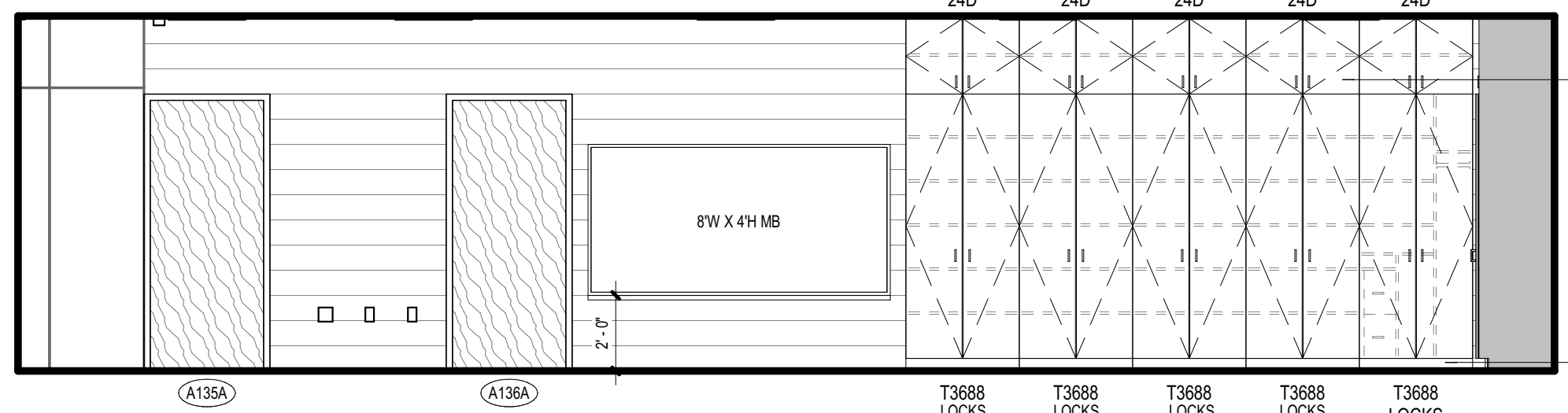
10 A139 MEDIA CENTER EAST
1/4" = 1'-0"



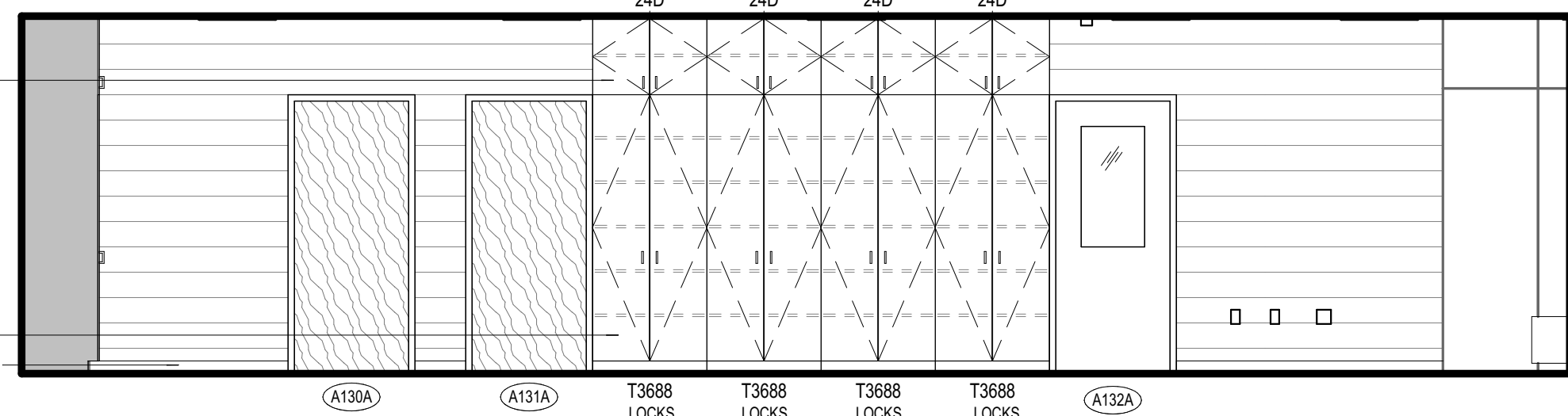
9 A134 CI CLASSROOM SOUTH
1/4" = 1'-0"



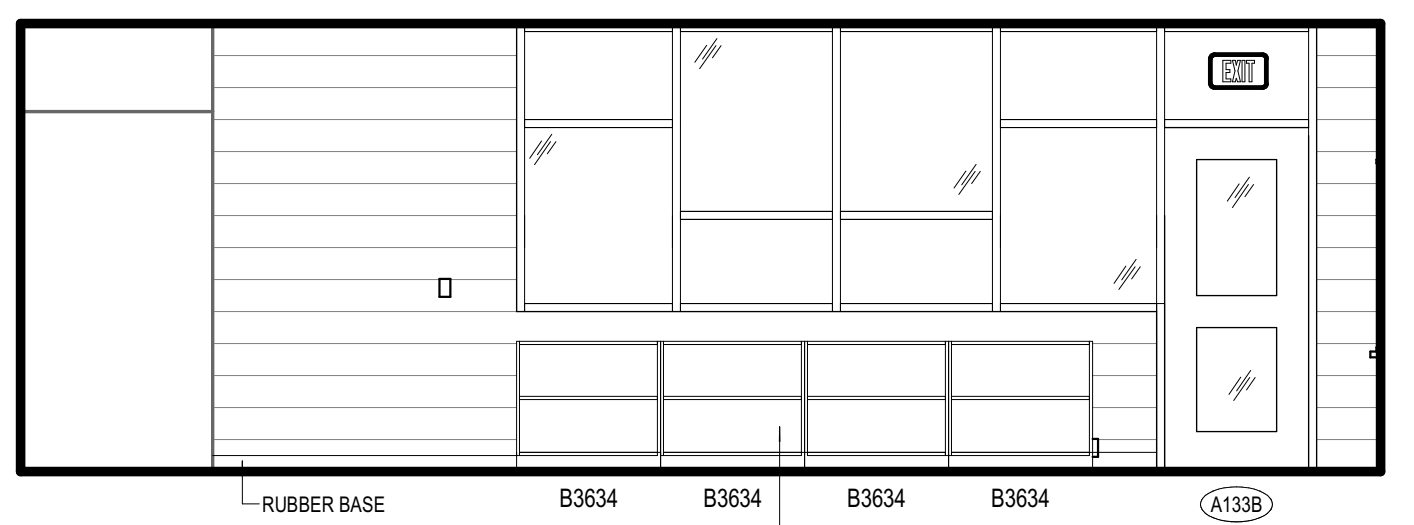
8 A134 CI CLASSROOM NORTH
1/4" = 1'-0"



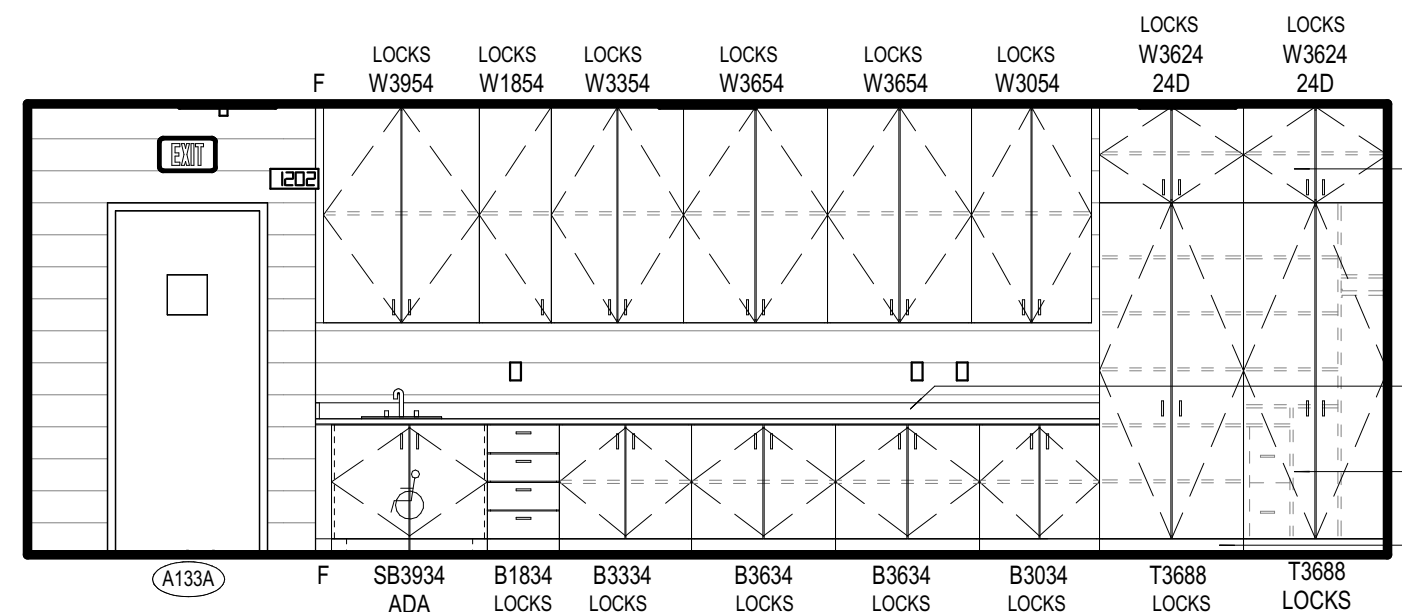
7 A134 CI CLASSROOM EAST
1/4" = 1'-0"



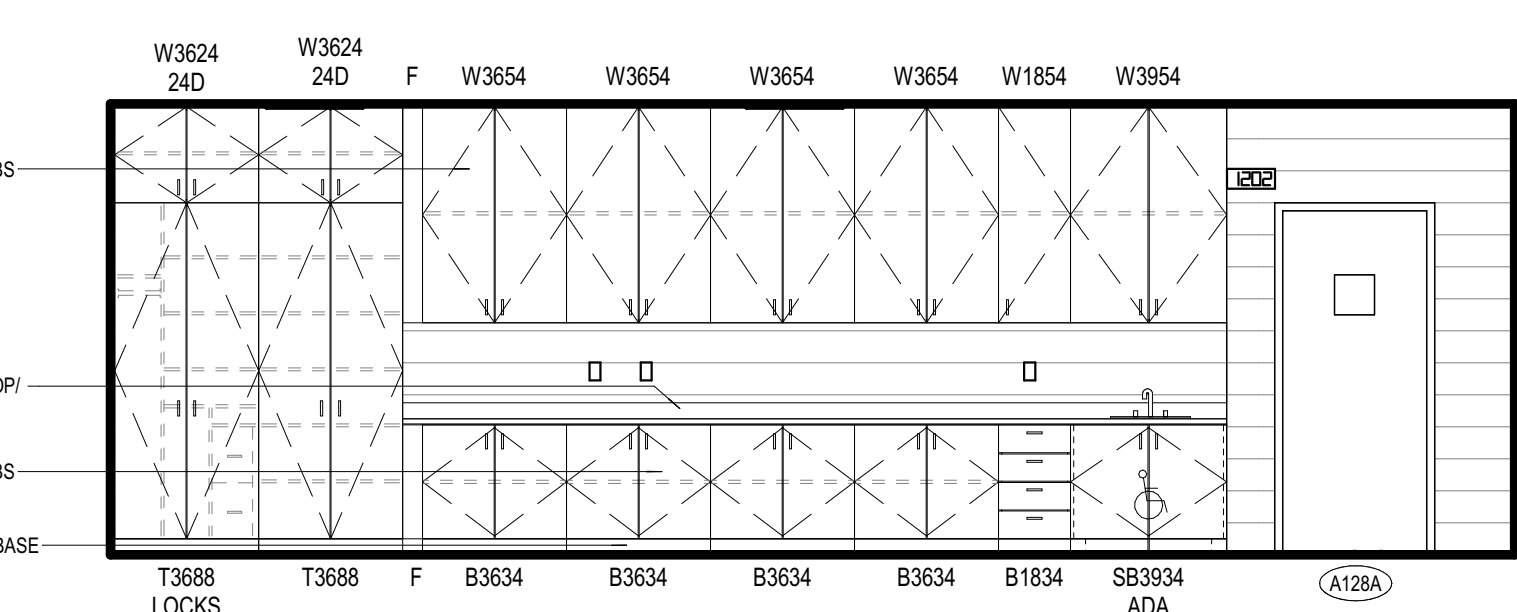
6 A133 CI CLASSROOM WEST
1/4" = 1'-0"



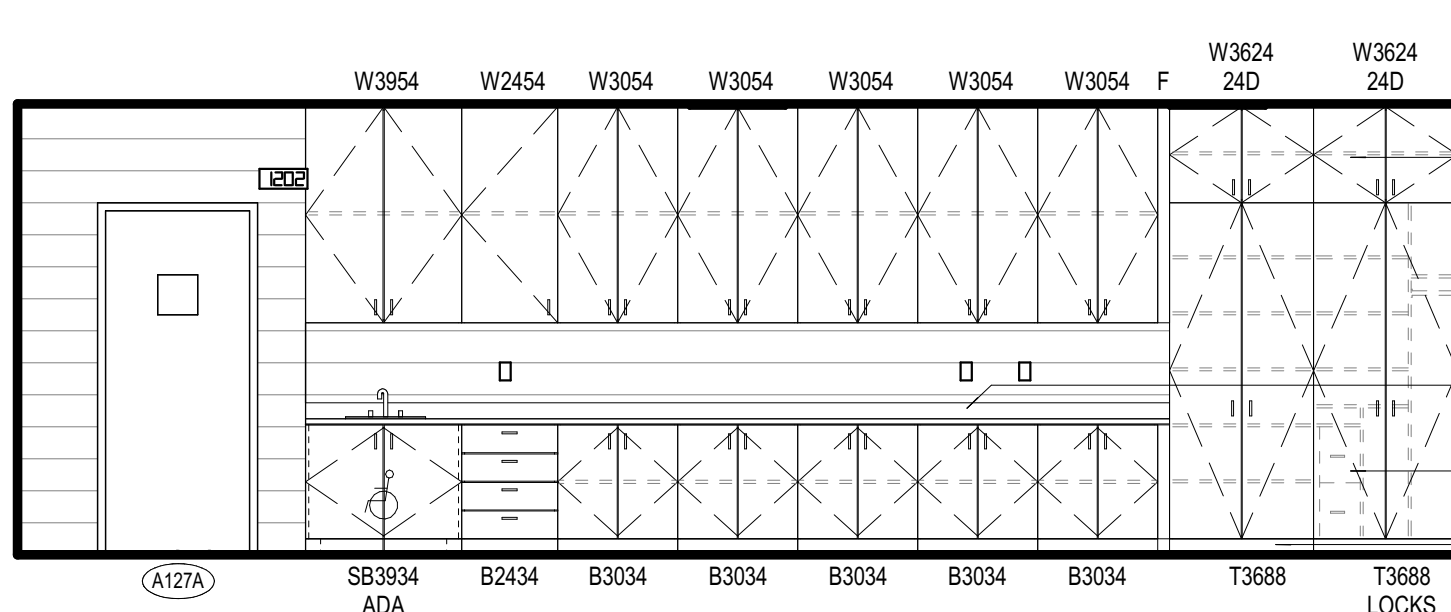
5 A133 CI CLASSROOM NORTH
1/4" = 1'-0"



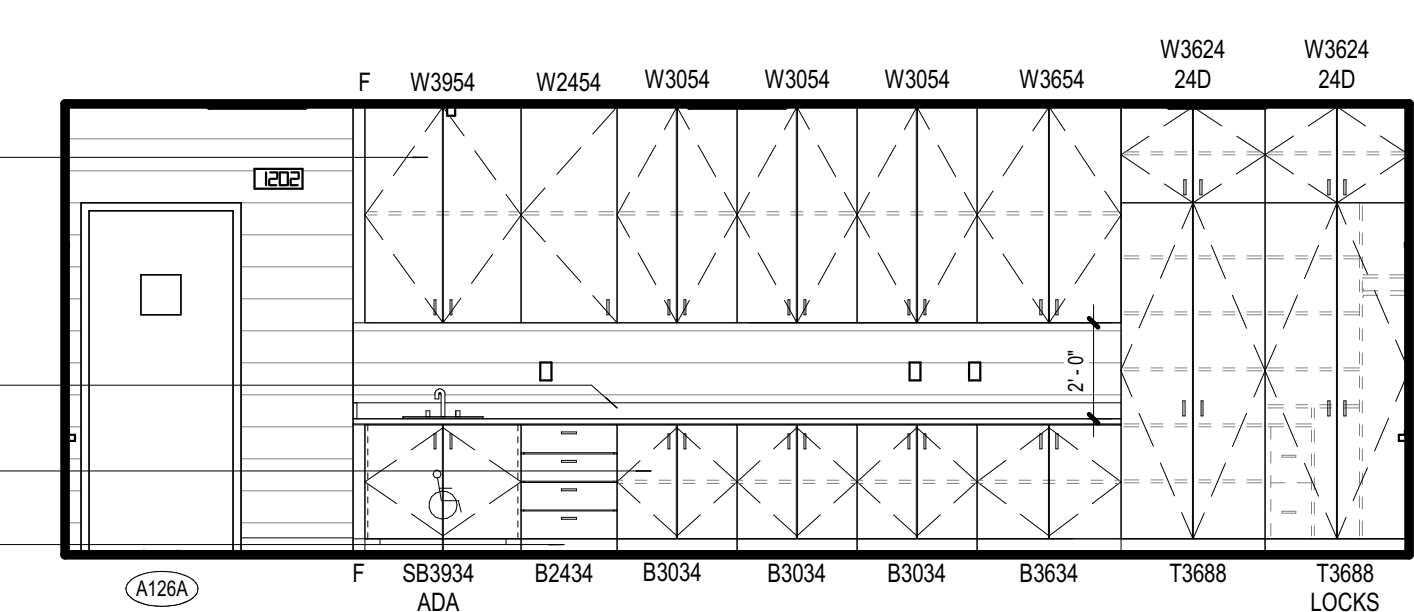
4 A133 CI CLASSROOM SOUTH
1/4" = 1'-0"



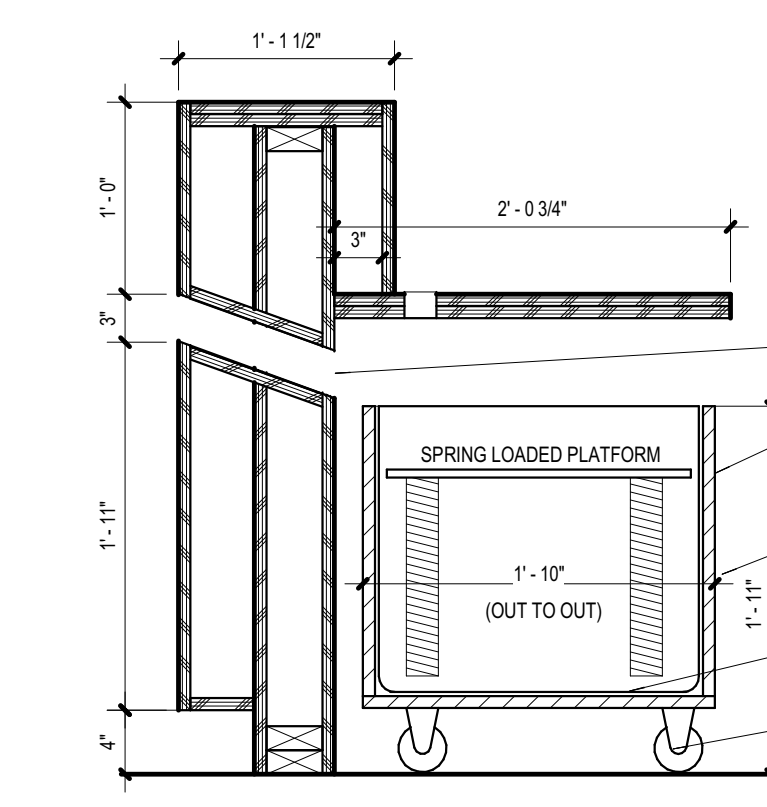
3 A128 CLASSROOM NORTH
1/4" = 1'-0"



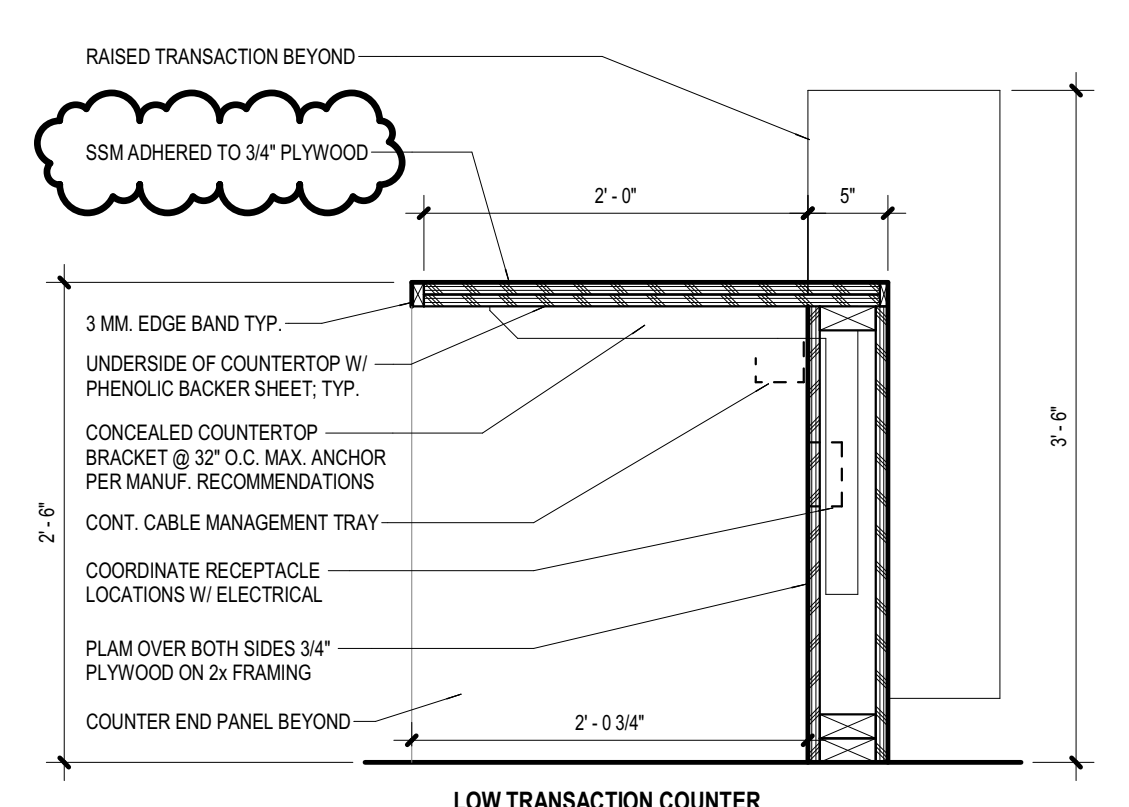
2 A127 CLASSROOM NORTH
1/4" = 1'-0"



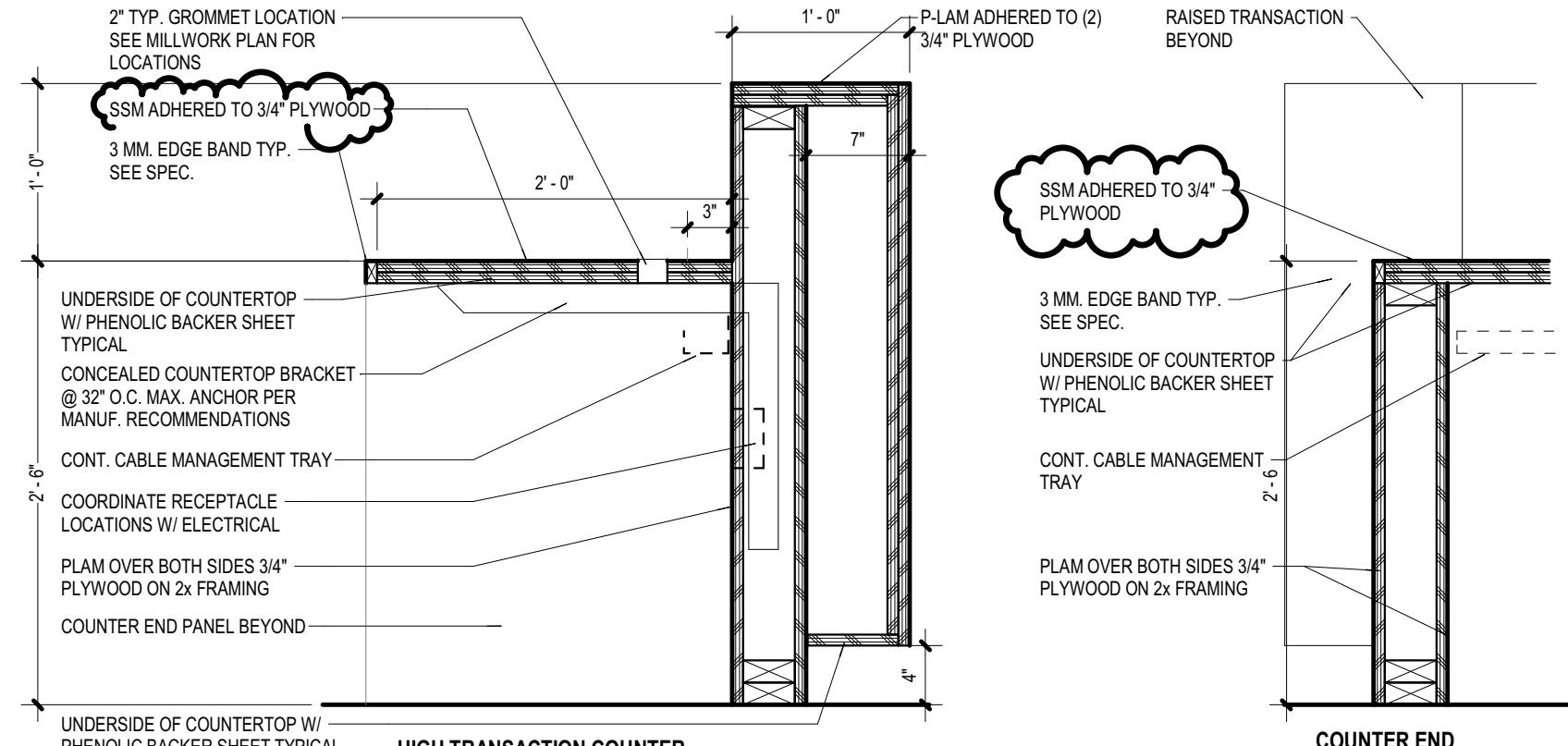
1 A126 CLASSROOM NORTH
1/4" = 1'-0"



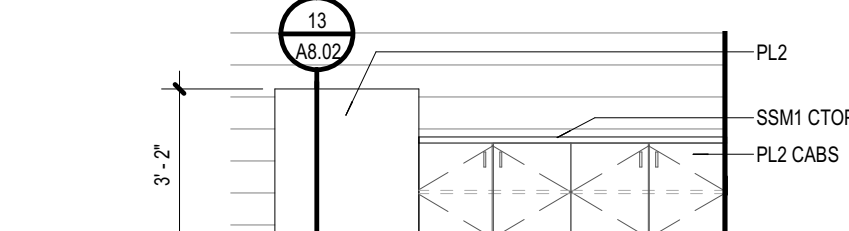
14 BOOK DROP SECTION
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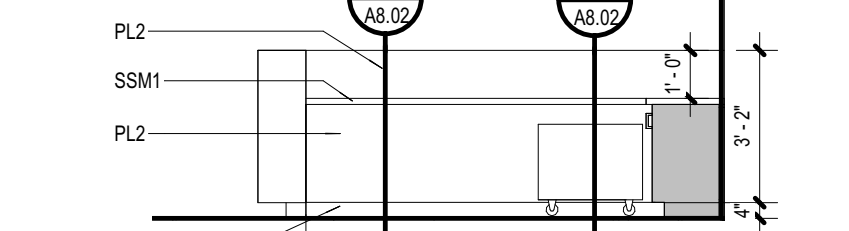
13 MILLWORK DESK
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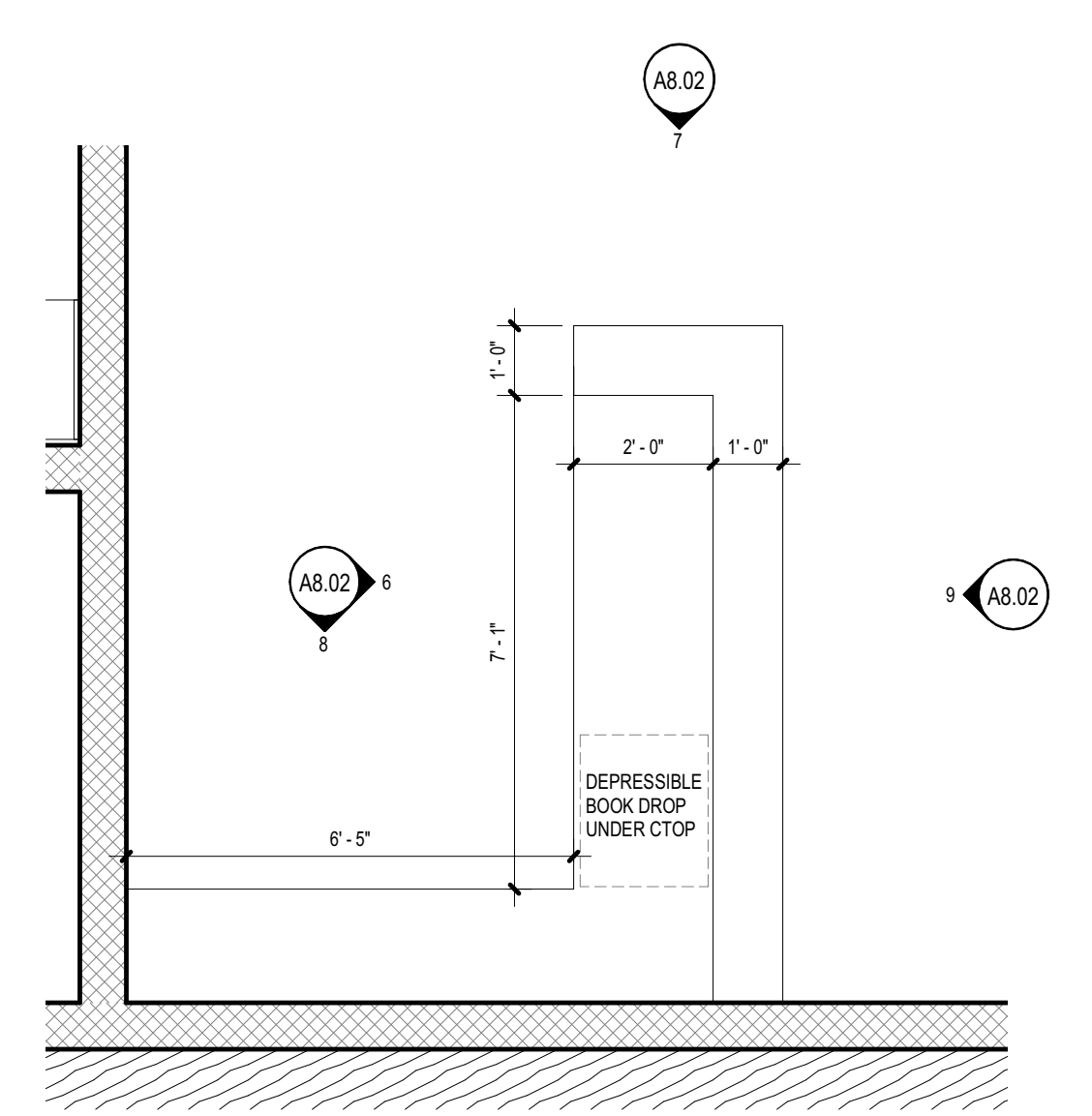
8 A139 CIRCULATION SOUTH B
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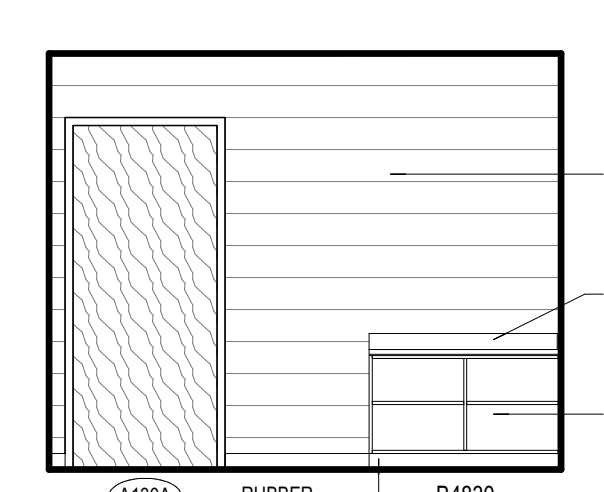
7 A139 CIRCULATION SOUTH A
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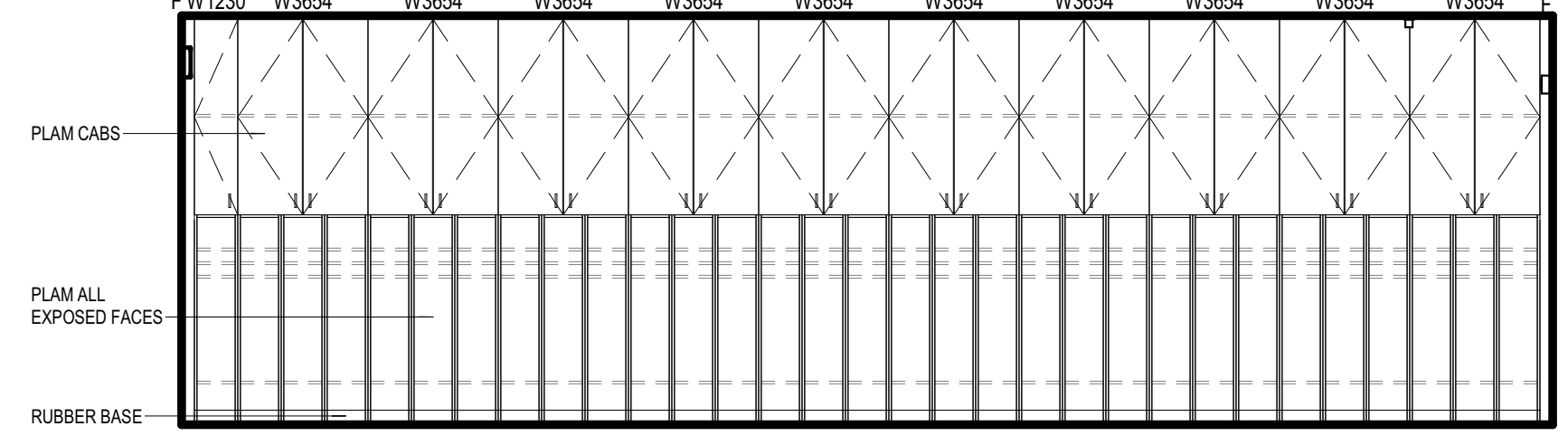
6 A139 CIRCULATION EAST
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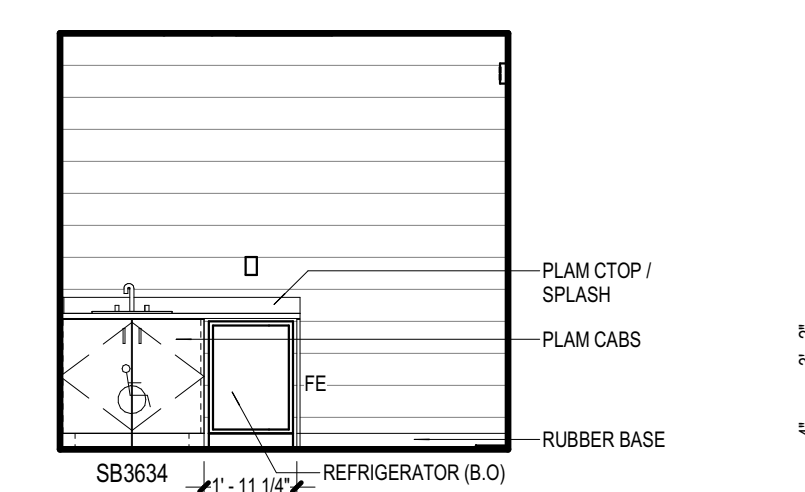
5 A139 MEDIA CENTER CIRCULATION DESK
3'-0\"/>



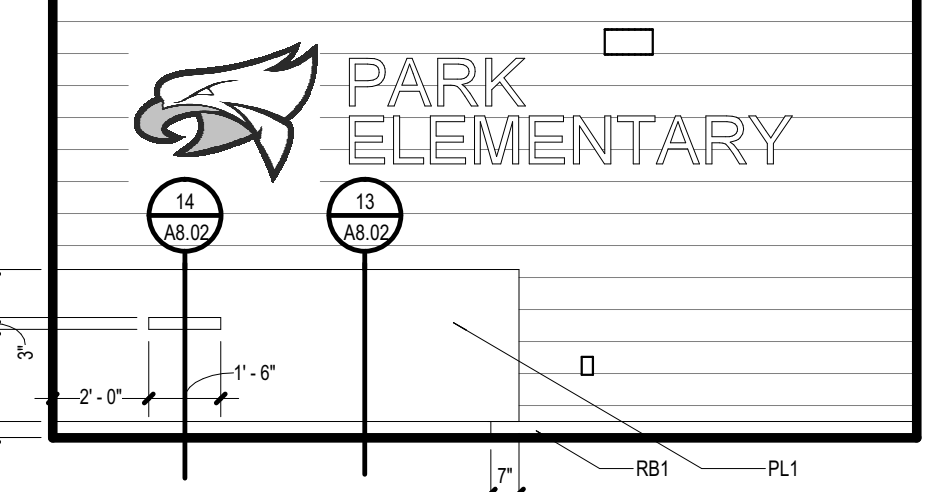
12 A130 TOILET EAST
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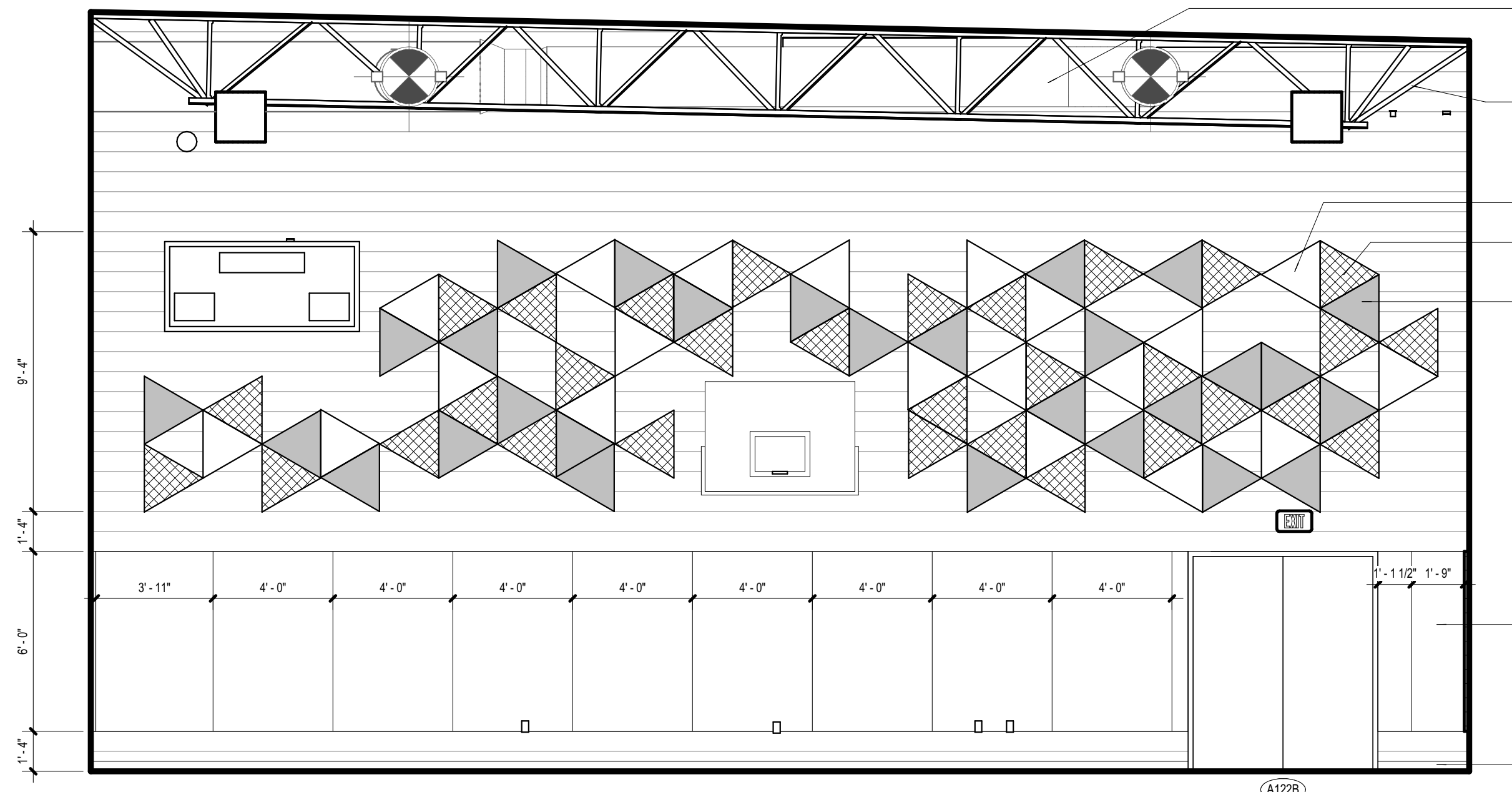
11 B121 PRE-K SOUTH
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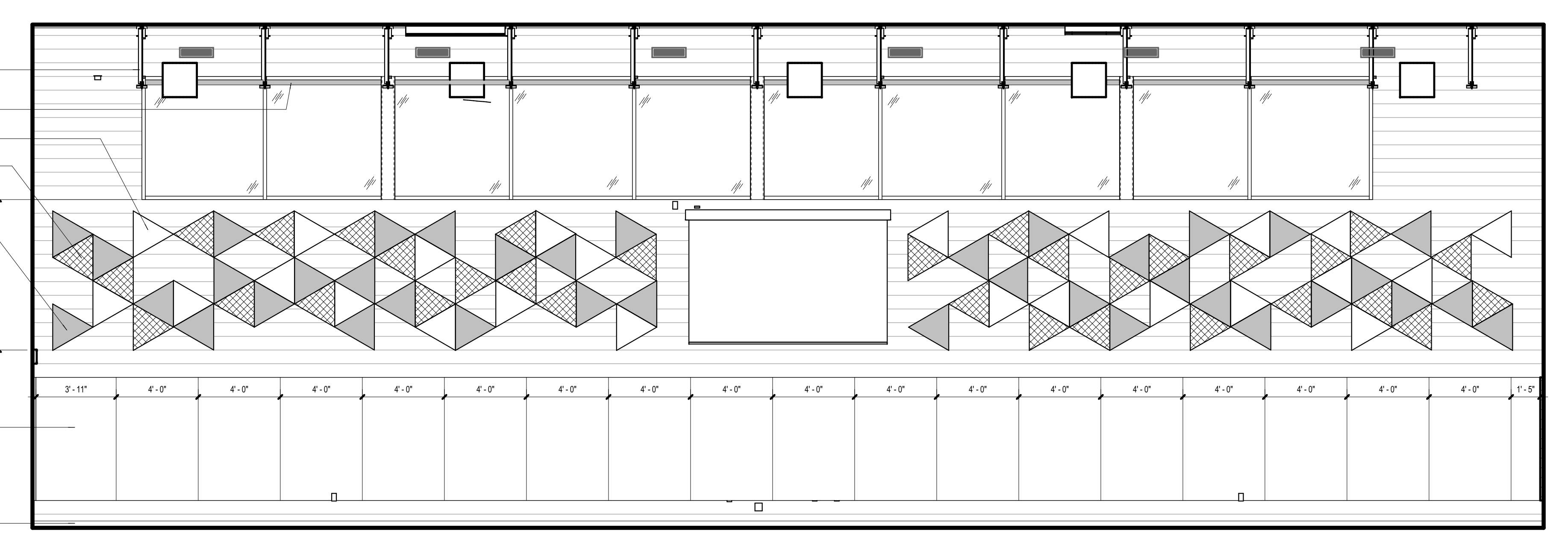
10 141 WELLNESS/ BREAKOUT SOUTH
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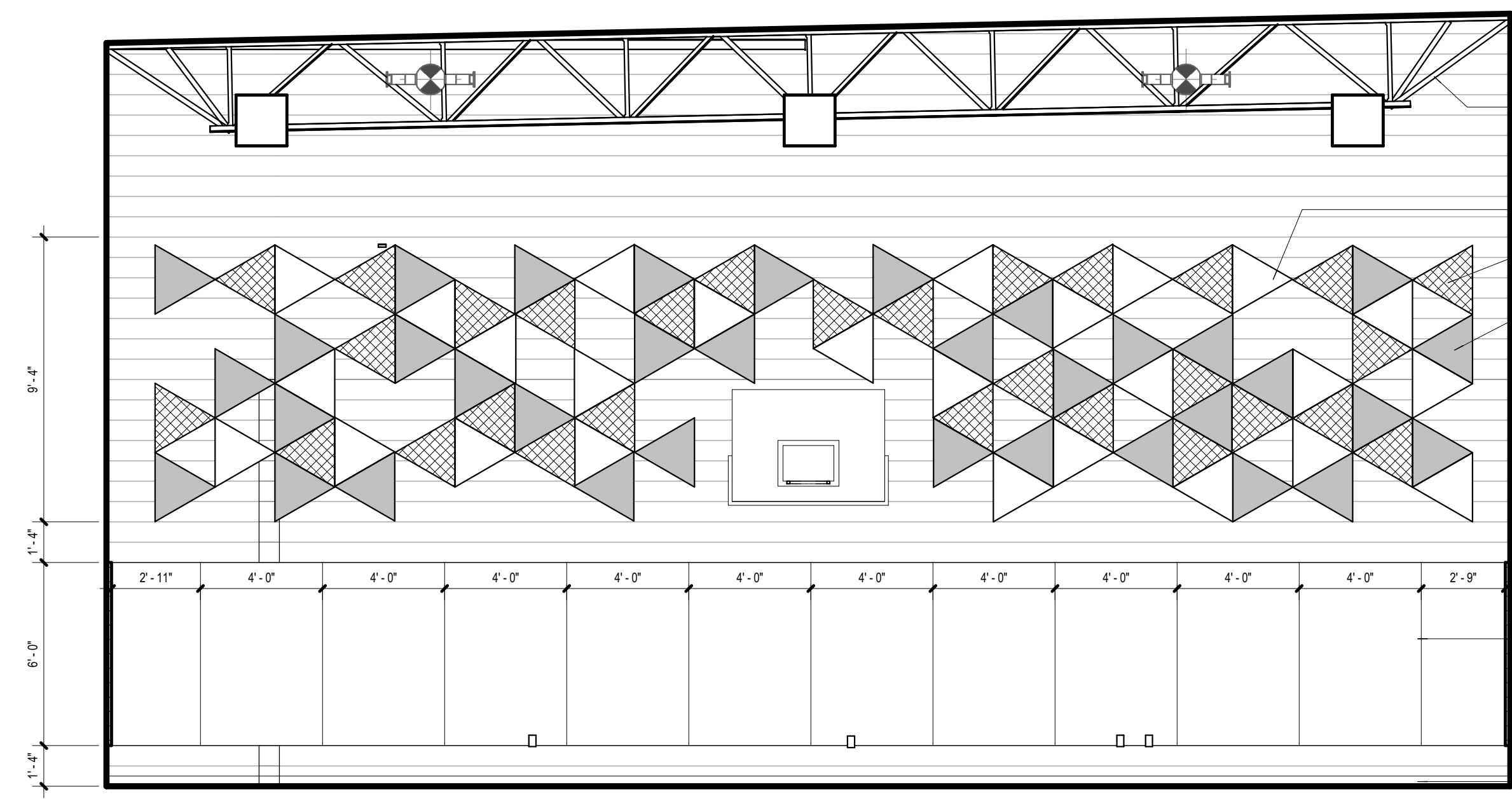
9 A139 CIRCULATION WEST
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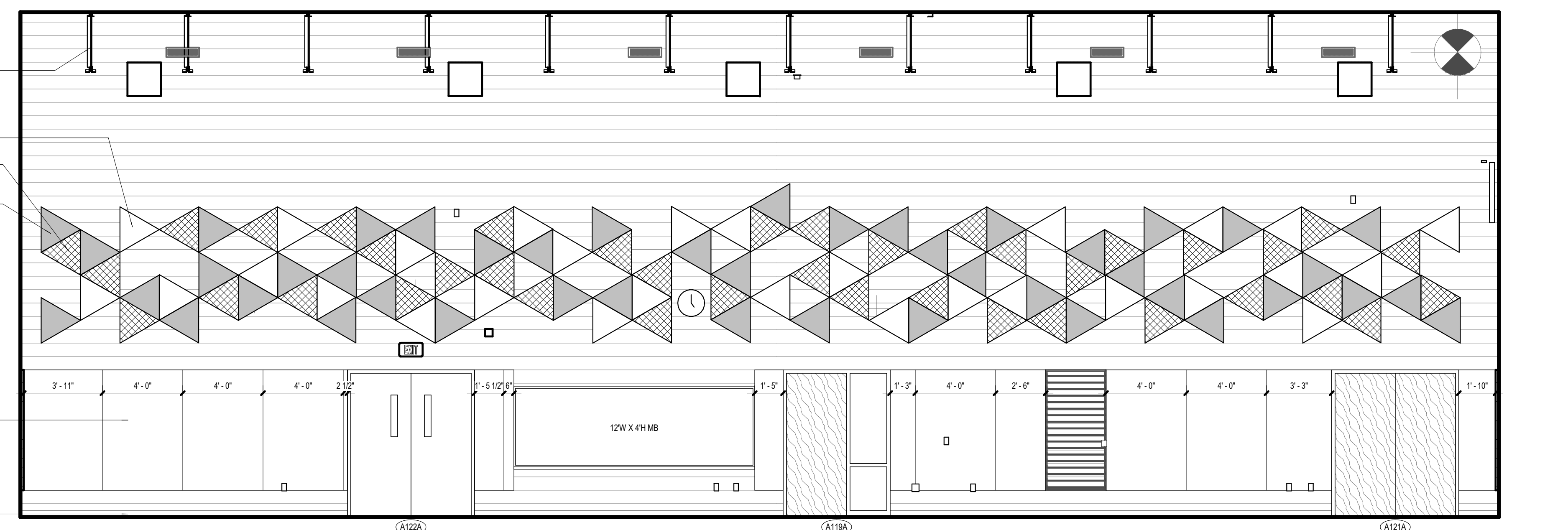
4 A121 GYM SOUTH
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3 A121 GYM WEST
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2 A121 GYM NORTH
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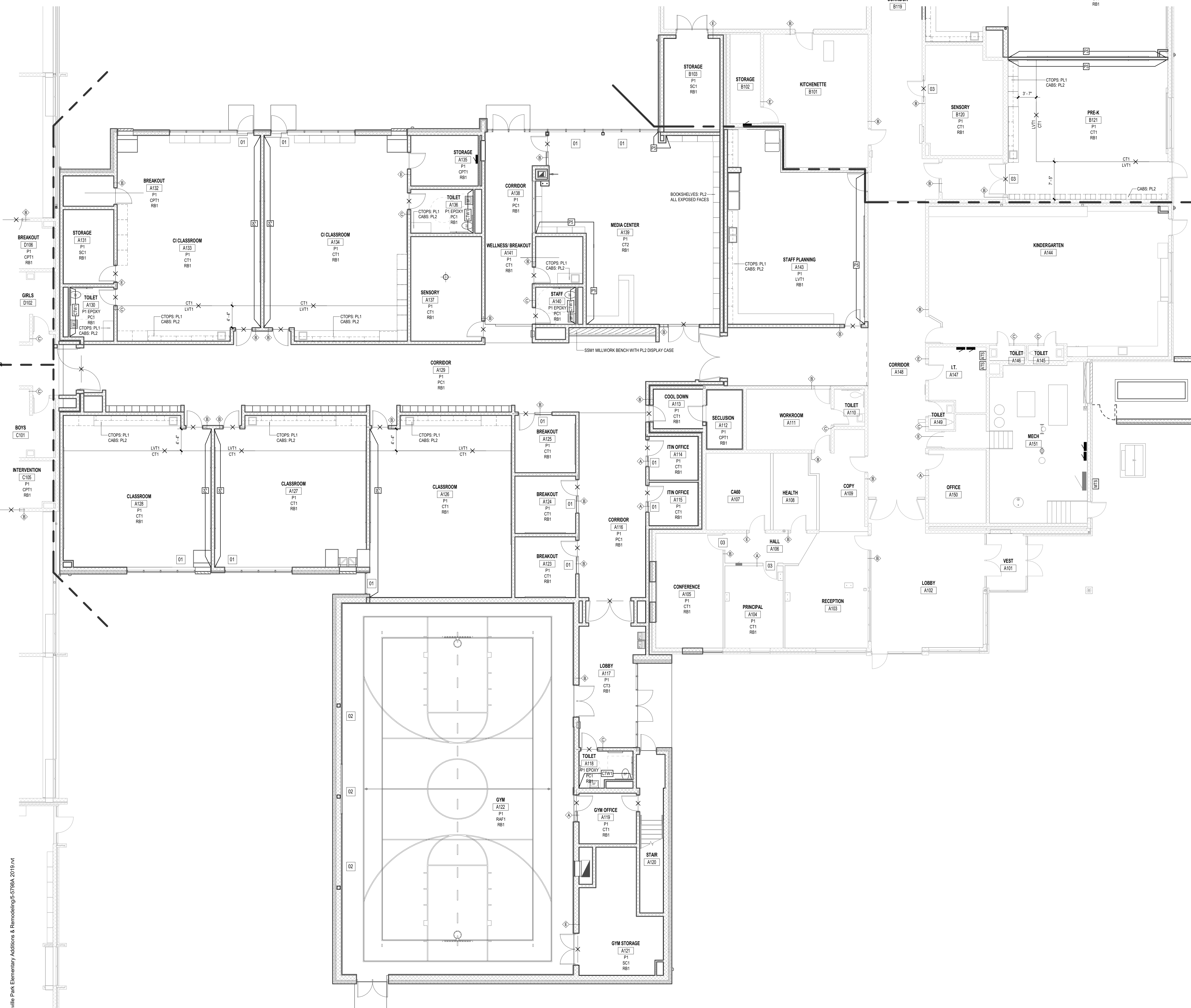
1 A121 GYM EAST
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ISSUANCES
03.23.2023 BIDS & CONSTRUCTION
04.18.2023 ADDENDUM 01

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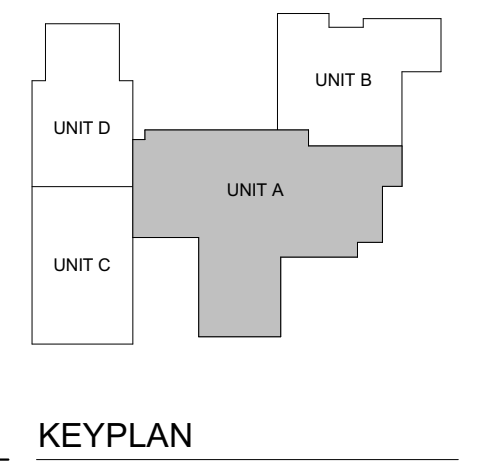
INTERIOR ELEVATIONS AND DETAILS



FINISH SYMBOLS :		FINISH LEGEND :	
ROOM NAME	CT11	ACT1	ACOUSTICAL CEILING TILE MFR: USG STYLE: SAKAR CLIMA PLUS 2210 COLOR: WHITE SIZE: 24" X 24" X 5/8" GRID: DOWN DOWNS
WALL FINISH	CT11	AWP1	ACOUSTICAL WALL PANEL MFR: ARMSTRONG STYLE: TECTUM WALL PANEL COLOR: FIELD PAINTED SEE ELEVATIONS SIZE: 27" X 27" X 2"
FLOOR FINISH	CT11	AWP2	ACOUSTICAL WALL PANEL MFR: ARMSTRONG STYLE: TECTUM WALL PANEL COLOR: FIELD PAINTED SEE ELEVATIONS SIZE: 27" X 27" X 2"
BASE FINISH	CT11	AWP3	ACOUSTICAL WALL PANEL MFR: DESKONTEX GAMUT - FINCH 3468-204 AWP30: DESKONTEX GAMUT - FEWTER 3468-808 AWP32: DESKONTEX GAMUT - NAVY 3468-407 SIZE: 27" X 27" X 2"
FINISH KEYNOTES :		CO1	CORNER GUARD STAINLESS STEEL CORNER GUARD
01	MANUAL ROLLER SHADE LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION	CT1	CARPET TILE MFR: INTERFACE STYLE: HE13 COLOR: 10540 IRON ACCENT SIZE: 30 CM X 30 CM INSTALLATION: QUARTER TURN
02	MOTORIZED ROLLER SHADES LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION	CT2	CARPET TILE MFR: SHAW CONTRACT STYLE: FAMILIAR TILE ST25 COLOR: RANSTORM 3535 SIZE: 36" X 36" IN INSTALLATION: ASH-JR
03	PANT EXISTING HM-WOOD DOOR FRAME P2; INTERIOR ROOM SIDE ONLY	CT3	CARPET TILE MFR: INTERFACE STYLE: HE13 COLOR: 10540 IRON ACCENT SIZE: 30 CM X 30 CM INSTALLATION: QUARTER TURN
GENERAL FINISH NOTES :			
1. ALL AREAS OF CARPET, LVT, SEALED CONCRETE, OR OTHER RESILIENT FLOORING TO RECEIVE RUBBER BASE, U.N.O. ON FINISH PLANS.			
2. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.			
3. ALL REDUCERS TO COORDINATE APPROPRIATELY WITH ADJACENT MATERIAL HEIGHT.			
4. INSTALL 4" H. RUBBER BASE (RB) AT CASEWORK TOE KICKS, INSIDE OF FLOORLESS CASEWORK, AND VERTICAL SUPPORTS.			
5. SEE SPECIFICATIONS FOR RESILIENT ACCESSORY INFORMATION.			
6. PAINT ALL EXPOSED MECHANICAL AND ELECTRICAL ITEMS INTENDED TO RECEIVE FIELD PAINT TO MATCH ADJACENT SURFACES; U.N.O.			
7. DOOR AND WINDOW FRAMES TO BE PAINTED P2; U.N.O.			
8. EXPOSED CEILINGS, DECK, DUCTWORK, STRUCTURE AND OTHER MISC. EXPOSED ITEMS TO BE PAINTED; U.N.O. ON INTERIOR ELEVATIONS, CEILING PLANS OR FINISH PLANS.			
9. FACE & UNDERSIDE OF BULKHEADS TO BE PAINTED P1; U.N.O. ON FINISH PLANS OR NOTED ON INTERIOR ELEVATIONS.			
10. REFER TO CEILING PLANS & CEILING SPECIFICATIONS FOR SPECIAL CEILING DESIGNATIONS AND ACT TYPES.			
11. REFER TO INTERIOR ELEVATION SHEETS FOR MORE DETAILED PAINT AND INTERIOR FINISH INFORMATION.			
12. ALL WALL TILE INSTALLATIONS SHOULD BE FULL HEIGHT, UNLESS NOTED OR SHOWN OTHERWISE ON INTERIOR ELEVATIONS.			
13. WHERE MATERIALS TRANSITION AT DOOR THRESHOLD, TRANSITION SHOULD OCCUR AT THE CENTER OF THE DOOR IN THE CLOSE POSITION.			
14. MECHANICAL & ELECTRICAL ROOM FINISHES: AS A TYPICAL PAINT WALLS, DO NOT PAINT EXPOSED STRUCTURE, DO NOT PROVIDE WALL BASE. TYPICAL UNLESS NOTED OTHERWISE ON FINISH PLANS.			
15. WHERE SEALED CONCRETE (SC) IS SPECIFIED, REFER TO SPECIFICATION SECTION 09 90 00 PAINTING, FOR SYSTEM TYPE.			
16. REFER TO SPECIFICATIONS FOR ALL PAINT TYPES.			
17. ALL PAINTED WALLS IN TOILET ROOMS, KITCHENS, LOCKER ROOMS, SCIENCE ROOMS, STEM AND MAKERSPACES SHALL RECEIVE EPOXY PAINT.			
18. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF OWNER FURNISHED EQUIPMENT, INCLUDED DIMENSIONS OF SUCH AS THEY RELATE TO THEIR OWN WORK.			
19. REMOVE, SALVAGE AND RE-INSTALL EXISTING ROOM SIGNAGE PRIOR TO PAINTING WALLS IN AREAS OF WORK, TYP.			
20. REMOVE AND SALVAGE ALL WALL MOUNTED FURNISHINGS AND ARTWORK PRIOR TO PAINTING. COORDINATE SALVAGE AND RE-INSTALLATION WITH OWNER.			
21. DO NOT PAINT OVER EXISTING GLAZED FACE BLOCK OR EXPOSED BRICK, U.N.O.			
22. PROTECT ALL FINISHES DURING CONSTRUCTION.			

BM 36015-5795 Hudsonville Park Elementary Additions & Remodeling-5795A_2019.rvt
3/23/2023 12:38:24 AM

UNIT 'A' FIRST FLOOR FINISH PLAN
1/8" = 1'-0"



ISSUANCES
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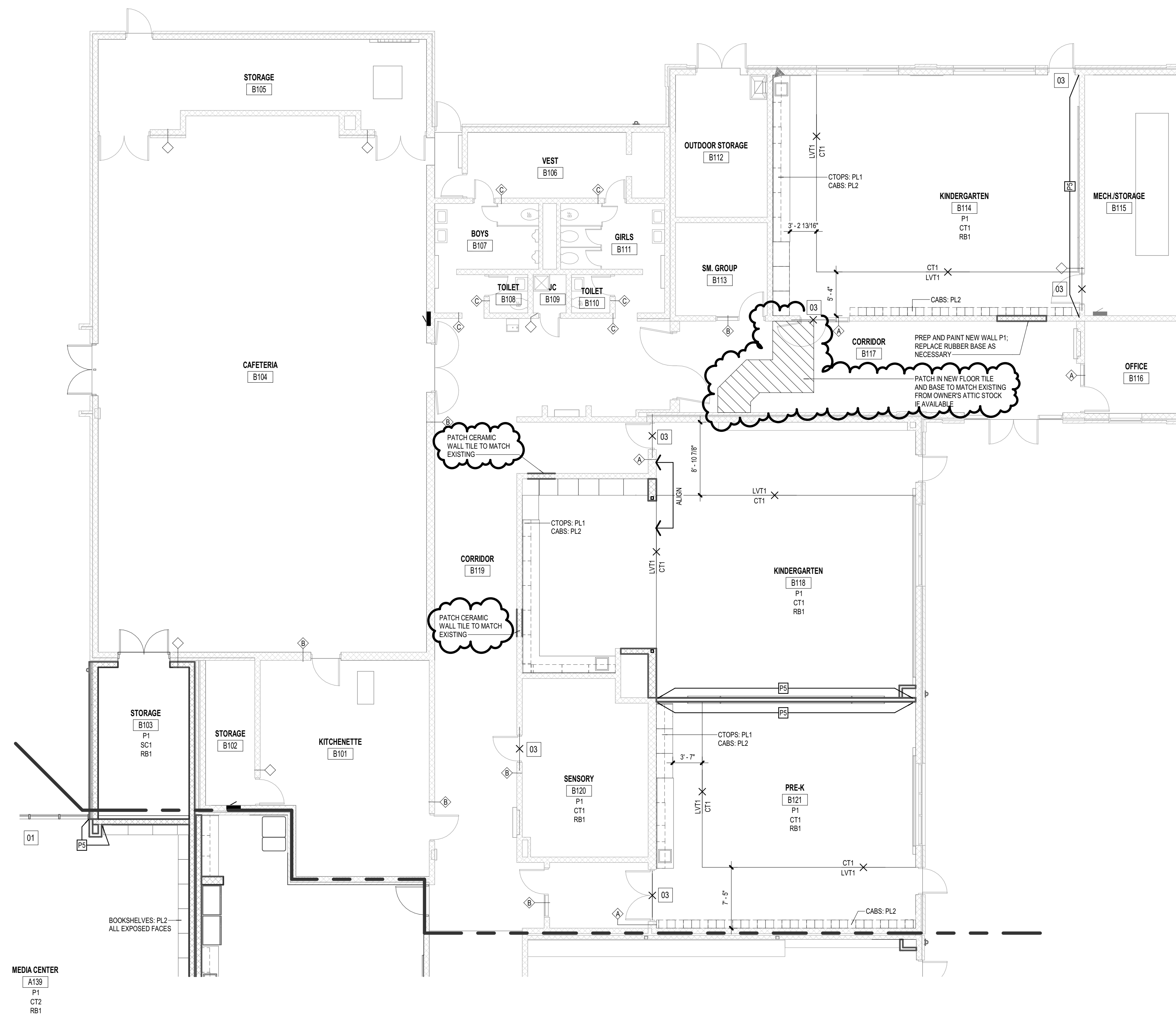
PROJECT NO. 5-5798

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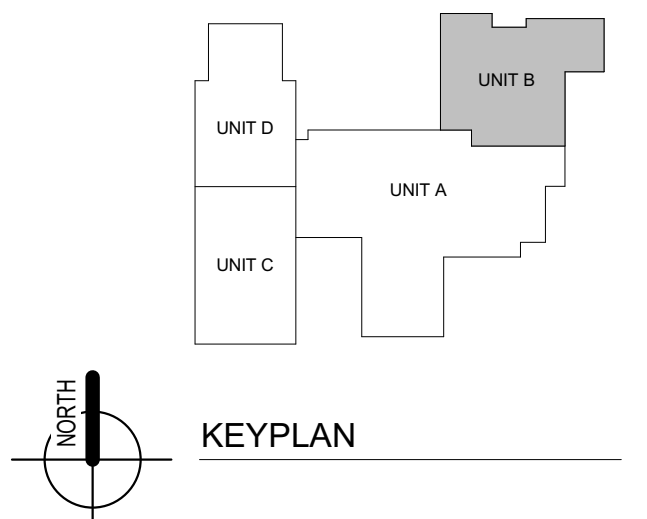
UNIT 'A' FIRST FLOOR FINISH PLAN

A9.1A

FINISH SYMBOLS :		FINISH LEGEND :	
ROOM NAME	CPT1 X FLOORING TRANSITION	ACT1	ACOUSTICAL CEILING TILE MFR: USG STYLE: RADAR CLIMA PLUS 2210 COLOR: WHITE SIZE: 24" X 24" X 5/8" GRID: DONN DDXDWL
WALL FINISH	VCT1 X	AWP1	ACOUSTICAL WALL PANEL MFR: ARMSTRONG STYLE: TECTUM WALL PANEL COLOR: FIELD PAINTS SEE ELEVATIONS SIZE: 27L X 27W X 2D
FLOOR FINISH		AWP2	ACOUSTICAL WALL PANEL MFR: KINETICS OR EQUAL STYLE: IMPACT RESISTANT WALL PANEL COLOR: AWP2A: DESIGNTEX GAMUT - FINCH 3468-204 AWP2B: DESIGNTEX GAMUT - PEWTER 3468-808 AWP2C: DESIGNTEX GAMUT - NAVY 3468-407 SIZE: 27L X 27W X 2D
FINISH KEYNOTES :		CG1	CORNER GUARD STAINLESS STEEL CORNER GUARD
01	MANUAL ROLLER SHADE LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION	CT1	CARPET TILE MFR: INTERFACE STYLE: A312 COLOR: 1564-10 IRON ACCENT SIZE: 50 CM X 50 CM INSTALLATION: QUARTER TURN
02	MOTORIZED ROLLER SHADES LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION	CT2	CARPET TILE MFR: SHAW CONTRACT STYLE: FANLAPAR TILE ST235 COLOR: RAMSTORM 8533 SIZE: 9 IN X 9 IN INSTALLATION: ASHLAR
03	PANT EXISTING-HARDWOOD DOOR FRAME P2; INTERIOR ROOM SIDE ONLY	CT3	CARPET TILE MFR: INTERFACE STYLE: STEP REPEAT SR899 COLOR: 1564-10 IRON SIZE: 50 CM X 50 CM INSTALLATION: MONOLITHIC
		CPT1	CARPET TILE (ROLLED GOODS) MFR: PARQUET STYLE: 2ND POWER 0487 COLOR: IRON 64ND 1922 SIZE: 19" ROLLED GOODS
		CTW1	CERAMIC TILE WALL MFR: DALLIE STYLE: COLOR WHEEL LINEAR COLOR: NAVY SIZE: 4 X 2 INCHES INSTALLATION: 1/8 BRICK OFFSET, FULL HEIGHT WALL
		LVT1	LUXURY VINYL TILE MFR: INTERFACE STYLE: BRUSHED LINES A016 COLOR: GALENA A11604 SIZE: 24 CM X 14
		P1	PAINT (GENERAL) MFR: BENJAMIN MOORE COLOR: MATCH EXISTING GENERAL WALL WHITE
		P2	PAINT (TRIM) MFR: SHERWIN WILLIAMS COLOR: SW7674 PEPPERCORN
		P3	PAINT (ACCENT) MFR: BENJAMIN MOORE COLOR: HC-10 STUART GOLD
		P4	PAINT (ACCENT) MFR: SHERWIN WILLIAMS COLOR: SW7116 GAUNTLET GRAY
		P5	PAINT (ACCENT) MFR: SHERWIN WILLIAMS COLOR: SW6244 NAVAL
		PC1	POLISHED CONCRETE COLOR: NATURAL LEVEL 3 POLISH CLASS 3 AGGREGATE EXPOSURE
		PL1	PLASTIC LAMINATE MFR: WILSONART COLOR: CRISP LINEN
		PL2	PLASTIC LAMINATE MFR: FORMICA COLOR: AGED ASH
		RAF1	RESILIENT ATHLETIC FLOORING MFR: CERFLOR STYLE: TARKLEY SPORT II PLUS COLOR: MAPLE DESIGN
		RB1	RUBBER BASE MFR: JOHNSONITE STYLE: 4" X 12" ROLLS COLOR: MATCH EXT. BUILDING COLOR
		SC1	SEALED CONCRETE MECHANICAL ROOM FLOOR COATING
		SS1	STAINLESS STEEL
		SSM1	SOLID SURFACE MATERIAL MFR: SUPONIT STYLE: CORIAN COLOR: ARROWROOT
GENERAL FINISH NOTES :			
<ol style="list-style-type: none"> ALL AREAS OF CARPET, LVT, SEALED CONCRETE, OR OTHER RESILIENT FLOORING TO RECEIVE RUBBER BASE, U.N.O. ON FINISH PLANS. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES. ALL REDUCERS TO COORDINATE APPROPRIATELY WITH ABUTTING MATERIAL HEIGHT. INSTALL 4" H. RUBBER BASE (RB) AT CASEWORK TOE KICKS, INSIDE OF FLOORLESS CASEWORK, AND VERTICAL SUPPORTS. SEE SPECIFICATIONS FOR RESILIENT ACCESSORY INFORMATION. PAINT ALL EXPOSED MECHANICAL AND ELECTRICAL ITEMS INTENDED TO RECEIVE FIELD PAINT TO MATCH ADJACENT SURFACES; U.N.O. DOOR AND WINDOW FRAMES TO BE PAINTED P2; U.N.O. EXPOSED CEILING, DECK, DUCTWORK, STRUCTURE AND OTHER MISC. EXPOSED ITEMS TO BE PAINTED; U.N.O. ON INTERIOR ELEVATIONS, CEILING PLANS OR FINISH PLANS. FACE & UNDERSIDE OF BULKHEADS TO BE PAINTED P1; U.N.O. ON FINISH PLANS OR NOTED ON INTERIOR ELEVATIONS. REFER TO CEILING PLANS & CEILING SPECIFICATIONS FOR DETAIL CEILING DESIGNATIONS AND ACT TYPES. REFER TO INTERIOR ELEVATION SHEETS FOR MORE DETAILED PAINT AND INTERIOR FINISH INFORMATION. ALL WALL TILE INSTALLATIONS SHOULD BE FULL HEIGHT, UNLESS NOTED OR SHOWN OTHERWISE ON INTERIOR ELEVATIONS. WHERE MATERIALS TRANSITION AT DOOR THRESHOLD, TRANSITION SHOULD OCCUR AT THE CENTER OF THE DOOR IN THE CLOSED POSITION. MECHANICAL/ELECTRICAL ROOM FINISHES AS A TYPICAL PAINT WALLS, DO NOT PAINT EXPOSED STRUCTURE. DO NOT PROVIDE WALL BASE, TYPICAL UNLESS NOTED OTHERWISE ON FINISH PLANS. WHERE SEALED CONCRETE (SC) IS SPECIFIED, REFER TO SPECIFICATION SECTION 09 50 00 PAINTING FOR SYSTEM TYPE. REFER TO SPECIFICATIONS FOR ALL PAINT TYPES. ALL PAINTED WALLS IN TOILET ROOMS, KITCHENS, LOCKER ROOMS, SCIENCE ROOMS, STEM AND MAKERSPACES SHALL RECEIVE GLOSSY PAINT. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF OWNER FURNISHED EQUIPMENT, INCLUDED DIMENSIONS OF SUCH AS THEY RELATE TO THEIR OWN WORK. REMOVE, SALVAGE AND RE-INSTALL EXISTING ROOM SIGNAGE PRIOR TO PAINTING WALLS IN AREAS OF WORK, TYP. REMOVE AND SALVAGE ALL WALL MOUNTED FURNISHINGS AND ARTWORK PRIOR TO PAINTING. COORDINATE SALVAGE AND RE-INSTALLATION WITH OWNER. DO NOT PAINT OVER EXISTING GLAZED FACE BLOCK OR EXPOSED BRICK; U.N.O. PROTECT ALL FINISHES DURING CONSTRUCTION. 			



UNIT 'B' FIRST FLOOR FINISH PLAN
1/8" = 1'-0"



KEYPLAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION
04.18.2023 ADDENDUM 01

DRAWN MRJ
REVIEWED TGD

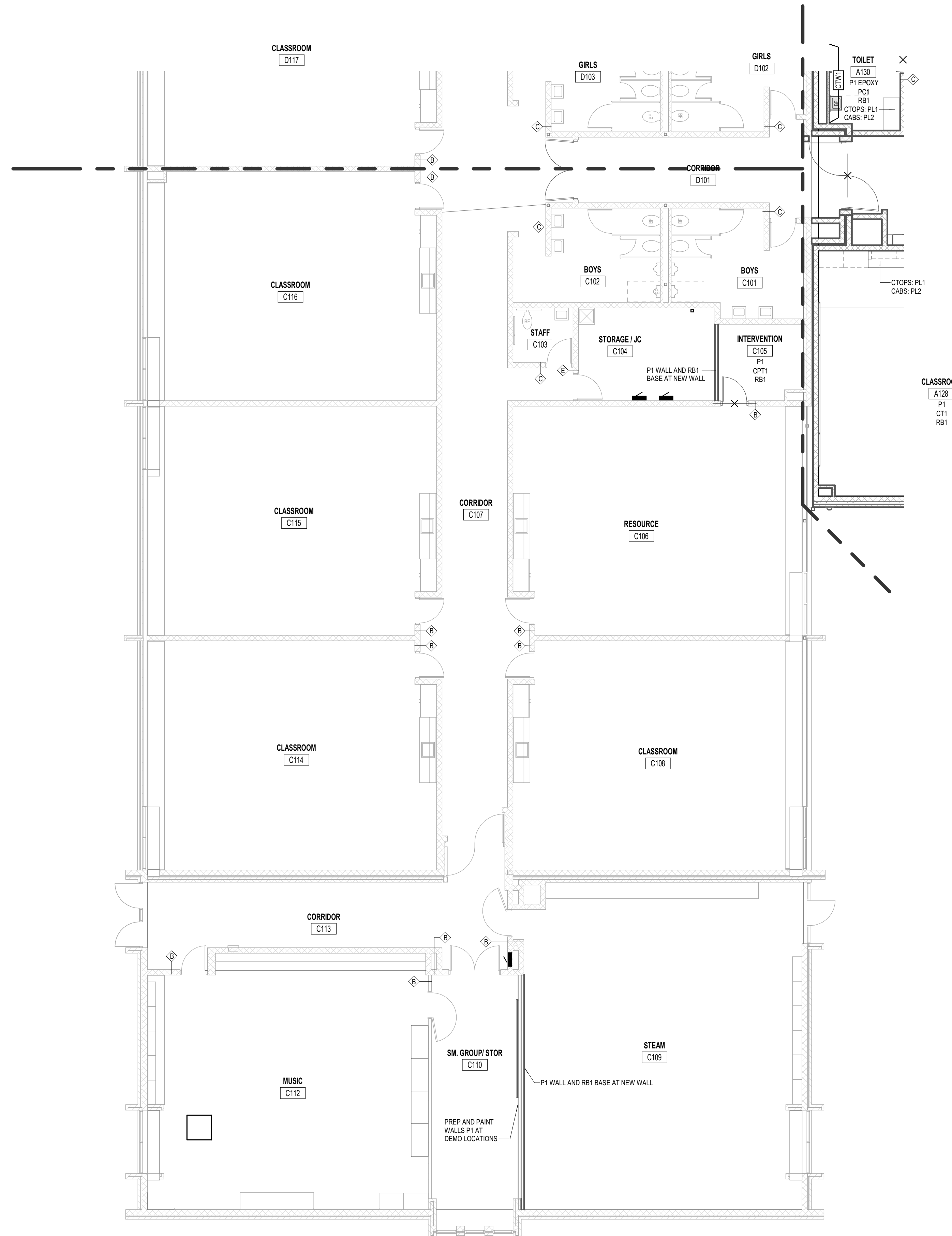
PROJECT NO. 5-5798

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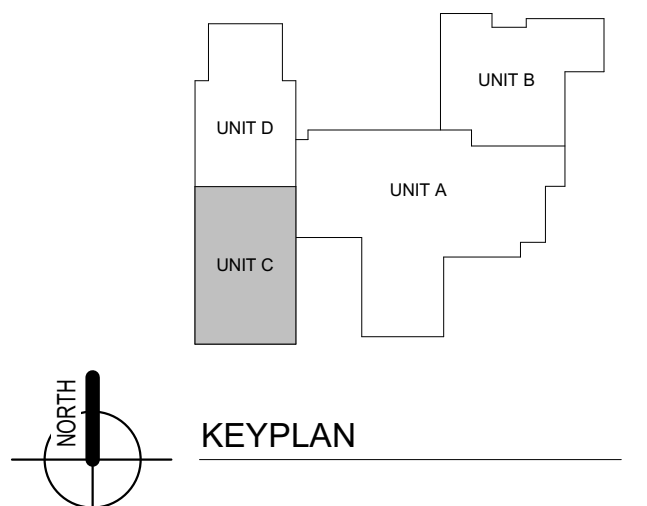
UNIT 'B' FIRST FLOOR FINISH PLAN

A9.1B

FINISH SYMBOLS :		FINISH LEGEND :	
ROOM NAME	CPT1 X FLOORING TRANSITION	ACT1	ACOUSTICAL CEILING TILE MFR: USG STYLE: RADAR CLIMA PLUS 2210 COLOR: WHITE SIZE: 24" X 24" X 5/8" GRD: DOWN GGD/WL
WALL FINISH		AWP1	ACOUSTICAL WALL PANEL MFR: ARISTON STYLE: TECTUM WALL PANEL COLOR: FELD PAINTED (SEE ELEVATIONS) SIZE: 27" L X 27" W X 2" D
FLOOR FINISH		AWP2	ACOUSTICAL WALL PANEL MFR: KINTECS OR COJAL STYLE: IMPACT RESISTANT WALL PANEL COLOR: AWP2A: DESIGNTEX GAMUT - FINCH 3468-204 AWP2B: DESIGNTEX GAMUT - PEWTER 3468-808 AWP2C: DESIGNTEX GAMUT - NAVY 3468-407 SIZE: 27" L X 27" W X 2" D
BASE FINISH		CG1	CORNER GUARD STAINLESS STEEL CORNER GUARD
FINISH KEYNOTES :		CT1	CARPET TILE MFR: INTERFACE STYLE: AE312 COLOR: 165110 IRON ACCENT SIZE: 60 CM X 60 CM INSTALLATION: QUARTER TURN
01	MANUAL ROLLER SHADE LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION	CT2	CARPET TILE MFR: SHAW CONTRACT STYLE: FAMILAR TILE ST235 COLOR: BANISTER/0355 SIZE: 9 IN X 9 IN INSTALLATION: ASHLAR
02	MOTORIZED ROLLER SHADES LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION	CT3	CARPET TILE MFR: INTERFACE STYLE: STEP REPEAT SR899 COLOR: TANK ONLY SIZE: 60 CM X 60 CM INSTALLATION: MONOLITHIC
03	PAINT EXISTING HAWOOD DOOR FRAME P2. INTERIOR ROOM SIDE ONLY	CPT1	CARPET TILE (ROLLED GOODS) MFR: TARKET STYLE: 2ND POWER 0467 COLOR: IRON SAND 7152 SIZE: 6W ROLLED GOODS
		CTW1	CERAMIC TILE WALL MFR: DALTILE STYLE: COLOR WHEEL LINEAR COLOR: NAVY SIZE: 4 X 12 INCHES INSTALLATION: 1/8 BRICK OFFSET, FULL HEIGHT WALL
		LVT1	LUXURY VINYL TILE MFR: INTERFACE STYLE: BRUSHED LINES A016 COLOR: GALENA A0164 SIZE: 24 CM X 1 M
		P1	PAINT (GENERAL) MFR: BENJAMIN MOORE COLOR: MATCH EXISTING GENERAL WALL WHITE
		P2	PAINT (TRIM) MFR: SHERWIN WILLIAMS COLOR: SW7574 PEPPER CORN
		P3	PAINT (ACCENT) MFR: BENJAMIN MOORE COLOR: HC-10 STUART GOLD
		P4	PAINT (ACCENT) MFR: SHERWIN WILLIAMS COLOR: SW7939 GAUNTLET GRAY
		P5	PAINT (ACCENT) MFR: SHERWIN WILLIAMS COLOR: NATURAL
		PC1	POLISHED CONCRETE LEVEL 3 POLISH, CLASS 3 AGGREGATE EXPOSURE
		PL1	PLASTIC LAMINATE MFR: WILSONART COLOR: CRISP LINEN
		PL2	PLASTIC LAMINATE MFR: FORMICA COLOR: ASSED ASH
		RAF1	RESILIENT ATHLETIC FLOORING MFR: GEFLOLOR STYLE: TANARLEX SPORT M PLUS COLOR: MAPLE DESIGN
		RB1	RUBBER BASE MFR: JOHNSONITE STYLE: #1, 120' ROLLS COLOR: MATCH EXT. BUILDING COLOR
		SC1	SEALED CONCRETE MECHANICAL ROOM FLOOR COATING
		SS1	STAINLESS STEEL
		SSM1	SOLID SURFACE MATERIAL MFR: DUFONT STYLE: CORAN COLOR: ARROWROOT
GENERAL FINISH NOTES :			
<ol style="list-style-type: none"> ALL AREAS OF CARPET, LVT, SEALED CONCRETE, OR OTHER RESILIENT FLOORING TO RECEIVE RUBBER BASE (RB) ON FINISH PLANS. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES. ALL REDUCERS TO COORDINATE APPROPRIATELY WITH ABUTTING MATERIAL HEIGHT. INSTALL 4" H RUBBER BASE (RB) AT CASEWORK TOE KICKS, INSIDE OF FLOORLESS CASEWORK, AND VERTICAL SUPPORTS. SEE SPECIFICATIONS FOR RESILIENT ACCESSORY INFORMATION. PAINT ALL EXPOSED MECHANICAL AND ELECTRICAL ITEMS INTENDED TO RECEIVE FIELD PAINT TO MATCH ADJACENT SURFACES, U.N.O. DOOR AND WINDOW FRAMES TO BE PAINTED P2, U.N.O. EXPOSED CEILING, DECK, DUCTWORK, STRUCTURE AND OTHER MISC. EXPOSED ITEMS TO BE PAINTED U.N.O. ON INTERIOR ELEVATIONS, CEILING PLANS OR FINISH PLANS. FACE & UNDERSIDE OF BULKHEADS TO BE PAINTED P1, U.N.O. ON FINISH PLANS OR NOTED ON INTERIOR ELEVATIONS. REFER TO CEILING PLANS & CEILING SPECIFICATIONS FOR SPECIAL CEILING DESIGNATIONS AND ACT TYPES. REFER TO INTERIOR ELEVATION SHEETS FOR MORE DETAILED PAINT AND INTERIOR FINISH INFORMATION. ALL WALL TILE INSTALLATIONS SHOULD BE FULL HEIGHT, UNLESS NOTED OR SHOWN OTHERWISE ON INTERIOR ELEVATIONS. WHERE MATERIALS TRANSITION AT DOOR THRESHOLD, TRANSITION SHOULD OCCUR AT THE CENTER OF THE DOOR IN THE CLOSE POSITION. MECHANICAL & ELECTRICAL ROOM FINISHES: AS A TYPICAL PAINT WALLS, DO NOT PAINT EXPOSED STRUCTURE. DO NOT PROVIDE WALL BASE. TYPICAL UNLESS NOTED OTHERWISE ON FINISH PLANS. WHERE SEALED CONCRETE (SC) IS SPECIFIED, REFER TO SPECIFICATION SECTION 09 50 00 PAINTING FOR CURE TYPE. REFER TO SPECIFICATIONS FOR ALL PAINT TYPES. ALL PAINTED WALLS IN TOILET ROOMS, KITCHENS, LOCKER ROOMS, SCIENCE ROOMS, STEM AND MAKERSPACES SHALL RECEIVE EPOXY PAINT. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF OWNER FURNISHED EQUIPMENT, INCLUDED DIMENSIONS OF SUCH AS THEY RELATE TO THEIR OWN WORK. REMOVE, SALVAGE AND RE-INSTALL EXISTING ROOM SIGNAGE PRIOR TO PAINTING WALLS IN AREAS OF WORK, TYP. REMOVE AND SALVAGE ALL WALL MOUNTED FURNISHINGS AND ARTWORK PRIOR TO PAINTING. COORDINATE SALVAGE AND RE-INSTALLATION WITH OWNER. DO NOT PAINT OVER EXISTING GLAZED FACE BLOCK OR EXPOSED BRICK, U.N.O. PROTECT ALL FINISHES DURING CONSTRUCTION. 			



UNIT 'C' FIRST FLOOR FINISH PLAN
1/8" = 1'-0"



ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN MRJ
REVIEWED TGD

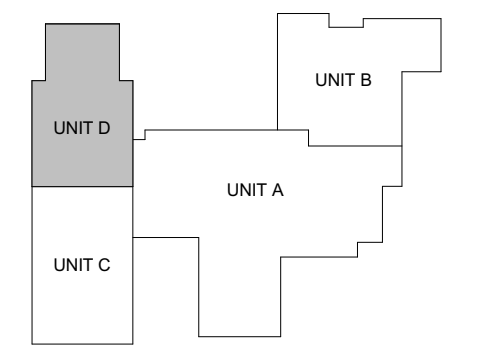
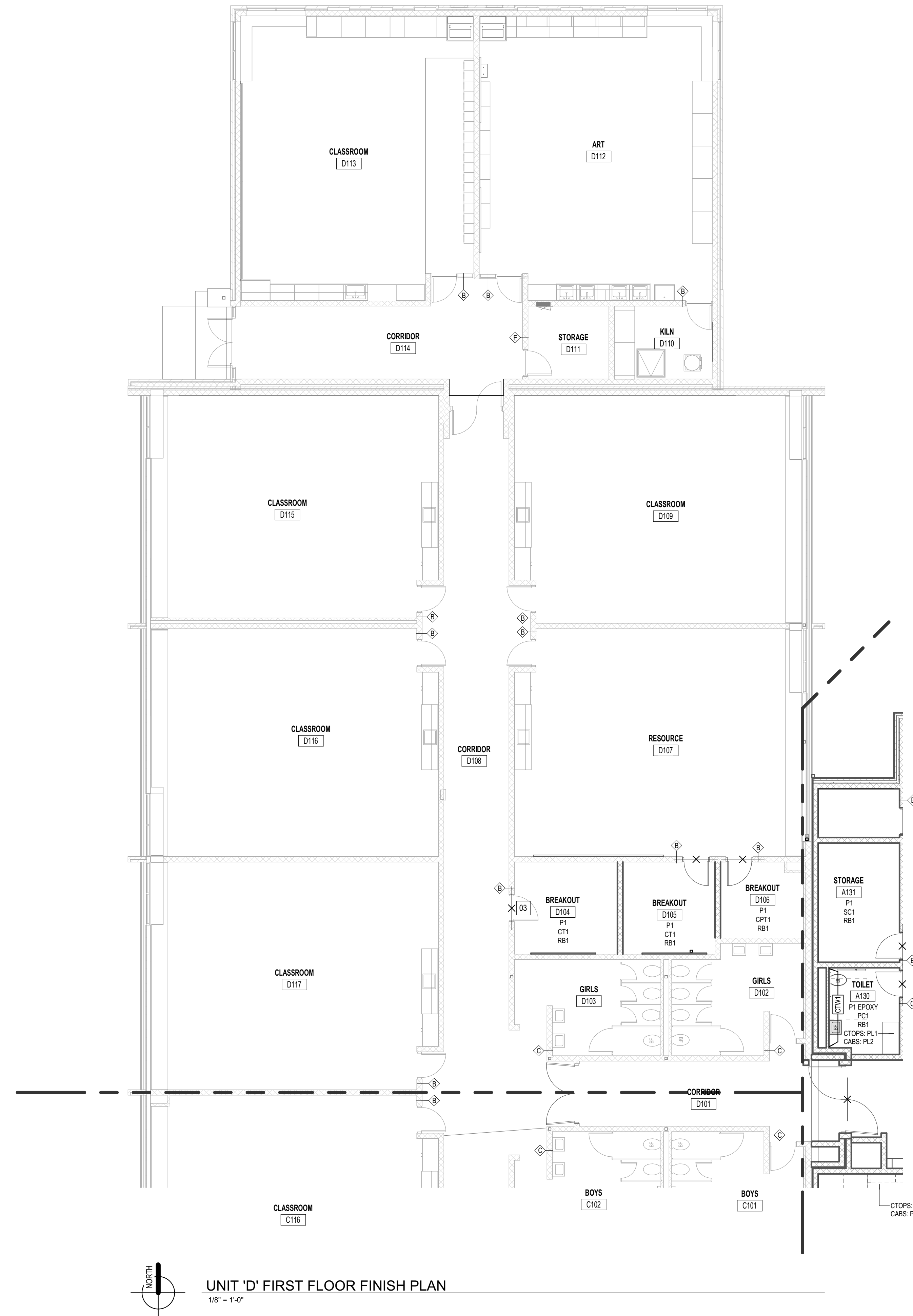
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UNIT 'C' FIRST FLOOR FINISH PLAN

A9.1C

FINISH SYMBOLS :		FINISH LEGEND :	
ROOM NAME	CPT1	ACT1	ACOUSTICAL CEILING TILE MFR: USG STYLE: RADAR OLMA PLUS 2210 COLOR: WHITE SIZE: 24" X 24" X 5/8" GRID: DOWN DOWN
WALL FINISH	VCT1	AWP1	ACOUSTICAL WALL PANEL MFR: ANSONTECH STYLE: TECTON WALL PANEL COLOR: FIELD PAINTED; SEE ELEVATIONS SIZE: 27" X 27" X 2"
FLOOR FINISH		AWP2	ACOUSTICAL WALL PANEL MFR: ANSONTECH STYLE: IMPACT RESISTANT WALL PANEL COLOR: AWP2A: DESIGNTEX GAMIT - FINCH 3469-204 AWP2B: DESIGNTEX GAMIT - PEWTER 3469-808 AWP2C: DESIGNTEX GAMIT - NAVY 3469-407 SIZE: 27" X 27" X 2"
BASE FINISH		CG1	CORNER GUARD STAINLESS STEEL CORNER GUARD
FINISH KEYNOTES :		CT1	CARPET TILE MFR: INTERFACE STYLE: A6312 COLOR: 165410 IRON ACCENT SIZE: 90 CM X 90 CM INSTALLATION: QUARTER TURN
01	MANUAL ROLLER SHADE LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION	CT2	CARPET TILE MFR: SHAW CONTRACT STYLE: FAMILIAR TILE 57238 COLOR: HANSTON 30339 SIZE: 9 IN X 36 IN INSTALLATION: ASHLAR
02	MOTORIZED ROLLER SHADES LOCATION. PROVIDE FULL WIDTH OF WINDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION	CT3	CARPET TILE MFR: INTERFACE STYLE: STEP REPEAT SR899 COLOR: HUSH ONLY SIZE: 90 CM X 90 CM INSTALLATION: MONOLITHIC
03	PANT EXISTING HMMWOOD DOOR FRAME P2, INTERIOR ROOM SIDE ONLY	CPT1	CARPET TILE (ROLLED GOODS) MFR: TARKETT STYLE: 2ND POWER 0487 COLOR: IRON SAND T162 SIZE: 6W ROLLED GOODS
		CTW1	CERAMIC TILE WALL MFR: DARTLE STYLE: COLOR WHEEL LINEAR COLOR: NAVY SIZE: 4 X 12 INCHES INSTALLATION: 1/8 BRICK OFFSET, FULL HEIGHT WALL
		LVT1	LUXURY VINYL TILE MFR: INTERFACE STYLE: BRUSHED LINES A016 COLOR: GALENA A016M SIZE: 25 CM X 1 M
		P1	PAINT (GENERAL) MFR: BENJAMIN MOORE COLOR: MATCH EXISTING GENERAL WALL WHITE
		P2	PAINT (TRIM) MFR: SHERWIN WILLIAMS COLOR: SW7074 PEPPER CORN
		P3	PAINT (ACCENT) MFR: BENJAMIN MOORE COLOR: HG-10 STUART GOLD
		P4	PAINT (ACCENT) MFR: SHERWIN WILLIAMS COLOR: SW7019 GAUNTLET GRAY
		P5	PAINT (ACCENT) MFR: SHERWIN WILLIAMS COLOR: SW6804 NATURAL
		PC1	POLISHED CONCRETE COLOR: NATURAL LEVEL: 3 POLISH, CLASS 3 AGGREGATE EXPOSURE
		PL1	PLASTIC LAMINATE MFR: WILSONART COLOR: CRISP LINEN
		PL2	PLASTIC LAMINATE MFR: FORMICA COLOR: AGED ASH
		RAF1	RESILIENT ATHLETIC FLOORING MFR: GERFLOR STYLE: TARKETEX SPORT M PLUS COLOR: MAPLE DESIGN
		RB1	RUBBER BASE MFR: JONGSUNITE STYLE: 4TH 127 ROLLS COLOR: MATCH EXT. BUILDING COLOR
		SC1	SEALED CONCRETE MECHANICAL ROOM FLOOR COATING
		SS1	STAINLESS STEEL
		SSM1	SOLID SURFACE MATERIAL MFR: DUPONT STYLE: CORIAN COLOR: ARROWROOT
GENERAL FINISH NOTES :			
1. ALL AREAS OF CARPET, LVT, SEALED CONCRETE, OR OTHER RESILIENT FLOORING TO RECEIVE RUBBER BASE, U.N.O. ON FINISH PLANS.		1. ALL AREAS OF CARPET, LVT, SEALED CONCRETE, OR OTHER RESILIENT FLOORING TO RECEIVE RUBBER BASE, U.N.O. ON FINISH PLANS.	
2. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.		2. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.	
3. ALL REDUCERS TO COORDINATE APPROPRIATELY WITH ABUTTING MATERIAL HEIGHT.		3. ALL REDUCERS TO COORDINATE APPROPRIATELY WITH ABUTTING MATERIAL HEIGHT.	
4. INSTALL 4" H RUBBER BASE (RB) AT CASEWORK TOE KICKS, INSIDE OF FLOORLESS CASEWORK, AND VERTICAL SUPPORTS.		4. INSTALL 4" H RUBBER BASE (RB) AT CASEWORK TOE KICKS, INSIDE OF FLOORLESS CASEWORK, AND VERTICAL SUPPORTS.	
5. SEE SPECIFICATIONS FOR RESILIENT ACCESSORY INFORMATION.		5. SEE SPECIFICATIONS FOR RESILIENT ACCESSORY INFORMATION.	
6. PAINT ALL EXPOSED MECHANICAL AND ELECTRICAL ITEMS INTENDED TO RECEIVE FIELD PAINT TO MATCH ADJACENT SURFACES, U.N.O.		6. PAINT ALL EXPOSED MECHANICAL AND ELECTRICAL ITEMS INTENDED TO RECEIVE FIELD PAINT TO MATCH ADJACENT SURFACES, U.N.O.	
7. DOOR AND WINDOW FRAMES TO BE PAINTED P2, U.N.O.		7. DOOR AND WINDOW FRAMES TO BE PAINTED P2, U.N.O.	
8. EXPOSED CEILINGS, DECK, DUCTWORK, STRUCTURE AND OTHER MSG, EXPOSED ITEMS TO BE PAINTED; U.N.O. ON INTERIOR ELEVATIONS, CEILING PLANS OR FINISH PLANS.		8. EXPOSED CEILINGS, DECK, DUCTWORK, STRUCTURE AND OTHER MSG, EXPOSED ITEMS TO BE PAINTED; U.N.O. ON INTERIOR ELEVATIONS, CEILING PLANS OR FINISH PLANS.	
9. FACE & UNDERSIDE OF BULKHEADS TO BE PAINTED P1, U.N.O. ON FINISH PLANS OR NOTED ON INTERIOR ELEVATIONS.		9. FACE & UNDERSIDE OF BULKHEADS TO BE PAINTED P1, U.N.O. ON FINISH PLANS OR NOTED ON INTERIOR ELEVATIONS.	
10. REFER TO CEILING PLANS & CEILING SPECIFICATIONS FOR SPECIAL CEILING DESIGNATIONS AND AGI TYPES.		10. REFER TO CEILING PLANS & CEILING SPECIFICATIONS FOR SPECIAL CEILING DESIGNATIONS AND AGI TYPES.	
11. REFER TO INTERIOR ELEVATION SHEETS FOR MORE DETAILED PAINT AND INTERIOR FINISH INFORMATION.		11. REFER TO INTERIOR ELEVATION SHEETS FOR MORE DETAILED PAINT AND INTERIOR FINISH INFORMATION.	
12. ALL WALL TILE INSTALLATIONS SHOULD BE FULL HEIGHT, UNLESS NOTED OR SHOWN OTHERWISE ON INTERIOR ELEVATIONS.		12. ALL WALL TILE INSTALLATIONS SHOULD BE FULL HEIGHT, UNLESS NOTED OR SHOWN OTHERWISE ON INTERIOR ELEVATIONS.	
13. WHERE MATERIALS TRANSITION AT DOOR THRESHOLD, TRANSITION SHOULD OCCUR AT THE CENTER OF THE DOOR IN THE CLOSE POSITION.		13. WHERE MATERIALS TRANSITION AT DOOR THRESHOLD, TRANSITION SHOULD OCCUR AT THE CENTER OF THE DOOR IN THE CLOSE POSITION.	
14. MECHANICAL & ELECTRICAL ROOM FINISHES: AS A TYPICAL PAINT WALLS, DO NOT PAINT EXPOSED STRUCTURE, DO NOT PROVIDE WALL BASE, TYPICAL UNLESS NOTED OTHERWISE ON FINISH PLANS.		14. MECHANICAL & ELECTRICAL ROOM FINISHES: AS A TYPICAL PAINT WALLS, DO NOT PAINT EXPOSED STRUCTURE, DO NOT PROVIDE WALL BASE, TYPICAL UNLESS NOTED OTHERWISE ON FINISH PLANS.	
15. WHERE SEALED CONCRETE (SC) IS SPECIFIED, REFER TO SPECIFICATION SECTION 09 50 00 PAINTING, FOR SYSTEM TYPE.		15. WHERE SEALED CONCRETE (SC) IS SPECIFIED, REFER TO SPECIFICATION SECTION 09 50 00 PAINTING, FOR SYSTEM TYPE.	
16. REFER TO SPECIFICATIONS FOR ALL PAINT TYPES.		16. REFER TO SPECIFICATIONS FOR ALL PAINT TYPES.	
17. ALL PAINTED WALLS IN TOILET ROOMS, KITCHENS, LOCKER ROOMS, SCIENCE ROOMS, STEM AND MAKERSPACES SHALL RECEIVE EPOXY PAINT.		17. ALL PAINTED WALLS IN TOILET ROOMS, KITCHENS, LOCKER ROOMS, SCIENCE ROOMS, STEM AND MAKERSPACES SHALL RECEIVE EPOXY PAINT.	
18. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF OWNER FURNISHED EQUIPMENT, INCLUDED DIMENSIONS OF SUCH AS THEY RELATE TO THEIR OWN WORK.		18. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF OWNER FURNISHED EQUIPMENT, INCLUDED DIMENSIONS OF SUCH AS THEY RELATE TO THEIR OWN WORK.	
19. REMOVE, SALVAGE AND RE-INSTALL EXISTING ROOM SIGNAGE PRIOR TO PAINTING WALLS IN AREAS OF WORK, TYP.		19. REMOVE, SALVAGE AND RE-INSTALL EXISTING ROOM SIGNAGE PRIOR TO PAINTING WALLS IN AREAS OF WORK, TYP.	
20. REMOVE AND SALVAGE ALL WALL MOUNTED FURNISHINGS AND ARTWORK PRIOR TO PAINTING. COORDINATE SALVAGE AND RE-INSTALLATION WITH OWNER.		20. REMOVE AND SALVAGE ALL WALL MOUNTED FURNISHINGS AND ARTWORK PRIOR TO PAINTING. COORDINATE SALVAGE AND RE-INSTALLATION WITH OWNER.	
21. DO NOT PAINT OVER EXISTING GLAZED FACE BLOCK OR EXPOSED BRICK, U.N.O.		21. DO NOT PAINT OVER EXISTING GLAZED FACE BLOCK OR EXPOSED BRICK, U.N.O.	
22. PROTECT ALL FINISHES DURING CONSTRUCTION.		22. PROTECT ALL FINISHES DURING CONSTRUCTION.	



ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN MRJ
REVIEWED TGD

PROJECT NO. 5-5798

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UNIT 'D' FIRST FLOOR FINISH PLAN

A9.1D

ELECTRICAL ABBREVIATIONS table with columns for symbol, description, and abbreviation.

POWER SYMBOL LEGEND table with columns for symbol, description, and abbreviation.

LIGHTING SYMBOL LEGEND table with columns for symbol, description, and abbreviation.

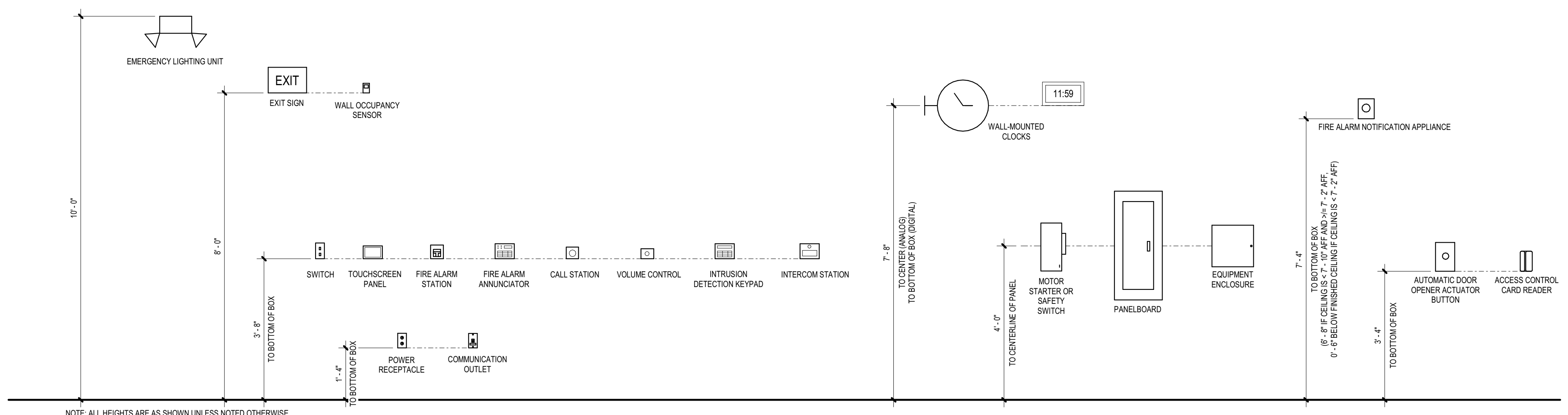
FIRE ALARM SYMBOL LEGEND table with columns for symbol, description, and abbreviation.

ELECTRONIC SAFETY / SECURITY SYMBOL LEGEND table with columns for symbol, description, and abbreviation.

ELECTRICAL GENERAL NOTES section with numbered list of requirements.

MAXIMUM CONDUCTOR LENGTHS FOR TYPICAL BRANCH CIRCUITS table with columns for circuit voltage, conductor size, and length.

COMMUNICATIONS SYMBOL LEGEND table with columns for symbol, description, and abbreviation.



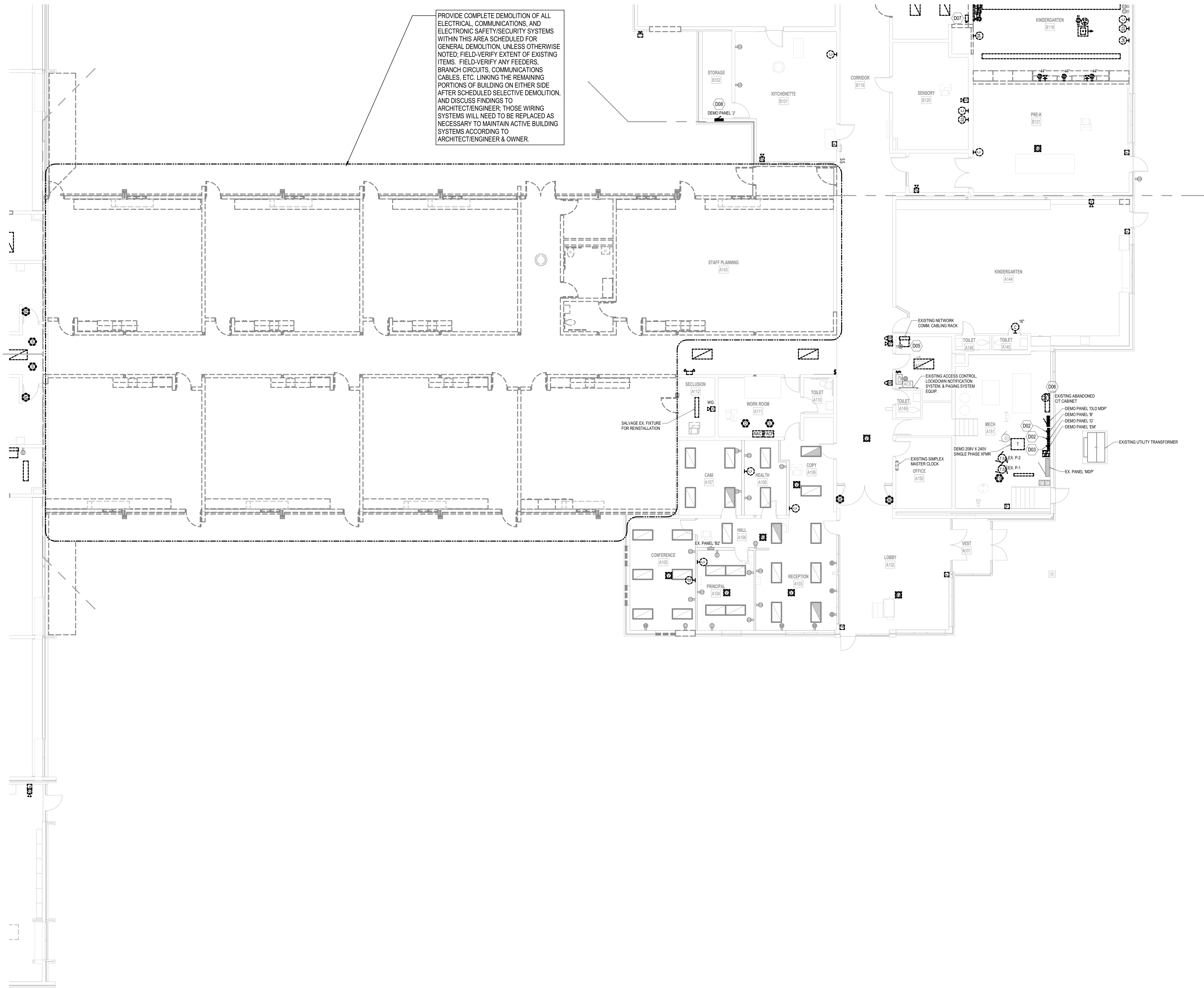
TYPICAL MOUNTING HEIGHTS FOR WALL DEVICES, EQUIPMENT, & FIXTURES

ELECTRICAL DEMOLITION GENERAL NOTES

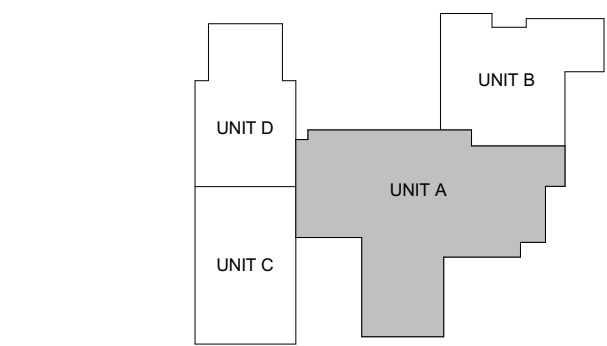
- REMOVE ALL ITEMS SHOWN ON DEMO PLAN, UNLESS OTHERWISE NOTED. REMOVE ALL UNUSED CONDUIT, RACEWAYS, WIRE, CABLE, CONTROLS, JUNCTION BOXES, DISCONNECTS, MOUNTS, AND RELATED ELECTRICAL ACCESSORIES COMPLETELY BACK TO SOURCE. REFER TO DEMOLITION SPECIFICATION.
- MAKE PROVISIONS TO BACKFEED OR RE-CIRCUIT ANY ITEMS THAT ARE EXISTING TO REMAIN WHICH ARE AFFECTED BY THE DEMOLITIONS.
- THE OWNER RESERVES THE RIGHT TO SALVAGE, WHOLE OR IN PART, ANY EQUIPMENT, SYSTEMS, AND/OR MATERIALS THAT ARE SCHEDULED FOR DEMOLITION PRIOR TO REMOVAL FROM THE BUILDINGSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTION AND GATHERING OF SUCH ITEMS TO A CENTRAL LOCATION AGREED UPON BY THE OWNER AND CONTRACTOR. ALL REMAINING EQUIPMENT AND/OR MATERIALS REMOVED AND NOT REUSED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BUILDINGSITE.
- ALL EQUIPMENT AND/OR MATERIALS SUITED FOR REUSE SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE AND REINSTALLED AS WORK PROGRESSES.
- ALL DEMOLITION SHOWN IS GATHERED FROM FIELD OBSERVATION AND/OR RECORD DRAWINGS. INVESTIGATION OF EXISTING SYSTEMS WILL BE REQUIRED BY THE CONTRACTOR AS PART OF THE BID PRICE, SO THAT THE EXACT EXTENT OF DEMOLITION CAN BE ACCURATELY DETERMINED. THE CONTRACTOR'S BID PRICE SHALL ALSO INCLUDE REMOVAL OF SOME PORTIONS OF SYSTEMS NOT EXPLICITLY SHOWN ON THIS DRAWING, BUT DISCOVERED DURING THE INVESTIGATION PROCESS. WHERE THE EXTENT OF DEMOLITION IS UNCLEAR, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER AND OWNER TO DETERMINE WHICH PORTIONS OF EXISTING SYSTEMS MUST REMAIN ACTIVE AND WHICH PORTIONS MUST BE DEMOLISHED.
- CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION AND SIZES OF EXISTING CONDUIT, WIRING, AND EQUIPMENT.
- IF ASBESTOS OR PCB MATERIAL IS ENCOUNTERED IT WILL BE REMOVED BY THE OWNER.
- LAMPS CONTAINING MERCURY (FLUORESCENT, METAL HALIDE, SODIUM VAPOR, MERCURY VAPOR, ETC.) SHALL BE DISPOSED OF IN A PROPER HAZARDOUS WASTE RECYCLING FACILITY.
- PATCH AND REPAIR ALL FLOOR, WALL AND CEILING OPENINGS DUE TO DEMOLITION WHICH ARE NOT TO BE RE-USED TO MATCH EXISTING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL WALLS, CEILINGS, FLOORS, LIGHTS, AND OTHER FINISHED SURFACES THAT ARE NOT TO BE REMOVED. IF DAMAGED, CONTRACTOR SHALL REPAIR TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- BACKFILLING SHALL PROMPTLY FOLLOW UNDERGROUND DEMOLITION OR REMOVAL WORK AND SHALL CONTINUE AS THE DEMOLITION PROGRESSES.
- EXISTING CONDUIT SYSTEMS MAY BE REUSED FOR THE INSTALLATION OF NEW CONDUCTORS IF THEY ARE DEMED TO BE IN GOOD CONDITION AND OF ADEQUATE SIZE FOR CODE-COMPLIANT INSTALLATION OF THE NEW CONDUCTORS. REUSE/REROUTE CONDUIT AS NECESSARY TO PROVIDE FEEDS PER POWER AND/OR LIGHTING PLANS.
- PROVIDE BLANK COVER OVER ANY ABANDONED AND REMAINING ROUGH-IN OR JUNCTION BOXES TO MATCH EXISTING.
- DEMOLISH EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED DEVICES, WHETHER INDICATED ON PLAN OR NOT, INCLUDING WIRING AND ACCESSIBLE ABANDONED CONDUIT. DEVICES THAT ARE AN INTEGRAL PART OF OTHER RELATED SYSTEMS, SUCH AS WATERFLOW SWITCHES, TAMPER SWITCHES, MONITORING EQUIPMENT, ETC., SHALL REMAIN FOR INTERCONNECTION WITH NEW FIRE ALARM SYSTEM. REFER TO SECTION 28.05 FOR FURTHER INFORMATION.

ELECTRICAL KEYNOTES	
D02	DISCONNECT, CAREFULLY REMOVE, AND DISCARD EXISTING PANELBOARD AND ASSOCIATED SINGLE-PHASE FEEDER BACK TO DISTRIBUTION PANEL IN MECH. A151. PRESERVE ANY EXISTING BRANCH CIRCUIT WIRING THAT REMAINS AFTER SELECTIVE DEMOLITION. PREPARE FOR RECONNECTION OF REMAINING EXISTING BRANCH CIRCUITS TO NEW PANELBOARD IN SAME LOCATION AS SHOWN ON POWER PLAN, PANELBOARD SCHEDULES, AND ONE-LINE DIAGRAM.
D03	DISCONNECT, CAREFULLY REMOVE, AND DISCARD EXISTING PANELBOARD AND ASSOCIATED SINGLE-PHASE FEEDER BACK TO DISTRIBUTION PANEL IN MECH. A151. PRESERVE ANY EXISTING BRANCH CIRCUIT WIRING THAT REMAINS AFTER SELECTIVE DEMOLITION. PREPARE FOR RECONNECTION OF REMAINING EXISTING BRANCH CIRCUITS TO NEW PANELBOARD IN NEW LOCATION AS SHOWN ON POWER PLAN, PANELBOARD SCHEDULES, AND ONE-LINE DIAGRAM.
D05	CAPTURE EXISTING COMMUNICATION CABLES AND PREPARE TO CONNECT TO NEW FLOOR MOUNTED DATA RACK.
D06	DISCONNECT AND REMOVE EXISTING ABANDONED C/T CABINET AND METER. FIELD-VERIFY ANY FEEDERS, BRANCH CIRCUITS, COMMUNICATIONS CABLES, ETC.
D07	CAPTURE AND SALVAGE EXISTING VFD AND WIRING/CONDUIT. PREPARE TO RELOCATE. REFER TO POWER PLANS FOR NEW VFD LOCATION.
D08	DISCONNECT, CAREFULLY REMOVE, AND DISCARD EXISTING SINGLE-PHASE FEEDER BACK TO DISTRIBUTION PANEL IN MECH. A151. PRESERVE ANY EXISTING BRANCH CIRCUIT WIRING THAT REMAINS AFTER SELECTIVE DEMOLITION. PREPARE FOR RECONNECTION OF REMAINING EXISTING BRANCH CIRCUITS TO NEW PANELBOARD IN SAME LOCATION AS SHOWN ON POWER PLAN, PANELBOARD SCHEDULES, AND ONE-LINE DIAGRAM. COORDINATE CUTTING AND PATCHING OF SURROUNDING MASONRY WITH ARCHITECTURAL TRADES.

PROVIDE COMPLETE DEMOLITION OF ALL ELECTRICAL, COMMUNICATIONS, AND ELECTRONIC SAFETY/SECURITY SYSTEMS WITHIN THIS AREA SCHEDULED FOR GENERAL DEMOLITION, UNLESS OTHERWISE NOTED. FIELD-VERIFY EXTENT OF EXISTING ITEMS. FIELD-VERIFY ANY FEEDERS, BRANCH CIRCUITS, COMMUNICATIONS CABLES, ETC. LINKING THE REMAINING PORTIONS OF BUILDING ON EITHER SIDE AFTER SCHEDULED SELECTIVE DEMOLITION, AND DISCUSS FINDINGS TO ARCHITECT/ENGINEER, THOSE WIRING SYSTEMS WILL NEED TO BE REPLACED AS NECESSARY TO MAINTAIN ACTIVE BUILDING SYSTEMS ACCORDING TO ARCHITECT/ENGINEER & OWNER.



UNIT 'A' ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN KSS
REVIEWED MCK

PROJECT NO. 5-5798

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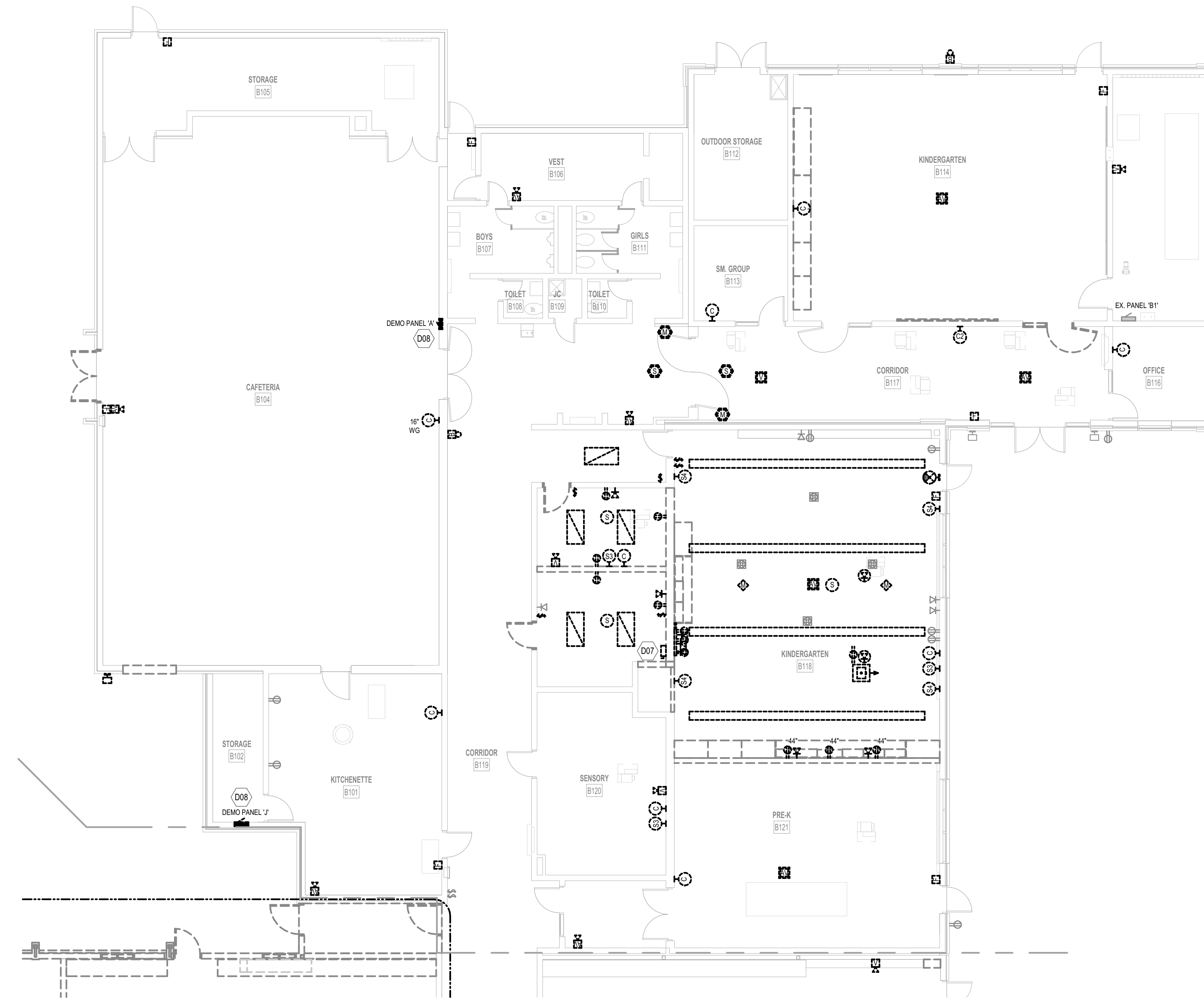
UNIT 'A' ELECTRICAL DEMOLITION PLAN

E1.1A

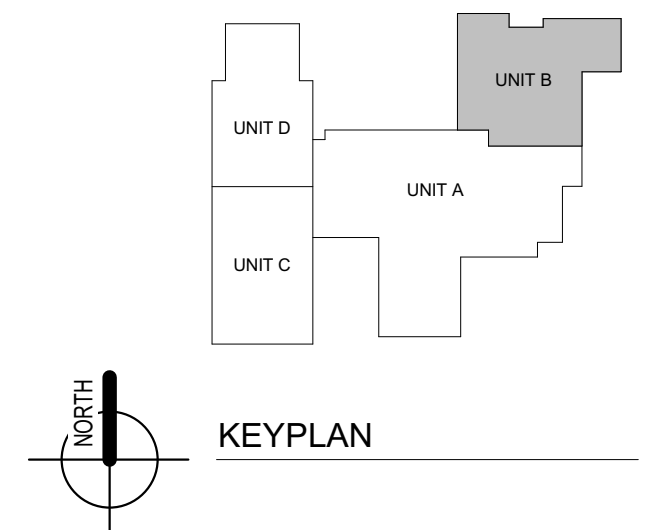
ELECTRICAL DEMOLITION GENERAL NOTES

- REMOVE ALL ITEMS SHOWN ON DEMO PLAN, UNLESS OTHERWISE NOTED. REMOVE ALL UNUSED CONDUIT, RACEWAYS, WIRE, CABLE, CONTROLS, JUNCTION BOXES, DISCONNECTS, MOUNTS, AND RELATED ELECTRICAL ACCESSORIES COMPLETELY BACK TO SOURCE. REFER TO DEMOLITION SPECIFICATION.
- MAKE PROVISIONS TO BACKFEED OR RE-CIRCUIT ANY ITEMS THAT ARE EXISTING TO REMAIN WHICH ARE AFFECTED BY THE DEMOLITIONS.
- THE OWNER RESERVES THE RIGHT TO SALVAGE WHOLE OR IN PART ANY EQUIPMENT, SYSTEMS, AND/OR MATERIALS THAT ARE SCHEDULED FOR DEMOLITION PRIOR TO REMOVAL FROM THE BUILDING/SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTION AND GATHERING OF SUCH ITEMS TO A CENTRAL LOCATION AGREED UPON BY THE OWNER AND CONTRACTOR. ALL REMAINING EQUIPMENT AND/OR MATERIALS REMOVED AND NOT REUSED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BUILDING/SITE.
- ALL EQUIPMENT AND/OR MATERIALS SLATED FOR REUSE SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE AND REINSTALLED AS WORK PROGRESSES.
- ALL DEMOLITION SHOWN IS GATHERED FROM FIELD OBSERVATION AND/OR RECORD DRAWINGS. INVESTIGATION OF EXISTING SYSTEMS WILL BE REQUIRED BY THE CONTRACTOR AS PART OF THE BID PRICE, SO THAT THE EXACT EXTENT OF DEMOLITION CAN BE ACCURATELY DETERMINED. THE CONTRACTOR'S BID PRICE SHALL ALSO INCLUDE REMOVAL OF SOME PORTIONS OF SYSTEMS NOT EXPLICITLY SHOWN ON THIS DRAWING, BUT DISCOVERED DURING THE INVESTIGATION PROCESS. WHERE THE EXTENT OF DEMOLITION IS UNCLEAR, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER AND OWNER TO DETERMINE WHICH PORTIONS OF EXISTING SYSTEMS MUST REMAIN ACTIVE AND WHICH PORTIONS MUST BE DEMOLISHED.
- CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION AND SIZES OF EXISTING CONDUIT, WIRING, AND EQUIPMENT.
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- PATCH AND REPAIR ALL FLOOR, WALL AND CEILING OPENINGS DUE TO DEMOLITION WHICH ARE NOT TO BE RE-USED TO MATCH EXISTING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL WALLS, CEILINGS, FLOORS, LIGHTS, AND OTHER FINISHED SURFACES THAT ARE NOT TO BE REMOVED. IF DAMAGED, CONTRACTOR SHALL REPAIR TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
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- EXISTING CONDUIT SYSTEMS MAY BE REUSED FOR THE INSTALLATION OF NEW CONDUCTORS IF THEY ARE DEMED TO BE IN GOOD CONDITION AND OF ADEQUATE SIZE FOR CODE-COMPLIANT INSTALLATION OF THE NEW CONDUCTORS. REUSE/ REROUTE CONDUIT AS NECESSARY TO PROVIDE FEEDS PER POWER AND/OR LIGHTING PLANS.
- PROVIDE BLANK COVER OVER ANY ABANDONED AND REMAINING ROUGH-INS OR JUNCTION BOXES TO MATCH EXISTING.
- DEMOLISH EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED DEVICES (WHETHER INDICATED ON PLAN OR NOT), INCLUDING WIRING AND ACCESSIBLE ABANDONED CONDUIT. DEVICES THAT ARE AN INTEGRAL PART OF OTHER RELATED SYSTEMS, SUCH AS WATERFLOW SWITCHES, TAMPER SWITCHES, MONITORING EQUIPMENT, ETC., SHALL REMAIN FOR INTERCONNECTION WITH NEW FIRE ALARM SYSTEM. REFER TO SECTION 16.16 FOR FURTHER INFORMATION.

ELECTRICAL KEYNOTES	
D07	CAPTURE AND SALVAGE EXISTING VFD AND WIRING/CONDUIT. PREPARE TO RELOCATE. REFER TO POWER PLANS FOR NEW VFD LOCATION.
D08	DISCONNECT, CAREFULLY REMOVE, AND DISCARD EXISTING SINGLE-PHASE FEEDER BACK TO DISTRIBUTION PANEL IN MECH. A101. PRESERVE ANY EXISTING BRANCH CIRCUIT WIRING THAT REMAINS AFTER SELECTIVE DEMOLITION. PREPARE FOR RECONNECTION OF REMAINING EXISTING BRANCH CIRCUITS TO NEW PANELBOARD IN SAME LOCATION AS SHOWN ON POWER PANELBOARD SCHEDULES, AND ONE-LINE DIAGRAM. COORDINATE CUTTING AND PATCHING OF SURROUNDING MASONRY WITH ARCHITECTURAL TRADES.



UNIT 'B' ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN KSS
REVIEWED MCK

PROJECT NO. 5-5798

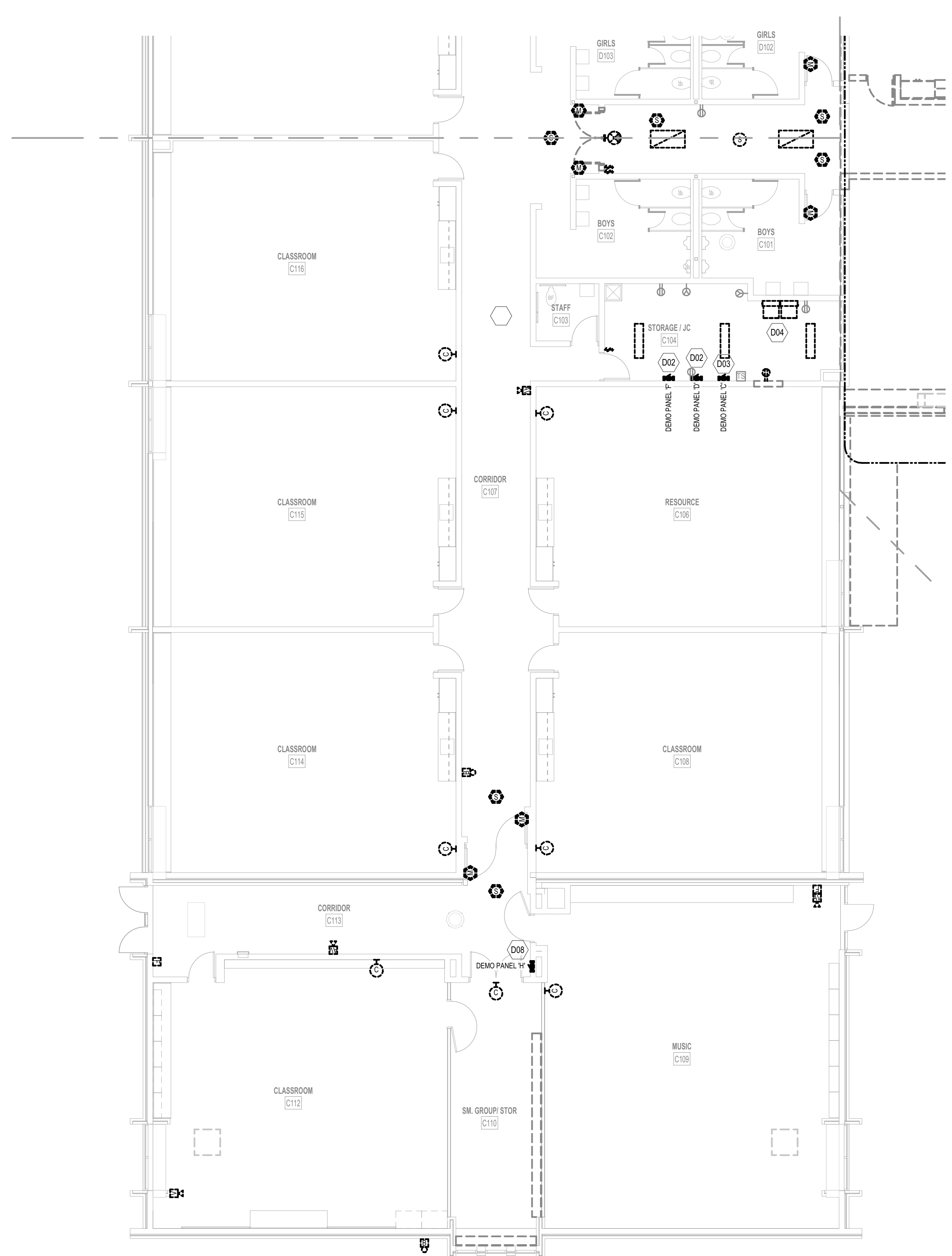
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UNIT 'B' ELECTRICAL DEMOLITION PLAN

E1.1B

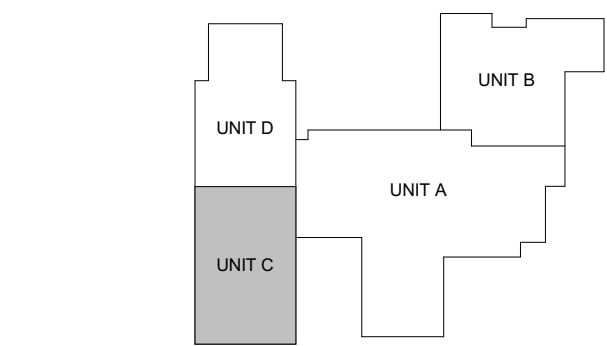
ELECTRICAL DEMOLITION GENERAL NOTES

- REMOVE ALL ITEMS SHOWN ON DEMO PLAN UNLESS OTHERWISE NOTED. REMOVE ALL UNUSED CONDUIT, RACEWAYS, WIRE, CABLE, CONTROLS, JUNCTION BOXES, DISCONNECTS, MOUNTS, AND RELATED ELECTRICAL ACCESSORIES COMPLETELY BACK TO SOURCE. REFER TO DEMOLITION SPECIFICATION.
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- ALL EQUIPMENT AND/OR MATERIALS SLATED FOR REUSE SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE AND REINSTALLED AS WORK PROGRESSES.
- ALL DEMOLITION SHOWN IS GATHERED FROM FIELD OBSERVATION AND/OR RECORD DRAWINGS. INVESTIGATION OF EXISTING SYSTEMS WILL BE REQUIRED BY THE CONTRACTOR AS PART OF THE BID PRICE, SO THAT THE EXACT EXTENT OF DEMOLITION CAN BE ACCURATELY DETERMINED. THE CONTRACTOR'S BID PRICE SHALL ALSO INCLUDE REMOVAL OF SOME PORTIONS OF SYSTEMS NOT EXPLICITLY SHOWN ON THIS DRAWING, BUT DISCOVERED DURING THE INVESTIGATION PROCESS. WHERE THE EXTENT OF DEMOLITION IS UNCLEAR, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER AND OWNER TO DETERMINE WHICH PORTIONS OF EXISTING SYSTEMS MUST REMAIN ACTIVE AND WHICH PORTIONS MUST BE DEMOLISHED.
- CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION AND SIZES OF EXISTING CONDUIT, WIRING, AND EQUIPMENT.
- IF ASBESTOS OR PCB MATERIAL IS ENCOUNTERED IT WILL BE REMOVED BY THE OWNER.
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- PROVIDE BLANK COVER OVER ANY ABANDONED AND REMAINING ROUGH-INS OR JUNCTION BOXES TO MATCH EXISTING.
- DEMOLISH EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED DEVICES (WHETHER INDICATED ON PLAN OR NOT), INCLUDING WIRING AND ACCESSIBLE ABANDONED CONDUIT. DEVICES THAT ARE AN INTEGRAL PART OF OTHER RELATED SYSTEMS, SUCH AS WATERFLOW SWITCHES, TAMPER SWITCHES, MONITORING EQUIPMENT, ETC., SHALL REMAIN FOR INTERCONNECTION WITH NEW FIRE ALARM SYSTEM. REFER TO SECTION 16.05 FOR FURTHER INFORMATION.



ELECTRICAL KEYNOTES	
D02	DISCONNECT, CAREFULLY REMOVE, AND DISCARD EXISTING PANELBOARD AND ASSOCIATED SINGLE-PHASE FEEDER BACK TO DISTRIBUTION PANEL IN MECH. A151. PRESERVE ANY EXISTING BRANCH CIRCUIT WIRING THAT REMAINS AFTER SELECTIVE DEMOLITION. PREPARE FOR RECONNECTION OF REMAINING EXISTING BRANCH CIRCUITS TO NEW PANELBOARD IN SAME LOCATION AS SHOWN ON POWER PLAN, PANELBOARD SCHEDULES, AND ONE-LINE DIAGRAM.
D03	DISCONNECT, CAREFULLY REMOVE, AND DISCARD EXISTING PANELBOARD AND ASSOCIATED SINGLE-PHASE FEEDER BACK TO DISTRIBUTION PANEL IN MECH. A151. PRESERVE ANY EXISTING BRANCH CIRCUIT WIRING THAT REMAINS AFTER SELECTIVE DEMOLITION. PREPARE FOR RECONNECTION OF REMAINING EXISTING BRANCH CIRCUITS TO NEW PANELBOARD IN NEW LOCATION AS SHOWN ON POWER PLAN, PANELBOARD SCHEDULES, AND ONE-LINE DIAGRAM.
D04	CAPTURE EXISTING COMMUNICATION CABLES AND DATA RACKS AND PREPARE TO MOVE TO NEW LOCATION. REFER TO POWER PLANS FOR NEW DATA RACK LOCATION.
D08	DISCONNECT, CAREFULLY REMOVE, AND DISCARD EXISTING PANELBOARD RECESSED IN WALL AND ASSOCIATED SINGLE-PHASE FEEDER BACK TO DISTRIBUTION PANEL IN MECH. A151. PRESERVE ANY EXISTING BRANCH CIRCUIT WIRING THAT REMAINS AFTER SELECTIVE DEMOLITION. PREPARE FOR RECONNECTION OF REMAINING EXISTING BRANCH CIRCUITS TO NEW PANELBOARD IN SAME LOCATION AS SHOWN ON POWER PLAN, PANELBOARD SCHEDULES, AND ONE-LINE DIAGRAM. COORDINATE CUTTING AND PATCHING OF SURROUNDING MASONRY WITH ARCHITECTURAL TRADES.

UNIT 'C' ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
 HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN KSS
REVIEWED MCK

PROJECT NO. 5-5798

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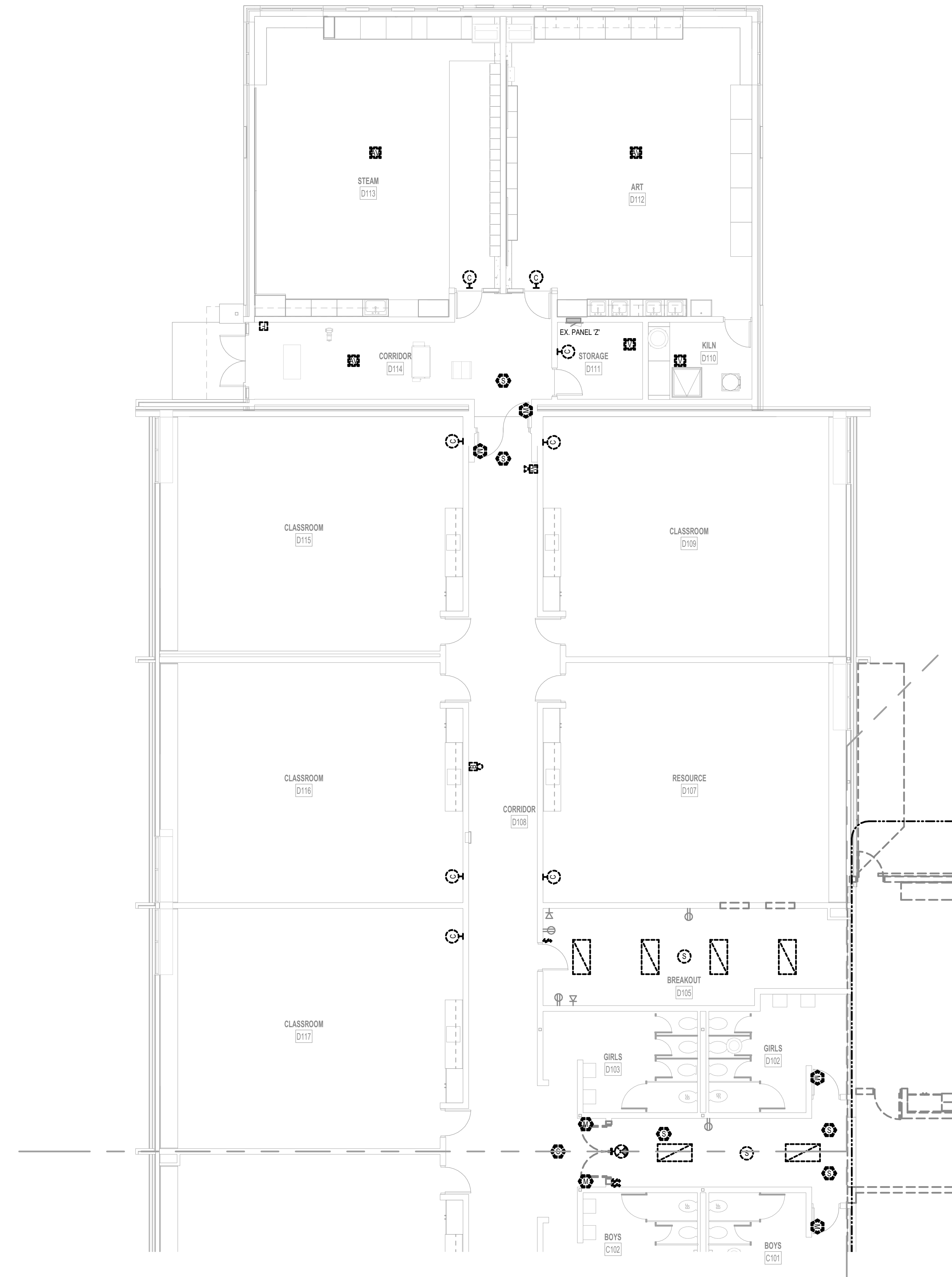
UNIT 'C' ELECTRICAL DEMOLITION PLAN

E1.1C

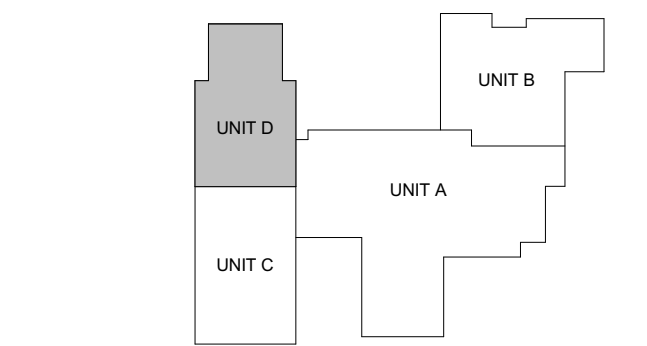
ELECTRICAL DEMOLITION GENERAL NOTES

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ELECTRICAL KEYNOTES



UNIT 'D' ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



KEYPLAN

PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN KSS
REVIEWED MCK

PROJECT NO. 5-5798

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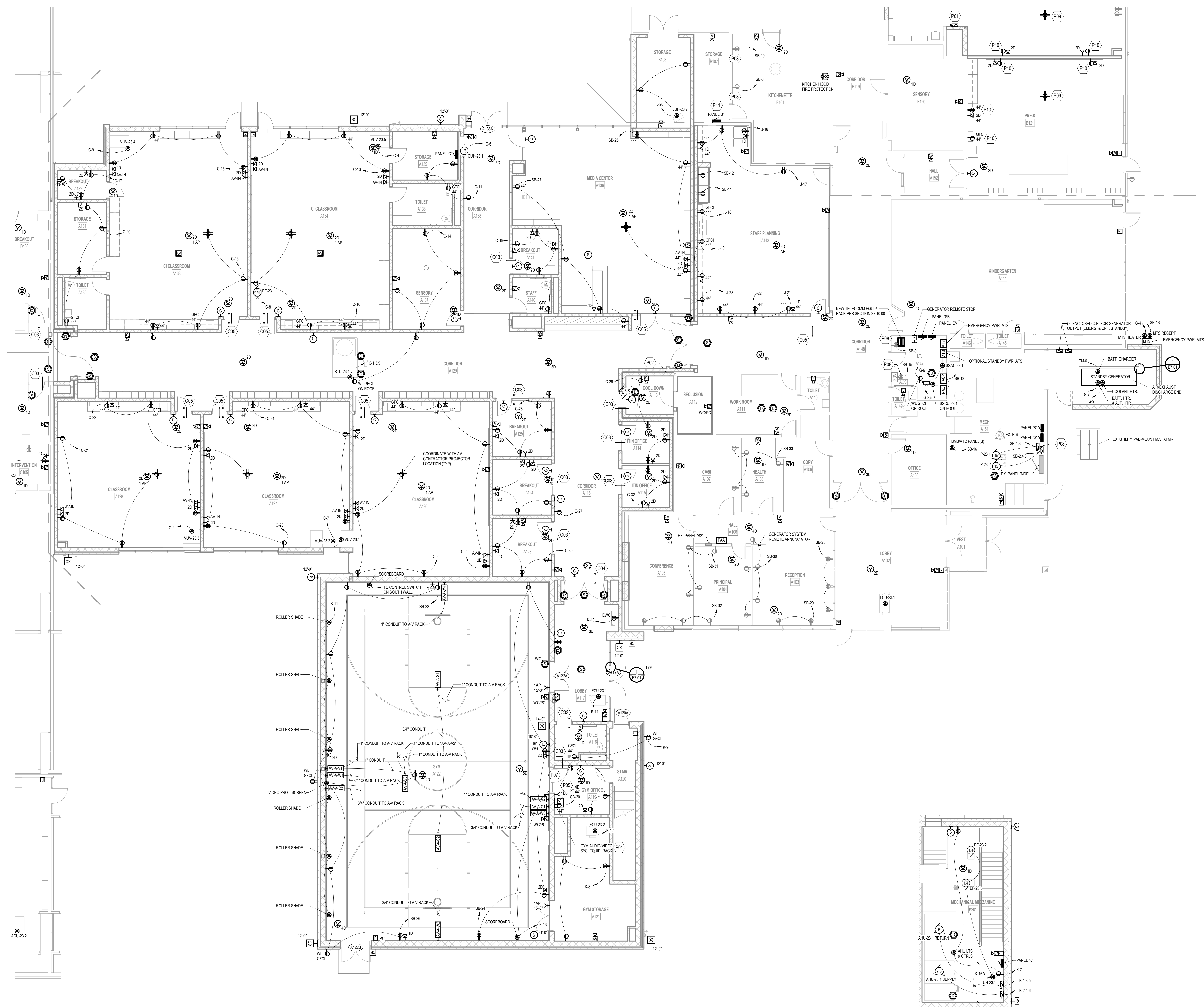
UNIT 'D' ELECTRICAL DEMOLITION PLAN

E1.1D

POWER & COMMUNICATION GENERAL NOTES

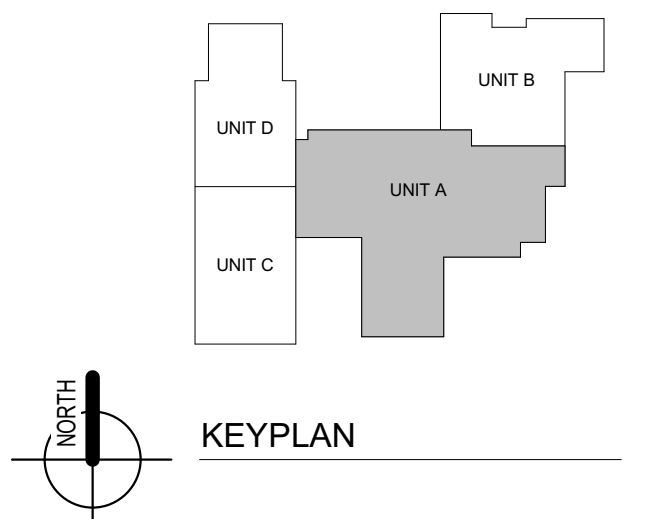
- REFER TO ELECTRICAL GENERAL NOTES ON SHEET E01.
- REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE CODES.
- ALL 15 AND 20 AMPERE, 125 AND 250 VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE. REFER TO NEC 408.12 AND SPECIFICATION SECTION 28 27 26.
- PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS.
 - CONNECT TO DEDICATED 20A BRANCH CIRCUIT WITH BREAKER LOCKON ACCESSORY IN LOCAL PANELBOARD FOR DAMPERS IN EACH AREA (DAMPERS MAY BE GROUPED ON EACH CIRCUIT).
 - TERMINATE W/ BOX-COVER FUSIBLE DISCONNECT SWITCH AT EACH DAMPER.
 - PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 5 FEET.
 - PROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS.
- PROVIDE BOX-COVER FUSIBLE DISCONNECT SWITCH ON BUILDING EXTERIOR IN ACCESSIBLE LOCATION FOR EACH SMALL (1/2 HP) MECHANICAL AND/OR PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FANCOIL UNITS, PUMPS, UNIT HEATERS, VAV BOXES, ETC.
- DESIGNATED CABLE PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLEING AND DIV. 28 SAFETY/SECURITY CABLEING ONLY. OTHER CABLEING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 25 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLEING SHALL BE SUPPORTED AND SLEEVED BY OTHER INDEPENDENT PATHWAYS, HANGERS, AND SUPPORTS.
- CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRIC DOOR HARDWARE (REF. SECTION 08 11 00) TO CENTRAL LOCATIONS ADJACENT TO DESIGNATED ACCESS CONTROL LOCATIONS. CONNECT ALL POWER SUPPLIES TO DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) AS DESIGNATED FOR CONTINUED OPERATION UNDER LOSS OF UTILITY POWER.
 - NETWORK ELECTRONICS (SWITCHES, ACCESS POINTS, ETC.)
 - VOIP TELEPHONE SYSTEM
 - CLASSROOM AUDIO/VIDEO EQUIPMENT AND INSTRUCTIONAL TECHNOLOGY
 - AUDIO/VIDEO SYSTEM FOR GYMNASIUM
 - ACCESS CONTROL SYSTEM
 - VIDEO SURVEILLANCE SYSTEM

ELECTRICAL KEYNOTES	
CO3	(1) 2" CONDUIT SLEEVES FOR DIV. 27 COMMUNICATIONS CABLEING
CO4	(1) 4" CONDUIT SLEEVES FOR DIV. 27 COMMUNICATIONS CABLEING
CO5	(2) 2" CONDUIT SLEEVES FOR DIV. 27 COMMUNICATIONS CABLEING
P01	RELOCATE EXISTING CONDUIT/WIRE TO RELOCATED VFD. EXTEND/ADJUST CONDUIT AND WIRE AS REQUIRED TO MAKE NEW CONNECTIONS.
P02	ESTABLISH NEW CONCRETE-ENCASED GROUNDING ELECTRODE IN FOOTING OF NEW ADDITION. INTERCONNECT WITH GROUNDING ELECTRODE SYSTEM AT SERVICE ENTRANCE OR NEAREST SEPARATELY DERIVED SYSTEM PER NEC AND SPECIFICATION REQUIREMENTS.
P04	INSTALL 8" x 8" x 8" JUNCTION BOX BEHIND AUDIO EQUIP. RACK FOR A-V CONDUITS TO ENTER RACK WHILE RECESSED IN WALL. SURFACE-MOUNTED CONDUITS ARE NOT ACCEPTABLE ABOVE, BELOW, OR ON SIDES RACK. STUB AN ADDITIONAL 2" CONDUITS OUT ABOVE ACCESSIBLE CEILING SPACE FROM BOX.
P05	PROVIDE 120V NETWORK ACTIVATION FOR CONNECTION TO COMMUNICATIONS OR SAFETY/SECURITY DEVICE. TERMINATED INSIDE RECESSED DEVICE BACKBOX.
P07	ROLLER SHADE CONTROL FOR GYMNASIUM. KEY-OPERATED SWITCH FURNISHED BY SECTION 12 24 13. WIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
P08	CAPTURE AND REDIRECT EXISTING CIRCUIT TO PANEL AS INDICATED.
P09	CAPTURE EXISTING CIRCUIT FOR PROJECTOR AND EXTEND TO NEW LOCATIONS.
P10	CAPTURE EXISTING CIRCUIT FOR GENERAL RECEPTACLES AND EXTEND TO NEW LOCATIONS.
P11	RECESS NEW REPLACEMENT PANELBOARD INTO EXISTING MASONRY WALL. COORDINATE CUTTING AND PATCHING OF MASONRY WITH ARCHITECTURAL TRADES AS REQUIRED. INTERCEPT, EXTEND, AND RECONNECT ANY BRANCH CIRCUIT LOAD CONDUITS/CONDUCTORS FROM CORRESPONDING DEMOLISHED PANEL. THAT REMAIN AFTER SELECTIVE DEMOLITION TO NEW CIRCUIT BREAKERS IN THIS PANEL.



UNIT 'A' POWER & COMMUNICATIONS PLAN
1/8" = 1'-0"

MECH MEZZANINE POWER & COMMUNICATIONS PLAN
1/8" = 1'-0"



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN KSS
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PROJECT NO. 5-5798

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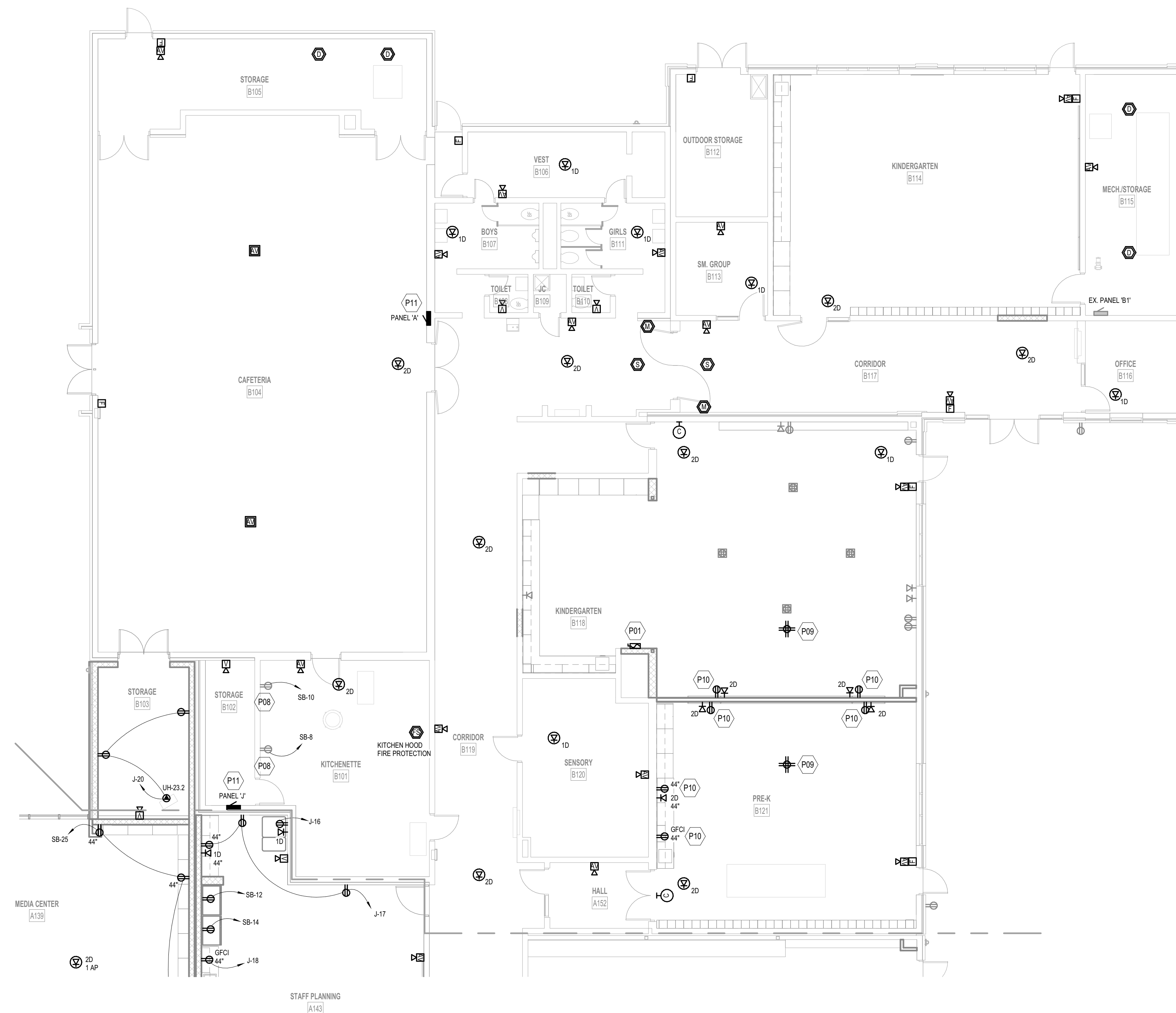
UNIT 'A' POWER & COMMUNICATIONS PLANS

E2.1A

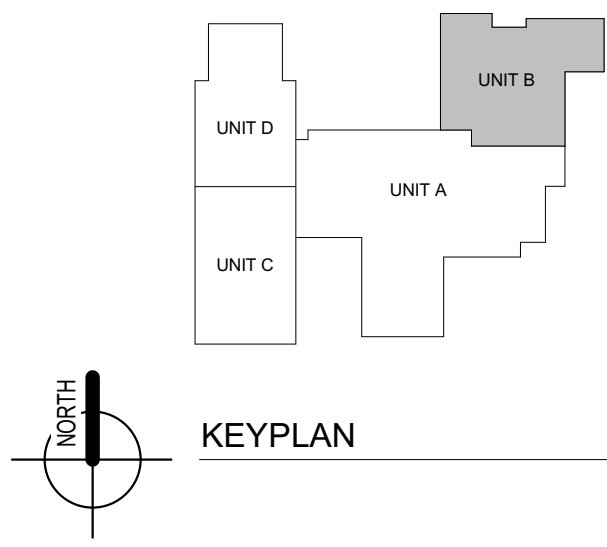
POWER & COMMUNICATION GENERAL NOTES

- REFER TO ELECTRICAL GENERAL NOTES ON SHEET E9.01.
- REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE CODES.
- ALL 15 AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE. REFER TO NEC 408.12 AND SPECIFICATION SECTION 26 27 26.
- PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS:
 - CONNECT TO DEDICATED 20A BRANCH CIRCUIT (WITH BREAKER LOCK-ON ACCESSORY IN LOCAL PANEL BOARD) FOR DAMPERS IN EACH AREA. (DAMPERS MAY BE GROUPED ON EACH CIRCUIT).
 - TERMINATE W/ BOX-COVER FUSIBLE DISCONNECT SWITCH AT EACH DAMPER.
 - PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 6 FEET.
 - PROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS.
- PROVIDE BOX-COVER FUSIBLE DISCONNECT SWITCH (ON BUILDING INTERIOR IN ACCESSIBLE LOCATION) FOR EACH SMALL (1/2 HP) MECHANICAL AND/OR PLUMBING EQUIPMENT MOTOR LOAD (WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT). TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, PUMPS, UNIT HEATERS, VAV BOXES, ETC.
- DESIGNATED CABLING PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLING AND DIV. 28 SAFETY/SECURITY CABLING ONLY. OTHER CABLING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 25 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLING SHALL BE SUPPORTED AND SLEEVED BY OTHER INDEPENDENT PATHWAYS, HANGERS, AND SUPPORTS.
- CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRONIC DOOR HARDWARE (REF. SECTION 86 71 00) TO CENTRAL LOCATIONS ADJACENT TO DESIGNATED ACCESS CONTROL EQUIPMENT LOCATIONS. CONNECT ALL POWER SUPPLIES TO DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUITS AS DESIGNATED FOR CONTINUED OPERATION UNDER LOSS OF UTILITY POWER.
- THE FOLLOWING DIV. 27 AND DIV. 28 SYSTEMS WILL BE DOCUMENTED AND BID SEPARATELY BY CONSULTANT IN ASSOCIATION WITH HUDSONVILLE P.S. TECHNOLOGY DEPT.
 - NETWORK ELECTRONICS (SWITCHES, ACCESS POINTS, ETC.)
 - VOIP TELEPHONE SYSTEM
 - CLASSROOM AUDIO-VISUAL EQUIPMENT AND INSTRUCTIONAL TECHNOLOGY
 - AUDIO-VISUAL SYSTEM FOR DYNAMASIM
 - ACCESS CONTROL SYSTEM
 - VIDEO SURVEILLANCE SYSTEM

ELECTRICAL KEYNOTES	
P01	RELOCATE EXISTING CONDUIT/WIRE TO RELOCATED VFD. EXTEND/ADD NEW CONDUIT AND WIRE AS REQUIRED TO MAKE NEW CONNECTIONS.
P08	CAPTURE AND REDIRECT EXISTING CIRCUIT TO PANEL AS INDICATED.
P09	CAPTURE EXISTING CIRCUIT FOR PROJECTOR AND EXTEND TO NEW LOCATIONS.
P10	CAPTURE EXISTING CIRCUIT FOR GENERAL RECEPTACLES AND EXTEND TO NEW LOCATIONS.
P11	REMOVE NEW REPLACEMENT PANEL BOARD INTO EXISTING MASONRY WALL. COORDINATE CUTTING AND PATCHING OF MASONRY WITH ARCHITECTURAL TRADES AS REQUIRED. INTERCEPT, EXTEND, AND RECONNECT ANY BRANCH CIRCUIT LOAD CONDUITS/CONDUCTORS FROM CORRESPONDING DEMOLISHED PANEL THAT REMAIN AFTER SELECTIVE DEMOLITION TO NEW CIRCUIT BREAKERS IN THIS PANEL.



UNIT 'B' POWER & COMMUNICATIONS PLAN
1/8" = 1'-0"



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
 HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

DRAWN KSS
REVIEWED MCK

PROJECT NO. 5-5798

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UNIT 'B' POWER & COMMUNICATIONS PLAN

E2.1B

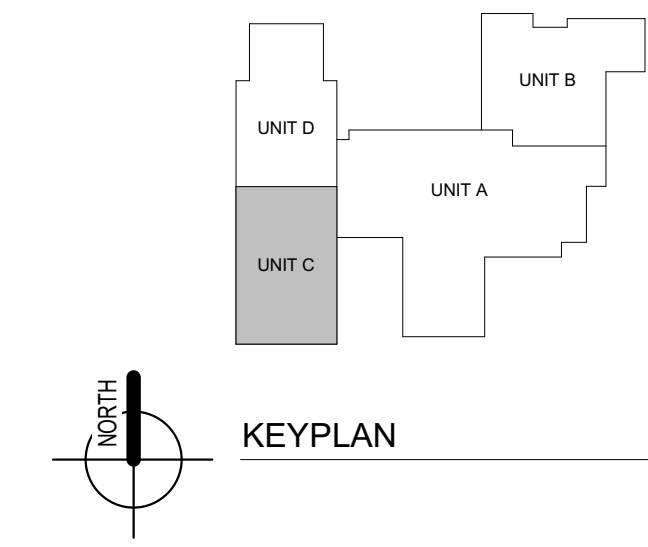
POWER & COMMUNICATION GENERAL NOTES

- REFER TO ELECTRICAL GENERAL NOTES ON SHEET 65.01.
- REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE CODES.
- ALL 15 AND 20-AMPERE, 125 AND 250 VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE. REFER TO NEC-40R.12 AND SPECIFICATION SECTION 26 27 28.
- PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS:
 - CONNECT TO DEDICATED 20A BRANCH CIRCUIT (WITH BREAKER LOCK-ON ACCESSORY IN LOCAL PANEL BOOTH) FOR DAMPERS IN EACH AREA (DAMPERS MAY BE GROUPED ON EACH CIRCUIT).
 - TERMINATE W/ BOX-COVER FUSIBLE DISCONNECT SWITCH AT EACH DAMPER.
 - PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN FEET OF EACH DAMPER UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 6 FEET.
 - PROVIDE FIRE ALARM ADDRESSABLE RELAYS FOR INTERLOCKING DAMPERS IN CORRESPONDING HVAC UNITS PER CODE REQUIREMENTS.
- PROVIDE BOX-COVER FUSIBLE DISCONNECT SWITCH (ON BUILDING INTERIOR ACCESSIBLE LOCATION) FOR EACH SMALL (1/2 HP) MECHANICAL AND/OR PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, PUMPS, UNIT HEATERS, VAV BOXES, ETC.
- DESIGNATED CABLING PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLING AND DIV. 28 SAFETY/SECURITY CABLING ONLY. OTHER CABLING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 26 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLING SHALL BE SUPPORTED AND SLEAVED BY OTHER INDEPENDENT PATHWAYS, HANGERS, AND SUPPORTS.
- CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRONIC DOOR HARDWARE (REF. SECTION 08 71 00) TO CENTRAL LOCATION(S) ADJACENT TO DESIGNATED ACCESS CONTROL EQUIPMENT LOCATION(S). CONNECT ALL POWER SUPPLIES TO DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) AS DESIGNATED FOR CONTINUED OPERATION UNDER LOSS OF UTILITY POWER.
- THE FOLLOWING DIV. 27 AND DIV. 28 SYSTEMS WILL BE DOCUMENTED AND BID SEPARATELY BY CONSULTANT IN ASSOCIATION WITH HUDSONVILLE P.S. TECHNOLOGY DEPT.:
 - NETWORK ELECTRONICS (SWITCHES, ACCESS POINTS, ETC.)
 - VOIP TELEPHONE SYSTEMS
 - CLASSROOM AUDIO/VIDEO EQUIPMENT AND INSTRUCTIONAL TECHNOLOGY
 - AUDIO/VIDEO SYSTEM FOR GYMNASIUM
 - ACCESS CONTROL SYSTEM
 - VIDEO SURVEILLANCE SYSTEM



ELECTRICAL KEYNOTES	
C01	CAPTURE EXISTING COMMUNICATION CABLES AND DATA RACKS AND MOVE TO NEW LOCATION. REROUTE EXISTING CABLES AS NECESSARY TO EXISTING DATA RACKS.
C03	1 1/2" CONDUIT SLEEVES FOR DIV. 27 COMMUNICATIONS CABLING.
P08	CAPTURE AND REDIRECT EXISTING CIRCUIT TO PANEL AS INDICATED.
P11	RECESS NEW REPLACEMENT PANELBOARD INTO EXISTING MASONRY WALL. COORDINATE CUTTING AND PATCHING OF MASONRY WITH ARCHITECTURAL TRADES AS REQUIRED. INTERCEPT, EXTEND, AND RECONNECT ANY BRANCH CIRCUIT LOAD CONDUITS/CONDUCTORS FROM CORRESPONDING DEMOLISHED PANEL THAT REMAIN AFTER SELECTIVE DEMOLITION TO NEW CIRCUIT BREAKERS IN THIS PANEL.

UNIT 'C' POWER & COMMUNICATIONS PLAN
1/8" = 1'-0"



PARK ELEMENTARY ADDITIONS AND RENOVATIONS
HUDSONVILLE PUBLIC SCHOOLS
HUDSONVILLE, MICHIGAN

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION

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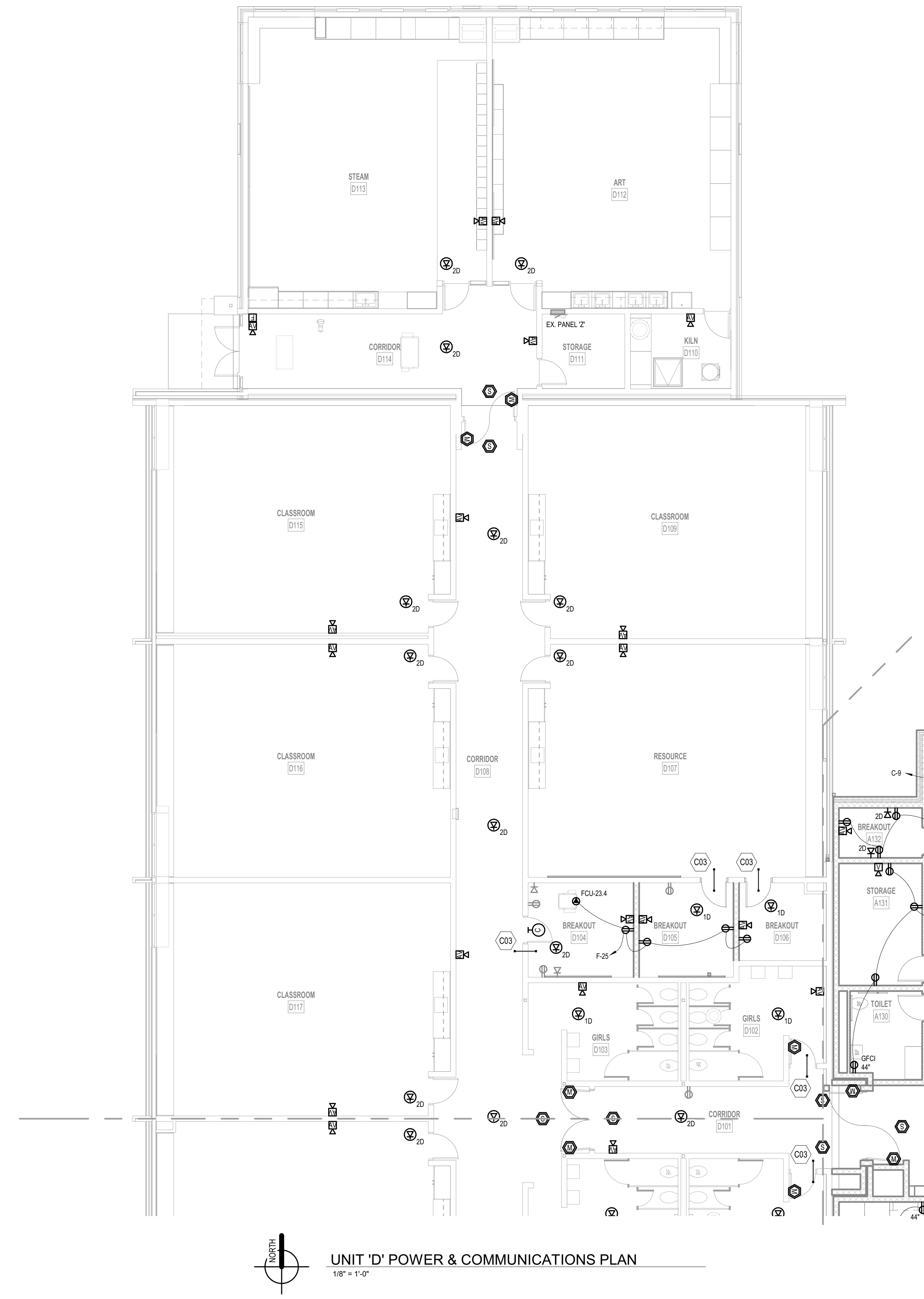
UNIT 'C' POWER & COMMUNICATIONS PLAN

E2.1C

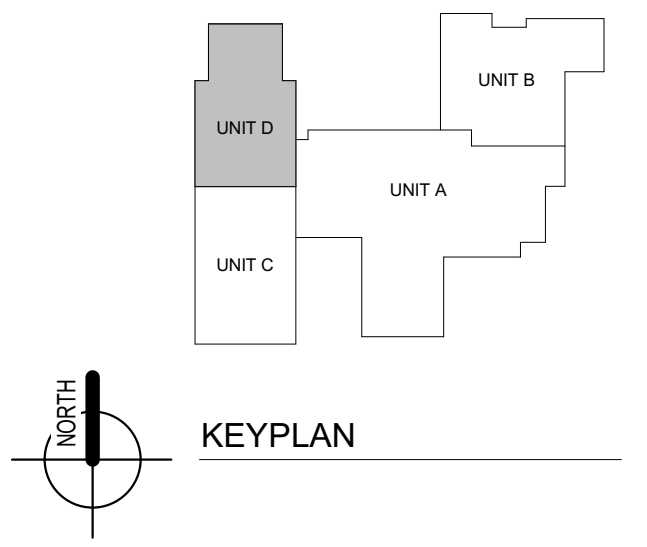
POWER & COMMUNICATION GENERAL NOTES

- REFER TO ELECTRICAL GENERAL NOTES ON SHEET E01.
- REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE CODES.
- ALL 15 AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE. REFER TO NEC-408.12 AND SPECIFICATION SECTION 26 27 26.
- PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS.
 - CONNECT TO DEDICATED 20A BRANCH CIRCUIT (WITH BREAKER LOCK ON ACCESSORY IN LOCAL PANEL/BOND FOR DAMPERS) IN EACH AREA (DAMPERS MAY BE GROUPED ON EACH CIRCUIT).
 - TERMINATE W/ BOX COVER FUSIBLE DISCONNECT SWITCH AT EACH DAMPER.
 - PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 5 FEET.
 - PROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS.
- PROVIDE BOX-COVER FUSIBLE DISCONNECT SWITCH (ON BUILDING EXTERIOR IN ACCESSIBLE LOCATION) FOR EACH SMALL (< 1/2 HP) MECHANICAL AND/OR PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, PUMPS, UNIT HEATERS, W/ BOXES, ETC.
- DESIGNATED CABLING PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLING AND DIV. 28 SAFETY/SECURITY CABLING ONLY. OTHER CABLING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 26 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLING SHALL BE SUPPORTED AND SLEEVED BY OTHER INDEPENDENT PATHWAYS, HANGERS, AND SUPPORTS.
- CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRONIC DOOR HARDWARE (REF. SECTION 08 71 00 TO CENTRAL LOCATIONS) ADJACENT TO DESIGNATED ACCESS CONTROL EQUIPMENT LOCATIONS. CONNECT ALL POWER SUPPLIES TO DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) AS DESIGNATED FOR CONTINUED OPERATION UNDER LOSS OF UTILITY POWER.
- THE FOLLOWING DIV. 27 AND DIV. 28 SYSTEMS WILL BE DOCUMENTED AND BID SEPARATELY BY CONSULTANT IN ASSOCIATION WITH HUDSONVILLE P.S. TECHNOLOGY DEPT.
 - NETWORK ELECTRONICS (SWITCHES, ACCESS POINTS, ETC.)
 - WIP TELEPHONE SYSTEMS
 - CLASSROOM AUDIO-VISUAL EQUIPMENT AND INSTRUCTIONAL TECHNOLOGY
 - AUDIO-VISUAL SYSTEM FOR GYMNASIUM
 - ACCESS CONTROL SYSTEM
 - VIDEO SURVEILLANCE SYSTEM

ELECTRICAL KEYNOTES	
	(1) 2" CONDUIT SLEEVES FOR DIV. 27 COMMUNICATIONS CABLING



UNIT 'D' POWER & COMMUNICATIONS PLAN
1/8" = 1'-0"



KEYPLAN

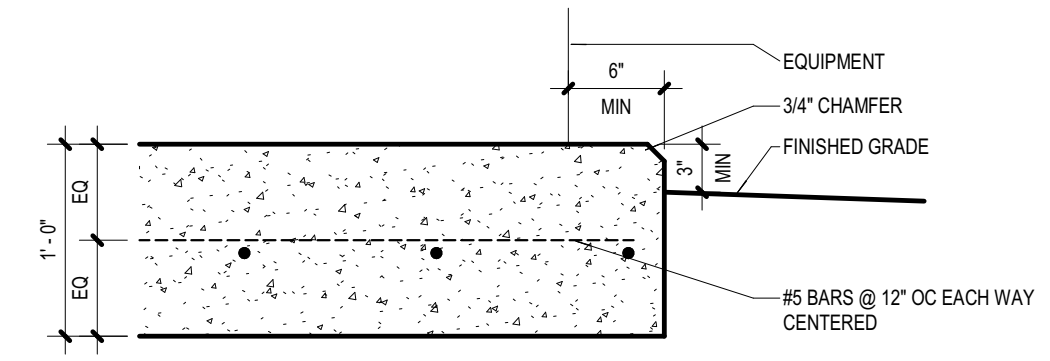
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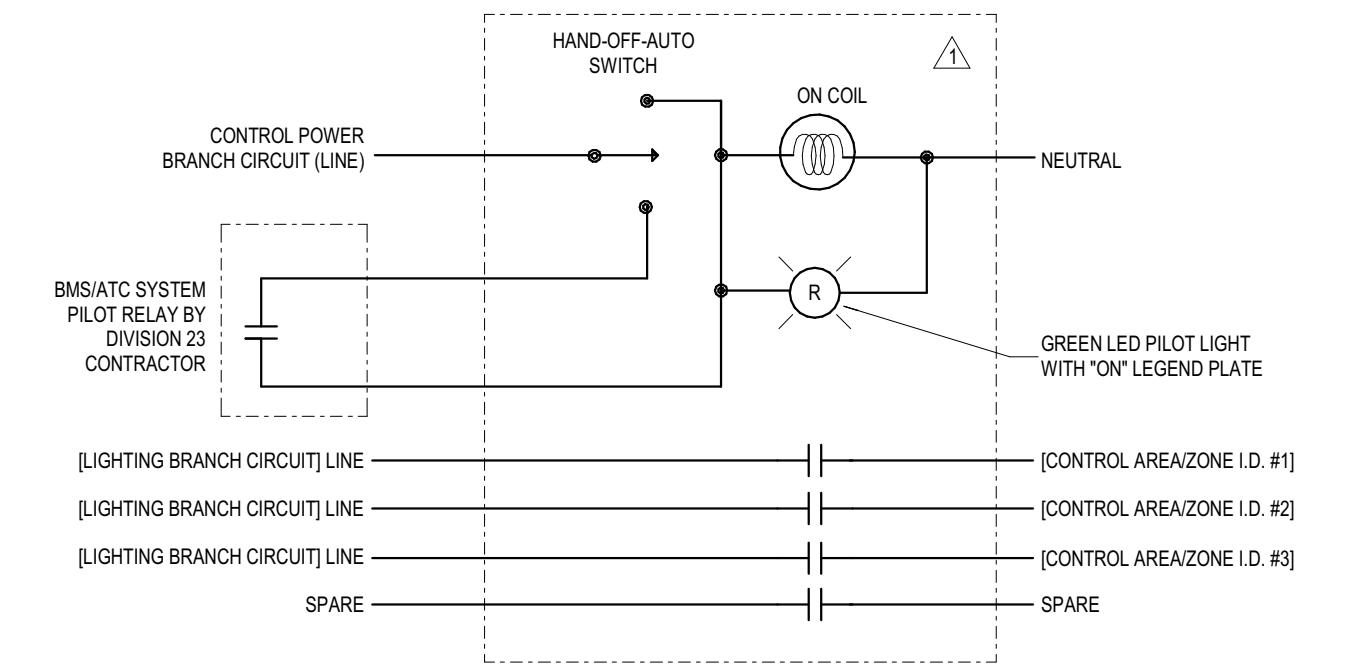
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UNIT 'D' POWER & COMMUNICATIONS PLAN



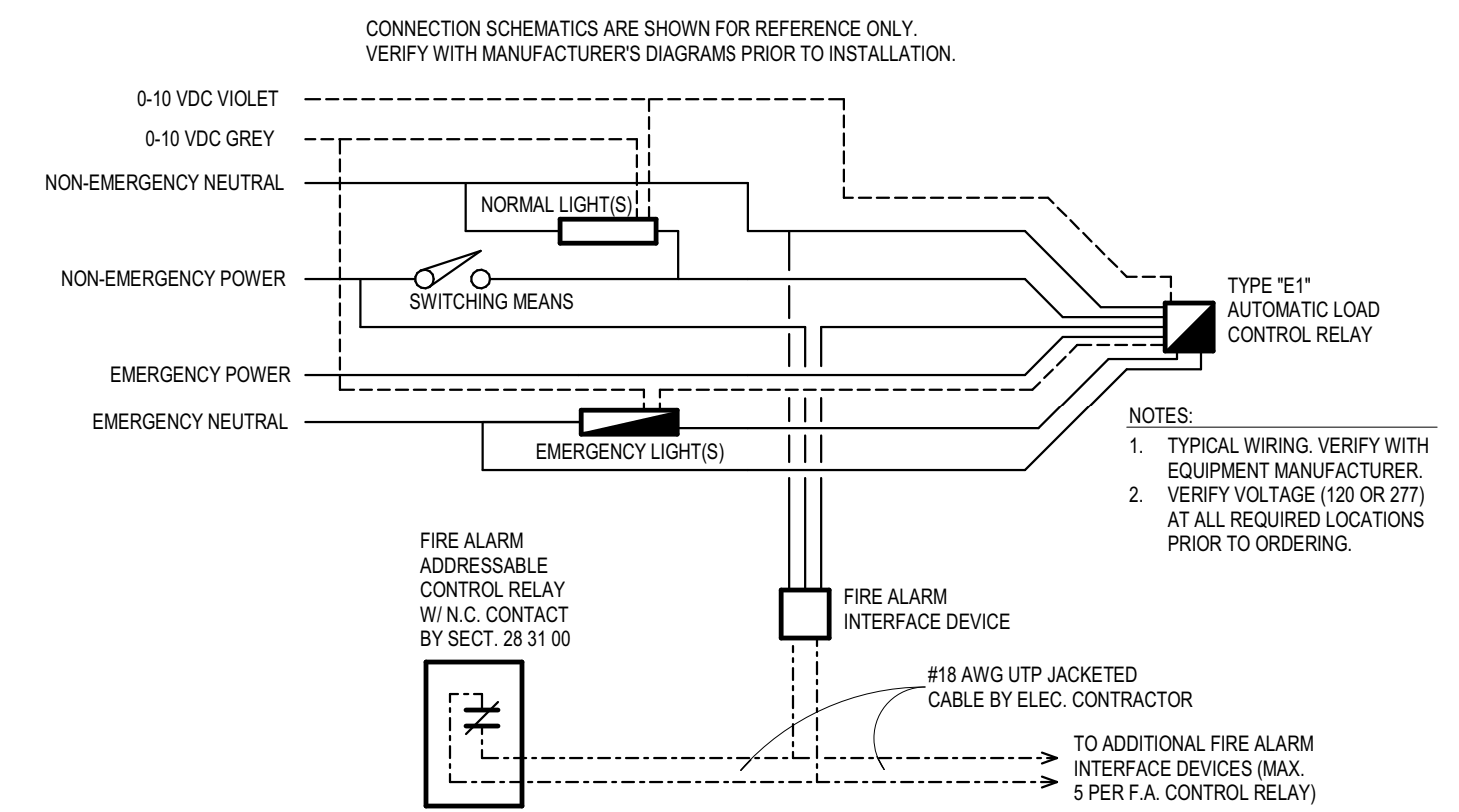
- NOTE:
1. SLAB DIMENSIONS PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.
 2. INFO SHOWN IS MINIMUM REQUIREMENT. COORD WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS IF MORE STRINGENT.
 3. ANY SLAB OPENINGS ARE TO BE COORDINATED WITH EQUIPMENT MANUFACTURER.
 4. SLAB TO BE POURED ON COMPACTED BASE. COORD W/ CIVIL & SECTECH.
 5. PROVIDE 4000 PSI CONCRETE W/ LIMESTONE AGGREGATE & 6% AIR ENTRAINMENT.

4
E7.01 EXTERIOR EQUIPMENT PAD DETAIL
NOT TO SCALE



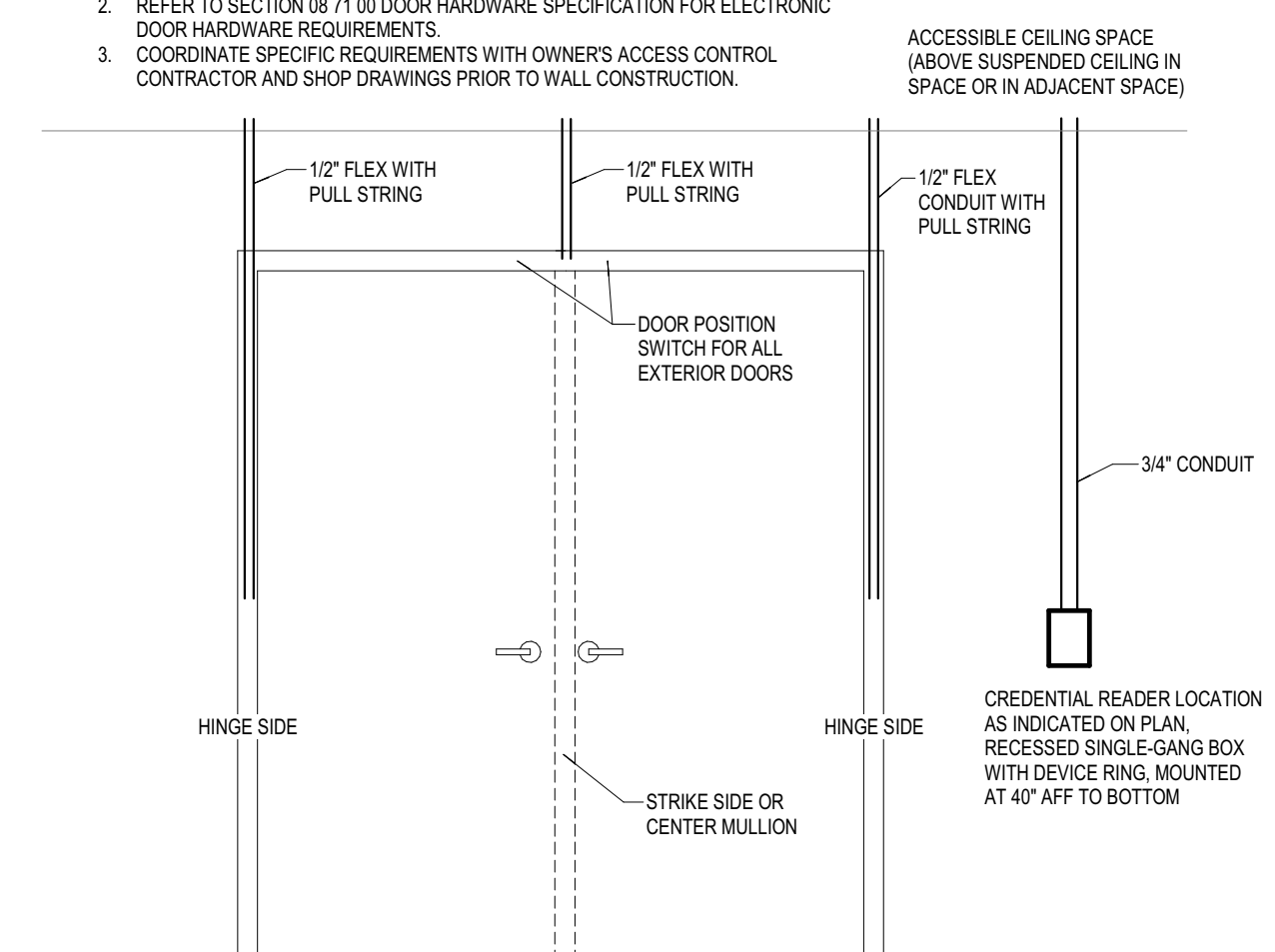
- ENCLOSED MULTIPOLE CONTACTOR PER SECTION 26 09 19 WITH THE FOLLOWING:
- NO. OF LOAD CONTACT POLES: 4
 - 20A MIN. LOAD RATING WITH LED LOADS TYPES PER NEMA 410
 - ELECTRICALLY HELD WITH 120VAC CONTROL COIL
 - HAND-OFF/AUTO SWITCH
 - GREEN LED PILOT LIGHT FOR "ON" INDICATION
 - NEMA 1 ENCLOSURE
 - ENGRAVED NAMEPLATE INDICATING "EXTERIOR LIGHTING CONTROL - [CONTROL AREA ZONE I.D.]".

3
E7.01 LIGHTING CONTROL CONTACTOR DETAIL
NOT TO SCALE



2
E7.01 EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL RELAY WITH FIRE ALARM INTERFACE
NOT TO SCALE

- NOTES:
1. PROVIDE SADDLEWAS INTO DOOR FRAME AT:
 - A. ALL NEW EXTERIOR DOORS
 - B. ALL INTERIOR DOORS DESIGNATED FOR RECEIVING ELECTRONIC DOOR HARDWARE
 2. REFER TO SECTION 08 71 00 DOOR HARDWARE SPECIFICATION FOR ELECTRONIC DOOR HARDWARE REQUIREMENTS
 3. COORDINATE SPECIFIC REQUIREMENTS WITH OWNERS ACCESS CONTROL CONTRACTOR AND SHOP DRAWINGS PRIOR TO WALL CONSTRUCTION.



1
E7.01 TYPICAL ROUGH-IN FOR DOORS WITH ELECTRONIC ACCESS CONTROL / MONITORING
NOT TO SCALE

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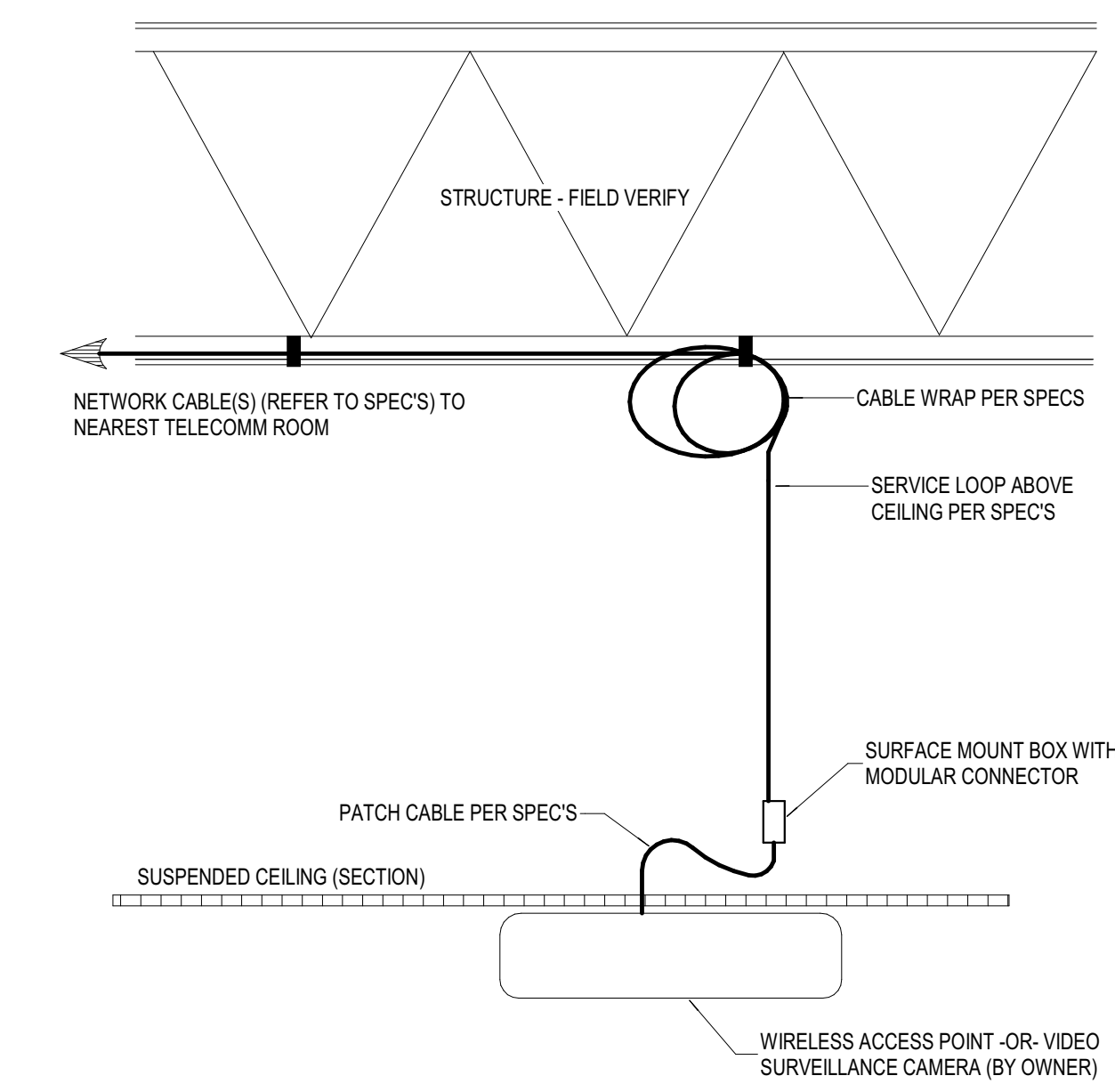
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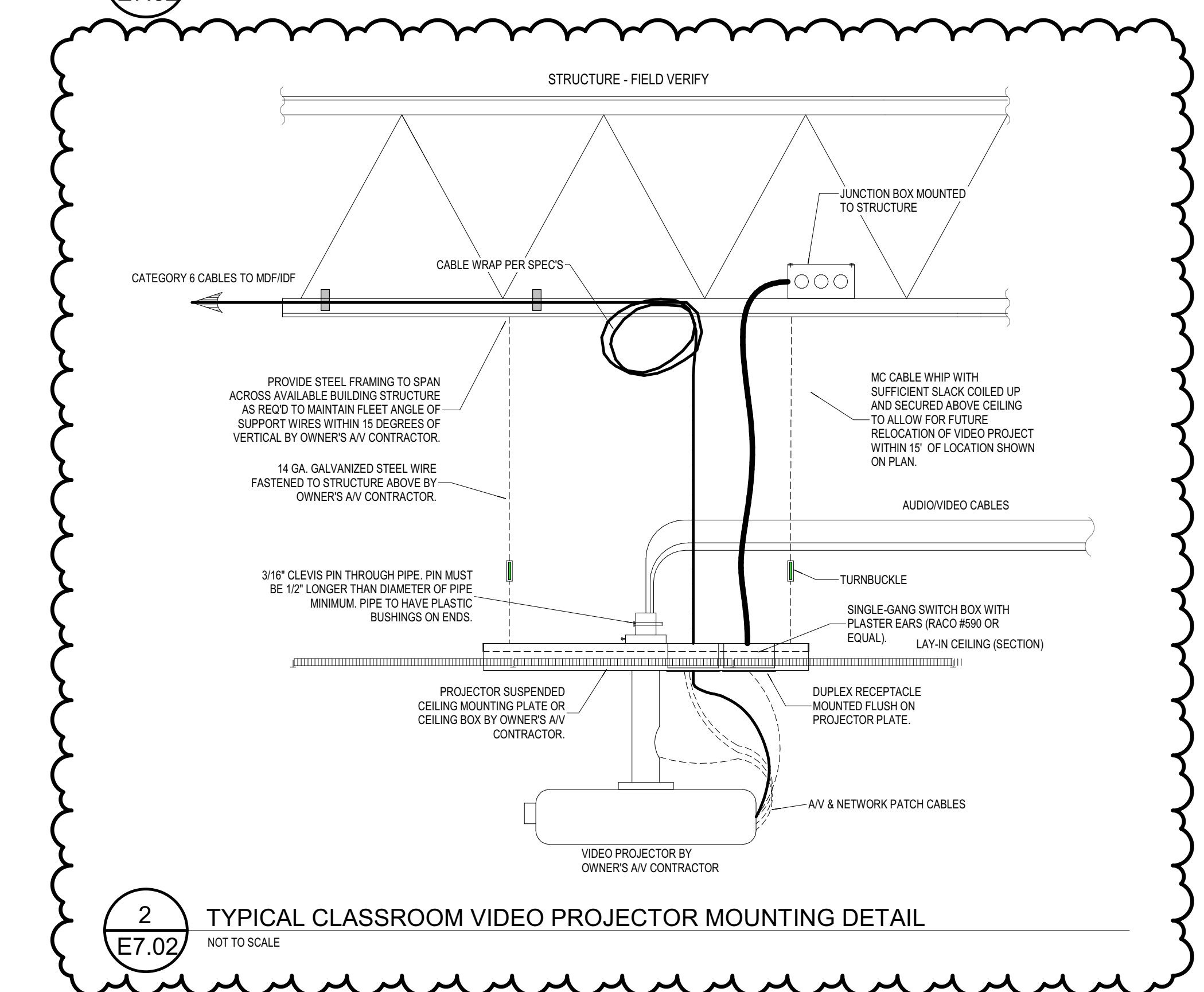
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ELECTRICAL DETAILS

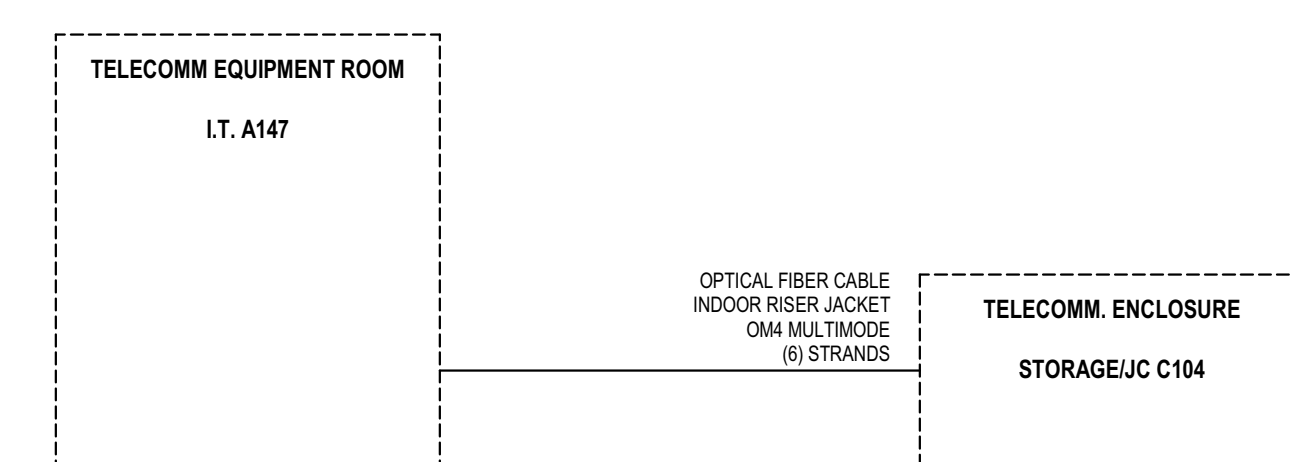
E7.01



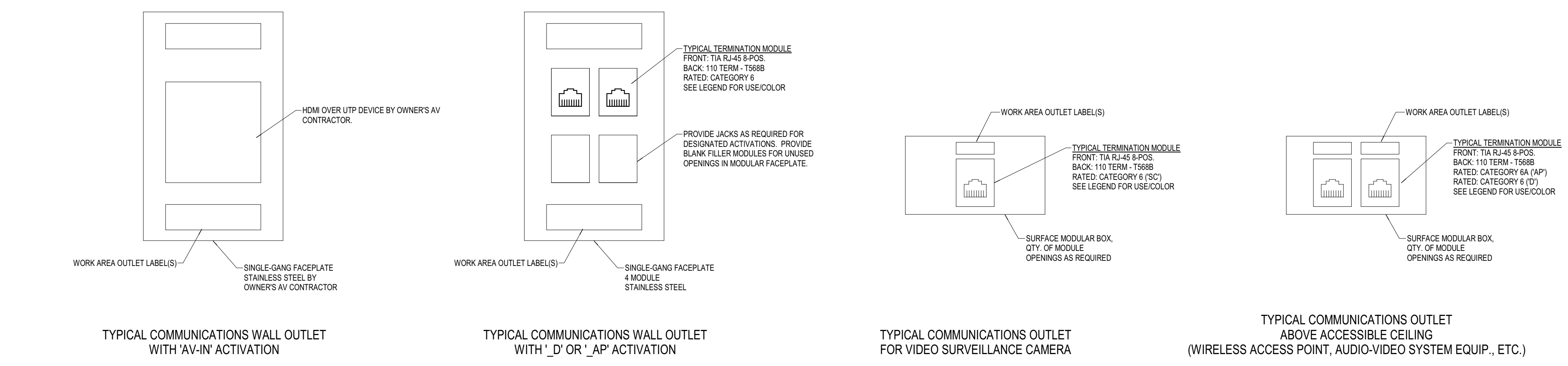
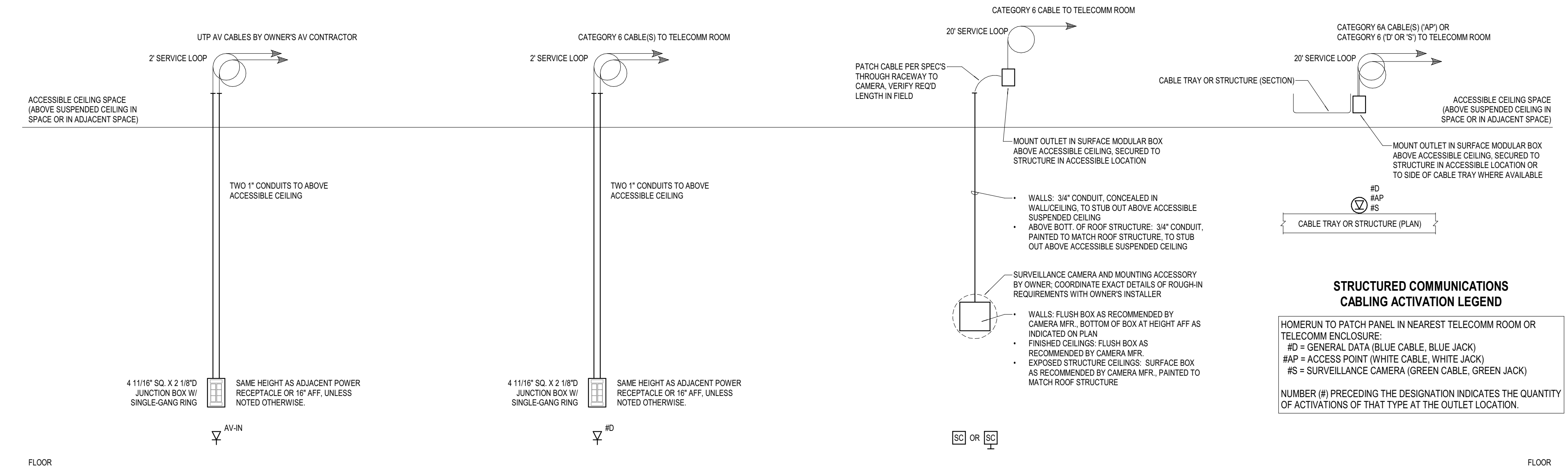
3
E7.02
NOT TO SCALE
CEILING MOUNTED COMMUNICATION DEVICE



2
E7.02
NOT TO SCALE
TYPICAL CLASSROOM VIDEO PROJECTOR MOUNTING DETAIL



4
E7.02
NOT TO SCALE
COMMUNICATIONS CABLING BACKBONE RISER



1
E7.02
NOT TO SCALE
TYPICAL COMMUNICATION OUTLET DETAILS

ISSUANCES
03.23.2023 BIDS & CONSTRUCTION
04.18.2023 ADDENDUM 001

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COMMUNICATIONS DETAILS

SECTION 08 71 00 - DOOR HARDWARE

(BULLETIN 007)

1 GENERAL

1.1 SUMMARY

- A. Scope of Work: This Section describes all finish hardware required to complete the work as indicated on the Drawings and specified herein. Provide all trim attachments and fastening specified or required for proper and complete installation.
- B. Related Sections:
 - 1. Section 08 11 13: Hollow Metal Doors and Frames
 - 2. Section 08 14 16: Flush Wood Doors
 - 3. Section 08 43 13: Aluminum Entrances and Storefronts

1.2 SUBMITTALS

- A. Product Data, Shop Drawings, Samples:
 - 1. General: Comply with the provisions of Section 01 33 00.
 - 2. Product Data: Within 15 calendar days after award of the Contract, submit:
 - a. Complete materials list of all items proposed to be furnished and delivered under this Section.
 - (1) Identify each hardware item by manufacturer, the manufacturer's catalog number, and the location of the item in the work.
 - (2) Make the list in form suitable for ready checking by the Architect.
 - b. Manufacturer's specifications, catalog cuts, and other data required to demonstrate compliance with specified requirements.
- Approval of the hardware list by the Architect/Engineer shall not relieve the Contractor from the responsibility for furnishing all required finish hardware.
- 3. Samples: Within 15 calendar days after being so requested by the Architect/Engineer, deliver to the Architect/Engineer samples of each finish hardware item.
 - 4. Templates: In a timely manner to ensure orderly progress of the work, deliver templates or physical samples of the approved finish hardware items to pertinent manufacturers of interfacing items such as door and frame.

1.3 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Qualifications of Manufacturers: Products used in the work of this Section shall be produced by manufacturers regularly engaged in manufacture of similar items and with a history of successful production acceptable to the Architect/Engineer.
 - 2. Qualification of Suppliers: The supplier shall have a qualified representative readily available to the Architect/Engineer, and/or Owner on short notice for consultation and service during the execution of this work and the warranty period.
 - 3. Qualification of Installers: Use adequate numbers of skilled workmen who are trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and methods needed for proper performance of this Section.
- B. Regulatory Requirements & References: Fire Rated Openings: Comply with the requirements of Underwriter's Laboratories, Inc.
- C. Pre-Installation Conference: Prior to the installation of hardware, manufacturer's representatives for locksets, closers, and exit devices shall arrange and hold a jobsite meeting to instruct the installing contractor's personnel on the proper installation of their respective



products. A letter of compliance, indicating when this meeting is held and who is in attendance, shall be sent to the Architect and Owner.

1 .4 DELIVERY, STORAGE, AND HANDLING

- A. Packing and Shipping: Individually package each units of finish hardware, complete with proper fastening and appurtenances, clearly marked on the outside to indicate the contents and specific locations in the work.
- B. Protection: Use all means necessary to protect materials of this Section before, during, and after delivery to the job site and to protect the work and materials of all other trades.
- C. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect/Engineer and at no additional cost to the owner.
- D. Deliveries:
 - 1. Stockpile all items sufficiently in advance to ensure their availability and make all necessary deliveries in a timely manner to ensure orderly progress of the total work.
 - 2. All hardware shall be delivered to a destination as directed by the Construction Manager with sufficient time in advance for proper inspection in order not to delay the scheduled completion date.
 - 3. The Construction Manager shall provide a lockable room with ample shelving for the storage of hardware. Upon receipt of the hardware, the Finish Hardware supplier shall unpack and place on the shelves all hardware in order of item and/or door numbers.

1 .5 SEQUENCING AND SCHEDULING

Coordinate all work with job site superintendent and all applicable trades.

1 .6 WARRANTY

- A. Provide a written warranty in approved form in compliance with the related requirements of the General Conditions, covering all Finish Hardware furnished under this Section against defects in manufacturing and workmanship for a minimum of two (2) years from the final acceptance of the building.
- B. Any material failing to comply with the above guarantee shall be removed and replaced with satisfactory material at the Finish Hardware supplier’s expense, including the necessary labor for removing and replacing.
- C. During the Warranty Period, the Finish Hardware supplier shall, upon request, make prompt adjustments, repairs or replacements as required to any hardware installed under this contract, other than normal maintenance service.

2 PRODUCTS

2 .1 ACCEPTABLE MANUFACTURERS

Product	Specified	Acceptable Alternates
Continuous Hinges	Ives	Select, Pemko
Hinge	Ives	McKinney, Stanley
Flush Bolts	Ives	Trimco, Rockwood
Power Transfer	Von Duprin EPT10	Securitron
Electrified Hinge (PoE)	McKinney (Provided by Integrator)	No Substitution
Wire Harness (PoE)	McKinney (Provided by Integrator)	No Substitution
Cylindrical Locks	Yale 5400LN Series	No Substitution
Mortise Locks	Yale 8800 Series	No Substitution
Electronic Locks	Corbin-Russwin IN220 (Provided by Integrator)	No Substitution

Keys and Cylinders	Yale G Keyway	No Substitution (Owners Key System)
Exit Devices	Yale 7000 Series	No Substitution
Electric Strikes (PoE)	Trine 4000 Series	No Substitution
Door Closers	LCN 4040XP Series	No Substitution
Push/Pull & Kick Plates	Ives	Trimco, Rockwood
Stops	Ives	Trimco, Rockwood
Overhead Stops	Glynn-Johnson	No Substitution
Seals and Thresholds	Zero	NGP, Reese, Pemko
Magnetic Hold-Opens	LCN SEM Series	Rixson, ABH
Auto Operators	LCN 4600 Series	No Substitution
Power Supplies	Von Duprin PS900 Series	Securitron

2.2 MATERIALS

A. General:

1. Proprietary Products: References to specific proprietary products are used to establish minimum standards of utility and quality. Unless otherwise approved by the Architect/Engineer, provide only the specific products. Design is based on the materials specified. Other materials may be considered by the Architect/Engineer in accordance with the provisions of Section 01 33 00.
2. Fasteners:
 - a. Furnish all finish hardware with all necessary screws, bolts, and other fasteners of suitable size and type to anchor the hardware in position for long life under hard use.
 - b. Furnish fastenings where necessary with expansion shields, toggle bolts, sex bolts, and other anchors approved by the Architect/Engineer, according to the materials to which the hardware is to be applied and the recommendations of the hardware manufacturer.
 - c. All fastenings shall harmonize with the hardware as to materials and finish.
3. Finishes of all hardware shall match the finish of the locksets. Take special care to coordinate all of the various manufactured items furnished under this Section, to ensure acceptably uniform finish.
4. **Through-bolt door closers on all wood doors.**

B. Keying: All lock shall be master keyed as directed by the Architect and Owner to the Owners Existing Yale key system. Supply 3 keys per lock, 6 master keys for each master key group and 3 grand master keys.

C. Tools and Manuals: With the delivery of permanent keys, deliver to the Owner one complete set of adjustment tools and one set of maintenance manuals for locksets, latchsets, closers, and panic devices.

D. **Provide Special Product Configurable Code (SPAR05493) for all Yale 7100 Series Exit Devices specified with Corbin-Russwin IN220 Electronic Exit Device Trim. Must be included in purchase orders as well.**

E. **Corbin Russwin IN220 electronic lock, McKinney electrified hinge and McKinney wire harness for PoE applications to be provided by Access Control Integrator as listed in hardware sets.**

3 EXECUTION

3.1 INSTALLATION

- A. Install the materials in strict accordance with the manufacturer's recommendations and schedules.
- B. All doors should swing as far as conditions allow. When mounting door closers, use the mounting that allows doors to swing to the wall or floor bumper. Do not stop the door with the



closer arm unless the arm is designed specifically to stop the door. when mounting closers designed with arms to stop the door or overhead door stops, always mount them to allow the door to swing as far as conditions will permit.

- C. Anchor all screws with Loc-Tite to assure permanence of attachment.
- D. All doors and hardware to be left in proper working order and cleaned.
- E. Special Hardware Instructions:
 1. Wall stops WS33 are to be mounted on the wall up at the top of the door and as far out on the latch edge as conditions allow. The sloped side is to face up, preventing anyone or anything to hang on them.
 2. Wall stop & holds WH45 are to be mounted the same as the WS33.

3.2 ADJUSTING AND CLEANING

- A. Final inspections shall be made by the Architect and Finish Hardware Supplier. They shall report any installation adjustments that are to be made to have all hardware in perfect working order. The Finish Hardware Supplier shall verify the keying to the Architect to insure proper location of locksets and cylinders. All closers shall be checked and adjusted for closing.
- B. Prior to final acceptance of the installation, the Finish Hardware Supplier shall make a final inspection to verify that all corrections have been made and that all hardware items are in good working condition.

4 HARDWARE SCHEDULE

Hardware Group No. 01

For use on Door #(s):

E116A








Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	112HD		628	IVE
2	EA	PUSH/PULL BAR	9103EZHD-10"-NO		630-316	IVE
2	EA	OH STOP	100S		630	GLY
2	EA	SURFACE CLOSER	4040XP EDA		689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 (AS REQ'D)		689	LCN
			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER			

Hardware Group No. 02

For use on Door #(s):
 E101B

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	112HD		628	IVE
2	EA	PUSH/PULL BAR	9103EZHD-10"-NO		630-316	IVE
2	EA	OH STOP	100S		630	GLY
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	SURF. AUTO OPERATOR	4642 WMS		689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 (AS REQ'D)		689	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-853T		630	LCN
1	EA	FLUSH MOUNT BOX	8310-867F			LCN
			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER			






OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

BOTH ACTUATOR BUTTONS ARE ENABLED WHEN THE OPERATOR IS TURNED ON. PUSHING EITHER ENABLED ACTUATOR BUTTON WILL CAUSE THE AUTOMATIC OPERATOR TO MOMENTARILY OPEN THE DOOR. FREE EGRESS AT ALL TIMES.

Hardware Group No. 03

For use on Door #(s):
 E107A E108A

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5		626	IVE
1	EA	PRIVACY LOCK W/INDICATOR	PBR 8802FL IND		626	YAL
1	EA	SURFACE CLOSER	4040XP RW/PA - PULL-SIDE		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488S		BK	ZER



Hardware Group No. 04

For use on Door #(s):
 E202A

Each to have:

QTY	EA	DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	ELECTRIFIED HINGE (HW)	73696 POE - PROVIDED BY INTEGRATOR		652	MCK
1	EA	ELECTRONIC LOCK (PoE)	CL33134-PZD-IN220-IP-B-LC - PROVIDED BY INTEGRATOR		626	C-R
1	EA	CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM - COORDINATE WITH OWNER		626	YAL
1	EA	SURFACE CLOSER	4040XP SCUSH		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
3	EA	SILENCER	SR64		GRY	IVE
1	EA	POE WIRE HARNESS (HINGE TO LOCK X HINGE TO CEILING)	94212/3 X 94217 - PROVIDED BY INTEGRATOR			MCK

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.









LOCKSET IS NORMALLY SECURE. INSIDE LEVER ALWAYS ALLOWS FREE EGRESS. PRESENTING VALID CREDENTIAL TO CARD READER WILL MOMENTARILY UNLOCK LOCK AND ALLOW ENTRY. VALID TOGGLE CREDENTIAL CAN PROVIDE PASSAGE STATUS. DURING LOCKDOWN THE STATUS WILL CHANGE TO LOCK.

Hardware Group No. 05

For use on Door #(s):

E103A E109A

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	HINGE	5BB1HW 4.5 X 4.5		652	IVE
1	EA	ELECTRIFIED HINGE (HW)	73696 POE - PROVIDED BY INTEGRATOR		652	MCK
1	EA	ELECTRONIC LOCK (PoE)	CL33134-PZD-IN220-IP-B-LC - PROVIDED BY INTEGRATOR		626	C-R
1	EA	CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM - COORDINATE WITH OWNER		626	YAL
1	EA	SURFACE CLOSER	4040XP RW/PA - PULL-SIDE		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488S		BK	ZER
1	EA	POE WIRE HARNESS (HINGE TO LOCK X HINGE TO CEILING)	94212/3 X 94217 - PROVIDED BY INTEGRATOR			MCK

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.










LOCKSET IS NORMALLY SECURE. INSIDE LEVER ALWAYS ALLOWS FREE EGRESS. PRESENTING VALID CREDENTIAL TO CARD READER WILL MOMENTARILY UNLOCK LOCK AND ALLOW ENTRY. VALID TOGGLE CREDENTIAL CAN PROVIDE PASSAGE STATUS. DURING LOCKDOWN THE STATUS WILL CHANGE TO LOCK.

Hardware Group No. 06

For use on Door #(s):

E110A E121A

Each to have:

QTY	EA	DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	HINGE	5BB1HW 4.5 X 4.5		652	IVE
1	EA	ELECTRIFIED HINGE (HW)	73696 POE - PROVIDED BY INTEGRATOR		652	MCK
1	EA	ELECTRONIC LOCK (PoE)	CL33134-PZD-IN220-IP-B-LC - PROVIDED BY INTEGRATOR		626	C-R
1	EA	CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM - COORDINATE WITH OWNER		626	YAL
1	EA	OH STOP	100S		630	GLY
1	EA	SURFACE CLOSER	4040XP ST-1630		689	LCN
1	EA	TOP JAMB MTG PLATE	4040XP-18TJ		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	GASKETING	488S		BK	ZER
1	EA	POE WIRE HARNESS (HINGE TO LOCK X HINGE TO CEILING)	94212/3 X 94217 - PROVIDED BY INTEGRATOR			MCK













OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

LOCKSET IS NORMALLY SECURE. INSIDE LEVER ALWAYS ALLOWS FREE EGRESS. PRESENTING VALID CREDENTIAL TO CARD READER WILL MOMENTARILY UNLOCK LOCK AND ALLOW ENTRY. VALID TOGGLE CREDENTIAL CAN PROVIDE PASSAGE STATUS. DURING LOCKDOWN THE STATUS WILL CHANGE TO LOCK.

Hardware Group No. 07

For use on Door #(s):
 E120A

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
5	EA	HINGE	5BB1HW 4.5 X 4.5		652	IVE
1	EA	ELECTRIFIED HINGE (HW)	73696 POE - PROVIDED BY INTEGRATOR		652	MCK
1	SET	CONST LATCHING BOLT	FB51P/FB61P (AS REQ'D)		630	IVE
1	EA	DUST PROOF STRIKE	DP2		626	IVE
1	EA	ELECTRONIC LOCK (PoE)	CL33134-PZD-IN220-IP-B-LC - PROVIDED BY INTEGRATOR		626	C-R
1	EA	CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM - COORDINATE WITH OWNER		626	YAL
1	EA	COORDINATOR	COR X FL		628	IVE
2	EA	OH STOP	100S		630	GLY
2	EA	SURFACE CLOSER	4040XP ST-1630		689	LCN
2	EA	TOP JAMB MTG PLATE	4040XP-18TJ		689	LCN
1	EA	MEETING STILE	8217S		BK	ZER
1	EA	GASKETING	488S		BK	ZER
1	EA	POE WIRE HARNESS (HINGE TO LOCK X HINGE TO CEILING)	94212/3 X 94217 - PROVIDED BY INTEGRATOR			MCK

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

LOCKSET IS NORMALLY SECURE. INSIDE LEVER ALWAYS ALLOWS FREE EGRESS. PRESENTING VALID CREDENTIAL TO CARD READER WILL MOMENTARILY UNLOCK LOCK AND ALLOW ENTRY. VALID TOGGLE CREDENTIAL CAN PROVIDE PASSAGE STATUS. DURING LOCKDOWN THE STATUS WILL CHANGE TO LOCK.



Hardware Group No. 08

For use on Door #(s):

C112A E102A E105A E106A E118A

Each to have:

QTY	EA	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	ELECTRIFIED HINGE (HW)	73696 POE - PROVIDED BY INTEGRATOR	652	MCK
1	EA	ELECTRONIC LOCK (PoE)	CL33134-PZD-IN220-IP-B-LC - PROVIDED BY INTEGRATOR	626	C-R
1	EA	CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM - COORDINATE WITH OWNER	626	YAL
1	EA	SURFACE CLOSER	4040XP RW/PA - PUSH-SIDE	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488S	BK	ZER
1	EA	POE WIRE HARNESS (HINGE TO LOCK X HINGE TO CEILING)	94212/3 X 94217 - PROVIDED BY INTEGRATOR		MCK









OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

LOCKSET IS NORMALLY SECURE. INSIDE LEVER ALWAYS ALLOWS FREE EGRESS. PRESENTING VALID CREDENTIAL TO CARD READER WILL MOMENTARILY UNLOCK LOCK AND ALLOW ENTRY. VALID TOGGLE CREDENTIAL CAN PROVIDE PASSAGE STATUS. DURING LOCKDOWN THE STATUS WILL CHANGE TO LOCK.

Hardware Group No. 09

For use on Door #(s):
 E201A

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		630	IVE
1	EA	INSTITUTIONAL LOCK	PB 5430LN - KEYED TO OWNERS YALE KEY SYSTEM, COORDINATE WITH OWNER		626	YAL
1	EA	ELECTRIC STRIKE (PoE)	4200RS (FAIL-SAFE)		⚡ 630	TRN
1	EA	OH STOP	100S		630	GLY
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 (AS REQ'D)		689	LCN
1	EA	DOOR SWEEP	8192AA		AA	ZER
1	EA	THRESHOLD	566A		A	ZER
2	EA	CARD READER	PROVIDED BY SECURITY CONTRACTOR		⚡	
1	EA	DOOR CONTACT	679-05HM		⚡ BLK	SCE
1	EA	POWER SUPPLY	PS902 900-FA - COORDINATE POWER SUPPLY REQUIREMENTS W/SECURITY PROVIDER WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		⚡	VON









OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

DOOR NORMALLY CLOSED AND LOCKED VIA ACCESS CONTROL SYSTEM. PRESENTING A VALID CREDENTIAL TO EITHER READER WILL MOMENTARILY UNLOCK THE ELECTRIC STRIKE ALLOWING ACCESS. DOOR CONTACT MONITORS WHETHER THE DOOR IS OPENED, CLOSED OR HELD OPEN TOO LONG. DOOR TO REMAIN UNLOCKED UPON LOSS OF POWER OR ACTIVATION OF THE FIRE ALARM.

Hardware Group No. 10

For use on Door #(s):
 E119A

Each to have:

QTY	EA	DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	112HD		628	IVE
2	EA	MANUAL FLUSH BOLT	FB458		626	IVE
1	EA	STOREROOM LOCK	PB 5405LN		626	YAL
			- KEYED TO EXISTING			
2	EA	OH STOP & HOLDER	100H		630	GLY
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 (AS REQ'D)		689	LCN
2	EA	DOOR SWEEP	8192AA		AA	ZER
1	EA	THRESHOLD	566A		A	ZER
2	EA	DOOR CONTACT	679-05HM		BLK	SCE
			WEATHERSTRIP BY			
			DOOR/FRAME			
			MANUFACTURER			

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

DOOR CONTACT MONITORS WHETHER THE DOOR IS OPENED, CLOSED OR HELD OPEN TOO LONG.

Hardware Group No. 11

For use on Door #(s):

E114A E115A

Each to have:

QT		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
Y						
2	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	ELECTRIFIED HINGE (HW)	73696 POE - PROVIDED BY INTEGRATOR		✓ 652	MCK
1	EA	ELECTRONIC EXIT DEVICE TRIM (PoE)	CORBIN-RUSSWIN IN220 - PSA LEVER - PROVIDED BY INTEGRATOR		✓ 626	C-R
4	EA	PANIC HARDWARE	7150-ECK1-LESS DOGGING-SPAR05493		630	YAL
1	EA	FIRE EXIT HARDWARE	7150F-ECK1-SPAR05493		630	YAL
1	EA	CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM - COORDINATE WITH OWNER		626	YAL
1	EA	SURFACE CLOSER	4040XP RW/PA - PUSH-SIDE		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488S		BK	ZER
3	EA	SILENCER	SR64		GRY	IVE
1	EA	POE WIRE HARNESS (HINGE TO LOCK X HINGE TO CEILING)	94212/3 X 94217 - PROVIDED BY INTEGRATOR		✓	MCK

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

LOCKSET IS NORMALLY SECURE. INSIDE LEVER ALWAYS ALLOWS FREE EGRESS. PRESENTING VALID CREDENTIAL TO CARD READER WILL MOMENTARILY UNLOCK LOCK AND ALLOW ENTRY. VALID TOGGLE CREDENTIAL CAN PROVIDE PASSAGE STATUS. DURING LOCKDOWN THE STATUS WILL CHANGE TO LOCK.

Hardware Group No. 12

For use on Door #(s):

E117A E117B

Each to have:

QTY	EA	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
5	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	ELECTRIFIED HINGE (HW)	73696 POE - PROVIDED BY INTEGRATOR	652	MCK
1	EA	FIRE RATED REMOVABLE MULLION	M200F-102S	689	YAL
1	EA	ELECTRONIC EXIT DEVICE TRIM (PoE)	CORBIN-RUSSWIN IN220 - PSA LEVER - PROVIDED BY INTEGRATOR	626	C-R
1	EA	FIRE EXIT HARDWARE	7150F-ECK1	630	YAL
1	EA	FIRE EXIT HARDWARE	7150F-ECK1-SPAR05493	630	YAL
1	EA	CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM - COORDINATE WITH OWNER	626	YAL
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FIRE/LIFE WALL MAG	SEM7850 (COORDINATE VOLTAGE AS REQ'D)	689	LCN
1	EA	MEETING STILE	8217S	BK	ZER
1	EA	GASKETING	488S	BK	ZER
1	EA	POE WIRE HARNESS (HINGE TO LOCK X HINGE TO CEILING)	94212/3 X 94217 - PROVIDED BY INTEGRATOR		MCK

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

THE WALL MAGNETS SHALL BE WIRED TO THE FIRE ALARM PANEL THROUGH A SET OF NORMALLY-CLOSED, DRY CONTACTS (SUPPLIED BY THE FIRE ALARM CONTRACTOR) AND LOCKDOWN SYSTEM.











DOORS NORMALLY HELD OPEN BY MAGNETIC HOLD OPENS. MAGNETIC HOLD OPENS ARE WIRED TO THE FIRE ALARM AND SECURITY SYSTEM. WHEN SYSTEM IS ACTIVATED, THE MAGNETS RELEASE, AND THE DOORS CLOSE AND LOCK. DOORS CAN ALSO BE MANUALLY RELEASED FROM THE MAGNETS.

LOCKSET IS NORMALLY SECURE. INSIDE LEVER ALWAYS ALLOWS FREE EGRESS. PRESENTING VALID CREDENTIAL TO CARD READER WILL MOMENTARILY UNLOCK LOCK AND ALLOW ENTRY. VALID TOGGLE CREDENTIAL CAN PROVIDE PASSAGE STATUS. DURING LOCKDOWN THE STATUS WILL CHANGE TO LOCK.

Hardware Group No. 13

For use on Door #(s):
 E116B

Each to have:

QTY	EA	DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	112HD EPT		628	IVE
2	EA	POWER TRANSFER	EPT10		⚡ 689	VON
1	EA	REMOVABLE MULLION	KRM200-102S		689	YAL
1	EA	ELEC PANIC HARDWARE	7150-B-634F-ECK1-LESS DOGGING		⚡ 630	YAL
1	EA	ELEC PANIC HARDWARE	7150-MELR-B-632F-ECK1-LESS DOGGING		⚡ 630	YAL
1	EA	MORTISE CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM		626	YAL
			- COORDINATE WITH OWNER			
1	EA	RIM CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM		626	YAL
			- COORDINATE WITH OWNER			
2	EA	OH STOP	100S		630	GLY
2	EA	SURFACE CLOSER	4040XP EDA		689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 (AS REQ'D)		689	LCN
2	EA	DOOR SWEEP	8192AA		AA	ZER
1	EA	THRESHOLD	655A		A	ZER
1	EA	MULLION SEAL	8780N		BK	ZER
1	EA	CARD READER	PROVIDED BY SECURITY CONTRACTOR		⚡	
2	EA	DOOR CONTACT	679-05HM		⚡ BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS		⚡	VON
			- COORDINATE POWER SUPPLY REQUIREMENTS W/SECURITY PROVIDER			
			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER			

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

DOORS NORMALLY CLOSED AND LOCKED VIA ACCESS CONTROL SYSTEM. PRESENTING A VALID CREDENTIAL TO THE READER WILL MOMENTARILY RETRACT THE PANIC DEVICE LATCH ALLOWING ACCESS. THE REQUEST TO EXIT FEATURE OF THE DEVICES TO SHUNT THE ALARM OUTPUT OF THE DOOR CONTACTS DURING VALID EGRESS. DOOR CONTACTS MONITOR WHETHER THE DOORS ARE OPENED, CLOSED OR HELD OPEN TOO LONG. DOORS TO REMAIN LOCKED WITH LOSS OF POWER OR ACTIVATION OF LOCKDOWN SYSTEM. FREE EGRESS AT ALL TIMES.



Hardware Group No. 14

For use on Door #(s):
 E117C

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	112HD EPT		628	IVE
2	EA	POWER TRANSFER	EPT10		⚡ 689	VON
1	EA	REMOVABLE MULLION	KRM200-102S		689	YAL
1	EA	ELEC PANIC HARDWARE	7150-B-634F-ECK1-LESS DOGGING		⚡ 630	YAL
1	EA	ELEC PANIC HARDWARE	7150-MELR-B-632F-ECK1-LESS DOGGING		⚡ 630	YAL
1	EA	MORTISE CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM		626	YAL
1	EA	RIM CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM - COORDINATE WITH OWNER		626	YAL
2	EA	OH STOP & HOLDER	100H		630	GLY
2	EA	SURFACE CLOSER	4040XP EDA		689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 (AS REQ'D)		689	LCN
2	EA	DOOR SWEEP	8192AA		AA	ZER
1	EA	THRESHOLD	655A		A	ZER
1	EA	MULLION SEAL	8780N		BK	ZER
1	EA	CARD READER	PROVIDED BY SECURITY CONTRACTOR		⚡	
2	EA	DOOR CONTACT	679-05HM		⚡ BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS - COORDINATE POWER SUPPLY REQUIREMENTS W/SECURITY PROVIDER WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		⚡	VON

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

DOORS NORMALLY CLOSED AND LOCKED VIA ACCESS CONTROL SYSTEM. PRESENTING A VALID CREDENTIAL TO THE READER WILL MOMENTARILY RETRACT THE PANIC DEVICE LATCH ALLOWING ACCESS. THE REQUEST TO EXIT FEATURE OF THE DEVICES TO SHUNT THE ALARM OUTPUT OF THE DOOR CONTACTS DURING VALID EGRESS. DOOR CONTACTS MONITOR WHETHER THE DOORS ARE OPENED, CLOSED OR HELD OPEN TOO LONG. DOORS TO REMAIN LOCKED WITH LOSS OF POWER OR ACTIVATION OF LOCKDOWN SYSTEM. FREE EGRESS AT ALL TIMES.

Hardware Group No. 15

For use on Door #(s):
 E101A

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	112HD EPT		628	IVE
2	EA	POWER TRANSFER	EPT10		⚡ 689	VON
1	EA	REMOVABLE MULLION	KRM200-102S		689	YAL
1	EA	ELEC PANIC HARDWARE	7150-MELR-B-634F-ECK1-LESS DOGGING		⚡ 630	YAL
1	EA	ELEC PANIC HARDWARE	7150-MELR-B-S-632F-ECK1-LESS DOGGING		⚡ 630	YAL
1	EA	MORTISE CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM		626	YAL
			- COORDINATE WITH OWNER			
1	EA	RIM CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM		626	YAL
			- COORDINATE WITH OWNER			
2	EA	OH STOP	100S		630	GLY
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	SURF. AUTO OPERATOR	4642 WMS		⚡ 689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 (AS REQ'D)		689	LCN
1	EA	WEATHER RING	8310-801			LCN
1	EA	RELAY/DOOR SEQUENCER	8310-845		⚡	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-853T		⚡ 630	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-855		⚡ 630	LCN
			- SHARED W/DOOR E101B			
2	EA	FLUSH MOUNT BOX	8310-867F			LCN
2	EA	DOOR SWEEP	8192AA		AA	ZER
1	EA	THRESHOLD	655A		A	ZER
1	EA	MULLION SEAL	8780N		BK	ZER
1	EA	CARD READER	PROVIDED BY SECURITY CONTRACTOR		⚡	
2	EA	DOOR CONTACT	679-05HM		⚡ BLK	SCE
1	EA	POWER SUPPLY	PS902 900-4RL		⚡	VON
			- COORDINATE POWER SUPPLY REQUIREMENTS W/SECURITY PROVIDER			
			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER			

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

DOORS NORMALLY CLOSED AND LOCKED VIA ACCESS CONTROL SYSTEM. PRESENTING A VALID CREDENTIAL TO THE READER WILL MOMENTARILY RETRACT THE PANIC DEVICE LATCH (ALLOWING ACCESS) AND ACTIVATE EXTERIOR AUTO OPERATOR ACTUATOR. PUSHING EXTERIOR AUTO OPERATOR ACTUATOR AT THIS TIME WILL SIGNAL AUTO OPERATOR TO MOMENTARILY OPEN THE DOOR. PUSH INTERIOR ACTUATOR AT ANY TIME WILL MOMENTARILY RETRACT THE PANIC DEVICE LATCH AND SIGNAL AUTO OPERATOR TO MOMENTARILY OPEN THE DOOR.











DEVICES ARE ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN FOR CERTAIN TIMES OF THE DAY VIA THE ACCESS CONTROL SYSTEM, THUS IN PUSH/PULL MODE. PUSHING EITHER AUTO OPERATOR ACTUATOR WILL SIGNAL AUTO OPERATOR TO MOMENTARILY OPEN THE DOOR.

THE REQUEST TO EXIT FEATURE OF THE DEVICES TO SHUNT THE ALARM OUTPUT OF THE DOOR CONTACTS DURING VALID EGRESS. DOOR CONTACTS MONITOR WHETHER THE DOORS ARE OPENED, CLOSED OR HELD OPEN TOO LONG. DOORS TO REMAIN LOCKED WITH LOSS OF POWER OR ACTIVATION OF LOCKDOWN SYSTEM. FREE EGRESS AT ALL TIMES.

Hardware Group No. 16

For use on Door #(s):
 E104A

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	112HD		628	IVE
1	EA	PANIC HARDWARE	7100-632F-ECK1-LESS DOGGING		630	YAL
1	EA	RIM CYLINDER	KEYED TO OWNERS YALE KEY SYSTEM - COORDINATE WITH OWNER		626	YAL
1	EA	ELECTRIC STRIKE	4850-PoE		630	TRN
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 (AS REQ'D)		689	LCN
1	EA	WALL STOP	WS406/407CVX		630	IVE
1	EA	DOOR SWEEP	8192AA		AA	ZER
1	EA	THRESHOLD	655A		A	ZER
1	EA	CARD READER	PROVIDED BY SECURITY CONTRACTOR			
1	EA	DOOR CONTACT	679-05HM		BLK	SCE
1	EA	MOTION SENSOR	SCANII WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		BLK	SCE

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

DOOR NORMALLY CLOSED AND LOCKED VIA ACCESS CONTROL SYSTEM. PRESENTING A VALID CREDENTIAL TO THE READER WILL MOMENTARILY UNLOCK THE ELECTRIC STRIKE ALLOWING ACCESS. THE MOTION SENSOR TO SHUNT THE ALARM OUTPUT OF THE DOOR CONTACT DURING VALID EGRESS. DOOR CONTACT MONITORS WHETHER THE DOOR IS OPENED, CLOSED OR HELD OPEN TOO LONG. DOOR TO REMAIN LOCKED WITH LOSS OF POWER OR ACTIVATION OF LOCKDOWN SYSTEM. FREE EGRESS AT ALL TIMES.

Hardware Group No. 17

For use on Door #(s):

E114B E115B E118B

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	112HD		628	IVE
1	EA	PANIC HARDWARE	7150-ECK1-LESS DOGGING		630	YAL
1	EA	OH STOP	100S		630	GLY
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 (AS REQ'D)		689	LCN
1	EA	DOOR SWEEP	8192AA		AA	ZER
1	EA	THRESHOLD	566A		A	ZER
1	EA	DOOR CONTACT	679-05HM		BLK	SCE
WEATHERSTRIP BY DOOR/FRAME MANUFACTURER						

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

DOOR CONTACT MONITORS WHETHER THE DOOR IS OPENED, CLOSED OR HELD OPEN TOO LONG.

Hardware Group No.18

For use on Door #(s):

E113A

Each to have:

QT		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
8	EA	HINGE	5BB1HW 5 X 4.5 NRP		652	IVE
2	EA	FIRE EXIT HARDWARE	7160F-PB628F-LBR-ECK1 - AUXILIARY FIRE LATCH (AS REQ'D)		630	YAL
2	EA	SURFACE CLOSER	4040XP RW/PA - PUSH-SIDE		689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
2	EA	FIRE/LIFE WALL MAG	SEM7850 (COORDINATE VOLTAGE AS REQ'D) - EXTENSION RODS (AS REQ'D)		689	LCN
1	EA	MEETING STILE	8217S		BK	ZER
1	EA	GASKETING	488S		BK	ZER

OPERATIONAL DESCRIPTION: COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

THE WALL MAGNETS SHALL BE WIRED TO THE FIRE ALARM PANEL THROUGH A SET OF NORMALLY-CLOSED, DRY CONTACTS (SUPPLIED BY THE FIRE ALARM CONTRACTOR).

MAGNETIC HOLD OPENS ARE CONTINUOUSLY ENERGIZED ALLOWING THE DOORS TO BE HELD OPEN UNDER NORMAL BUILDING CONDITIONS. WHEN THE FIRE ALARM IS ACTIVATED, POWER TO THE MAGNETIC HOLD OPEN IS DISCONNECTED CAUSING THE DOOR CLOSER TO CLOSE THE DOORS.

END OF SECTION

SECTION 08 71 00 - DOOR HARDWARE

(ADDENDUM 001)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding doors.
 - 3. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical door hardware.
 - 3. Automatic operators.
 - 4. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section "Hollow Metal Doors and Frames".
 - 2. Division 08 Section "Flush Wood Doors".
 - 3. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
 - 4. Division 28 Section "Access Control Hardware Devices".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. UL/ULC and CSA C22.2 - Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
 - 8. State Building Codes, Local Amendments.
- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
 - 1. ANSI/BHMA Certified Product Standards - A156 Series.
 - 2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
 - 3. ANSI/UL 294 - Access Control System Units.
 - 4. UL 305 - Panic Hardware.
 - 5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:
1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - b. Complete (risers, point-to-point) access control system block wiring diagrams.
 - c. Wiring instructions for each electronic component scheduled herein.
 2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Informational Submittals:
1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

- A. **Manufacturers Qualifications:** Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. **Certified Products:** Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. **Installer Qualifications:** A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. **Door Hardware Supplier Qualifications:** Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. **Source Limitations:** Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
 - 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- F. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.
- G. **Keying Conference:** Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.
- H. **Pre-Submittal Conference:** Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
 - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 - 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 - 3. Review sequence of operation narratives for each unique access controlled opening.
 - 4. Review and finalize construction schedule and verify availability of materials.
 - 5. Review the required inspecting, testing, commissioning, and demonstration procedures

- I. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.
- C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 1. Structural failures including excessive deflection, cracking, or breakage.
 2. Faulty operation of the hardware.
 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 4. Electrical component defects and failures within the systems operation.
- C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.
- D. Special Warranty Periods:
 1. Ten years for mortise locks and latches.
 2. Five years for exit hardware.
 3. Twenty five years for manual overhead door closer bodies.
 4. Five years for motorized electric latch retraction exit devices.
 5. Two years for electromechanical door hardware, unless noted otherwise.

1.8 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
- B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
 - 1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
- C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

- A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
 - 1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches
 - b. Three Hinges: For doors with heights 61 to 90 inches
 - c. Four Hinges: For doors with heights 91 to 120 inches
 - d. For doors with heights more than 120 inches provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches
 - 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 - 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
 - 4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.
 - 5. Manufacturers:
 - a. Ives (IV).
 - b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK).
 - c. Stanley (ST).
- B. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6060 T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
 - 1. Manufacturers:
 - a. Ives (IV).
 - b. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

2.3 POWER TRANSFER DEVICES

- A. Electrified Quick Connect Transfer Hinges: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets with a 1-year warranty. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
1. Manufacturers:
 - a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - QC (# wires) Option.
- B. Electrified Quick Connect Data Transfer Hinges: Provide combined electrified power and Ethernet data transfer hinges with Molex™ standardized plug connectors to accommodate electrified functions with a 1-year warranty as specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
1. Data transfer hinges feature two 6-position and two 4-position Molex connectors, 9 multi-strand wires; 2 twisted pairs (26 AWG), 4 straight conductors (28 gauge) and 1 straight conductor (22 AWG) with concealed plug connectors eliminating the need for separate or exposed wiring. Rated 350 mA continuous @ 48 volts DC nominal, the hinge is capable of two PoE wiring configurations:
 - a. Power over Data (5 wire): Power and Data supplied together over the 2 twisted 26 AWG pairs. The 22 AWG conductor is used for the earth ground connection.
 - b. Data with Power over Spares (9 wire): Data over 2 twisted (26 AWG) pairs with Power over spare pairs 94 straight 28 AWG conductors). The 22 Awg conductor is used for earth ground connection.
 2. Manufacturers:
 - a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - PoE Series.
- C. Concealed Quick Connect Electric Data Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified access control door hardware. Furnish with Molex™ or RJ-45 standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
1. Manufacturers:
 - a. Securitron (SU) - CEPT-C5E Series.
- D. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.
1. Manufacturers:
 - a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - QC-C Series.
 - b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - PoE Series.
 - c. No Substitution.

2.4 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
5. Manufacturers:
 - a. Ives (IV).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
- B. Coordinators: ANSI/BHMA A156.3 certified door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.
 1. Manufacturers:
 - a. Ives (IV).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
- C. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
 1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
 4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.
 5. Manufacturers:
 - a. Ives (IV).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
 - c. Trimco (TR).

2.5 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
- B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.
- C. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
 1. Threaded mortise cylinders with rings and cams to suit hardware application.
 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
 4. Tubular deadlocks and other auxiliary locks.
 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 6. Keyway: Manufacturer's Standard.
- D. Keying System: Match existing Yale Key System.

- E. Keying System: Each type of lock and cylinders to be factory keyed.
 - 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 - 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 - 3. Existing System: Key locks to existing Yale system as directed by the Owner.
- F. Key Quantity: Provide the following minimum number of keys:
 - 1. Change Keys per Cylinder: Two (2)
 - 2. Master Keys (per Master Key Level/Group): Five (5).
 - 3. Construction Keys (where required): Ten (10).
 - 4. Construction Control Keys (where required): Two (2).
 - 5. Permanent Control Keys (where required): Two (2).
- G. Key Registration List (Bitting List):
 - 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 - 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 MECHANICAL LOCKS AND LATCHING DEVICES

- A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.
 - 1. Where specified, provide status indicators with highly reflective color and wording for "locked/unlocked" or "vacant/occupied" with custom wording options if required. Indicator to be located above the cylinder with the inside thumb-turn not blocking the visibility of the indicator status. Indicator window size to be a minimum of 2.1" x 0.6" with a curved design allowing a 180 degree viewing angle with protective covering to prevent tampering.
 - 2. Manufacturers:
 - a. Yale (YA) – 8800FL Series.
 - b. No Substitution.
- B. Cylindrical Locks. ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed.
 - 1. Locks shall meet or exceed the requirements of ANSI/BHMA A156.2 Series 4000, Grade 1 with all standard trims, as follows:
 - a. Cycle Test: ANSI/BHMA A156.2 Grade 1 requirements with no lever sag.
 - b. Abusive Locked Lever Torque: Exceed 3,100 in-lb with no entry; lock to maintain egress functionality in compliance with BHMA certification requirements.
 - c. Offset Lever Pull: Exceed 1,600 lbs with no entry (8 times ANSI/BHMA A156.2 requirements).
 - d. Latch Retraction with Preload: Exceed 100 lb preload while maintaining ANSI/BHMA requirements for operation in warped doors (2 times ANSI/BHMA A156.2 requirements).
 - 2. Vertical Impact: Exceed 100 vertical impacts (20 times ANSI/BHMA A156.2 requirements).
 - 3. Furnish with solid cast levers, standard 2 3/4" backset, and 1/2" (3/4" at rated paired openings) throw brass or stainless steel latchbolt.
 - 4. Locks are to be non-handed and fully field reversible.
 - 5. Manufacturers:
 - a. Yale (YA) – 5400LN Series

- b. No Substitution.

2.7 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
 - 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 - 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 - 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
 - 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
 - 1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 - 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 - 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 - 4. Dustproof Strikes: BHMA A156.16.

2.8 ELECTRIC STRIKES

- A. Surface Mounted Rim Electric Strikes: Surface mounted rim exit device electric strikes tested to ANSI/BHMA A156.31, Grade 1, and UL Listed for both Burglary Resistance and for use on fire rated door assemblies. Construction includes internally mounted solenoid with two heavy-duty, stainless steel locking mechanisms operating independently to provide tamper resistance. Strikes tested for a minimum of 500,000 operating cycles. Provide strikes with 12 or 24 VDC capability supplied standard as fail-secure unless otherwise specified. Option available for latchbolt and latchbolt strike monitoring indicating both the position of the latchbolt and locked condition of the strike. Strike requires no cutting to the jamb prior to installation.
 - 1. Manufacturers:
 - a. HES (HS) - 9400/9500/9600/9700/9800 Series.
- B. Provide electric strikes with in-line power controller and surge suppressor by the same manufacturer as the strike with the combined products having a five year warranty.

2.9 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
 - 1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
 - 2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 - 3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 - 4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.

5. Flush End Caps: Provide flush end caps made of architectural metal in the same finish as the devices as in the Hardware Sets. Plastic end caps will not be acceptable.
 6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
 7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
 8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
 9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
 10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
 11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.
1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.
 - b. Yale (YA) – 7000 Series.
 - c. As indicated in hardware sets.

2.10 DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
 2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
1. Manufacturers:

- a. LCN Closers (LC) - 4040 Series.
- b. No Substitution.

2.11 SURFACE MOUNTED CLOSER HOLDERS

A. Electromagnetic Door Holders: Certified ANSI A156.15 electromagnetic door holder/releases with a minimum 20 to 40 pounds holding power and single coil construction able to accommodate 12VDC, 24VAC, 24VDC and 120VAC. Coils to be independently wound, employing an integral fuse and armatures to include a positive release button.

1. Manufacturers:
 - a. LCN Door Closers (LC) - SEM7800 Series.
 - b. Rixson (RF) - 980/990 Series.

2.12 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, 050-inch thick.
5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:
 - a. Ives (IV).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

2.13 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:
 - a. Ives (IV).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:
 - a. Rixson Door Controls (RF).
 - b. Glynn Johnson (GL).

2.14 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 - 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 - 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 - 1. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
 - 2. Zero (ZE).
 - 3. National Guard Products (NG).

2.15 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.16 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.



3.7 DEMONSTRATION

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
 - 1. Quantities listed are for each pair of doors, or for each single door.
 - 2. The supplier is responsible for handing and sizing all products.
 - 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 - 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Refer to Section 08 06 71, Door Hardware Sets, for hardware sets.
- C. Manufacturer's Abbreviations:
 - 1. MK – McKinney
 - 2. PE – Pemko
 - 3. SU – Securitron
 - 4. RO – Rockwood
 - 5. RU - Corbin Russwin
 - 6. OT – Other
 - 7. YA - Yale
 - 8. HS – HES
 - 9. RF – Rixson
 - 10. SG – Securitech Group

PART 4 - DOOR HARDWARE SETS

Set: 1.0

Doors: A122B, B104B

2	Continuous Hinge	CFM-SLF-HD1		PE	087100	
1	Removable Mullion	KRM200		YA	087100	
2	Rim Exit Device, Exit Only	7150 ECK1 Less Dogging	630	YA	087100	
1	Mortise Cylinder	Keyed to Owner's Yale Key System	626	YA	087100	
2	Conc Overhead Stop	1-x36	630	RF	087100	
2	Surface Closer	4040XP EDA	689	LC	087100	
1	Threshold	2001AT MSES25SS		PE	087100	
1	Weatherstrip	Integral to door/frame assembly		OT	08 4113	
2	Sweep	345ANB TKSP		PE	087100	
2	Door Position Switch	DPS-M	BK	SU	087100	

Notes:

Exit Only. Free egress at all times.
 Door position switches monitors door open/closed/propped.

Set: 2.0

Doors: B103A

2	Continuous Hinge	CFM-HD1		PE	087100	
1	Removable Mullion	KRM200		YA	087100	
1	Rim Exit Device, Exit Only	7150 ECK1 Less Dogging	630	YA	087100	
1	Rim Exit Device, Nightlatch	7150 632F ECK1 Less Dogging	630	YA	087100	
1	Rim Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Mortise Cylinder	Keyed to Owner's Yale Key System	626	YA	087100	
2	Conc Overhead Stop	1-x36	630	RF	087100	
2	Surface Closer	4040XP EDA	689	LC	087100	
2	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1	Threshold	2001AT MSES25SS		PE	087100	
1	Gasketing	S88BL		PE	087100	
1	Astragal	S772C		PE	087100	
2	Sweep	345ANB TKSP		PE	087100	

Notes:

Exit Only. Free egress at all times.
 Door position switches monitors door open/closed/propped.

Set: 3.0

Doors: A117A, A138A

1	Continuous Hinge	CFM-SLF-HD1		PE	087100	
1	Fixed Aluminum Mullion	Provided with section 084113		OT	084113	
1	Rim Exit Device, Nightlatch	7150 632F ECK1 Less Dogging	630	YA	087100	
1	Rim Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Electric Strike	9700	630	HS	087100	⚡
1	SMART Pac Bridge Rectifier	2005M3		HS	087100	⚡
1	Conc Overhead Stop	1-x36	630	RF	087100	
1	Surface Closer	4040XP EDA	689	LC	087100	
1	Threshold	2001AT MSES25SS		PE	087100	
1	Weatherstrip	Integral to door/frame assembly		OT	08 4113	
1	Sweep	345ANB TKSP		PE	087100	
1	ElectroLynx Harness	QC-C1500P (electric strike to J-Box)		MK	087100	⚡
1	Door Position Switch	DPS-M	BK	SU	087100	⚡
1	Motion Sensor	Provided by Security Contractor		OT	281300	⚡

1 Card Reader Provided by Security Contractor OT 281300 ⚡

Notes:

Door normally closed and locked. Presenting valid credential to the reader momentarily releases strike allowing access. Motion sensor to shunt door monitoring upon egress.
 Free egress at all times.
 Fail-secure.

Set: 4.0

Doors: A117B, A120A, A133B, A134B, A138B

1	Continuous Hinge	CFM-SLF-HD1		PE	087100	
1	Rim Exit Device, Exit Only	7150 ECK1 Less Dogging	630	YA	087100	
1	Conc Overhead Stop	1-x36	630	RF	087100	
1	Surface Closer	4040XP EDA	689	LC	087100	
1	Threshold	2001AT MSES25SS		PE	087100	
1	Weatherstrip	Integral to door/frame assembly		OT	08 4113	
1	Sweep	345ANB TKSP		PE	087100	
1	Door Position Switch	DPS-M	BK	SU	087100	⚡

Notes:

Exit only. No outside operation.
 Free egress at all times.

Set: 4.1

Doors: A201A

1	Continuous Hinge	CFM-SLF-HD1		PE	087100	
1	Storeroom Lock	PB5405LN	626	YA	087100	
1	Surface Closer	4040XP EDA	689	LC	087100	
1	Wall Stop	406	US32D	RO	087100	
1	Threshold	2001AT MSES25SS		PE	087100	
1	Weatherstrip	Integral to door/frame assembly		OT	08 4113	
1	Sweep	345ANB TKSP		PE	087100	
1	Door Position Switch	DPS-M	BK	SU	087100	

⚡

Notes:

Key side on mechanical mezzanine. Free ingress at all times.

Set: 5.0

Doors: A139A

6	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
2	Electric Power Transfer	CEPT-C5E	630	SU	087100	⚡
1	Removable Mullion	908BKM		RU	087100	
1	IN220 Rim Exit	ED5200AN B PR9133ET-IN220	630	RU	281500	⚡
		B BIPS				
1	IN220 Rim Exit	ED5200AN B PR9134ET-IN220	630	RU	281500	⚡



		B BIPS				
1	Mortise Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Rim Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Surface Closer	4040XP EDA	689	LC	087100	
1	Surface Closer	4040XP SCUSH	689	LC	087100	
2	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1	Wall Stop	406	US32D	RO	087100	
1	Gasketing	S88BL		PE	087100	
1	Astragal	S772C		PE	087100	
1	ElectroLynx Harness	PoE-C1500P (power transfer to J-Box)		MK	087100	⚡
1	ElectroLynx Harness	PoE-C (power transfer to lock)		MK	087100	⚡

Notes:

Doors can be locked / unlocked on schedule
 Presentation of valid credential at card reader unlocks electric lever allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 6.0

Doors: A122A

6	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
1	Electric Power Transfer	CEPT-C5E	630	SU	087100	⚡
1	Removable Mullion	908BKM		RU	087100	
1	IN220 Rim Exit	ED5200AN B PR9133ET-IN220	630	RU	281500	⚡
		B BIPS				
1	Rim Exit, Exit Only	ED5200A	630	RU	281500	⚡
1	Mortise Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Rim Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Surface Closer	4040XP EDA	689	LC	087100	
1	Surface Closer	4040XP SCUSH	689	LC	087100	
2	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1	Wall Stop	406	US32D	RO	087100	
1	Gasketing	S88BL		PE	087100	
1	Astragal	S772C		PE	087100	
1	ElectroLynx Harness	PoE-C1500P (power transfer to J-Box)		MK	087100	⚡
1	ElectroLynx Harness	PoE-C (power transfer to lock)		MK	087100	⚡

Notes:

Doors can be locked / unlocked on schedule
 Presentation of valid credential at card reader unlocks electric lever allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 7.0

Doors: A139B



3	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
1	Electric Power Transfer	CEPT-C5E	630	SU	087100	⚡
1	IN220 Rim Exit	ED5200AN B PR9134ET-IN220	630	RU	281500	⚡
		B BIPS				
1	Rim Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Surface Closer	4040XP SCUSH	689	LC	087100	
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1	Gasketing	S88BL		PE	087100	
1	Astragal	S772C		PE	087100	
1	ElectroLynx Harness	PoE-C1500P (power transfer to J-Box)		MK	087100	⚡
1	ElectroLynx Harness	PoE-C (power transfer to lock)		MK	087100	⚡

Notes:

Doors can be locked / unlocked on schedule
 Presentation of valid credential at card reader unlocks electric lever allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 8.0

Doors: A133A, A134A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
1	Electric Power Transfer	CEPT-C5E	630	SU	087100	⚡
1	IN220 Rim Exit	ED5200AN B PR9134ET-IN220	630	RU	281500	⚡
		B BIPS				
1	Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Surface Closer	4040XP RW/PA	689	LC	087100	
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1	Electromagnetic Holder	994M	689	RF	087100	⚡
1	Gasketing	S88BL		PE	087100	
1	ElectroLynx Harness	PoE-C1500P (power transfer to J-Box)		MK	087100	⚡
1	ElectroLynx Harness	PoE-C (power transfer to lock)		MK	087100	⚡

Notes:

Doors can be held open on door / wall mounted magnetic hold open devices.
 Magnetic hold open devices to release at activation of fire alarm and lock down systems.
 Door normally closed and locked.
 Presentation of valid credential at card reader unlocks electric lock allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 9.0

Doors: C109A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
1	Electric Power Transfer	TSB-C		SU	087100	⚡



1	IN220 Rim Exit	ED5200AN B PR9134ET IN220 B BIPS	630	RU	281500	⚡
1	Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Surface Closer	4040XP RW/PA	689	LG	087100	
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1	Electromagnetic Holder	994M	689	RF	087100	⚡
1	Gasketing	S88BL		PE	087100	
1	ElectroLynx Harness	PoE-C1500P (power transfer to J-Box)		MK	087100	⚡
1	ElectroLynx Harness	PoE-C (power transfer to lock)		MK	087100	⚡

Notes:

Existing frame to remain. Field verify hinge preps.
 Doors can be held open on door / wall mounted magnetic hold open devices.
 Magnetic hold open devices to release at activation of fire alarm and lock down systems.
 Door normally closed and locked.
 Presentation of valid credential at card reader unlocks electric lock allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 10.0

Doors: A126A, A127A, A128A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
1	Electric Power Transfer	CEPT-C5E	630	SU	087100	⚡
1	Access Control Lock	CL33134 PZD IN220 B BIPS LC	626	RU	281500	⚡
1	Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Surface Closer	4040XP RW/PA	689	LC	087100	
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1	Electromagnetic Holder	994M	689	RF	087100	⚡
1	Gasketing	S88BL		PE	087100	
1	ElectroLynx Harness	PoE-C1500P (power transfer to J-Box)		MK	087100	⚡
1	ElectroLynx Harness	PoE-C (power transfer to lock)		MK	087100	⚡

Notes:

Doors can be held open on door / wall mounted magnetic hold open devices.
 Magnetic hold open devices to release at activation of fire alarm and lock down systems.
 Door normally closed and locked.
 Presentation of valid credential at card reader unlocks electric lock allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 10.1

Doors: C112A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
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1	Electric Power Transfer	TSB-C	630	SU	087100	
						⚡
1	Access Control Lock	CL33134 PZD IN220 B BIPS LC	626	RU	281500	
						⚡
1	Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Surface Closer	4040XP RW/PA	689	LC	087100	
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1	Electromagnetic Holder	994M	689	RF	087100	
						⚡
1	Gasketing	S773BL		PE	087100	
1	Gasketing	S44BL		PE	087100	
1	Automatic Door Bottom	DPB411AE		PE	087100	
1	ElectroLynx Harness	PoE-C1500P (power transfer to J-Box)		MK	087100	
						⚡
1	ElectroLynx Harness	PoE-C (power transfer to lock)		MK	087100	
						⚡

Notes:

Existing frame to remain. Field verify hinge preps.
 Doors can be held open on door / wall mounted magnetic hold open devices.
 Magnetic hold open devices to release at activation of fire alarm and lock down systems.
 Door normally closed and locked.
 Presentation of valid credential at card reader unlocks electric lock allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 11.0

Doors: A113A, A114A, A115A, A123A, A124A, A125A, A135A, A137A, A141A, A143A, A143B, D105A, D106A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
1	Electric Power Transfer	CEPT-C5E	630	SU	087100	⚡
1	Access Control Lock	CL33134 PZD IN220 B BIPS LC	626	RU	281500	⚡
1	Cylinder	Match Owner's Yale Key System	626	YA	087100	
1	Surface Closer	4040XP RW/PA	689	LC	087100	
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1	Gasketing	S88BL		PE	087100	
1	ElectroLynx Harness	PoE-C1500P (power transfer to J-Box)	MK	087100	⚡	
1	ElectroLynx Harness	PoE-C (power transfer to lock)		MK	087100	⚡

Notes:

Door normally closed and locked.
 Presentation of valid credential at card reader unlocks electric lock allowing ingress.
 Free egress at all times.
 Fail-secure.
 Gasketing not required at 141A.

Set: 12.0

Doors: A116A, D101A

6	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
2	Concealed Vertical Rod, Classroom	7160F 626F LBR ECK	630	YA	087100	
2	Rim Cylinder	Match Owner's Yale Key System	626	YA	087100	
2	Surface Closer	4040XP RW/PA	689	LC	087100	
2	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
2	Electromagnetic Holder	994M	689	RF	087100	⚡
1	Gasketing	S88BL		PE	087100	
1	Astragal	S772C		PE	087100	

Notes:

Doors to be normally held open on door / wall mounted magnetic hold open devices.
 Magnetic hold open devices to release at activation of fire alarm.
 Classroom function lever trim when doors are closed. Lock/unlock with key
 Free egress at all times.

Set: 13.0

Doors: A129A

6	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
2	Concealed Vertical Rod, Passage	7160F 628F LBR ECK	630	YA	087100	
2	Surface Closer	4040XP RW/PA	689	LC	087100	
2	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
2	Electromagnetic Holder	994M	689	RF	087100	⚡
1	Gasketing	S88BL		PE	087100	
1	Astragal	S772C		PE	087100	

Notes:

Doors to be normally held open on door / wall mounted magnetic hold open devices.
 Magnetic hold open devices to release at activation of fire alarm.
 Passage lever function when doors are closed.
 Free egress at all times.

Set: 14.0

Doors: A129B

6	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
2	Concealed Vertical Rod, EO	7160F LBR ECK	630	YA	087100	
2	Surface Closer	4040XP RW/PA	689	LC	087100	
2	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
2	Electromagnetic Holder	994M	689	RF	087100	⚡
1	Gasketing	S88BL		PE	087100	
1	Astragal	S772C		PE	087100	

Notes:



Doors to be normally held open on door / wall mounted magnetic hold open devices.
 Magnetic hold open devices to release at activation of fire alarm.
 Free egress at all times.

Set: 15.0

Doors: A119B, A131A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100
1	Storeroom Lock	PB5405LN	626	YA	087100
1	Surface Closer	4040XP RW/PA	689	LC	087100
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1	Wall Stop	406	US32D	RO	087100
1	Gasketing	S88BL		PE	087100

Set: 16.0

Doors: A119A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100
1	Office Lock	PB5404LN	626	YA	087100
1	Wall Stop	406	US32D	RO	087100

Set: 17.0

Doors: C105A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100
1	Classroom Lock	PB5408LN	626	YA	087100
1	Wall Stop	406	US32D	RO	087100

Set: 18.0

Doors: A132A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100
1	Classroom Lock	PB5408LN	626	YA	087100
1	Concealed OH Stop	1-x36	689	RF	087100

Set: 19.0

Doors: A121A

6	Hinge (heavy weight)	T4A3786	US26D	MK	087100
1	Flush Bolt	2845 / 2945	US26D	RO	087100
1	Dust Proof Strike	570	US26D	RO	087100
1	Classroom Lock	PB5408LN	626	YA	087100
1	Coordinator	2672	US28	RO	087100
1	Filler Bar	FB-1 / FB-2	US28	RO	087100
1	Surface Closer	4040XP EDA	689	LC	087100
1	Surface Closer	4040XP SCUSH	689	LC	087100



2	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1	Wall Stop	406	US32D	RO	087100
1	Gasketing	S88BL		PE	087100
1	Astragal	S772C		PE	087100

Set: 20.0

Doors: A140A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100
1	Keyed Privacy Lock	PBR8840FL V21	626	YA	087100
1	Surface Closer	4040XP RW/PA	689	LC	087100
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1	Wall Stop	406	US32D	RO	087100
1	Gasketing	S88BL		PE	087100

Notes: Outside lever always locked. Key retracts latchbolt.
 Deadbolt operated by key outside or thumbturn inside and controls Vacant/ Occupied indicator.
 Anti-panic operation. Operating inside lever retracts latchbolt and deadbolt simultaneously.

Set: 21.0

Doors: A118A, A130A, A136A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100
1	Privacy Lock	PBR8802FL V21	626	YA	087100
1	Surface Closer	4040XP RW/PA	689	LC	087100
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1	Wall Stop	406	US32D	RO	087100
1	Gasketing	S88BL		PE	087100

Set: 22.0

Doors: A112A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100	}
1	Multi-Point Lock	47PL33	626	SG	087100	
1	Roller Latch	590	626	RO	087100	
1	Concealed OH Stop	1-x36	689	RF	087100	
1	Gasketing	379CPK		PE	087100	
1	Door Bottom	434APKL		PE	087100	
1	Threshold	175A		PE	087100	

Notes: Three-point latching. Depress lever to project bolts. Releasing lever retracts all bolts. Roller latch at top is to hold door in closed position and prevent drifting when not in use.

END OF SECTION