ADDENDUM NO. 01

June 3, 2022

Franklin Township – New Elementary
5120 Senour Rd.
Indianapolis, IN, 46239

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated May 11, 2022, by Schmidt Associates. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1 - 1 through ADD 1 – 4, Specification Sections 00 31 00-Indiana Bid Form Revised, 00 43 50 – Sub and Products, and attached Schmidt Associates Addendum 1 dated May 31, 2022, consisting of 5 pages and Specification Sections 11 51 23 Library Stack Systems, Updated Specification Sections 10 11 00 Visual Display Units, 10 14 00 Signage, 10 21 23 Cubicle Curtains and Tracks. Addendum Drawings S1AF, S1BF, S1CF, S1DF, S2AF, S2BF, S2CF, S3AR, S3BR, S3CR, S3DR, S-010, S-011, S-402, S-501, S-502, S-503, S-504, S-505, S-506, S-507, S-508, S-700, IN1B2, I-601, AF1B1, AF1D1, AF1A2, AF1C2, AF1D2, AC1A1, AC1B1, AR101, A-302, A-510, A-511, A-512, MH1A1, MH1A2, MH1B1, MH1B2, MH1C1, MH1C2, MH1D1, MH1D2, MP1A1, MP1A2, MP1B1, MP1B2, MP1C1, MP1C2, MP1D1, MP1D2, MR101, M-402, M-504, M-501, M-603, PF1B1, PP1B1, P-601, P-913, ES101, ES102, EL1B1, EL1A2, EL1C2, EP1A1, EP1B1, EP1C1, EP1D1, EP1A2, EP1B2, EP1C2, EP1D2, E-402, E-403, ER101, E-601, E-605, E-606, E-607, E-608, E-609, E-610, E-611, E-613, T-001, TF1A1, TF1A2, TF1B1, TF1B2, and T-501

GENERAL NOTE

Bid Opening Date & Time Change
2:00 PM (local time), June 16, 2022
Franklin Township Community School Corporation – Board Room
6141 S. Franklin Road,
Indianapolis, IN 46259

A. **SPECIFICATION SECTION 00 31 00 BID FORM**

1. Reissued Specification Section is attached herein.

B. **SPECIFICATION SECTION 00 43 50 SUBCONTRACTORS AND PRODUCTS LISTS**

1. Reissued Specification Section is attached herein.

C. **SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY**

1. Paragraph 3.03 Bid Categories

N. BID CATEGORY NO. **13** – ELECTRICAL & TECHNOLOGY
Update Bid Category to reflect "BID CATEGORY NO. **14** – ELECTRICAL & TECHNOLOGY".

Delete the following specification section:
27 13 00 Communications Backbone Cabling
27 15 13 Communications Copper Horizontal Cabling

Add the following clarifications:
6. Communications Backbone Cabling will be Owner provided.
7. Communications Copper Horizontal Cabling will be Owner provided.
8. Provide lighting circuit with junction box and 6' long light fixture whip for all fixtures indicated in Alternate NO. 12 as part of the base bid.
9. Provide pricing to furnish and install Fixture Types L1, L1S, L2, L3, L3S, L4, L4S, L5, L5S, L6, L6S, X1C1, X1W1, X1W2 and X2C1 per the manufacturers specified on Drawing E605 for Bid Alternate No. 12.

O. BID CATEGORY NO. 15 – LIGHTING

Section	26 51 19	LED Interior Lighting
Section	26 52 13	Emergency and Exit Lighting

Add the following clarifications:
1. There is NO BASE BID WORK for Bid Category 15; Bid Category No. 15 shall be bid via Bid Alternate No. 12 ONLY.

2. Bid Category No. 15 is the equivalent of Bid Alternate No. 12 using Energy Harness fixtures. Energy Harness shall furnish and install fixture types L1, L1S, L2, L3, L3S, L4, L4S, L5, L5S, L6, L6S, X1C1, X1W1, X1W2 and X2C1. Work shall include supporting fixtures to the structure and final terminations. Match the fixture counts indicated in the bid documents and lumen output to provide the lighting levels in each type of room.

3. Bid Category No. 14 Contractor shall provide lighting circuit with junction box and 6' long light fixture whip for all fixtures indicated in the bid documents.

D. **SPECIFICATION SECTION 01 23 00 – BID ALTERNATES**

Paragraph 1.04 SCHEDULE OF ALTERNATES

Add the following Alternates:

G. ALTERNATE NO. 7 – CONDENSING BOILERS

Base Bid: No Condensing Boilers.

Alternate 07A: Provide cost to furnish and install KN-Series Boilers (B-1, B-2, AND B-3) by Advanced Thermal Hydronics as indicated in the Bid Document.

Alternate 07B: Provide cost to furnish and install Fulton Boiler Works, Inc. Boilers (B-1, B-2, AND B-3) as indicated in the Bid Documents.

H. ALTERNATE NO. 8 – AIR HANDLING UNITS

Base Bid: No Air Handling Units.

Alternate 08A: Provide cost to furnish and install Trane Air Handling Units (AHU-1, AHU-2, AHU-3, AND AHU-4) as indicated in the Bid Documents.

Alternate 08B: Provide cost to furnish and install Daikin Air Handling Units (AHU-1, AHU-2, AHU-3, AND AHU-4) as indicated in the Bid Documents.

I. ALTERNATE NO. 9 – ROOF TOP UNIT

Base Bid: No Roof Top Unit.

Alternate 09A: Provide cost to furnish and install Trane Roof Top Unit (RTU-1) as indicated in the Bid Documents.

Alternate 09B: Provide cost to furnish and install Daikin Roof Top Unit (RTU-1) indicated in the Bid Documents.

J. ALTERNATE NO. 10 – CHILLER

Base Bid: No Chiller.

Alternate 10A: Provide cost to furnish and install Trane Chiller (CH-1) as indicated in the Bid Documents.

Alternate 10B: Provide cost to furnish and install Daikin Chiller (CH-1) as indicated in the Bid Documents.

Alternate 10C: Provide cost to furnish and install Carrier Chiller (CH-1) as indicated in the Bid Documents.

K. ALTERNATE NO. 11 – VERTICAL UNIT VENTILATORS

Base Bid: No Vertical Unit Ventilators.

Alternate 10A: Provide cost to furnish and install Temspec Vertical Unit Ventilators as indicated in the Bid Documents.

Alternate 10B: Provide cost to furnish and install Change Air Vertical Unit Ventilators as indicated in the Bid Documents.

L. ALTERNATE NO. 12 – LIGHT FIXTURES

Base Bid: No Work.

Alternate: Provide fixture types L1, L1S, L2, L3, L3S, L4, L4S, L5, L5S, L6, L6S, X1C1, X1W1, X1W2 and X2C1. Work shall include support to structure and final terminations of these light fixtures using the specified manufacturers as indicated on Drawing E605.

CONTRACTOR'S BID FOR PUBLIC WORKS FORM NO. 96

Format (Revised 2013)
(Amended for FTCSC)

Franklin Township New Elementary

(Franklin Township Community School Corporation
(Marion County, Indiana)

PART I

(To be completed for all bids. Please type or print)

Date (month, day, year):_____

BIDDER (Firm) _____

Address _____ P.O. Box _____

City/State/Zip _____

Telephone Number: _____ Email Address: _____

Person to contact regarding this Bid_____

Pursuant to notices given, the undersigned offers to furnish labor and/or materials necessary to complete the public works project of:

_____
Insert Category No. (s) and Name(s)

Of public works project, ***Franklin Township – New Elementary School***, in accordance with Plans and Specifications prepared by ***Schmidt Associates, 415 Massachusetts Avenue, Indianapolis, IN 46204***, as follows:

BASE BID

For the sum of _____
(Sum in words)

_____DOLLARS ($_____)
(Sum in figures)

The undersigned acknowledges receipt of the following Addenda:
Receipt of Addenda No. (s) _____

PROPOSAL TIME

Bidder agrees that this Bid shall remain in force for a period of sixty (60) consecutive calendar days from the due date, and Bids may be accepted or rejected during this period. Bids not accepted within said sixty (60) consecutive calendar days shall be deemed rejected.

Attended pre-bid conference YES _____ NO_____

Has visited the jobsite YES _____ NO_____

The Bidder has reviewed the Guideline Schedule in Section 01 32 00 and the intent
Of the schedule can be met. YES _____ NO_____

Bidder has included their Written Drug Testing Plan that covers all employees of the bidder who will perform work on the public work project and meets or exceeds the requirements set in IC 4-13-18-5 or IC 4-13-18-6. YES _____ NO_____

The Skillman Corporation's diversity initiative is to create a program to encourage, assist and measure the active participation of Minority- Owned, Women-Owned, Veteran – Owned and Disabled Individual-Owned Businesses. The Program is to ensure that MWVDBEs are provided full and equal opportunity to participate in all Skillman Corporation's Projects.

Bidder has included:
DBE: YES _____% NO _____
MBE: YES _____% NO _____
WBE: YES _____% NO _____
VBE: YES _____% NO _____

The undersigned further agrees to furnish a bond or certified check with this Bid for an amount specified in the Notice to Bidders. If Alternate Bids apply, submit a proposal for each in accordance with the Plans and Specifications.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the governmental unit. If the bid is to be awarded on a unit bases, the itemization of the units shall be shown on a separate attachment.

The contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS
(if applicable)

I, the undersigned bidder, or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ALTERNATE BIDS

A blank entry or an entry of "No Bid", "N/A", or similar entry on any Alternate will cause the bid to be rejected as non-responsive only if that Alternate is selected. If no change in the bid amount is required, indicate "No Change".

****MARK "ADD" OR "DEDUCT" FOR EACH ALTERNATE****

Alternate Bid No. 1 – Ballistic Resistant Film – Limited Scope

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

Alternate Bid No. 2 – Ballistic Resistant Film – Extended Scope

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

Alternate Bid No. 3 – Additional Parking Lot

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

Alternate Bid No. 4 – Accel/Deccel Lane on Senour Road

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

Alternate Bid No. 5 – Additional Poured-In-Place Safety Surface

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 6 – Pedestrian Pathway Lighting

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 7a – Provide cost to furnish and install KN-Series Boilers (B-1, B-2, AND B-3) by Advanced Thermal Hydronics as indicated in the Bid Document.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 7b – Provide cost to furnish and install Fulton Boiler Works, Inc. Boilers (B-1, B-2, AND B-3) as indicated in the Bid Documents.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 8a – Provide cost to furnish and install Trane Air Handling Units (AHU-1, AHU-2, AHU-3, AND AHU-4) as indicated in the Bid Documents.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 8b – Provide cost to furnish and install Daikin Air Handling Units (AHU-1, AHU-2, AHU-3, AND AHU-4) as indicated in the Bid Documents.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 9a – Provide cost to furnish and install Trane Roof Top Unit (RTU-1) as indicated in the Bid Documents.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 9b – Provide cost to furnish and install Daikin Roof Top Unit (RTU-1) as indicated in the Bid Documents.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 10a – Provide cost to furnish and install Trane Chiller (CH-1) as indicated in the Bid Documents.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 10b – Provide cost to furnish and install Daikin Chiller (CH-1) as indicated in the Bid Documents.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 10c – Provide cost to furnish and install Carrier Chiller (CH-1) as indicated in the Bid Documents.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 11a – Provide cost to furnish and install Temspec Vertical Unit Ventilators as indicated in the Bid Documents.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

Alternate Bid No. 11b – Provide cost to furnish and install Change Air Vertical Unit Ventilators as indicated in the Bid Documents.

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

Alternate Bid No. 12 – Lighting

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

PART II

(For projects of $150,000 or more – IC 36-1-12-4)

These statements to be submitted under oath by each bidder with and as a part of his bid. (Attach additional pages for each section as needed.)

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

2. What public works projects are now in process of construction by your organization?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you?_____If so, where and why?

_____

_____

_____

4. List references from private firms for which you have performed work.

_____

_____

_____

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed Work. (Examples could include a narrative of when you could begin, complete the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)

2. Please list the names and addresses of all subcontractors (i.e. persons or firms outside your own firm who have performed part of the work) that you have used on public works projects during the past five (5) years along with a brief description of the work done by each subcontractor.

3. If you intend to sublet any portion of the work, state the name and addresses of each subcontractor, equipment to be used by the subcontractor, and whether you will required a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify the governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.

4. What equipment do you have available to use for the proposed Project? Any equipment used by subcontractors may also be required to be listed by the governmental unit.

5. Have you into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which corroborate the process listed.

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

Attachment of Bidder's financial statement is mandatory. Any Bid submitted without said financial statement as required by statute shall thereby be rendered invalid. The financial statement provided hereunder to the governing body awarding the Contract must be specific enough in detail so that said governing body can make a proper determination of the Bidder's capability for completing the Project if awarded.

SECTION IV CONTRACTOR NON-COLLUSION AFFIDAVIT

The undersigned Bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this Bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporations has, have, or will receive directly or indirectly, any rebate, fee, gift, commission, or thing of value on account of such contract.

SECTION V OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID FOR PUBLIC WORKS ARE TRUE AND CORRECT

Dated at _____this _____ day of _____, 20

_____
(Name of Organization)

By
_____

_____
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)
) SS:
COUNTY OF _____)

Before me, a Notary Public, personally appeared the above-named
_____

Swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to before me this _____ day of _____,
_____
(Title)

_____
Notary Public

My Commission Expires: _____

County of Residence: _____

END OF SECTION 00 31 00

SECTION 00 43 50 - SUBCONTRACTORS AND PRODUCTS LIST

PART 1 - GENERAL

1.01 DESCRIPTION

A. The two (2) low responsive Bidders in each Bid Category shall furnish electronically, the following Subcontractors and Products List to the Construction Manager within **two (2) working days (48 hrs.)** of bid opening, unless submitted with Bid. . The blanks appropriate to the Bid Category(ies) on which they bid shall be completed.

1. The Owner and Architect shall have the right to select any material or equipment named in the Specifications for any particular item where the Bidder either fails to list same or lists more than one name for the item in question.
2. It is intended that this list will show the manufacturer and supplier of major items of work that will be subcontracted and to whom.

1.02 INSTRUCTIONS FOR SUBCONTRACTORS AND PRODUCTS LISTS

A. Each Bidder shall submit a copy of his list of subcontractors and manufacturers of products and equipment proposed for work indicated as required above.

B. The list shall be submitted on forms provided and shall be completely executed. "As Specified" or "With Equipment" type of terminology will not be accepted.

C. Under "Subcontractor", insert the name of the firm which the Bidder proposes to have perform the respective work. If work will be done by the Prime Bidder and no subcontract will be awarded, state "By Own Forces".

D. Submission does not constitute acceptance for use of listed manufacturers' products. Materials and subcontractors are subject to the provisions of the General Conditions and "Standard of Product Acceptability" and must be formally reviewed and adjudged acceptable by the Architect/Engineer.

E. Engineer, Architect and Owner reserve the right to reject submissions of materials, work, or subcontractors that do not, in their opinion, meet the requirements of Drawings, Specifications or job conditions.

F. Materials and subcontractors used for work on the Project shall be in accordance with accepted material list.

1. The list is intended to assure use of materials and vendors acceptably equivalent to those specified and is not a substitution sheet or complete listing of required materials or services.

2. Substitutions for listed items will not be allowed, except when termed acceptable, in writing by the Architect/Engineer, provided that substitution will result in a cost savings to the Owner , determined by the Owner to be a better product, or is made necessary due to unavailability of listed item. Unavailability shall be confirmed in writing by manufacturer named on accepted list.

1.03 CIVIL AND ARCHITECTURAL WORK SUBCONTRACTORS AND PRODUCTS LIST

BID CATEGORY NO._____

(Insert Category No. and Name)

NAME OF BIDDER_____

The undersigned hereby submits the following Subcontractors and Products List which becomes a part of the undersigned Contract proposal. Subcontractor purchased material, equipment, and labor shall be under the direct management and control of the Prime Contractor. If a dual listing of manufacturers and subcontractors is herein made, it is understood the Architect/Engineer (not the Contractor) will select the manufacturer or subcontractor of his choice. State the XBE Designation.

CIVIL AND ARCHITECTURAL WORK

Section	Description	XBE	Subcontractor	Manufacturer
03 30 00	Cast-In-Place Concrete			
04 20 00	Unit Masonry			
05 12 00	Structural Steel Framing			
05 21 00	Steel Joist Framing			
05 31 00	Steel Decking			
05 40 00	Cold-Formed Metal Framing			
05 50 00	Metal Fabrications			
05 51 00	Metal Stairs			
05 52 13	Pipe and Tube Railings			
05 73 00	Decorative Metal Railings			

Section	Description	XBE	Subcontractor	Manufacturer
06 10 53	Miscellaneous Rough Carpentry			
06 16 00	Sheathing			
06 40 23	Interior Architectural Woodwork			
07 17 00	Bentonite Waterproofing			
07 21 00	Thermal Insulation			
07 24 13.99	Direct-Applied Exterior Finish Systems (DEFS)			
07 41 13.16	Standing-Seam Metal Roof Panels			
07 54 23	Thermoplastic Polyolefin (TPO) Roofing			
07 71 00	Roof Specialties			
07 72 00	Roof Accessories			
07 72 53	Snow Guards			
07 84 13	Penetration Firestopping			
07 84 46	Fire-Resistive Joint Systems			
07 92 00	Joint Sealants			
07 95 00	Expansion Control			
08 11 13	Hollow Metal Doors and Frames			
08 14 16	Flush Wood Doors			
08 31 13	Access Doors and Frames			
08 41 13	Aluminum-Framed Entrances and Storefronts			

Section	Description	XBE	Subcontractor	Manufacturer
08 41 26	All-Glass Entrances and Storefronts			
08 71 00	Door Hardware			
08 80 00	Glazing			
08 87 23	Safety and Security Window Laminates			
08 90 00	Louvers and Vents			
09 22 16	Non-Structural Metal Framing			
09 29 00	Gypsum Board			
09 30 00	Tiling			
09 51 13	Acoustical Panel Ceilings			
09 64 66	Wood Athletic Flooring			
09 65 13	Resilient Base and Accessories			
09 65 16	Resilient Sheet Flooring			
09 65 19	Resilient Tile Flooring			
09 67 23.13	Resinous Flooring - Level 1			
09 67 23.17	Resinous Flooring - Level 3			
09 68 13	Tile Carpeting			
09 91 23.99	Interior Painting			
09 96 00.99	High Performance Coatings			
10 11 00	Visual Display Units			
10 14 00	Signage			
10 21 13.17	Phenolic-Core Toilet Compartments			

Section	Description	XBE	Subcontractor	Manufacturer
10 21 23	Cubicle Curtains and Track			
10 22 39.13	Folding Glass-Panel Partitions			
10 26 00	Wall and Door Protection			
10 28 00	Toilet, Bath, And Laundry Accessories			
10 44 13	Fire Extinguisher Cabinets			
10 51 13	Metal Lockers			
10 75 00	Flagpoles			
10 81 13	Bird Control Devices			
11 40 00	Foodservice Equipment			
11 61 43	Stage Curtains			
11 66 23	Gymnasium Equipment			
11 66 43.99	Interior Scoreboards			
11 68 00	Play Field Equipment and Structures			
12 00 50.99	C: Cafeteria Furniture & Equipment			
12 24 13	Roller Window Shades			
12 32 00	Manufactured Wood Casework			
12 36 61.16	Solid Surfacing Countertops			
12 66 00	Telescoping Stands			
12 93 00	Site Furnishings			
14 24 00	Hydraulic Elevators			
14 42 00	Wheelchair Lifts			

Section	Description	XBE	Subcontractor	Manufacturer
31 10 00	Site Clearing			
31 20 00	Earth Moving			
32 12 16	Asphalt Paving			
32 13 13	Concrete Paving			
32 13 73	Concrete Paving Joint Sealants			
32 18 16.13	Playground Protective Surfacing			
32 31 13	Chain Link Fences and Gates			
32 31 19	Decorative Metal Fences and Gates			
32 92 00	Turf and Grasses			
32 93 00	Plants			
33 41 00	Storm Utility Drainage Piping			
33 44 19.15	Stormwater Hydrodynamic Grit Separator			

Name of Bidder:	Date:
Address:	
City/State/Zip:	
Telephone:	
By:	

1.04 MECHANICAL WORK SUBCONTRACTORS AND PRODUCTS LIST

BID CATEGORY NO._____
(Insert Category No. and Name)

NAME OF BIDDER_____

The undersigned hereby submits the following Subcontractors and Products List which becomes a part of the undersigned Contract proposal. Subcontractor purchased material, equipment, and labor shall be under the direct management and control of the Prime Contractor. If dual listing of manufacturers or subcontractors is herein made, it is understood the Architect/Engineer (not the Contractor) will select the manufacturer or subcontractor of his choice.

MECHANICAL WORK

Section	Description	XBE	Subcontractor	Manufacturer
21 05 17	Sleeves and Sleeve Seals for Fire-Suppression Piping			
21 05 18	Escutcheons for Fire-Suppression Piping			
21 05 23	General-Duty Valves for Water-Based Fire-Suppression Piping			
21 13 13	Wet-Pipe Sprinkler Systems			
22 05 17	Sleeves and Sleeve Seals for Plumbing Piping			
22 05 18	Escutcheons for Plumbing Piping			
22 05 19	Meters and Gages for Plumbing Piping			
22 05 23.12	Ball Valves for Plumbing Piping			
22 05 23.14	Check Valves for Plumbing Piping			

Section	Description	XBE	Subcontractor	Manufacturer
22 05 23.15	Gate Valves for Plumbing Piping			
22 05 29	Hangers and Supports for Plumbing Piping and Equipment			
22 05 53	Identification for Plumbing Piping and Equipment			
22 07 19	Plumbing Piping Insulation			
22 11 13	Facility Water Distribution Piping (Site)			
22 11 16	Domestic Water Piping (Building)			
22 11 19	Domestic Water Piping Specialties			
22 11 23.99	Plumbing Pumps			
22 13 13	Facility Sanitary Sewers (Site)			
22 13 16	Sanitary Waste, Storm, And Vent Piping (Building)			
22 13 19	Sanitary Waste Piping Specialties			
22 14 23	Storm Drainage Piping Specialties			
22 34 00	Fuel-Fired, Domestic-Water Heaters			
22 41 00	Residential Plumbing Fixtures			
22 42 13.13	Commercial Water Closets			
22 42 13.16	Commercial Urinals			

Section	Description	XBE	Subcontractor	Manufacturer
22 42 16.13	Commercial Lavatories			
22 42 16.16	Commercial Sinks			
22 47 16	Pressure Water Coolers			
23 05 00	Common Work Results for HVAC			
23 05 13	Common Motor Requirements for HVAC Equipment			
23 05 16	Expansion Fittings and Loops for HVAC Piping			
23 05 19	Meters and Gages for HVAC Piping			
23 05 23	General-Duty Valves for HVAC Piping			
23 05 29	Hangers and Supports for HVAC Piping and Equipment			
23 05 53	Identification for HVAC Piping and Equipment			
23 05 93	Testing, Adjusting, And Balancing for HVAC			
23 07 13	Duct Insulation			
23 07 16	HVAC Equipment Insulation			
23 07 19	HVAC Piping Insulation			
23 09 00.99	Direct Digital Control Systems			
23 11 23	Facility Natural-Gas Piping System			
23 21 13	Hydronic Piping			

Section	Description	XBE	Subcontractor	Manufacturer
23 21 16	Hydronic Piping Specialties			
23 21 23	Hydronic Pumps			
23 23 00	Refrigerant Piping			
23 25 00	HVAC Water Treatment			
23 25 13	Water Treatment for Closed-Loop Hydronic Systems			
23 31 13	Metal Ducts			
23 33 00	Air Duct Accessories			
23 34 33	HVAC Power Ventilators			
23 36 00	Air Terminal Units			
23 37 13.99	Diffusers, Registers, and Grilles			
23 37 16.99	Fabric Air-Distribution Devices			
23 37 23	HVAC Gravity Ventilators			
23 52 16	Condensing Boilers			
23 62 00.99	Air-Cooled Condensing Units			
23 64 26.21	Air-Cooled, Rotary-Screw Water Chillers			
23 73 23.99	VAV Custom Air Handling Units			
23 81 26	Split-System Air-Conditioners			
23 82 19	Fan Coil Units			
23 82 23.98	Vertical Unit Ventilators			
23 82 39	Unit Heaters			

Section	Description	XBE	Subcontractor	Manufacturer
23 82 39.16	Propeller Unit Heaters			
23 82 39.19	Wall and Ceiling Unit Heaters			

Plumbing Fixtures:	Manufacturer:
a) _____	_____
b) _____	_____
c) _____	_____
d) _____	_____
e) _____	_____
f) _____	_____
g) _____	_____
h) _____	_____
i) _____	_____
j) _____	_____
k) _____	_____
l) _____	_____

Name of Bidder:	Date:
Address:	
City/State/Zip:	
Telephone:	
By:	

1.05 ELECTRICAL WORK SUBCONTRACTORS AND PRODUCTS LIST

BID CATEGORY NO._____
(Insert Category No. and Name)

NAME OF BIDDER_____

The undersigned hereby submits the following Subcontractors and Products List which becomes a part of the undersigned Contract proposal. Subcontractor purchased material, equipment, and labor shall be under the direct management and control of the Prime Contractor. If dual listing of manufacturers or subcontractors is herein made, it is understood the Architect/Engineer (not the Contractor) will select the manufacturer or subcontractor of his choice.

ELECTRICAL WORK

Section	Description	XBE	Subcontractor	Manufacturer
26 05 00	Common Work Results for Electrical			
26 05 19	Low-Voltage Electrical Power Conductors and Cables			
26 05 26	Grounding and Bonding for Electrical Systems			
26 05 29	Hangers and Supports for Electrical Systems			
26 05 33	Raceways and Boxes for Electrical Systems			
26 05 43	Underground Ducts and Raceways for Electrical Systems			
26 05 44	Sleeves and Sleeve Seals for Electrical Raceways and Cabling			
26 05 53	Identification for Electrical Systems			
26 05 74.99	Short-Circuit/ Coordination Study/Arc Flash Risk Assessment			

Section	Description	XBE	Subcontractor	Manufacturer
26 09 23	Lighting Control Devices			
26 22 13	Low-Voltage Distribution Transformers			
26 24 13	Switchboards			
26 24 16	Panelboards			
26 25 50.99	Generator Docking Station			
26 27 26	Wiring Devices			
26 28 13	Fuses			
26 28 16	Enclosed Switches and Circuit Breakers			
26 29 13	Enclosed Controllers			
26 29 23	Variable-Frequency Motor Controllers			
26 32 13.16	Gaseous Emergency Engine Generators			
26 36 00	Transfer Switches			
26 43 13	Surge Protection for Low-Voltage Electrical Power Circuits			
27 05 28	Pathways for Communications Systems			
27 05 36	Cable Trays for Communications Systems			
27 11 00	Communications Equipment Room Fittings			
27 17 00.99	Telecommunications Grounding and Bonding			

Section	Description	XBE	Subcontractor	Manufacturer
27 17 50.99	Communications Entrance Conduits			
27 51 20.99	Sound Reinforcement System (Gymnasium)			
27 51 23.99	Intercommunications System			
27 52 24.99	Cafetorium Sound System			
27 77 10.99	Audio/Video Systems			
28 13 00.99	Electronic Access Control System (ACS)			
28 46 21	Addressable Fire-Alarm Systems			

Name of Bidder:	Date:
Address:	
City/State/Zip:	
Telephone:	
By:	

END OF SECTION 00 43 50

ADDENDUM NO. 1
MAY 31, 2022

PREPARED BY SCHMIDT ASSOCIATES FOR:
FRANKLIN TOWNSHIP NEW ELEMENTARY SCHOOL
FRANKLIN TOWNSHIP COMMUNITY SCHOOL CORPORATION

This Addendum consists of 5 Addendum pages and 117 attachment pages totaling 122 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

A. **Section 064023 "INTERIOR ARCHITECTURAL WOODWORK"**

1. DELETE AND REPLACE Article 2.3 as follows:
"2.3 CUSTOM RECEPTION DESKS
A. Provide custom reception desks as indicated on Drawings. Provide accessories, finishing, and hardware as indicated on Drawings and specified in this Section and Section 12 32 00.
1. Plastic Laminate Patterns and Colors:
a. PL-1: Wilsonart; Natural Cotton 4946-38.
b. PL-2: Wilsonart; Pewter Mesh 4878-38.
c. PL-3: Formica; Citadel Warp 5882-58."

2. ADD Paragraph 2.5.C. as follows:
"C. Wood Wall Panels: Basis-of-Design product Vertical Grain Arabica by Stikwood. Provide manufacturers standard trim at outside corners matching wood grain and color."

2.2 DIVISION 08 – OPENINGS

A. **Section 088000 "GLAZING"**

1. ADD Article 2.9 as follows:
"2.9 WINDOW FILM (WF)
A. Window Film: Perforated vinyl window film with printed graphic and one-way visibility.
1. Basis-of-design: Subject to compliance provide ImageVue by MDC Wallcovering.
a. Perforation Pattern: Approximately 65/35 (35 percent open).
b. Perforation Size: 0.06 inch.
c. Film Material: 8-mil calendered PVC.
d. Roll Size: 54 inches by 25 feet.
e. Graphic: Stock image of clouds provided by MDC Wallcovering and approved by Architect."

2.3 DIVISION 09 – FINISHES

A. **Section 096723.17 "RESINOUS FLOORING – LEVEL 3"**

1. DELETE Subparagraph 1.2.B.2. in its entirety.

2. DELETE & REPLACE Paragraph 2.3.G. as follows.
"G. Resinous Flooring - Flake System.
1. Body Coats (Flakes):
a. Product: Bioflake.
b. Resin: Moisture Insensitive Cementitious Urethane.
c. Formulation Description: Water-based Cementitious Urethane.
d. Type: Pigmented.
e. Application Method: Self-leveling slurry with broadcast aggregates.
f. Number of Coats: One (flakes).
g. Total Thickness of Coats: 1/4 inch.
h. Aggregates: Flakes.
i. Color: To be selected from manufacturers full range of standard colors.
1) RSF-1/2 & RSFB-1/2: Pyrite."

B. **Section 099123.99** "**INTERIOR PAINTING**"

1. DELETE Article 2.3 in its entirety.

2. DELETE Article 2.4 in its entirety.

2.4 DIVISION 10 – SPECIALTIES

A. **Section 101100 "VISUAL DISPLAY UNITS"**

1. DELETE AND REPLACE Section 101100 per the attached.

B. **Section 101400 "SIGNAGE"**

1. DELETE AND REPLACE Section 101400 per the attached.

C. **Section 102123 "CUBICLE CURTAINS AND TRACK"**

1. DELETE AND REPLACE Section 102123 per the attached.

2.5 DIVISION 11 – EQUIPMENT

A. **Section 115123 "LIBRARY STACK SYSTEMS"**

1. ADD Section 115123 per the attached.

2.6 DIVISION 27 – COMMUNICATIONS

A. **Section 271300 "COMMUNICATIONS BACKBONE CABLING"**

1. DELETE Section 171300 in its entirety.

"Owner's contractor providing cabling"

B. **Section 271513** "**COMMUNICATIONS COPPER HORIZONTAL CABLING**"

1. DELETE Section 171513 in its entirety.

"Owner's contractor providing cabling"

PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain un-changed.

3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

DRAWING NO.	INDICATE ACTION: REPLACE (R), ADD (A), DELETE (D)
S-SERIES DRAWINGS	
S**1AF**	DELETE AND REPLACE
S**1BF**	DELETE AND REPLACE
S**1CF**	DELETE AND REPLACE
S**1DF**	DELETE AND REPLACE
S2AF	DELETE AND REPLACE
S**2BF**	DELETE AND REPLACE
S**2CF**	DELETE AND REPLACE
S**3AR**	DELETE AND REPLACE
S**3BR**	DELETE AND REPLACE
S**3CR**	DELETE AND REPLACE
S3DR	DELETE AND REPLACE

S-010	DELETE AND REPLACE
S-011	DELETE AND REPLACE
S-402	DELETE AND REPLACE
S-501	DELETE AND REPLACE
S-502	DELETE AND REPLACE
S-503	DELETE AND REPLACE
S-504	DELETE AND REPLACE
S-505	DELETE AND REPLACE
S-506	DELETE AND REPLACE
S-507	DELETE AND REPLACE
S-508	DELETE AND REPLACE
S-700	DELETE AND REPLACE
A-SERIES DRAWINGS	
IN1B2	DELETE AND REPLACE
I-601	DELETE AND REPLACE
I-SERIES DRAWINGS	
AF1B1	DELETE AND REPLACE
AF1D1	DELETE AND REPLACE
AF1A2	DELETE AND REPLACE
AF1C2	DELETE AND REPLACE
AF1D2	DELETE AND REPLACE
AC1A1	DELETE AND REPLACE
AC1B1	DELETE AND REPLACE
AR101	DELETE AND REPLACE
A-302	DELETE AND REPLACE
A-510	DELETE AND REPLACE
A-511	DELETE AND REPLACE
A-512	DELETE AND REPLACE
M-SERIES DRAWINGS	
MH1A1	DELETE AND REPLACE
MH1A2	DELETE AND REPLACE
MH1B1	DELETE AND REPLACE
MH1B2	DELETE AND REPLACE
MH1C1	DELETE AND REPLACE
MH1C2	DELETE AND REPLACE
MH1D1	DELETE AND REPLACE
MH1D2	DELETE AND REPLACE
MP1A1	DELETE AND REPLACE
MP1A2	DELETE AND REPLACE
MP1B1	DELETE AND REPLACE
MP1B2	DELETE AND REPLACE
MP1C1	DELETE AND REPLACE
MP1C2	DELETE AND REPLACE
MP1D1	DELETE AND REPLACE
MP1D2	DELETE AND REPLACE
MR101	DELETE AND REPLACE
M-402	DELETE AND REPLACE

M-504	DELETE AND REPLACE
M-501	DELETE AND REPLACE
M-603	DELETE AND REPLACE
P-SERIES DRAWINGS	
PF1B1	DELETE AND REPLACE
PP1B1	DELETE AND REPLACE
P-601	DELETE AND REPLACE
P-913	DELETE AND REPLACE
E-SERIES DRAWINGS	
ES101	DELETE AND REPLACE
ES102	DELETE AND REPLACE
EL1B1	DELETE AND REPLACE
EL1A2	DELETE AND REPLACE
EL1C2	DELETE AND REPLACE
EP1A1	DELETE AND REPLACE
EP1B1	DELETE AND REPLACE
EP1C1	DELETE AND REPLACE
EP1D1	DELETE AND REPLACE
EP1A2	DELETE AND REPLACE
EP1B2	DELETE AND REPLACE
EP1C2	DELETE AND REPLACE
EP1D2	DELETE AND REPLACE
E-402	DELETE AND REPLACE
E-403	DELETE AND REPLACE
ER101	DELETE AND REPLACE
E-601	DELETE AND REPLACE
E-605	DELETE AND REPLACE
E-606	DELETE AND REPLACE
E-607	DELETE AND REPLACE
E-608	DELETE AND REPLACE
E-609	DELETE AND REPLACE
E-610	DELETE AND REPLACE
E-611	DELETE AND REPLACE
E-613	DELETE AND REPLACE
T-SERIES DRAWINGS	
T-001	DELETE AND REPLACE
TF1A1	DELETE AND REPLACE
TF1A2	DELETE AND REPLACE
TF1B1	DELETE AND REPLACE
TF1B2	DELETE AND REPLACE
T-501	DELETE AND REPLACE

END OF ADDENDUM 1

SECTION 101100 - VISUAL DISPLAY SURFACES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Markerboards.
2. Tackboards.

B. Related Sections:

1. Division 09 Section "Gypsum Board• • • " for coordination of back-blocking requirements in gypsum board walls.

1.3 DEFINITIONS

A. Tackboard: Framed or unframed, tackable, visual display board assembly.

B. Visual Display Board Assembly: Visual display surface that is factory fabricated into composite panel form, either with or without a perimeter frame; includes chalkboards, markerboards, and tackboards.

C. Visual Display Surface: Surfaces that are used to convey information visually, including surfaces of chalkboards, markerboards, tackboards, and surfacing materials that are not fabricated into composite panel form but are applied directly to walls.

1.4 ACTION SUBMITTALS

A. Product Data with Shop Drawings and Product Schedule:

1. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for visual display surfaces.

a. Include individual panel weights for sliding visual display units.

2. Shop Drawings: For visual display surfaces. Include plans, elevations, sections, details, and attachments to other work.

a. Show locations of panel joints.
b. Include sections of typical trim members.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of motor-operated, sliding visual display units required for this Project.

B. Source Limitations: Obtain visual display surfaces from single source from single manufacturer.

C. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Flame-Spread Index: 25 or less.
2. Smoke-Developed Index: 450 or less.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver factory-built visual display surfaces, including factory-applied trim where indicated, completely assembled in one piece without joints, where possible. If dimensions exceed maximum manufactured panel size, provide two or more pieces of equal length as acceptable to Architect. When overall dimensions require delivery in separate units, prefit components at the factory, disassemble for delivery, and make final joints at the site.

B. Store visual display surfaces vertically with packing materials between each unit.

1.7 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install visual display surfaces until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above ceilings is complete, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

B. Field Measurements: Verify actual dimensions of construction contiguous with visual display surfaces by field measurements before fabrication.

1. Allow for trimming and fitting where taking field measurements before fabrication might delay the Work.

1.8 WARRANTY

A. Special Warranty for Porcelain-Enamel Face Sheets: Manufacturer's standard form in which manufacturer agrees to repair or replace porcelain-enamel face sheets that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

    a. Surfaces lose original writing and erasing qualities.
    b. Surfaces exhibit crazing, cracking, or flaking.

2. Warranty Period: 50 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. Porcelain-Enamel Face Sheet: Manufacturer's standard steel sheet with porcelain-enamel coating fused to steel; uncoated thickness indicated.

1. Gloss Finish: Gloss as indicated; dry-erase markers wipe clean with dry cloth or standard eraser.

B. Polyester Fabric: Nondirectional weave, 100 percent polyester; weighing not less than 15 oz./sq. yd.; with surface-burning characteristics indicated.

C. Particleboard: ANSI A208.1, Grade M-1.

D. Fiberboard: ASTM C 208.

E. Extruded Aluminum: ASTM B 221, Alloy 6063.

2.2 MARKERBOARD ASSEMBLIES

A. Porcelain-Enamel Markerboards: Balanced, high-pressure, factory-laminated markerboard assembly of three-ply construction consisting of backing sheet, core material, and 0.021-inch-thick, porcelain-enamel face sheet with low-gloss finish.

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

    a. AARCO Products, Inc.
    b. Claridge Products and Equipment, Inc.
    c. Marsh Industries, Inc.; Visual Products Group.
2. Particleboard Core: 3/8 inch thick; with 0.015-inch- thick, aluminum sheet backing.
3. Laminating Adhesive: Manufacturer's standard, moisture-resistant thermoplastic type.

2.3 TACKBOARD ASSEMBLIES

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

1. AARCO Products, Inc.
2. Claridge Products and Equipment, Inc.
3. Marsh Industries, Inc.; Visual Products Group.

B. Polyester-Fabric-Faced Tackboard <**TB**>: 1/8-inch- thick, polyester-fabric-faced cork sheet factory laminated to 3/8-inch- thick fiberboard backing.

2.4 MARKERBOARD TACKBOARD ACCESSORIES

A. Aluminum Frames and Trim: Fabricated from not less than 0.062-inch- thick, extruded aluminum; of size and shape indicated on Drawings.

1. Factory-Applied Trim: Manufacturer's standard.

B. Chalktray: Manufacturer's standard, continuous.

C. Map Rail: Provide the following accessories:

1. Display Rail: Continuous and integral with map rail; fabricated from cork approximately 1 to 2 inches wide.
2. End Stops: Located at each end of map rail.
3. Map Hooks and Clips: Two map hooks with flexible metal clips for every 48 inches of map rail or fraction thereof.
4. Flag Holder: One for each room.
5. Paper Holder: Extruded aluminum; designed to hold paper by clamping action.

2.5 FABRICATION

A. Porcelain-Enamel Visual Display Assemblies: Laminate porcelain-enamel face sheet and backing sheet to core material under heat and pressure with manufacturer's standard flexible, waterproof adhesive.

B. Visual Display Boards: Factory Field assemble visual display boards unless otherwise indicated.

1. Where factory-applied trim is indicated, trim shall be assembled and attached to visual display boards at manufacturer's factory before shipment.

C. Factory-Assembled Visual Display Units: Coordinate factory-assembled units with trim and accessories indicated. Join parts with a neat, precision fit.

1. Make joints only where total length exceeds maximum manufactured length. Fabricate with minimum number of joints, .

a. Joints are not to be in the middle of the board assembly, create two joints when needed to avoid prime writing surface.

2. Provide manufacturer's standard vertical-joint spline system between abutting sections of markerboards.
3. Provide manufacturer's standard mullion trim at joints between markerboards tackboards of combination units.
4. Where size of visual display boards or other conditions require support in addition to normal trim, provide structural supports or modify trim as indicated or as selected by Architect from manufacturer's standard structural support accessories to suit conditions indicated.

D. Aluminum Frames and Trim: Fabricate units straight and of single lengths, keeping joints to a minimum. Miter corners to a neat, hairline closure.

1. Where factory-applied trim is indicated, trim shall be assembled and attached to visual display units at manufacturer's factory before shipment.

2.6 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.7 ALUMINUM FINISHES

A. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances, surface conditions of wall, and other conditions affecting performance of the Work.

B. Examine walls and partitions for proper preparation and backing for visual display surfaces.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Comply with manufacturer's written instructions for surface preparation.

B. Clean substrates of substances that could impair the performance of and affect the smooth, finished surfaces of visual display boards, including dirt, mold, and mildew.

C. Prepare surfaces to achieve a smooth, dry, clean surface free of flaking, unsound coatings, cracks, defects, projections, depressions, and substances that will impair bond between visual display surfaces and wall surfaces.

3.3 INSTALLATION, GENERAL

A. General: Install visual display surfaces in locations and at mounting heights indicated on Drawings, or if not indicated, at heights indicated below. Keep perimeter lines straight, level, and plumb. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim, and accessories necessary for complete installation.

3.4 INSTALLATION OF FIELD-FABRICATED VISUAL DISPLAY BOARDS AND ASSEMBLIES

A. Field-Assembled Visual Display Units: Coordinate field-assembled units with grounds, trim, and accessories indicated. Join parts with a neat, precision fit.

1. Make joints only where total length exceeds maximum manufactured length. Fabricate with minimum number of joints, balanced around center of board, as acceptable to Architect.
2. Provide manufacturer's standard vertical-joint spline system between abutting sections of markerboards.
3. Provide manufacturer's standard mullion trim at joints between markerboards tackboards of combination units.
4. Where size of visual display boards or other conditions require support in addition to normal trim, provide structural supports or modify trim as indicated or as selected by Architect from manufacturer's standard structural support accessories to suit conditions indicated.

3.5 INSTALLATION OF FACTORY-FABRICATED VISUAL DISPLAY BOARDS AND ASSEMBLIES

A. Visual Display Boards: Attach visual display boards to wall surfaces with egg-size adhesive gobs at 16 inches (400 mm) o.c., horizontally and vertically.

B. Visual Display Boards: Attach concealed clips, hangers, and grounds to wall surfaces and to visual display boards with fasteners at not more than 16 inches (400 mm) o.c. Secure both top and bottom of boards to walls.

1. Field-Applied Aluminum Trim: Attach trim over edges of visual display boards and conceal grounds and clips. Attach trim to boards with fasteners at not more than 24 inches o.c.

    a. Attach chalktrays to boards with fasteners at not more than 12 inches o.c.

3.6 CLEANING AND PROTECTION

A. Clean visual display surfaces according to manufacturer's written instructions. Attach one cleaning label to visual display surface in each room.

B. Touch up factory-applied finishes to restore damaged or soiled areas.

C. Cover and protect visual display surfaces after installation and cleaning.

END OF SECTION

SECTION 101400 - SIGNAGE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes the following:

1. Plaques.
2. Dimensional characters.
3. Panel signs.

B. Related Sections include the following:

1. Division 01 Section "Temporary Facilities and Controls" for temporary Project identification signs and for temporary information and directional signs.
2. Division 10 Section "Post and Panel/Pylon Signage" for freestanding signs.
3. Division 22 Section "Identification for Plumbing Piping and Equipment" for labels, tags, and nameplates for plumbing systems and equipment.
4. Division 23 Section "Identification for HVAC Piping and Equipment" for labels, tags, and nameplates for HVAC systems and equipment.
5. Division 26 Sections for electrical service and connections for illuminated signs.
6. Division 26 Section "Identification for Electrical Systems" for labels, tags, and nameplates for electrical equipment.
7. Division 26 Section "Interior Lighting" for illuminated Exit signs.

1.3 DEFINITIONS

A. ADA-ABA Accessibility Guidelines: U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines."

1.4 ACTION SUBMITTALS

A. Product Data, Shop Drawings and Sign Schedule:

1. Shop Drawings: Show fabrication and installation details for signs.

a. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.

b. Provide message list, typestyles, graphic elements, including tactile characters and Braille, and layout for each sign.

2. Sign Schedule: Use same designations indicated on Drawings.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

B. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.

C. Source Limitations for Signs: Obtain each sign type indicated from one source from a single manufacturer.

D. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines.

1.6 PROJECT CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit installation of signs in exterior locations to be performed according to manufacturers' written instructions and warranty requirements.

B. Field Measurements: Verify recess openings by field measurements before fabrication and indicate measurements on Shop Drawings.

1.7 COORDINATION

A. Coordinate placement of anchorage devices with templates for installing signs.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Deterioration of metal and polymer finishes beyond normal weathering.
b. Deterioration of embedded graphic image colors and sign lamination.

2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Acrylic Sheet: ASTM D 4802, Category A-1 (cell-cast sheet), Type UVA (UV absorbing).

2.2 PLAQUES

A. Permanent interior dedication plaque in building lobby or main vestibule recognizing:

1. Name of Building
2. Date of Completion
3. Owner
    a. Name of School Board Members
    b. Name of Superintendent
4. Construction Manager
5. Architect
6. Include graphic of the seal of Franklin Township Community School Corporation

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

1. Advance Corporation; Braille-Tac Division.
2. A. R. K. Ramos.
3. essential architectural signs, inc.
4. Gemini Incorporated.
5. ISF Signs
6. Matthews International Corporation; Bronze Division.
7. Metal Arts; Div. of L&H Mfg. Co.
8. Mills Manufacturing Company.
9. Nelson-Harkins Industries.
10. Sign Solutions
11. Southwell Company (The).

C. Cast Plaques: Provide castings free of pits, scale, sand holes, and other defects, as follows:

1. Size: 850 square inches.
2. Plaque Material: Aluminum Bronze.
3. Mounting: Rosettes and fasteners matching plaque finish Concealed studs for substrates encountered.

2.3 DIMENSIONAL CHARACTERS

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

1. ACE Sign Systems, Inc.
2. Advance Corporation; Braille-Tac Division.
3. A. R. K. Ramos.
4. ASI-Modulex, Inc.
5. Charleston Industries, Inc.
6. essential architectural signs, inc.
7. Gemini Incorporated.
8. Grimco, Inc.
9. ISF Signs
10. Innerface Sign Systems, Inc.
11. Metal Arts; Div. of L&H Mfg. Co.
12. Mills Manufacturing Company.
13. Mohawk Sign Systems.
14. Nelson-Harkins Industries.
15. Signature Signs, Incorporated.
16. Sign Solutions
17. Southwell Company (The).

B. Characters: Provide characters with , eased edges. Comply with the following requirements:

1. Aluminum Sheet: 0.25 inch thick.

    a. Finish: Painted.

2. Character size: As indicated on Drawings.
3. Character Finish/Color: Cast Aluminum, matte edges.
4. Thickness: As required for performance and anticipated loads. 1" minimum.
5. Font: As indicated on drawings.
6. Mounting: Projected mount with collars and threaded studs set in adhesive.

    a. Exterior: 1" (one inch)
    b. Interior: 1/2" (one half inch)

7. Location: As indicated on Drawings.
8. Quantity: As indicated on Drawings.
9. Bituminous Paint: Cold-Applied asphalt emulsion complying with ASTM D 1187.

2.4 PANEL SIGNS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

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

C. Basis-of-Design Product: Subject to compliance with requirements, provide [the product indicated on Drawings] <Insert manufacturer's name; product name or designation> or a comparable product by one of the following:

1. ACE Sign Systems, Inc.
2. Advance Corporation; Braille-Tac Division.
3. Allen Industries Architectural Signage
4. ASI-Modulex, Inc.
5. Best Sign Systems Inc.
6. Fossil Industries, Inc.
7. essential architectural signs, inc.
8. Gemini Incorporated.
9. Grimco, Inc.
10. ISF Signs
11. Innerface Sign Systems, Inc.
12. InPro Corporation
13. Matthews International Corporation; Bronze Division.
14. Mills Manufacturing Company.
15. Mohawk Sign Systems.
16. Nelson-Harkins Industries.
17. Signature Signs, Incorporated.
18. Sign Solutions

D. Interior Panel Signs: Provide smooth sign panel surfaces constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch measured diagonally from corner to corner, complying with the following requirements:

1. Edge Condition: [**Square cut**] [**Beveled**] [**Bullnose**].
2. Corner Condition: [**Square**] [**Rounded to radius indicated**].
3. Mounting: [**Framed**] [**Unframed**] [**As indicated**].

    a. Wall mounted with two-face tape.
    b. Manufacturer's standard anchors for substrates encountered.

4. Custom Paint Colors: Match [**Pantone**] <**Insert system**> color matching system.
5. Color: [**As indicated**] [**As selected by Architect from manufacturer's full range**] <**Insert color**>.
6. Tactile Characters: Characters and Grade 2 Braille raised 1/32 inch above surface with contrasting colors.

E. Brackets: Fabricate brackets and fittings for bracket-mounted signs from extruded aluminum to suit panel sign construction and mounting conditions indicated. Factory paint brackets in color [**matching background color of panel sign**] [**matching Architect's sample**] <**Insert color**>.

F. Changeable Message Inserts: Fabricate signs to allow insertion of changeable messages in the form of [**slide-in inserts**] [**transparent covers with paper inserts printed by Owner**] [**changeable panel inserts for use in fixed frames**] <**Insert description**>.

1. Furnish insert material and software for creating text and symbols for [**PC-Windows**] [**Macintosh**] computers for Owner production of paper inserts.
2. Furnish insert material cut-to-size for changeable message insert.

G. Colored Coatings for Acrylic Sheet: For copy [**and**] [**background**] [**and frame**] colors, provide colored coatings, including inks, dyes, and paints, that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and are UV and water resistant for [**three**] [**five**] years for application intended.

1. Custom Paint Colors: Match [**Pantone**] <**Insert system**> color matching system.
2. Color: [**As indicated**] [**As selected by Architect from manufacturer's full range**] <**Insert color**>.

H. Panel Sign Schedule:

1. Sign Type <**Insert designation**>:

a. Sign Size: [**As indicated**] <**Insert dimensions**>.
b. Message Panel Material: [**As indicated**] <**Insert material**>.
c. Message Panel Finish/Color: <**Insert finish/color.**>
d. Background Finish/Color: <**Insert finish/color.**>
e. Character Size: [**As indicated**] <**Insert size**>.
f. Character Finish/Color: <**Insert finish/color.**>
g. Panel Sign Frame Finish/Color: <**Insert finish/color.**>
h. Text/Message: [**As indicated**] <**Insert text/message**>.
i. Location: [**As indicated**] <**Insert designation**>.
j. Room: <**Insert designation.**>
k. Quantity: <**Insert number.**>

2.5 ACCESSORIES

A. Anchors and Inserts: Provide nonferrous-metal or hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

2.6 FABRICATION

A. General: Provide manufacturer's standard signs of configurations indicated.

1. Welded Connections: Comply with AWS standards for recommended practices in shop welding. Provide welds behind finished surfaces without distortion or discoloration of exposed side. Clean exposed welded surfaces of welding flux and dress exposed and contact surfaces.
2. Mill joints to tight, hairline fit. Form joints exposed to weather to exclude water penetration.
3. Preassemble signs in the shop to greatest extent possible. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in location not exposed to view after final assembly.
4. Conceal fasteners if possible; otherwise, locate fasteners where they will be inconspicuous.

2.7 FINISHES, GENERAL

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.8 ACRYLIC SHEET FINISHES

A. Colored Coatings for Acrylic Sheet: For copy [**and**] [**background**] [**and frame**] colors, provide colored coatings, including inks, dyes, and paints, that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and that are UV and water resistant for [**three**] [**five**] years for application intended.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.

B. Verify that itemsare sized and located to accommodate signs.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Locate signs and accessories where indicated, using mounting methods of types described and complying with manufacturer's written instructions.

1. Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.
2. Interior Wall Signs: Install signs on walls adjacent to latch side of door where applicable. Where not indicated or possible, such as double doors, install signs on nearest adjacent walls. Locate to allow approach within 3 inches of sign without encountering protruding objects or standing within swing of door.

B. Wall-Mounted Signs: Comply with sign manufacturer's written instructions except where more stringent requirements apply.

1. Two-Face Tape: Mount signs to smooth, nonporous surfaces. Do not use this method for vinyl-covered or rough surfaces.

C. Dimensional Characters: Mount characters using standard fastening methods to comply with manufacturer's written instructions for character form, type of mounting, wall construction, and condition of exposure indicated. Provide heavy paper template to establish character spacing and to locate holes for fasteners.

1. Flush Mounting: Mount characters with backs in contact with wall surface.
2. Projected Mounting: Mount characters at projection distance from wall surface indicated.

3.3 CLEANING AND PROTECTION

A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.

END OF SECTION

SECTION 102123 - CUBICLE CURTAINS AND TRACK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes the following:

1. Curtain tracks and curtain carriers.
2. Cubicle curtains.

B. Related Sections include the following:

1. Division 06 Section "Miscellaneous Rough Carpentry" for wood blocking for mounting items requiring anchorage.
2. Division 09 Section "Acoustical Panel Ceilings" for metal framing and furring for mounting items requiring anchorage.

1.3 PERFORMANCE REQUIREMENTS

A. Curtains: Provide curtain fabrics with the following characteristics:

1. Fabrics are launderable to a temperature of not less than 160 deg F 90 deg F.
2. Fabrics are flame resistant and are identical to those that have passed NFPA 701 when tested by a testing and inspecting agency acceptable to authorities having jurisdiction.

a. Identify fabrics with appropriate markings of applicable testing and inspecting agency.

1.4 ACTION SUBMITTALS

A. Product Data with Shop Drawings:

1. Shop Drawings: Show layout and types of cubicles, sizes of curtains, number of carriers, anchorage details, and conditions requiring accessories. Indicate dimensions taken from field measurements.

a. Include details on blocking above ceiling.

1.5 PROJECT CONDITIONS

A. Environmental Limitations: Do not install cubicles until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

PART 2 - PRODUCTS

2.1 CURTAIN TRACKS

A. Basis-of-Design Product: Subject to compliance with requirements, provide "Model No. 98" as manufactured by Imperial Fastener Co. or a comparable product by one of the following:

1. Coldraco, Inc.
2. Diamond Drapery Co.
3. General Cubicle Company, Inc.
4. Grant Co.
5. InPro Corporation.
6. Nelson, A. R. Co.

B. Extruded-Aluminum Track: Not less than 5/8 inch wide by 1/2 inch high; with minimum wall thickness of 0.058 inch.

1. Curved Track: Factory-fabricated, 12-inch- radius bends.
2. Finish: Clear anodized.

C. Track Accessories: Fabricate splices, end caps, connectors, end stops, coupling and joining sleeves, wall flanges, brackets, ceiling clips, and other accessories from same material and with same finish as track.

1. End Stop: Nonremovable.

D. Curtain Carriers: Two nylon rollers and nylon axle with chrome-plated steel hook.

E. Exposed Fasteners: Stainless steel.

F. Concealed Fasteners: Stainless steel.

2.2 CURTAINS (CC)

A. Cubicle Curtain Fabric: Curtain manufacturer's standard, 100 percent polyester, inherently and permanently flame resistant, stain resistant, and antimicrobial.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Architex or a comparable product by one of the following:

a. Momentum,
b. Designtex.

2. Pattern: Rx 1008.
3. Color: Tranquil.

B. Curtain Grommets: Two-piece, rolled-edge, rustproof, nickel-plated brass; spaced not more than 6 inches o.c.; machined into top hem.

C. PVC-Strip Curtain Drop: 18 inches (457 mm) long, with chrome-plated steel hook.

2.3 CURTAIN FABRICATION

A. Fabricate curtains to comply with the following requirements:

1. Width: Equal to track length from which curtain is hung plus 10 percent added fullness, but not less than 12 inches added fullness.
2. Length: Equal to floor-to-ceiling height minus 18 inches (457 mm) from finished ceiling at top, and minus distance above the finished floor at bottom as follows:

a. Cubicle Curtains: 12 inches.

3. Top Hem: Not less than 1 inch and not more than 1-1/2 inches wide, triple thickness, reinforced with integral web, and double lock stitched.
4. Bottom Hem: Not less than 1 inch and not more than 1-1/2 inches wide, triple thickness, reinforced, and double lock stitched.
5. Side Hems: Not less than 1/2 inch and not more than 1-1/4 inches wide, with triple turned edges, and single lock stitched.

B. Vertical Seams: Not less than 1/2 inch wide, double turned and double stitched.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances, and other conditions affecting performance of work.

1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General: Install tracks level and plumb, according to manufacturer's written instructions.

B. Up to 16 feet in length, provide track fabricated from 1 continuous length.

1. Curtain Track Mounting: Surface.

C. Surface Track Mounting: Fasten surface-mounted tracks at intervals of not less than 24 inches. Fasten support at each splice and tangent point of each corner. Center fasteners in track to ensure unencumbered carrier operation. Attach track to ceiling as follows:

1. Mechanically fasten directly to finished ceiling with toggle bolts.
2. Mechanically fasten to suspended ceiling grid with screws.

D. Track Accessories: Install splices, end caps, connectors, end stops, coupling and joining sleeves, and other accessories as required for a secure and operational installation.

E. Curtain Carriers: Provide curtain carriers adequate for 6-inch spacing along full length of curtain plus an additional carrier.

Curtains: Hang curtains on each curtain track.END OF SECTION

SECTION 115123 - LIBRARY STACK SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Wood-case shelving.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for library stack systems and accessories.

B. Shop Drawings:

1. Include plans, elevations, sections, and details.
2. Show clear-aisle widths from face of units.
3. Detail fabrication and installation of library stack systems, including methods of anchoring them to building structures at locations recommended by manufacturer.

C. Samples for Initial Selection: For units with factory-applied finishes, 6 inches in size.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Sample Warranty: For manufacturer's special warranty.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For library stack systems to include in maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Shelf Units: Five percent of quantity installed for each size and type indicated, but no fewer than 10 units.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.8 FIELD CONDITIONS

A. Environmental Limitations: Do not deliver or install wood shelving until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

1.9 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of library stack systems that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Deterioration of metal finishes and other materials beyond normal wear.

2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Seismic Performance: Library stack systems shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.

2.2 WOOD-CASE SHELVING

A. Wood-Case Library Shelving: Shelving designed for library use, consisting of base frame and full end, top, and back panels, with end panels made to receive pins to support adjustable shelves.

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

    a. Brodart Co; Contract Library Furniture DIvision.
    b. Liat.
    c. Worden Company.
    d. Jasper Library Furniture; DIvision of Jasper Seating Company, Inc.
    e. Russwood.

2. Bookstack Units (BS-1):

    a. Type: Fixed, Self-supporting units.
    b. Configuration: Single-faced units.
    c. Width: 36 inches.
    d. Height: 30 inches .
    e. Shelf Depth: 15 inches nominal.
    f. Shelves: Provide the following style and number of shelves:

        1) One, flat adjustable shelves.
        2) One, fixed bottom wood base shelf.

    g. Base Frames: Solid hardwood toe kick, back rail, and two end cleats, 3 to 4 inches high, designed to support bottom shelf and fabricated to attach and tie together vertical panels.
    h. Bottom Shelf: Solid hardwood boards glued together, 3/4 inch thick, or veneer panels, 1 inch thick, with 1/4-inch solid-wood banding.
    i. Adjustable Wood Shelves: Panels consisting of solid hardwood boards glued together, 3/4 inch thick, or veneer panels, 1 inch thick, with 1/4-inch solid-wood banding, and grooved on underside to rest securely on supporting pins.
    j. End Panels: Panels consisting of solid hardwood boards glued together, 3/4 inch thick, veneer-faced panels, five or nine ply, 1 inch thick, with 1/4-inch solid-wood banding. Provide two rows of holes at 1-1/4-inch intervals for 5/16-inch shelf-support pins on one side of end panels and both sides of intermediate panels.
    k. Tops: 3/4- to 1-inch- thick veneer- faced panels banded with 2- to 3-inch solid hardwood fasciae on one side for single-faced units and on two sides for double-faced units, fabricated to attach and tie together vertical panels .
    l. Divider Panels: Veneer-faced panels, 1/4 inch thick, at each double-faced unit.

3. Bookstack Units (BS-2):

    a. Type: Fixed, Self-supporting units.
    b. Configuration: Single-faced units.
    c. Width: 36 inches (914 mm).
    d. Height: 60 inches .
    e. Shelf Depth: 15 inches nominal.
    f. Shelves: Provide the following style and number of shelves:

        1) Four, flat adjustable shelves.
        2) One, fixed bottom wood base shelf.

g. Base Frames: Solid hardwood toe kick, back rail, and two end cleats, 3 to 4 inches (76 to 102 mm) high, designed to support bottom shelf and fabricated to attach and tie together vertical panels.
h. Bottom Shelf: Solid hardwood boards glued together, 3/4 inch (19 mm) thick, or veneer panels, 1 inch (25 mm) thick, with 1/4-inch (6.3-mm) solid-wood banding.
i. Adjustable Wood Shelves: Panels consisting of solid hardwood boards glued together, 3/4 inch (19 mm) thick, or veneer panels, 1 inch (25 mm) thick, with 1/4-inch (6.3-mm) solid-wood banding, and grooved on underside to rest securely on supporting pins.
j. End Panels: Panels consisting of solid hardwood boards glued together, 3/4 inch (19 mm) thick, veneer-faced panels, five or nine ply, 1 inch (25 mm) thick, with 1/4-inch (6.3-mm) solid-wood banding. Provide two rows of holes at 1-1/4-inch (32-mm) intervals for 5/16-inch (7.9-mm) shelf-support pins on one side of end panels and both sides of intermediate panels.
k. Tops: 3/4- to 1-inch- (19- to 25-mm-) thick veneer- faced panels banded with 2- to 3-inch (50- to 76-mm) solid hardwood fasciae on one side for single-faced units and on two sides for double-faced units, fabricated to attach and tie together vertical panels .

Retain "Divider Panels" Paragraph below for double-faced units.

l. Divider Panels: Veneer-faced panels, 1/4 inch (6.3 mm) thick, at each double-faced unit.

2.3 WOOD MATERIALS

A. Solid Wood: Clear hardwood lumber, selected for compatible grain and color.

1. Wood Species and Cut: Red oak, plain sliced.
2. Staining and Finish: As selected by Architect from manufacturer's full range.

B. Edgebanding: Minimum 1/8-inch- thick solid wood of same species as face veneer.

1. Colors: As selected by Architect from manufacturer's full range.

2.4 GENERAL FINISH REQUIREMENTS

A. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.5 WOOD FINISHES

A. Finishing: Apply manufacturer's standard, baked, clear finish, consisting of a sealer and a conversion varnish or nitrocellulose lacquer UV-curing resin topcoat. Sand and wipe clean between applications of sealer and topcoat.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas, with Installer present, for compliance with requirements for installation tolerances, location of framing and reinforcements, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Vacuum finished floor over which shelving is to be installed.

B. Before installing wood-case shelving , condition materials to average prevailing humidity in installation areas for a minimum of 48 hours unless longer conditioning is recommended by manufacturer.

3.3 INSTALLATION

A. Install library stack systems at locations indicated on Drawings and according to manufacturer's written instructions.

B. Enclosure Panels: Install with concealed fasteners.

C. Level and plumb bookstack units to a tolerance of 1/8 inch in 96 inches.

D. Install type of shelves at locations indicated and at spacing indicated or, if not indicated, at equal spacing in each unit.

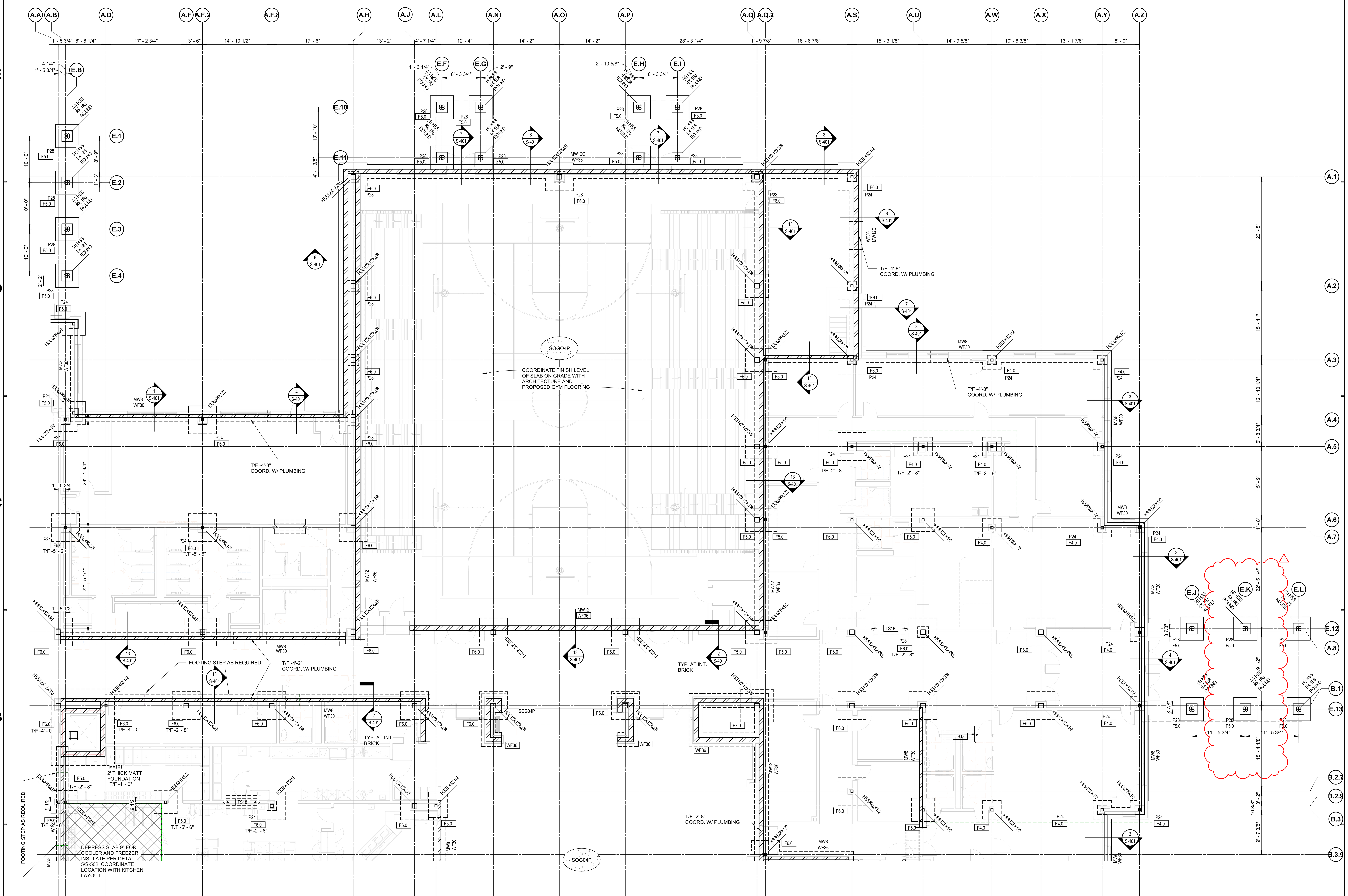
3.4 CLEANING AND PROTECTING

A. Repair or remove and replace defective work as directed on completion of installation.

B. Clean finished surfaces, touch up as required, and remove or refinish damaged or soiled areas to match original factory finish, as approved by Architect.

C. Protect installed products from damage during remainder of the construction period.

END OF SECTION



FOUNDATION PLAN - UNIT A

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

FOUNDATION PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
3. TOP OF PERIMETER FOOTING (T/F) -2'-0", UNO.
4. TOP OF INTERIOR FOOTING (T/F) -0'-8", UNO.
5. TOP OF PIER (T/P) -0'-8", UNO.
6. TOP OF ALL EXTERIOR CANOPY PIERS (T/P) -1'-4" AND TOP OF ALL EXTERIOR CANOPY FOUNDATIONS (T/F) -2'-8".

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Project No. 2021-141.NES
Project Date 05.11.2022
Produced JLL NRT

JUSTIN L. LEIBERING REGISTERED No. 11500368 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
001	Addendum 1	05.26.2022

10559 E. THOMPSON RD

KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

FOUNDATION PLAN - UNIT A

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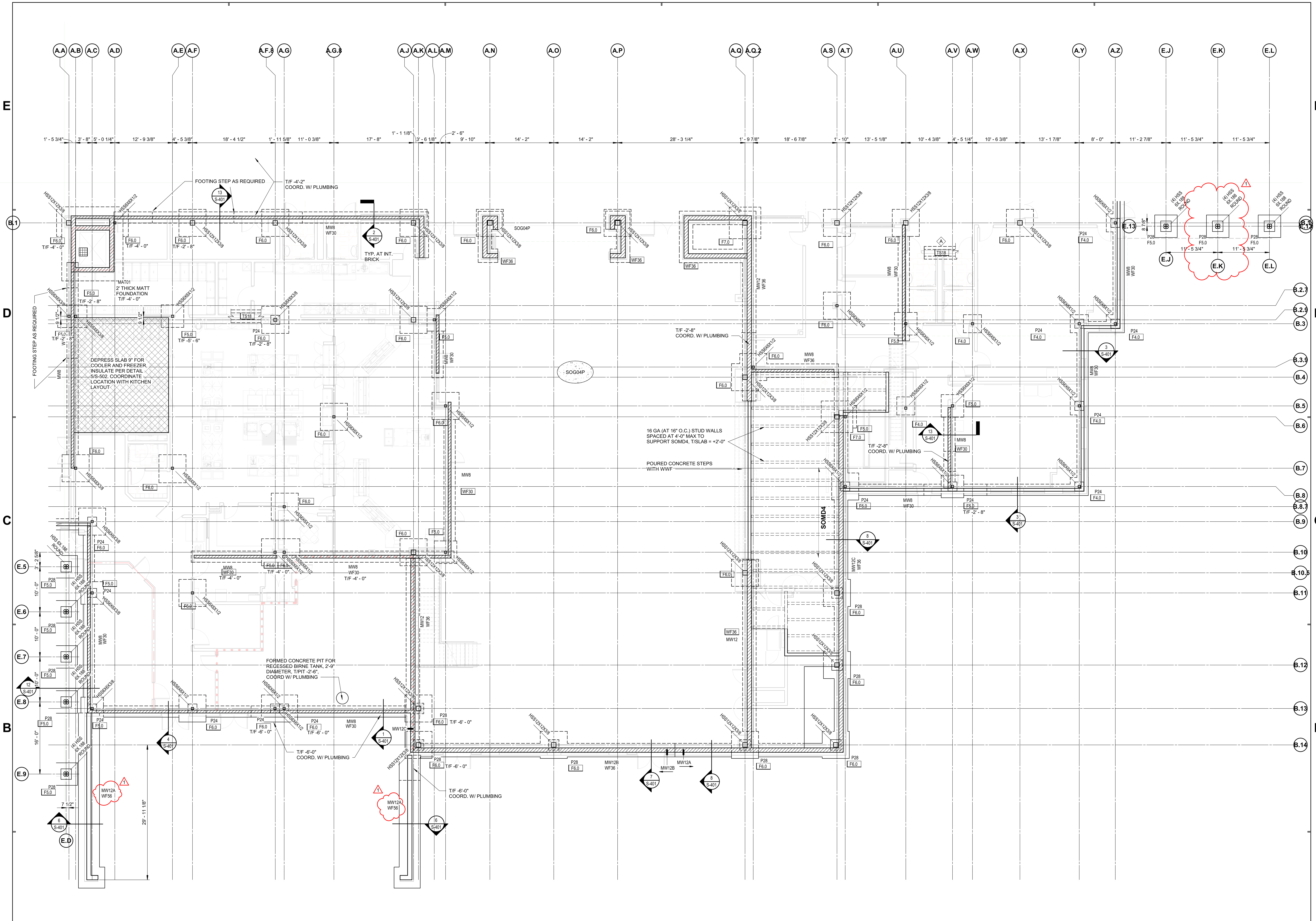

FOUNDATION PLAN - UNIT B

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

FOUNDATION PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
3. TOP OF PERIMETER FOOTING (T/F) -2'-0", UNO.
4. TOP OF INTERIOR FOOTING (T/F) -0'-8", UNO.
5. TOP OF PIER (T/P) -0'-8", UNO.
6. TOP OF ALL EXTERIOR CANOPY PIERS (T/P) -1'-4" AND TOP OF ALL EXTERIOR CANOPY FOUNDATIONS (T/F) -2'-8".

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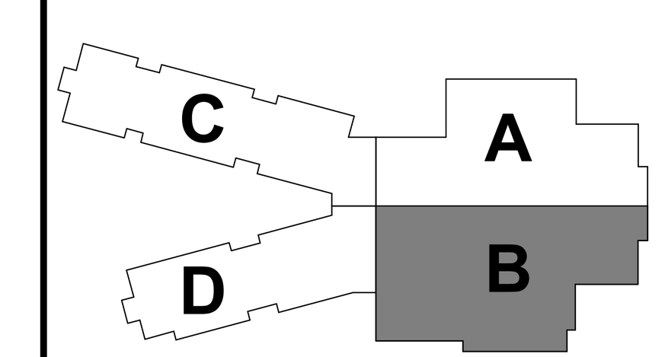


KEY PLAN

FRANKLIN TOWNSHIP CSC

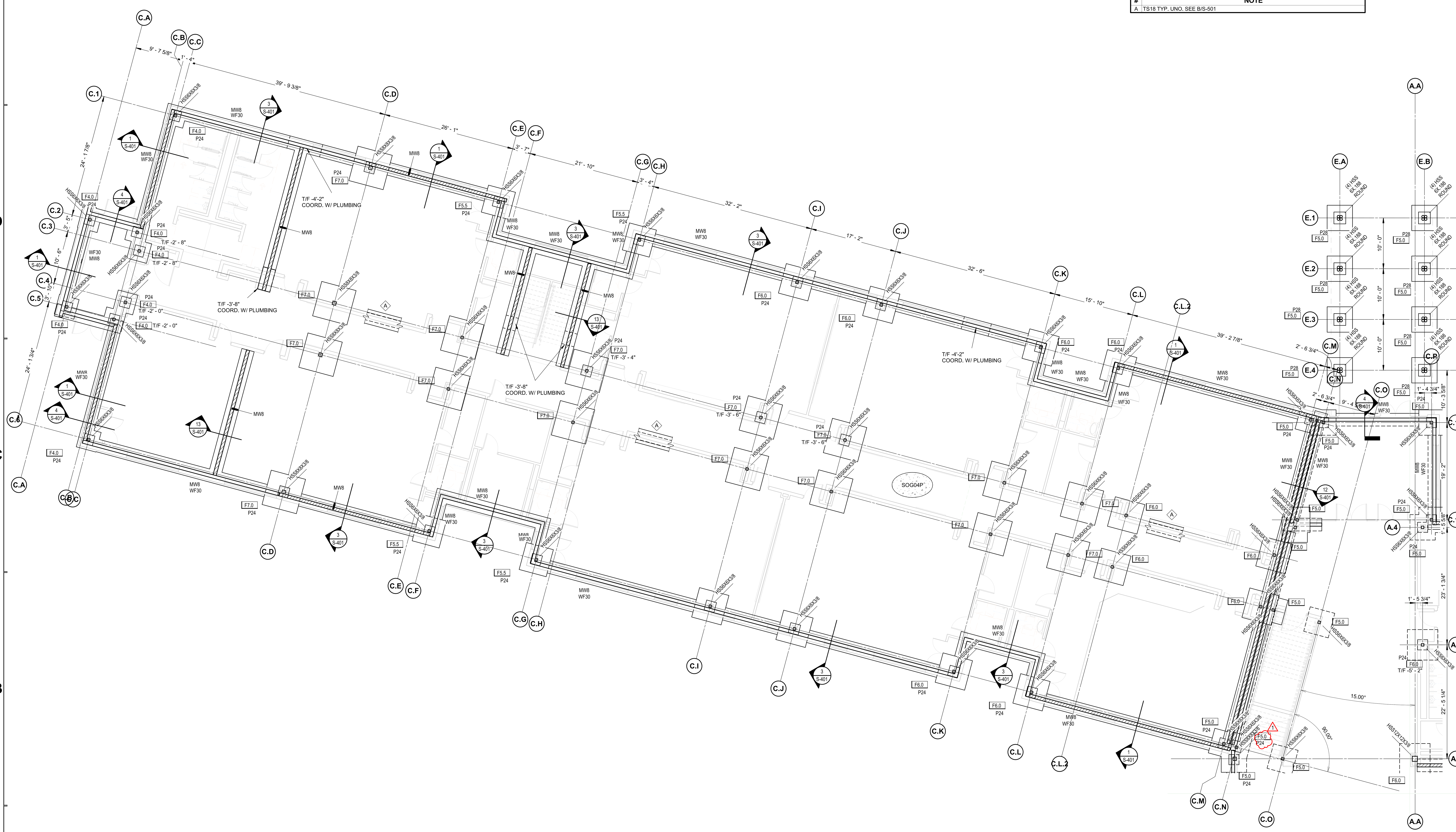
NEW ELEMENTARY SCHOOL

FOUNDATION PLAN - UNIT B

S1BF

FOUNDATION FLOOR PLAN NOTES - Unit C

#	NOTE
A	TS18 TYP. UNO. SEE B/S-501



FOUNDATION PLAN - UNIT C

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

FOUNDATION PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
3. TOP OF PERIMETER FOOTING (T/F) -2'-0", UNO.
4. TOP OF INTERIOR FOOTING (T/F) -0'-8", UNO.
5. TOP OF PIER (T/P) -0'-8", UNO.
6. TOP OF ALL EXTERIOR CANOPY PIERS (T/P) -1'-4" AND TOP OF ALL EXTERIOR CANOPY FOUNDATIONS (T/F) -2'-8".

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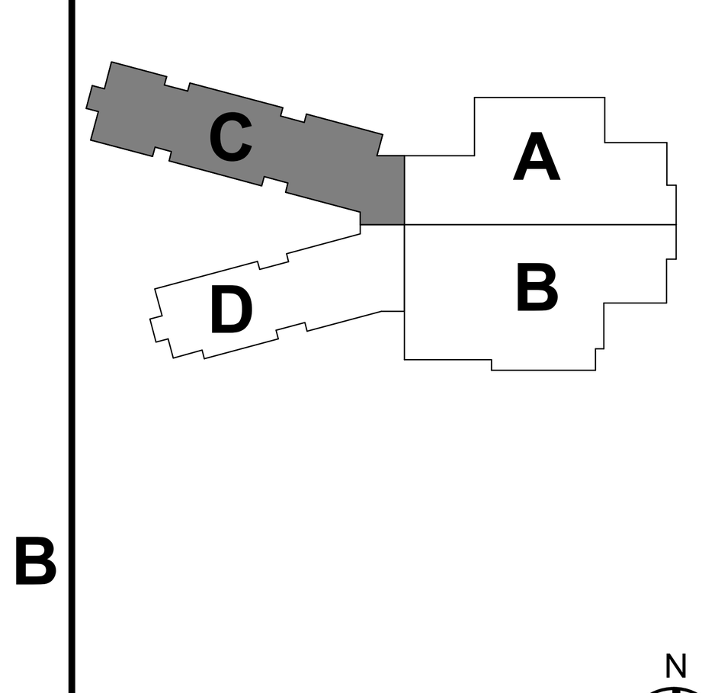
001	Addendum 1	05.26.2022

10559 E. THOMPSON RD



KEY PLAN

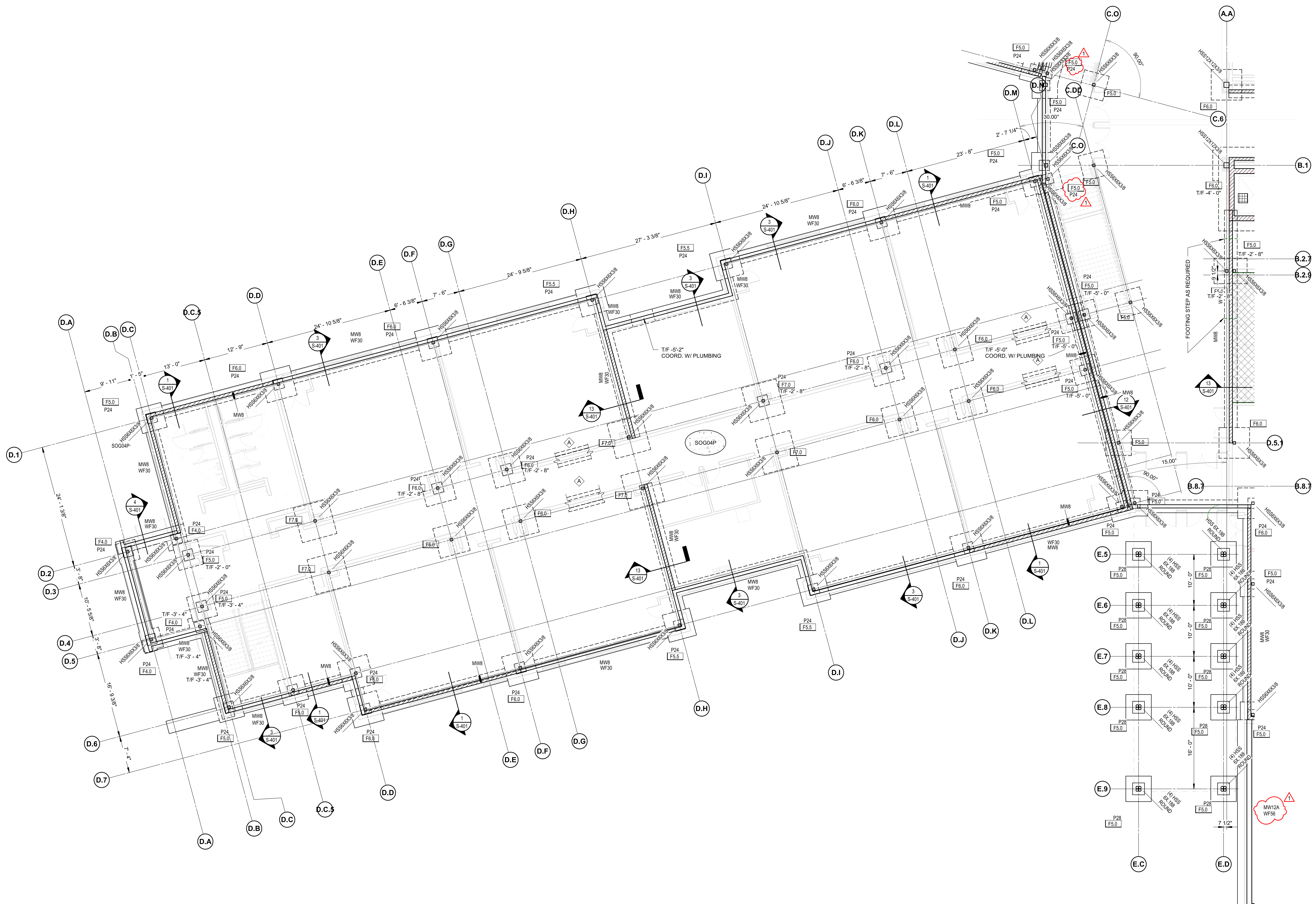
FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FOUNDATION PLAN - UNIT C

S1CF

FOUNDATION FLOOR PLAN NOTES - Unit D	
#	NOTE
A	TS18 TYP. UNO. SEE B/S-501



FOUNDATION PLAN - UNIT D

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

FOUNDATION PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
3. TOP OF PERIMETER FOOTING (T/F) -2'-0", UNO.
4. TOP OF INTERIOR FOOTING (T/F) -0'-8", UNO.
5. TOP OF PIER (T/P) -0'-8", UNO.
6. TOP OF ALL EXTERIOR CANOPY PIERS (T/P) -1'-4" AND TOP OF ALL EXTERIOR CANOPY FOUNDATIONS (T/F) -2'-8".

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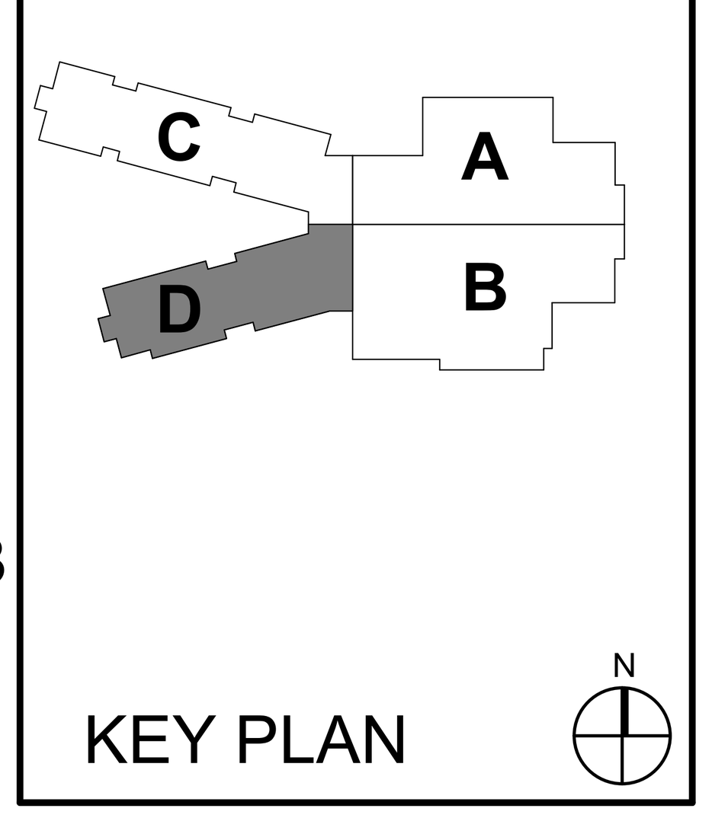
001	Addendum 1	05.26.2022

10559 E. THOMPSON RD



KEY PLAN

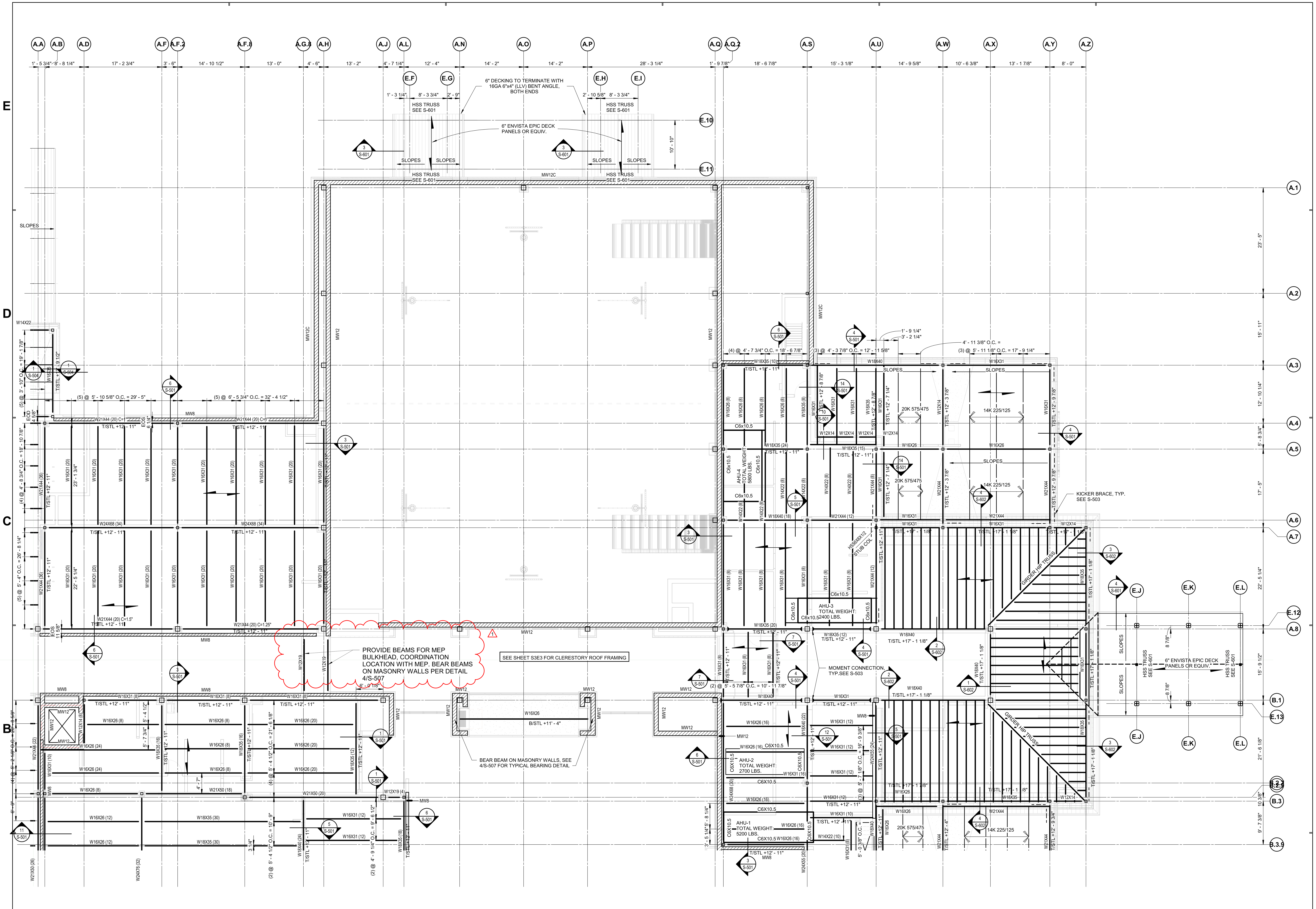
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

FOUNDATION PLAN - UNIT D

S1DF



SECOND FLOOR/LOW ROOF FRAMING PLAN - UNIT A

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

FRAMING PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN, CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
3. COORDINATE DECK AND SLAB OPENINGS - EXACT SIZE AND LOCATION, WITH MECHANICAL AND PLUMBING CONTRACTOR DRAWINGS AND EQUIPMENT SUPPLIER.
4. VERIFY EQUIPMENT SIZE, WEIGHT, AND LOCATION WITH MECHANICAL CONTRACTOR.
5. UNO, ASSUME EQUAL PURLIN SPACING BETWEEN GRID LINES.

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-141.NES
Project Date 05.11.2022
Produced JLL NRT

JUSTIN L. LEIBERING REGISTERED No. 11500368 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
001	Addendum 1	05.26.2022

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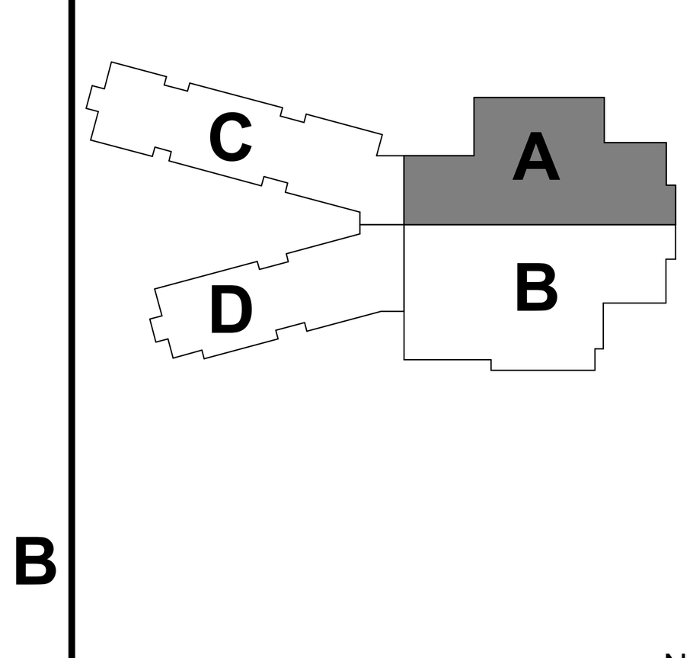


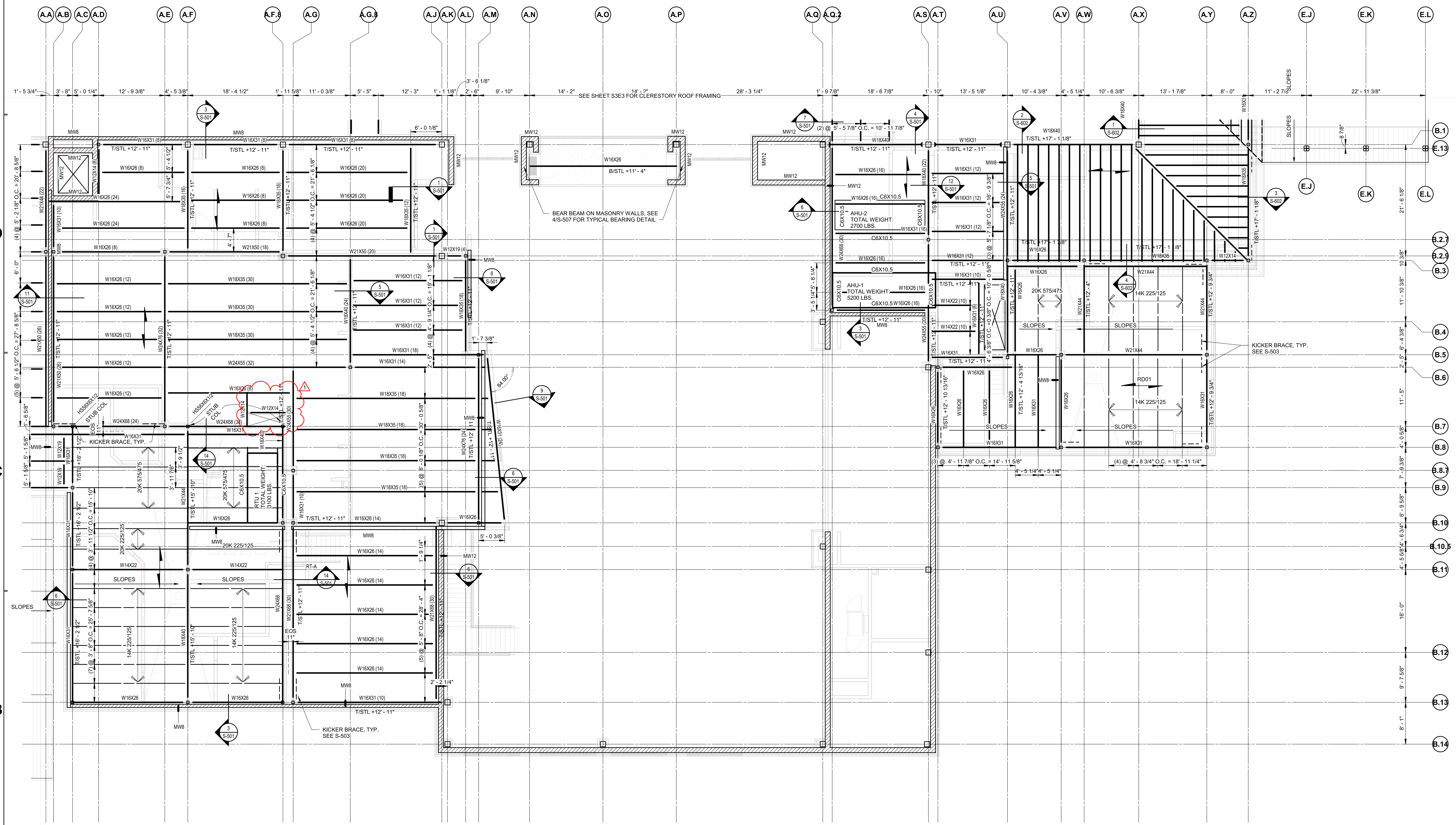
KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

SECOND FLOOR/LOW ROOF FRAMING PLAN - UNIT A

S2AF



SECOND FLOOR/LOW ROOF FRAMING PLAN - UNIT B

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

FRAMING PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
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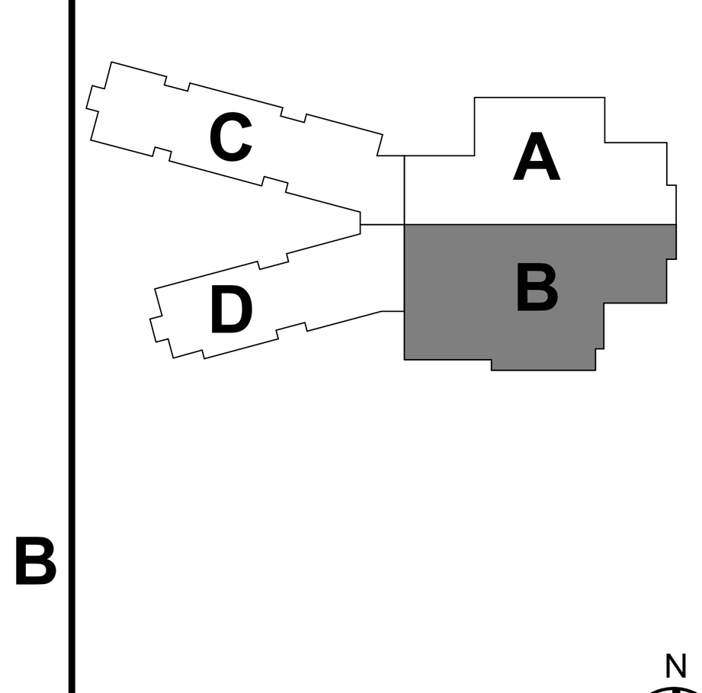


KEY PLAN

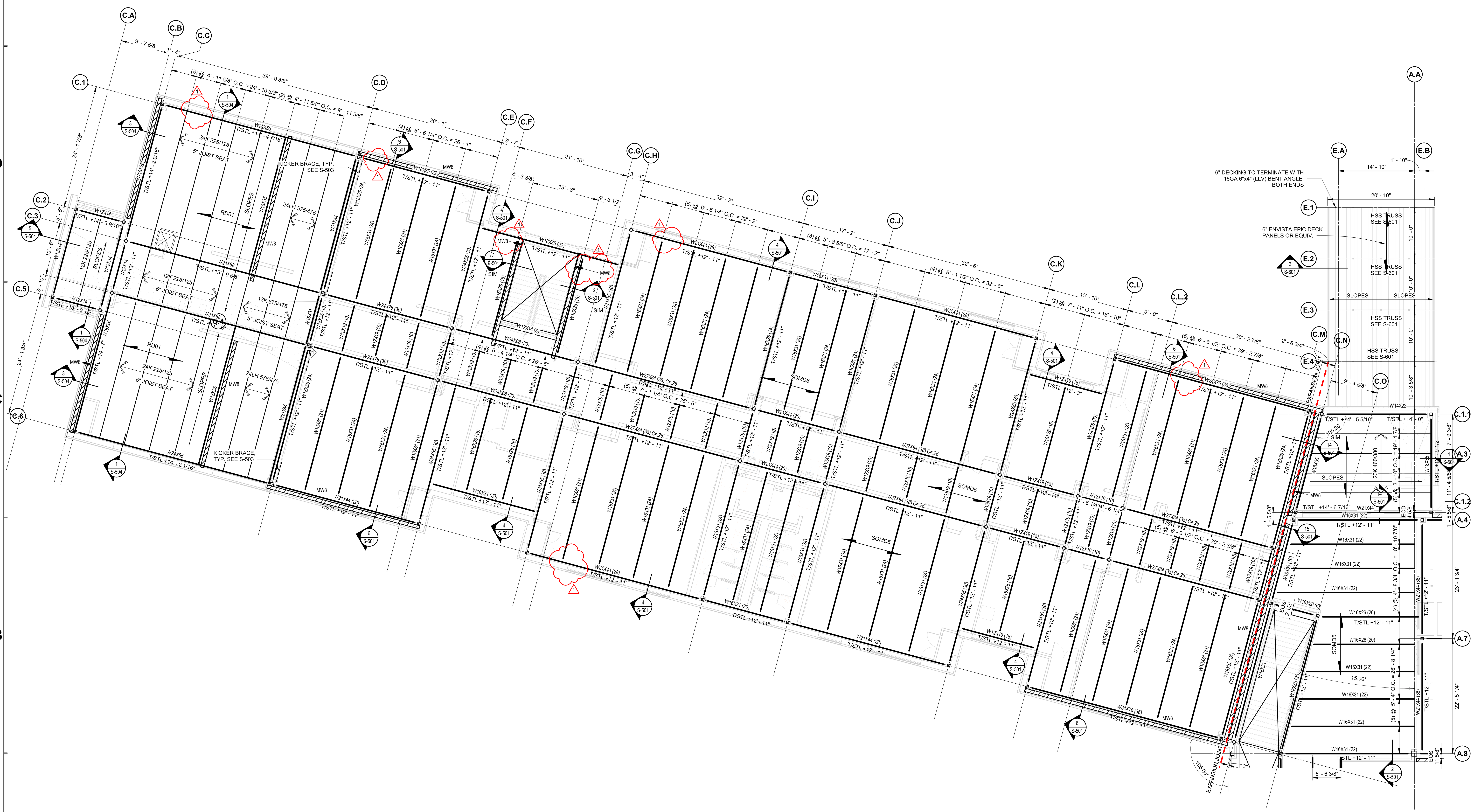
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR/LOW ROOF FRAMING PLAN - UNIT B

S2BF



SECOND FLOOR/LOW ROOF FRAMING PLAN - UNIT C

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

N

FRAMING PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
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5. UNO, ASSUME EQUAL PURLIN SPACING BETWEEN GRID LINES.

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KEY PLAN

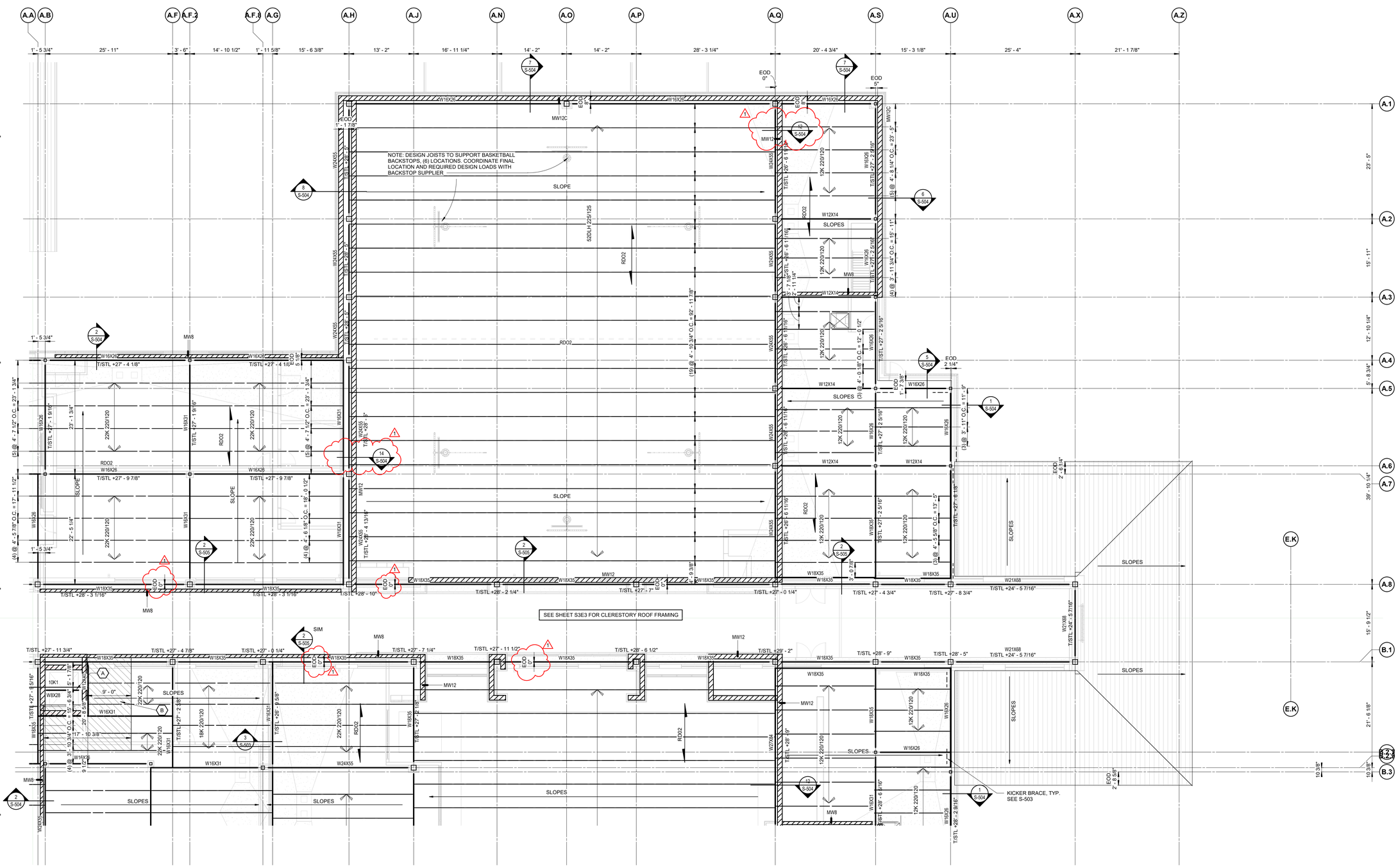
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR/LOW ROOF FRAMING PLAN - UNIT C

S2CF



KEY PLAN NOTES

- A — W8x28 ELEVATOR HOIST BEAM. T/STL = *TBD*. COORDINATE FINAL ELEVATION AND LOCATION WITH ELEVATOR SUPPLIER.
- B — IN INDICATED AREA SURROUNDING THE SHAFT, WELD ROOF DECK TO SUPPORTS WITH 36/7 WELD PATTERN, UNO.
- C — SUPPORT SHALLOWER/LIGHTER MEMBER WITH SHEAR CONNECTION TO DEEPER/HEAVIER MEMBER. SHEAR CONNECTION TO BE DESIGNED BY CONNECTION ENGINEER.

HIGH ROOF FRAMING PLAN - UNIT A

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

FRAMING PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
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S3AR_ HIGH ROOF FRAMING PLAN - UNIT A
2021-141.NES_FRANKLIN TOWNSHIP CSC_95% CD Set Not For Construction
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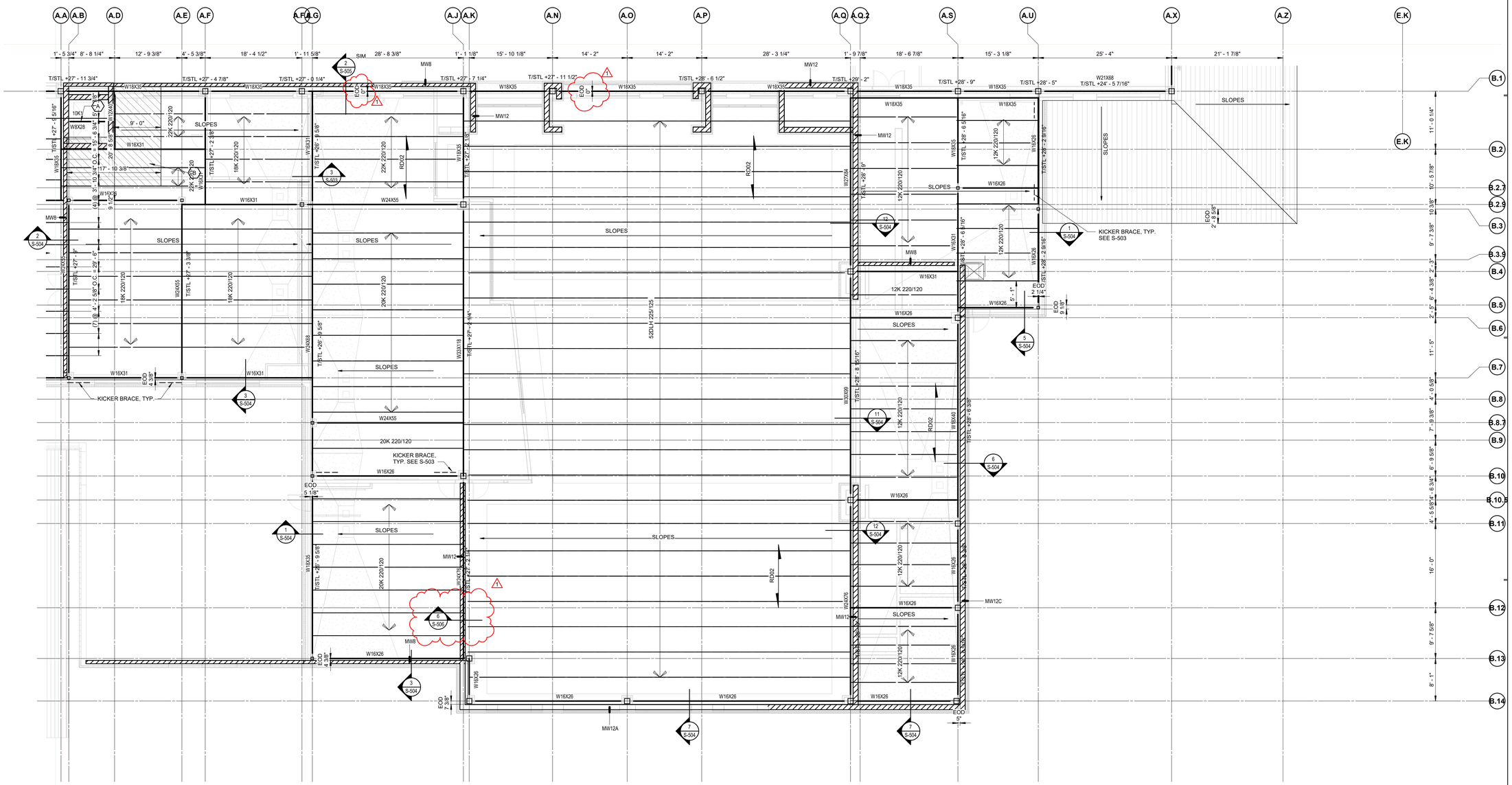
KEY PLAN

FRANKLIN
TOWNSHIP CSC

NEW ELEMENTARY
SCHOOL

HIGH ROOF FRAMING
PLAN - UNIT A

S3AR



6 5 4 3 2 1

E D C B A

KEY PLAN NOTES

- A W8x28 ELEVATOR HOIST BEAM. T/STL = *TBD*. COORDINATE FINAL ELEVATION AND LOCATION WITH ELEVATOR SUPPLIER.
- B IN INDICATED AREA SURROUNDING THE SHAFT, WELD ROOF DECK TO SUPPORTS WITH 36/7 WELD PATTERN, UNO.
- C SUPPORT SHALLOWER/LIGHTER MEMBER WITH SHEAR CONNECTION TO DEEPER/HEAVIER MEMBER. SHEAR CONNECTION TO BE DESIGNED BY CONNECTION ENGINEER.

HIGH ROOF FRAMING PLAN - UNIT B

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

N

FRAMING PLAN NOTES:

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S3BR_ HIGH ROOF FRAMING PLAN - UNIT B
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KEY PLAN

FRANKLIN
TOWNSHIP CSC

NEW ELEMENTARY
SCHOOL

HIGH ROOF FRAMING
PLAN - UNIT B

S3BR

6 5 4 3 2 1

HIGH ROOF FRAMING PLAN - UNIT C

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

FRAMING PLAN NOTES:

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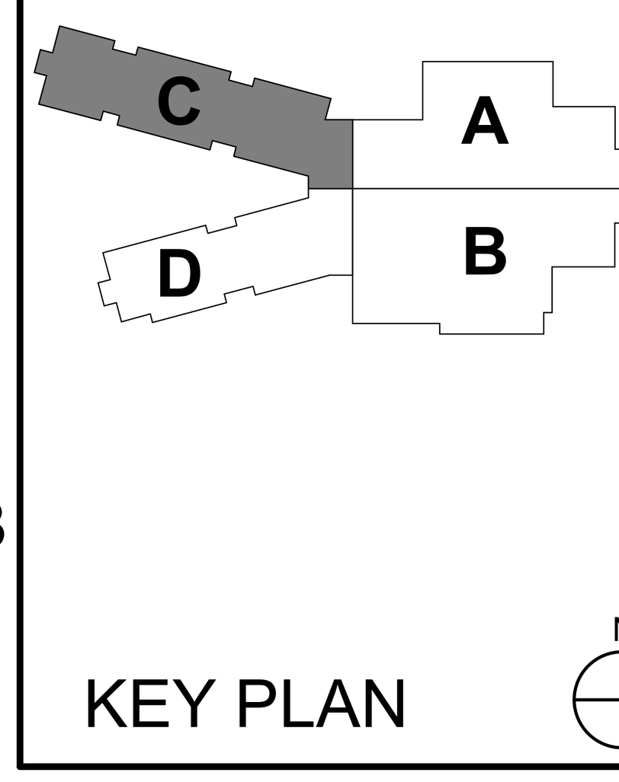


KEY PLAN

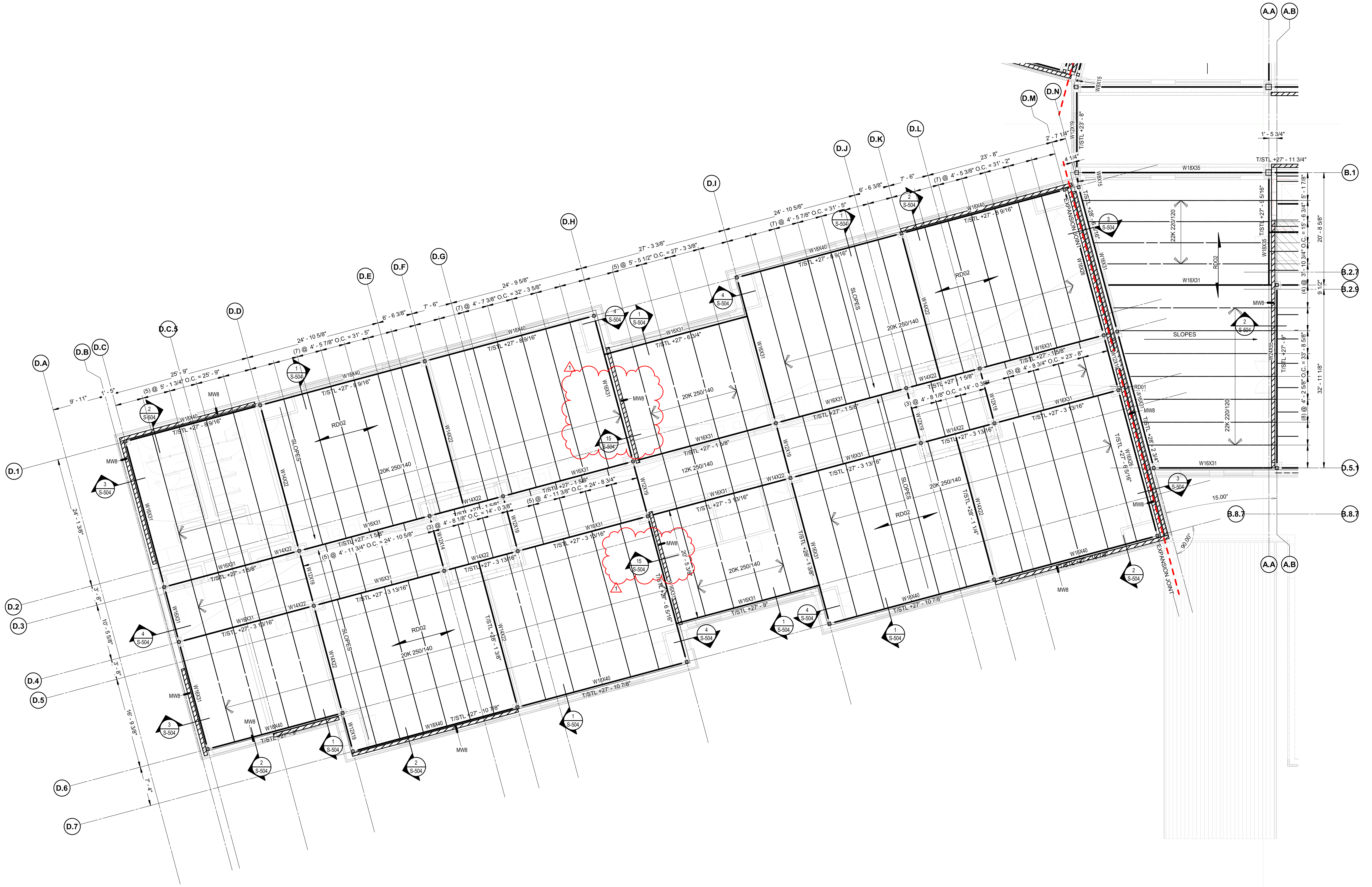
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

HIGH ROOF FRAMING PLAN - UNIT C

S3CR



HIGH ROOF FRAMING PLAN - UNIT D

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

N

FRAMING PLAN NOTES:

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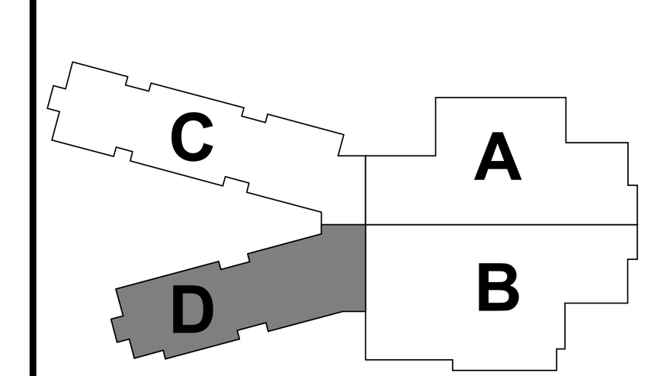


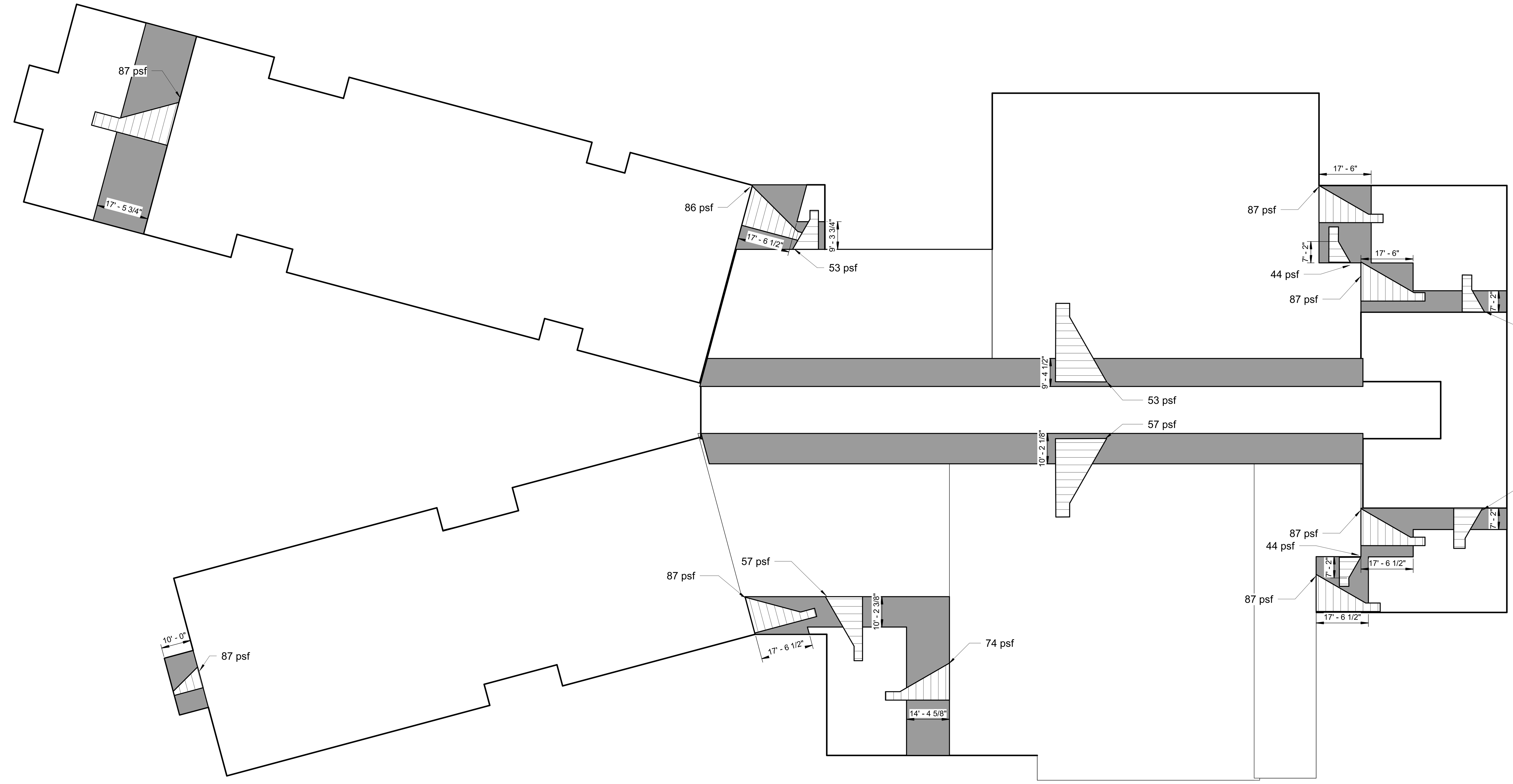
KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

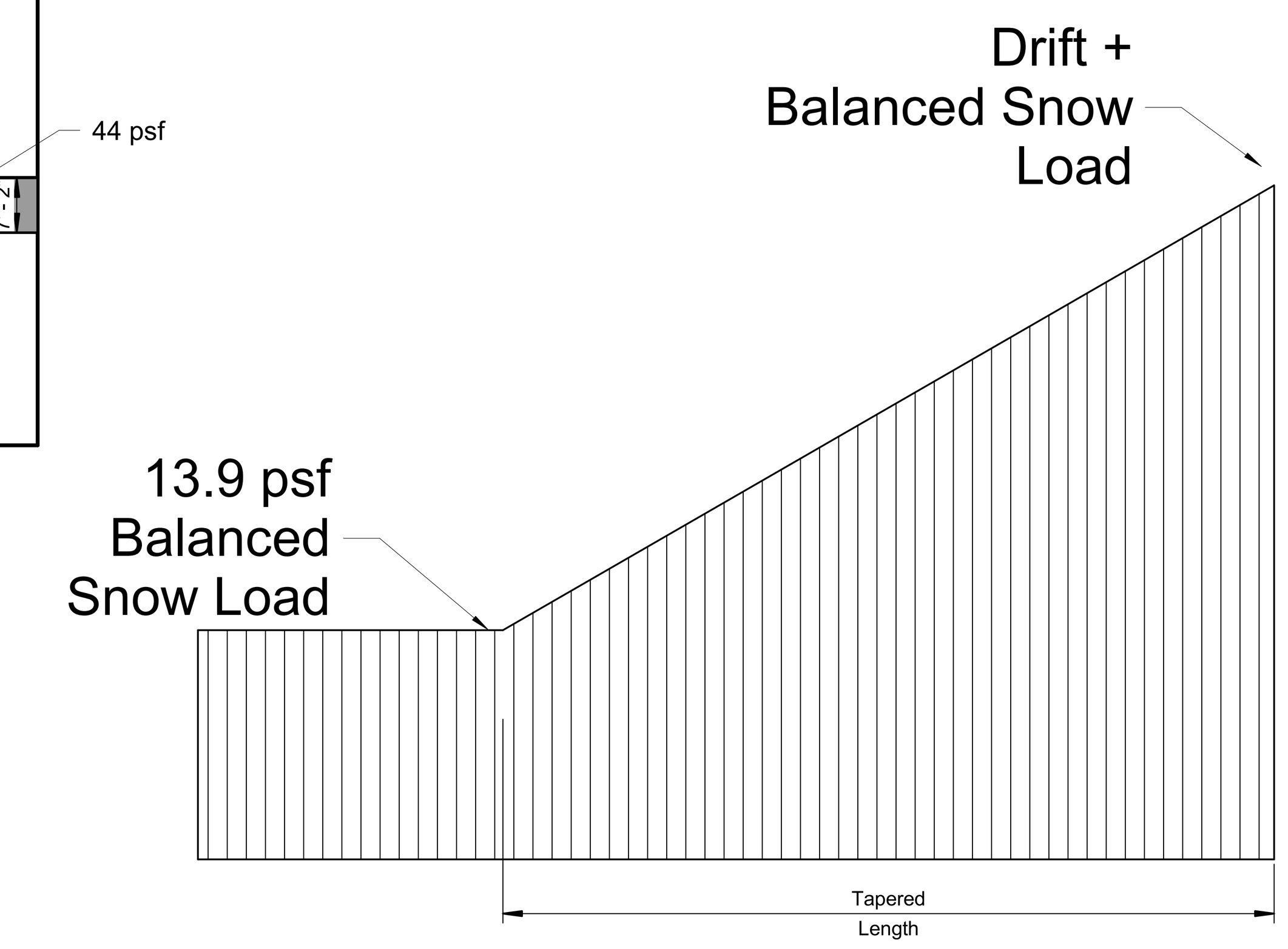
HIGH ROOF FRAMING PLAN - UNIT D

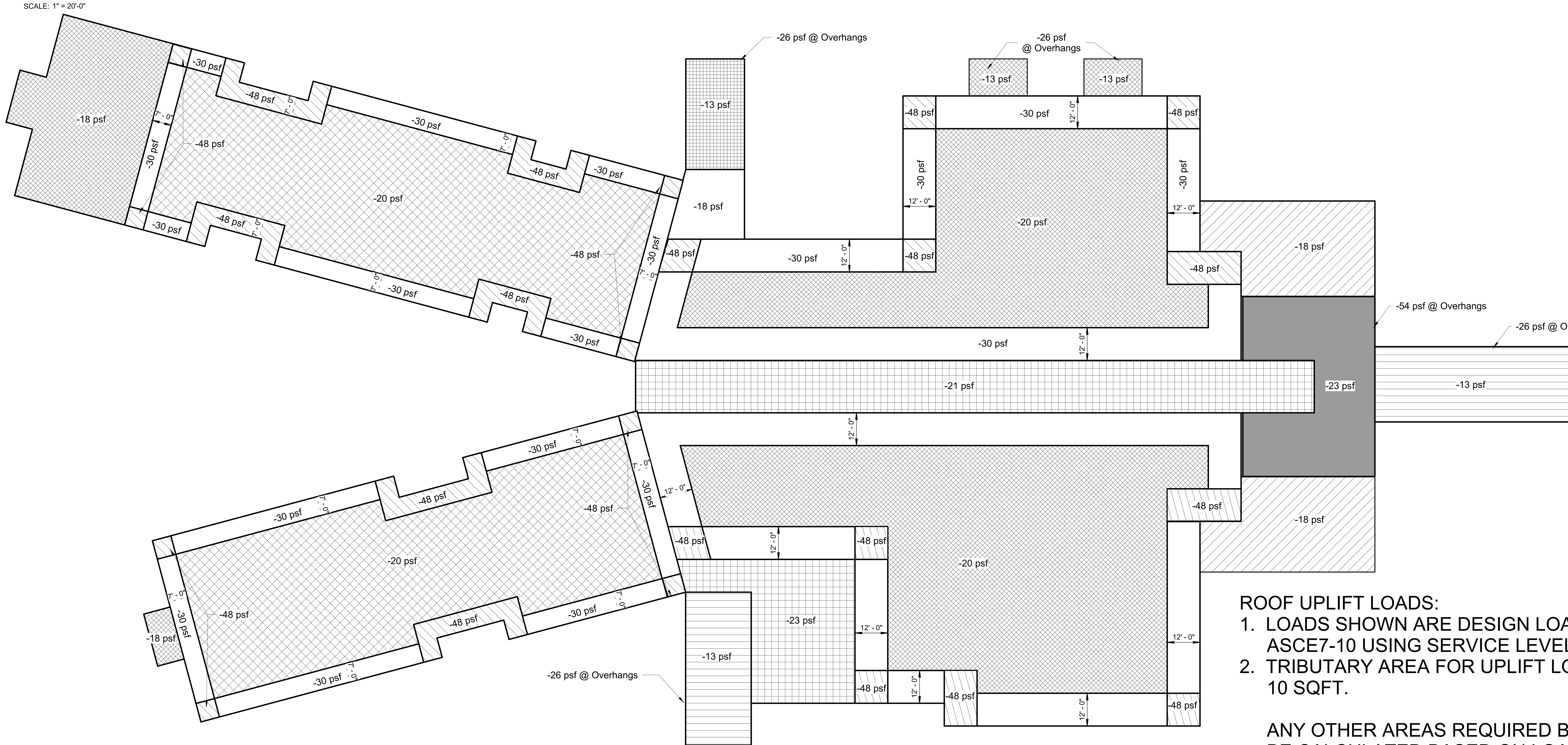
S3DR



Top/ High Roof Snow Loads

SCALE: 1" = 20'-0"





Top/ High Roof Uplift Loads

SCALE: 1" = 20'-0"

ROOF UPLIFT LOADS:

1. LOADS SHOWN ARE DESIGN LOADS AS CALCULATED PER ASCE7-10 USING SERVICE LEVEL LOADS OF 0.6D+0.6W.
2. TRIBUTARY AREA FOR UPLIFT LOADING IS CODE MINIMUM <= 10 SQFT.

ANY OTHER AREAS REQUIRED BY MANUFACTURER SHOULD BE CALCULATED BASED ON LOADING CRITERTIA ON S001

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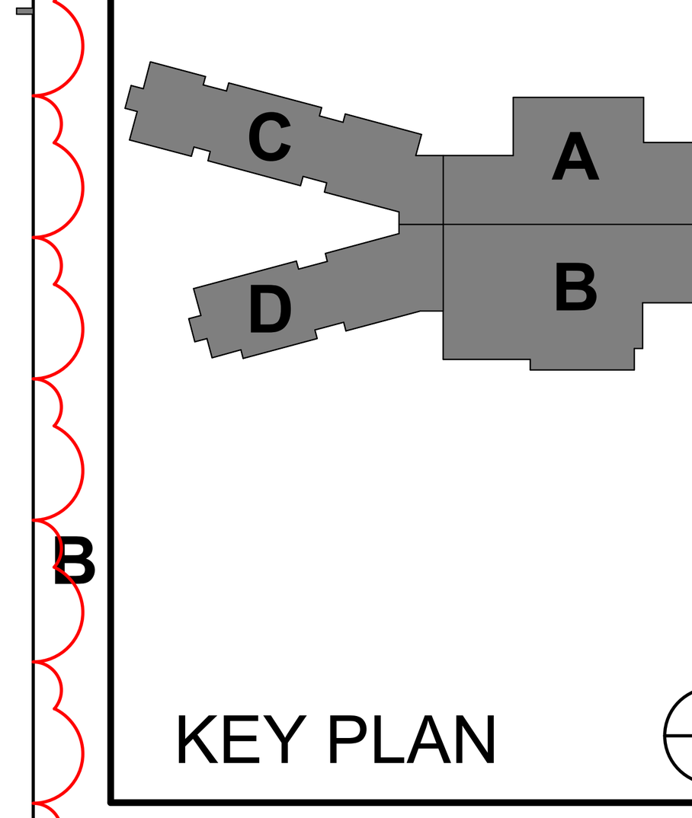


KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

LOADING PLANS

S-010

UNIFORM LOAD SCHEDULE

MARK	DESCRIPTION	DESIGN LOADS (PSF)			
		DEAD	SUPERIMPOSED DEAD	LIVE	SNOW
A	STAIRS	50	NA	100	NA
B	TYPICAL FLOOR/ CIRCULATION	see note 1	20	40	NA
C	CORRIDORS	see note 1	20	80	NA
D	STORAGE	see note 1	20	40	NA
E	MECHANICAL FLOOR	see note 1	100 see note 5	40 NR	NA
F	TYPICAL ROOF	see note 1	20 see note 6	20	22 PSF MIN -OR- DRIFT PER LOAD MAPS / DIAGRAMS

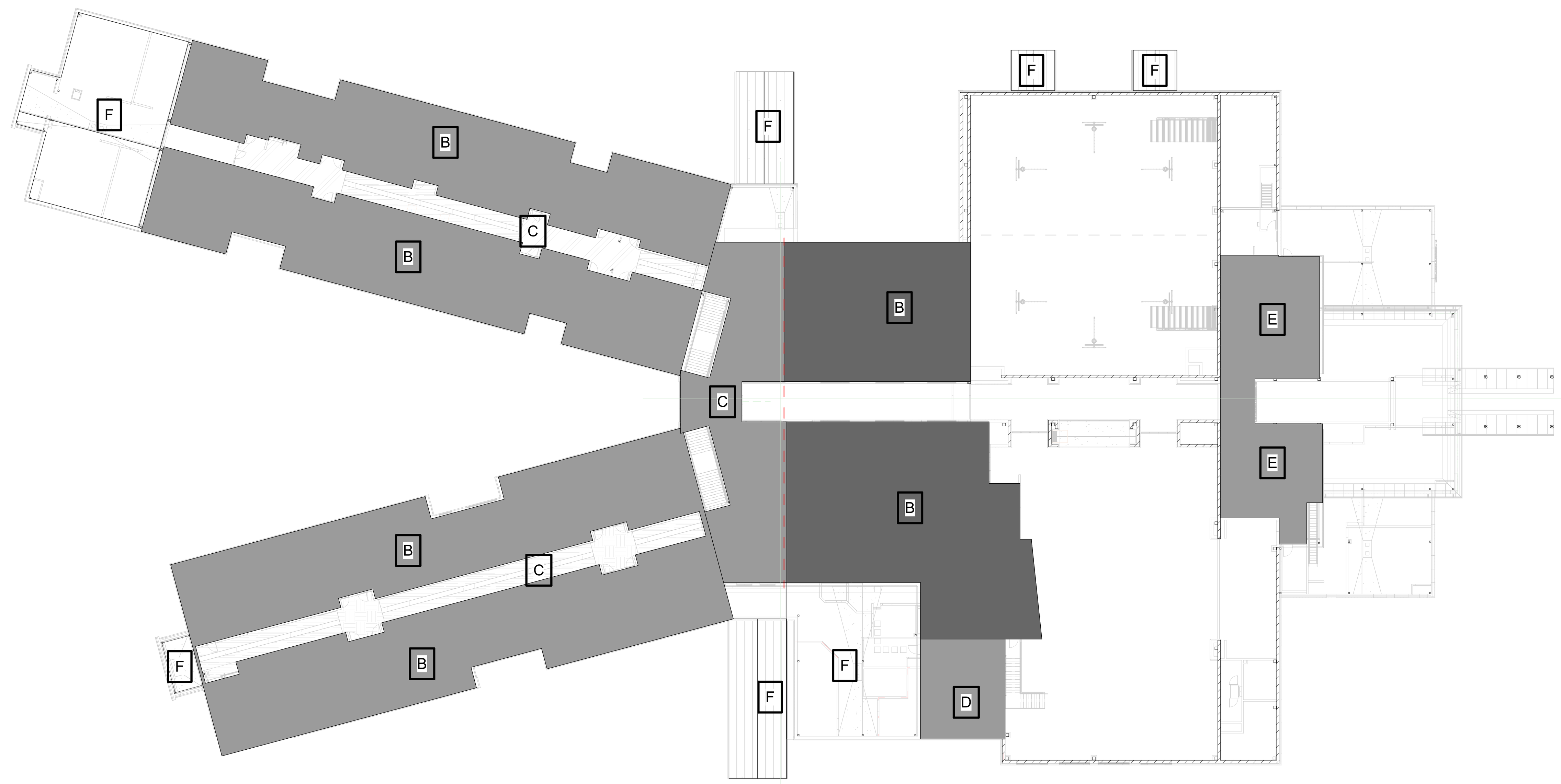
NOTES:

1. DEAD LOAD (WHEN DEFINED) REPRESENTS SELF-WEIGHT ALLOWANCE OF THE PRIMARY STRUCTURAL SYSTEM. WHEN NOT DEFINED, SEE DRAWINGS FOR MEMBER MATERIALS AND SIZES.
2. SUPERIMPOSED DEAD LOAD IS PERMANENT UNIFORM DEAD LOAD ALLOWANCE SUPPORTED BY THE STRUCTURE.
3. FOR SNOW LOADS DESIGN FOR WORST CASE OF UNIFORM SNOW OR SNOW DRIFT CONDITION.
4. "NR" = NON-REDUCIBLE LIVE LOAD.
5. SEE SHEETS S2AF AND S2BF FOR INTERIOR AHU'S AND ASSOCIATED CONCENTRATED LOADS
6. SEE SHEET S2BF FOR EXTERIOR RTU LOCATION AND ASSOCIATED CONCENTRATED LOADS

TYPICAL UNIFROM LOAD SCHEDULE

SCALE: 3/32" = 1'-0"

1
S-011



Second Floor Load Map

SCALE: 1" = 30'-0"

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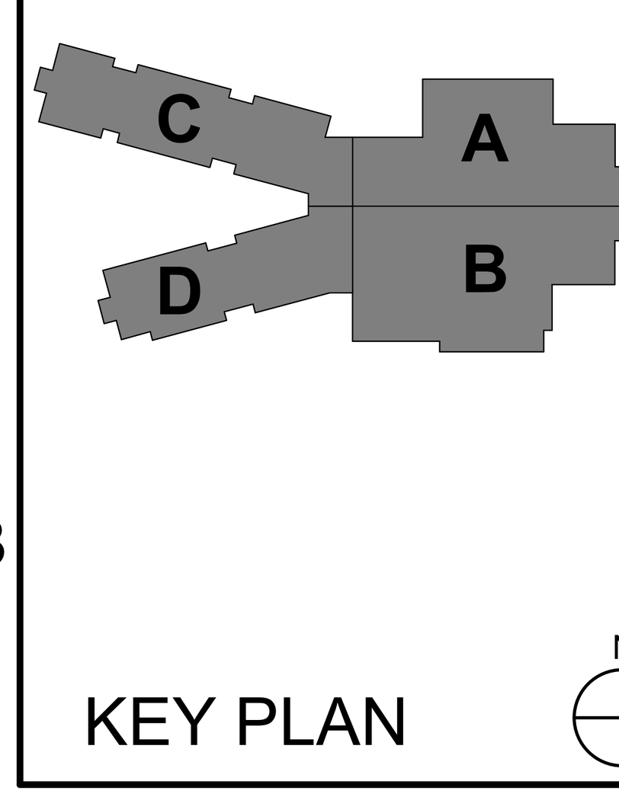

KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FLOOR LOADING PLANS

S-011

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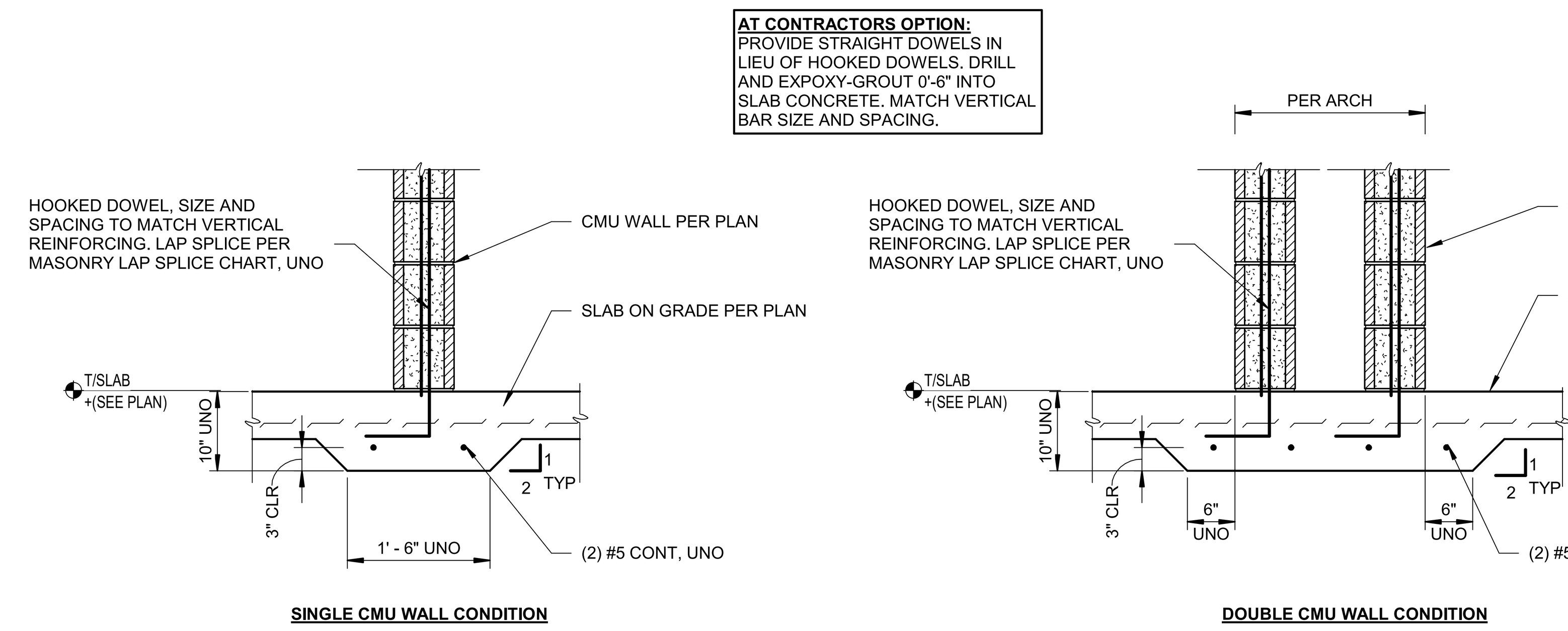
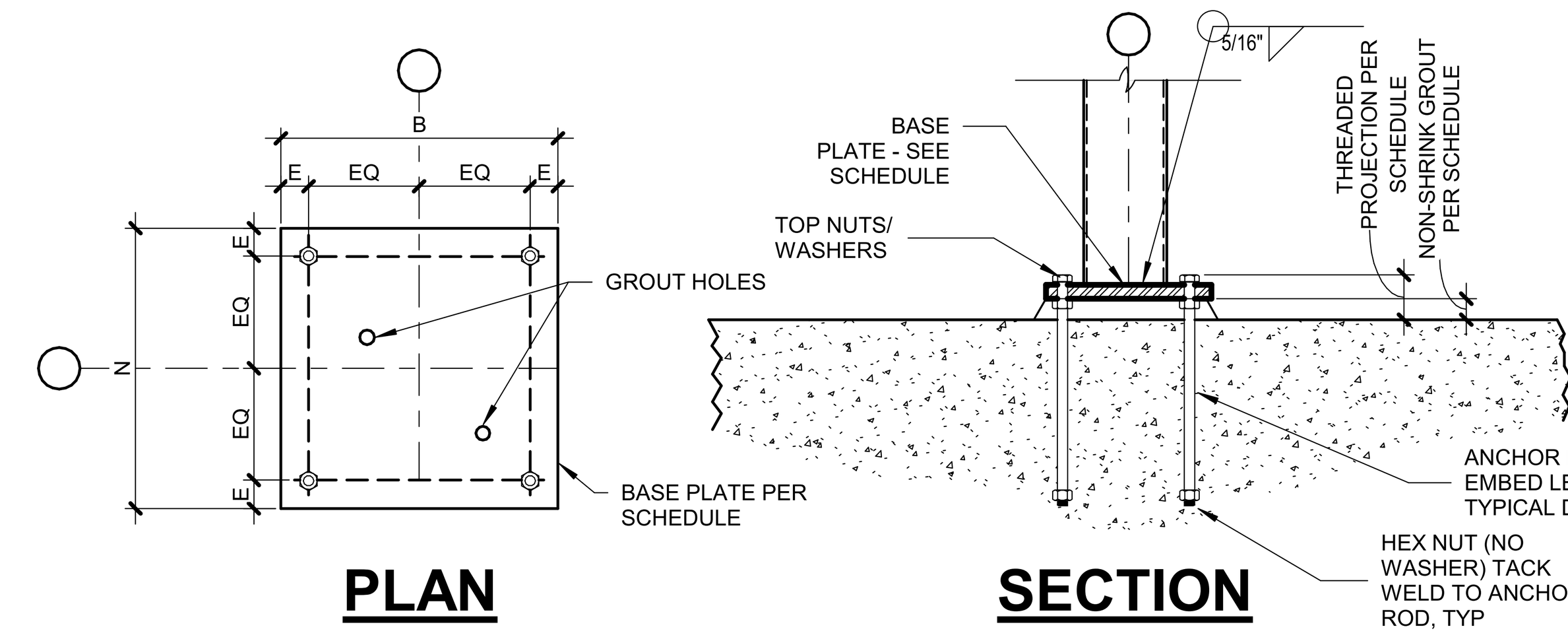


TYPICAL THICKENED SLAB AT CMU WALL

5 S-402

SCALE: 3/4" = 1'-0"



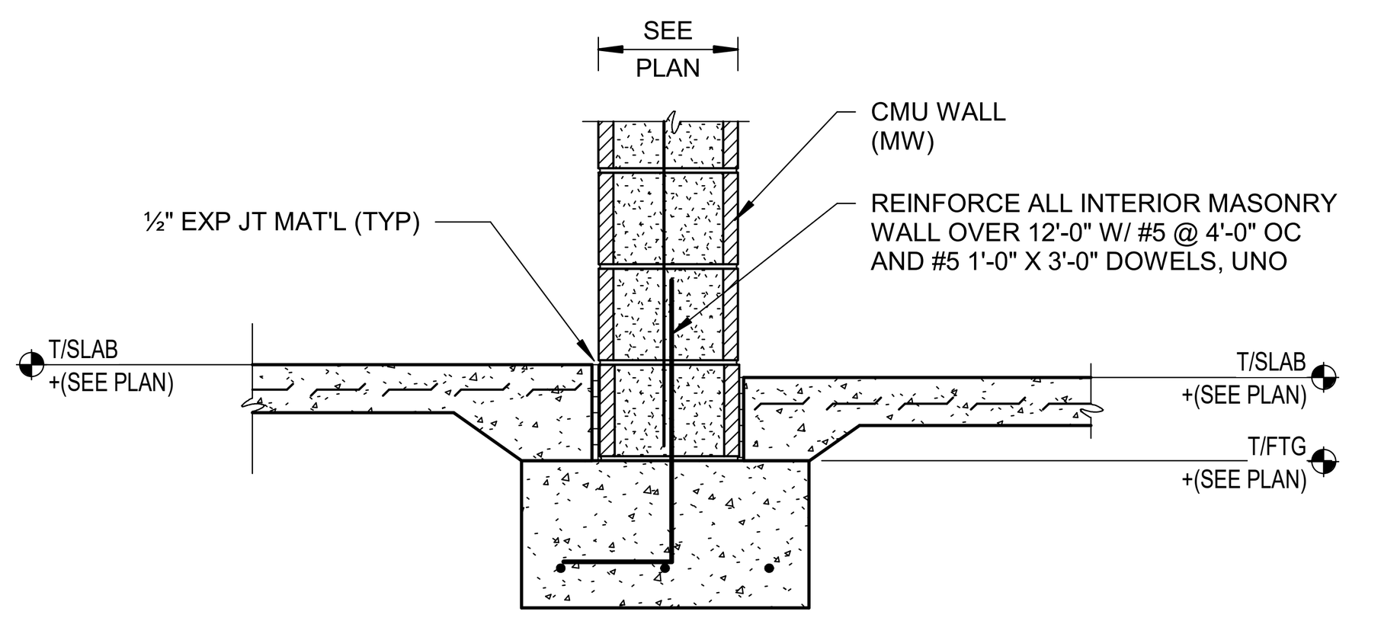
NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE SUFFICIENT TEMPORARY SUPPORT OF COLUMN BASE PLATES USING LEVELING PLATES, LEVELING NUTS/WASHERS OR STEEL SHIMS (OR COMBINATION THEREOF PRIOR TO PLACEMENT AND CURING ON NON-SHRINK GROUT.

COLUMN BASE DETAIL TYP CASE 1

1 S-402

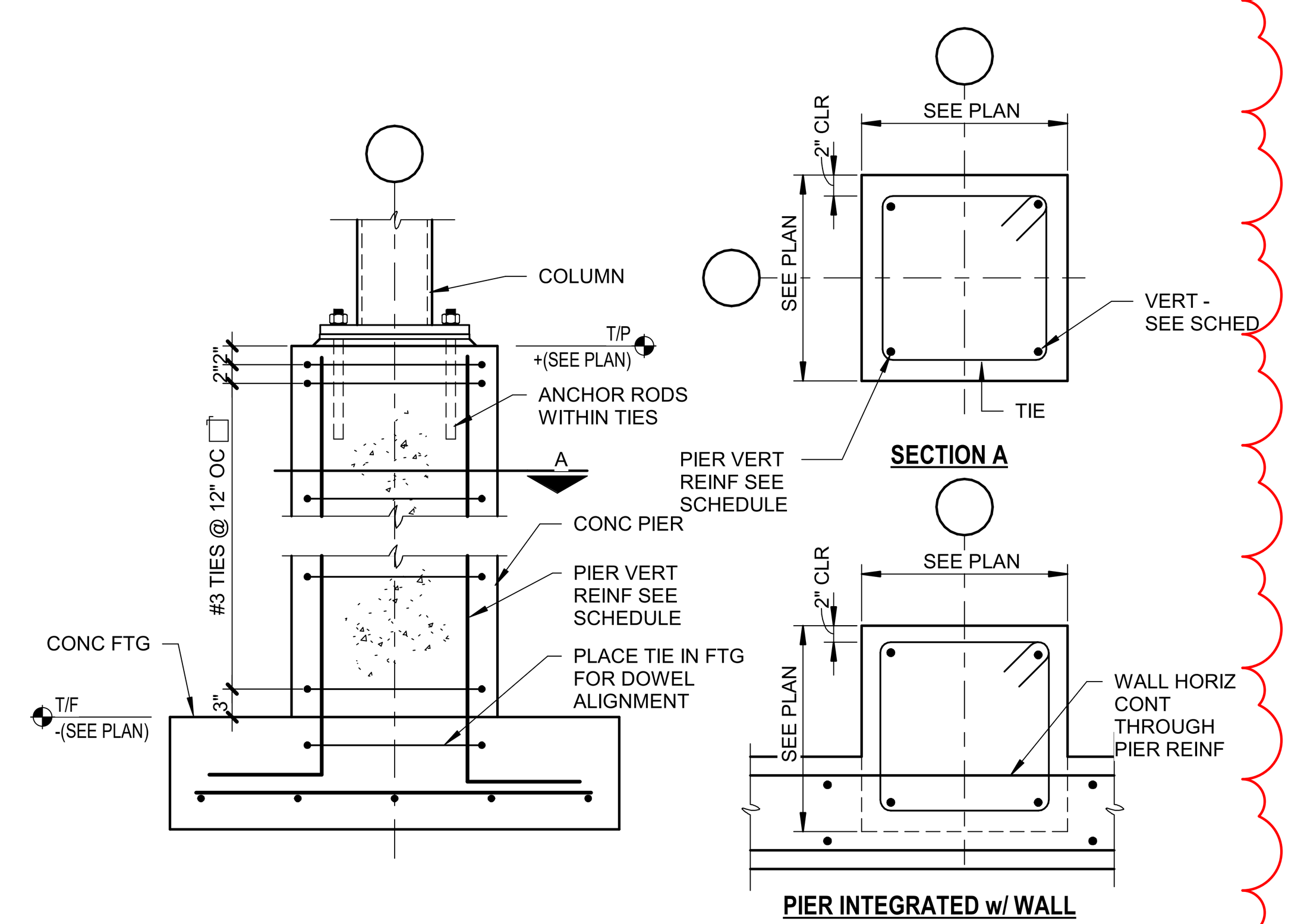
SCALE: 1" = 1'-0"



TYPICAL INTERIOR WALL FOOTING

6 S-402

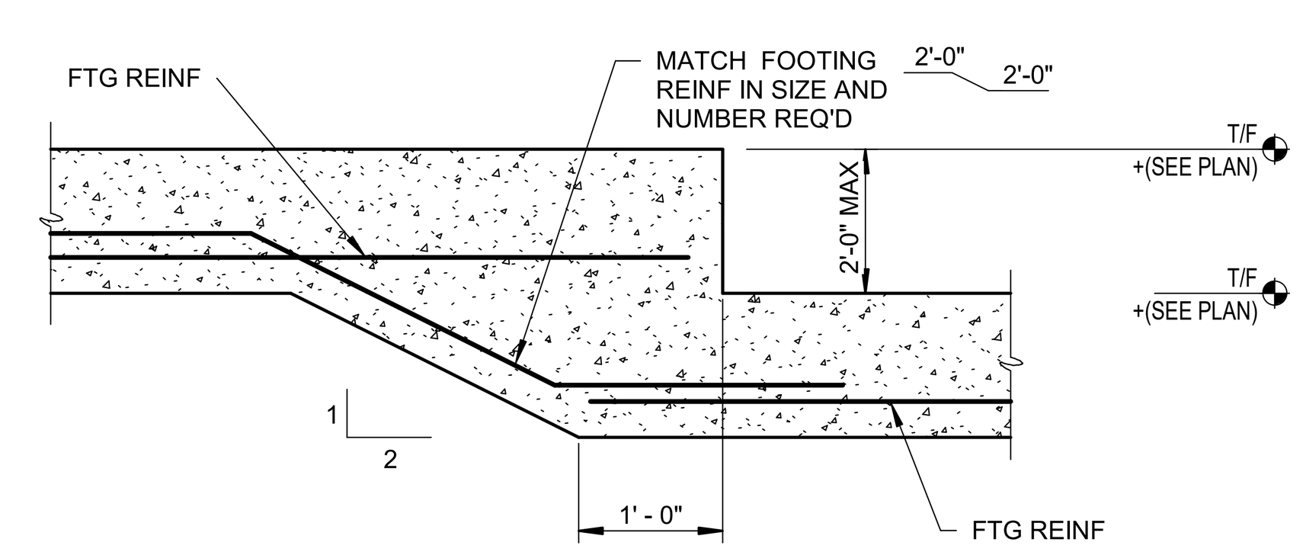
SCALE: 3/4" = 1'-0"



TYPICAL PIER ELEVATION

2 S-402

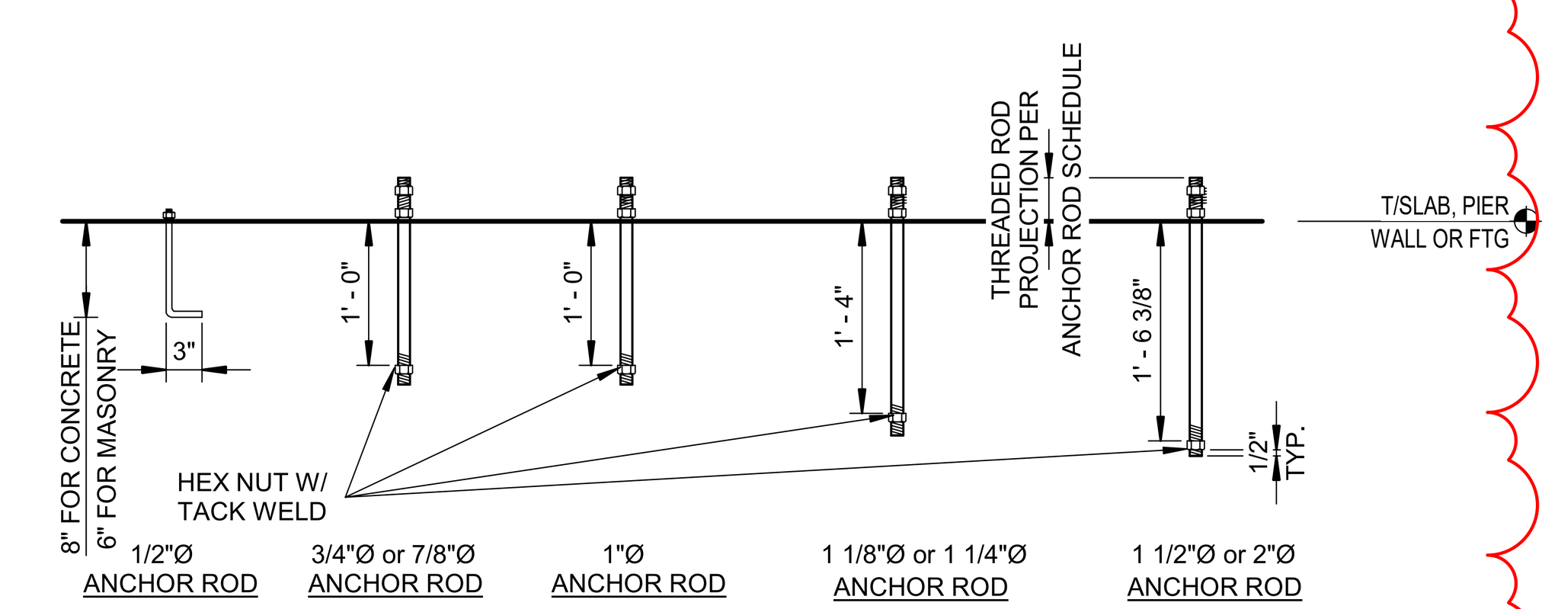
SCALE: 3/4" = 1'-0"



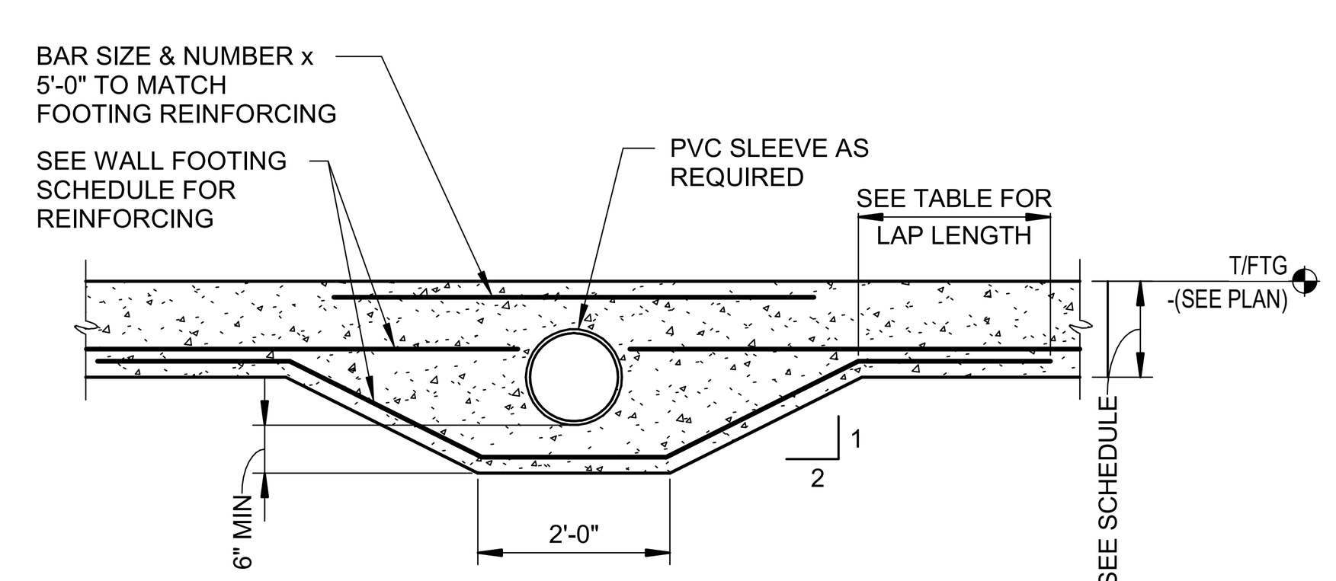
TYP TOP OF FOOTING STEP

7 S-402

SCALE: 3/4" = 1'-0"



NOTES:
1. SEE SCHEDULE OR SECTIONS FOR REQUIRED ANCHOR ROD SIZE AND SPACING.
2. PROVIDE NUTS AND WASHERS FOR ALL ANCHOR RODS
3. FOR COLUMNS TO HAVE NON-SHRINK GROUT BASE, PROVIDE LEVELING NUTS, WASHERS AND SHIMS AS REQ'D TO SAFELY PLUMB AND SUPPORT THE COLUMN UNTIL GROUT HAS ATTAINED 28-DAY COMPRESSIVE STRENGTH



TYP SLEEVE DETAIL AT WALL FOOTING

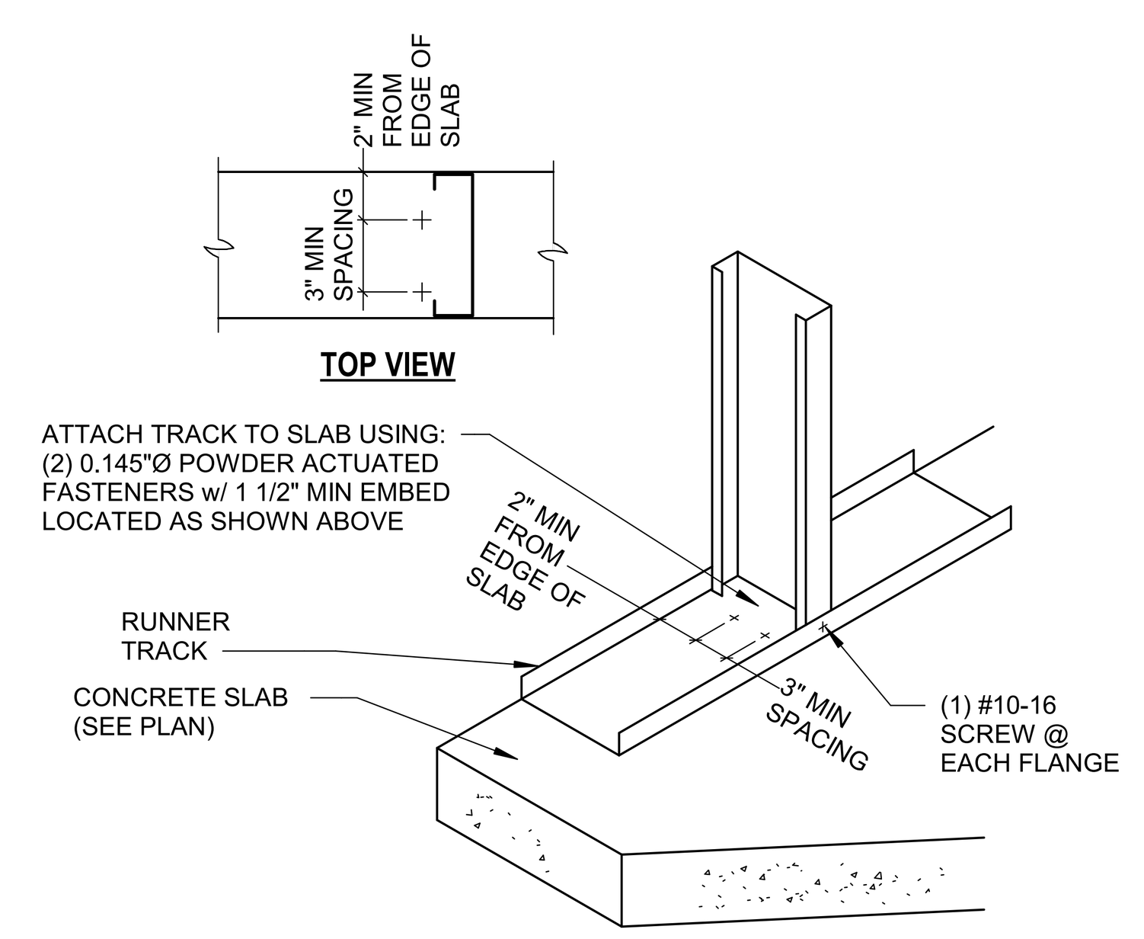
8 S-402

SCALE: 3/4" = 1'-0"

TYPICAL ANCHOR ROD DETAILS

3 S-402

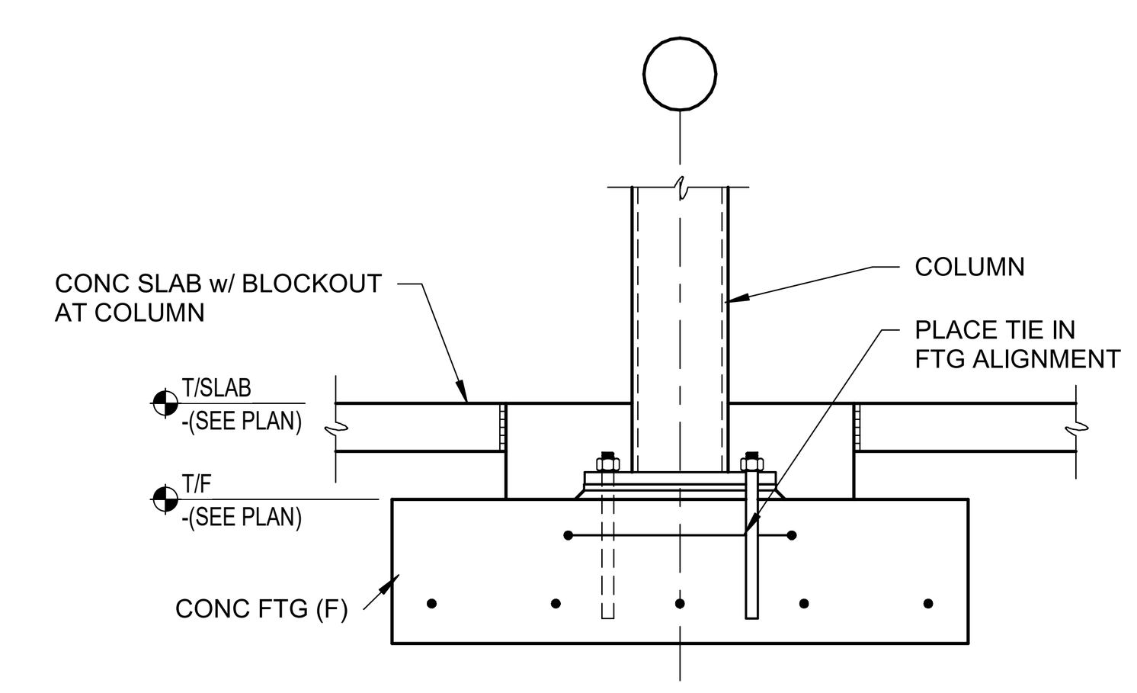
SCALE: 3/4" = 1'-0"



BASE OF WALL AT SLAB (INT WALL)

9 S-402

SCALE: 3/4" = 1'-0"



TYPICAL COLUMN BASE SECTION

4 S-402

SCALE: 3/4" = 1'-0"

6 5 4 3 2 1

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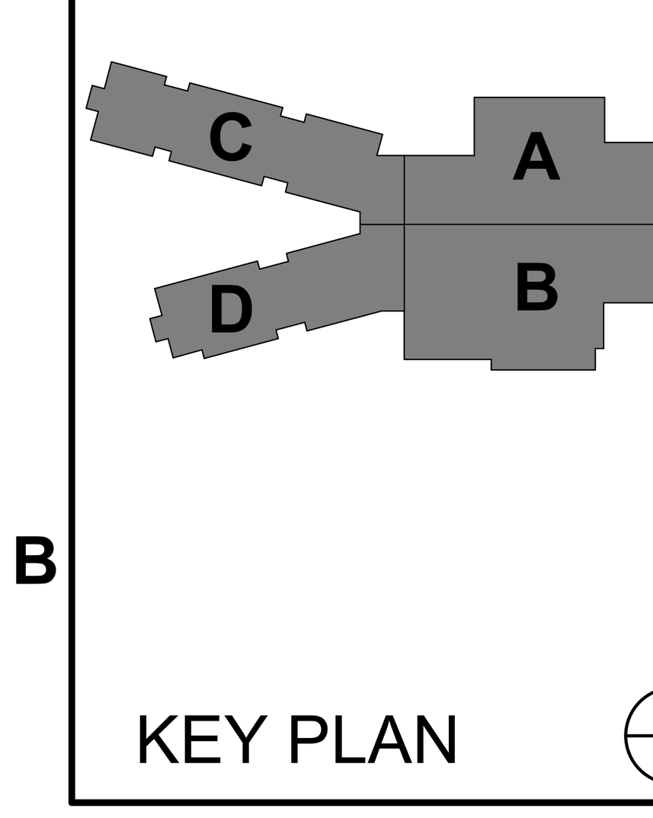


KEY PLAN

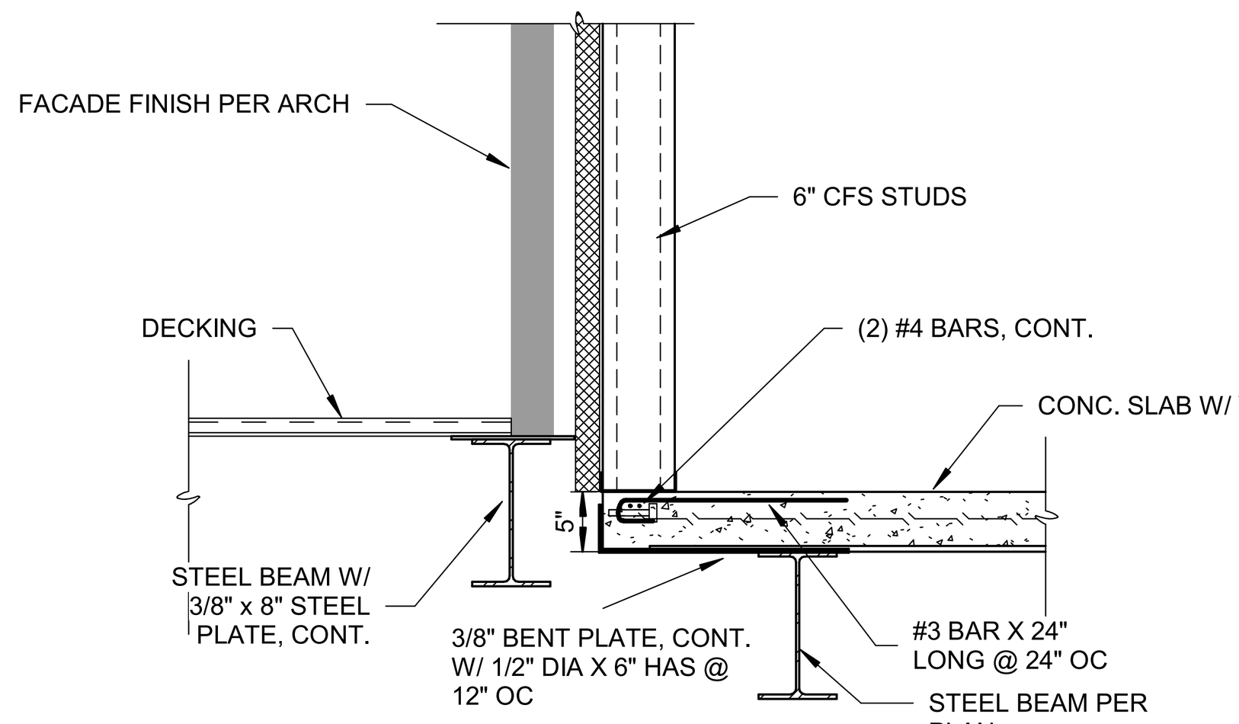
FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

TYPICAL FOUNDATION DETAILS

S-402

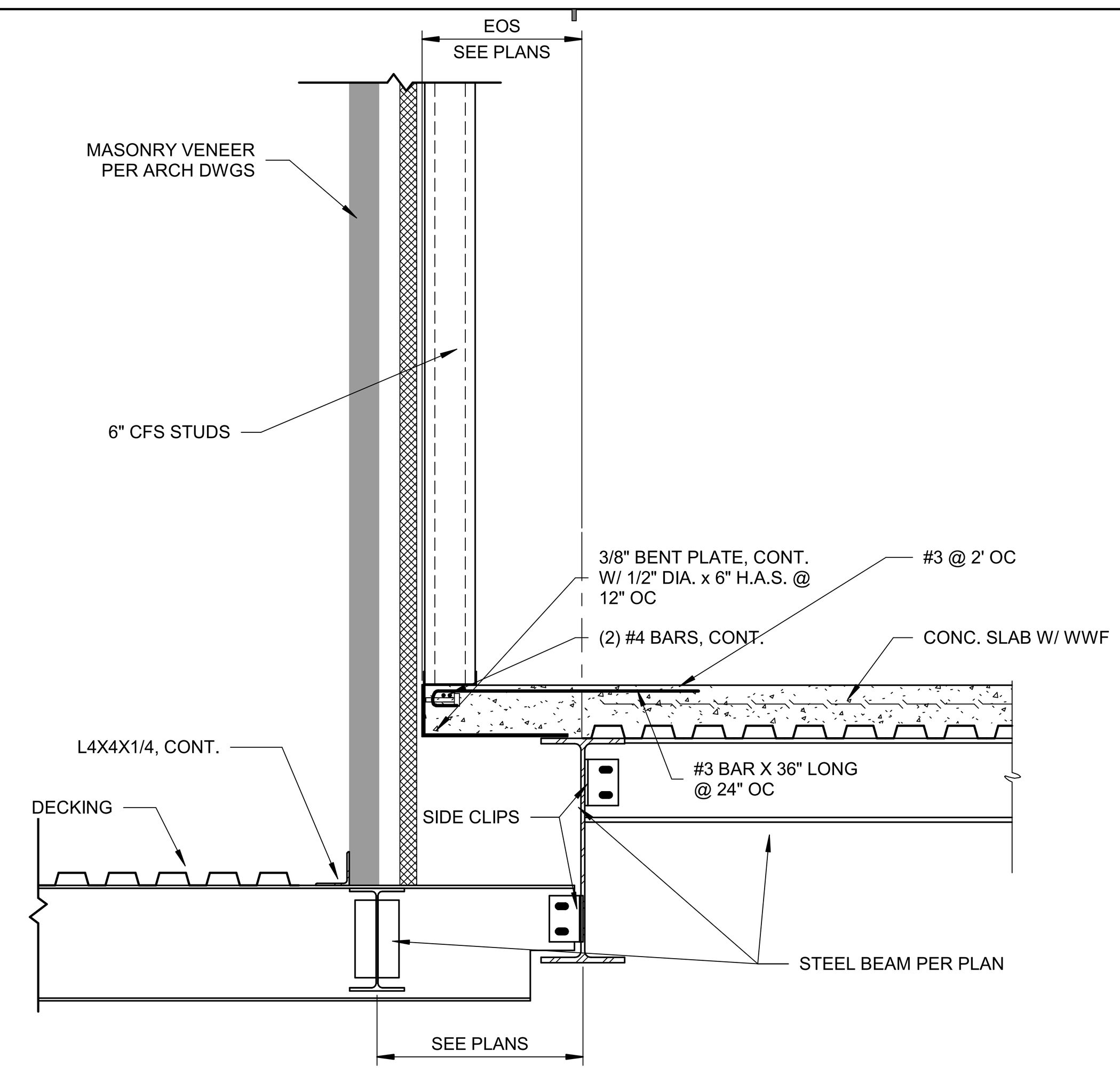
6 5 4 3 2 1



EOS & EOD W/ CFS WALL

SCALE: 3/4" = 1'-0"

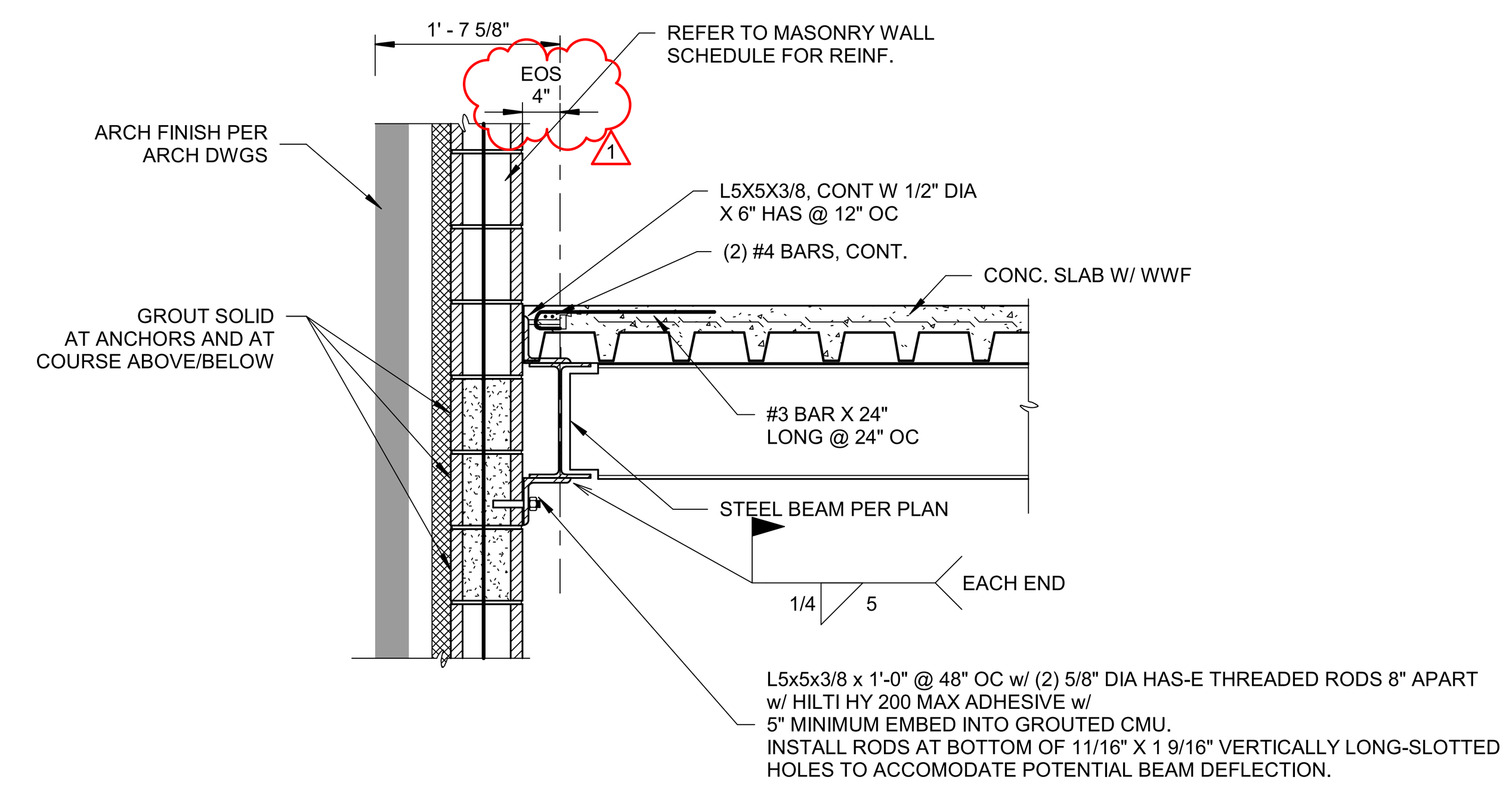
14 S-501



TYPICAL SLAB OVERHANG

SCALE: 3/4" = 1'-0"

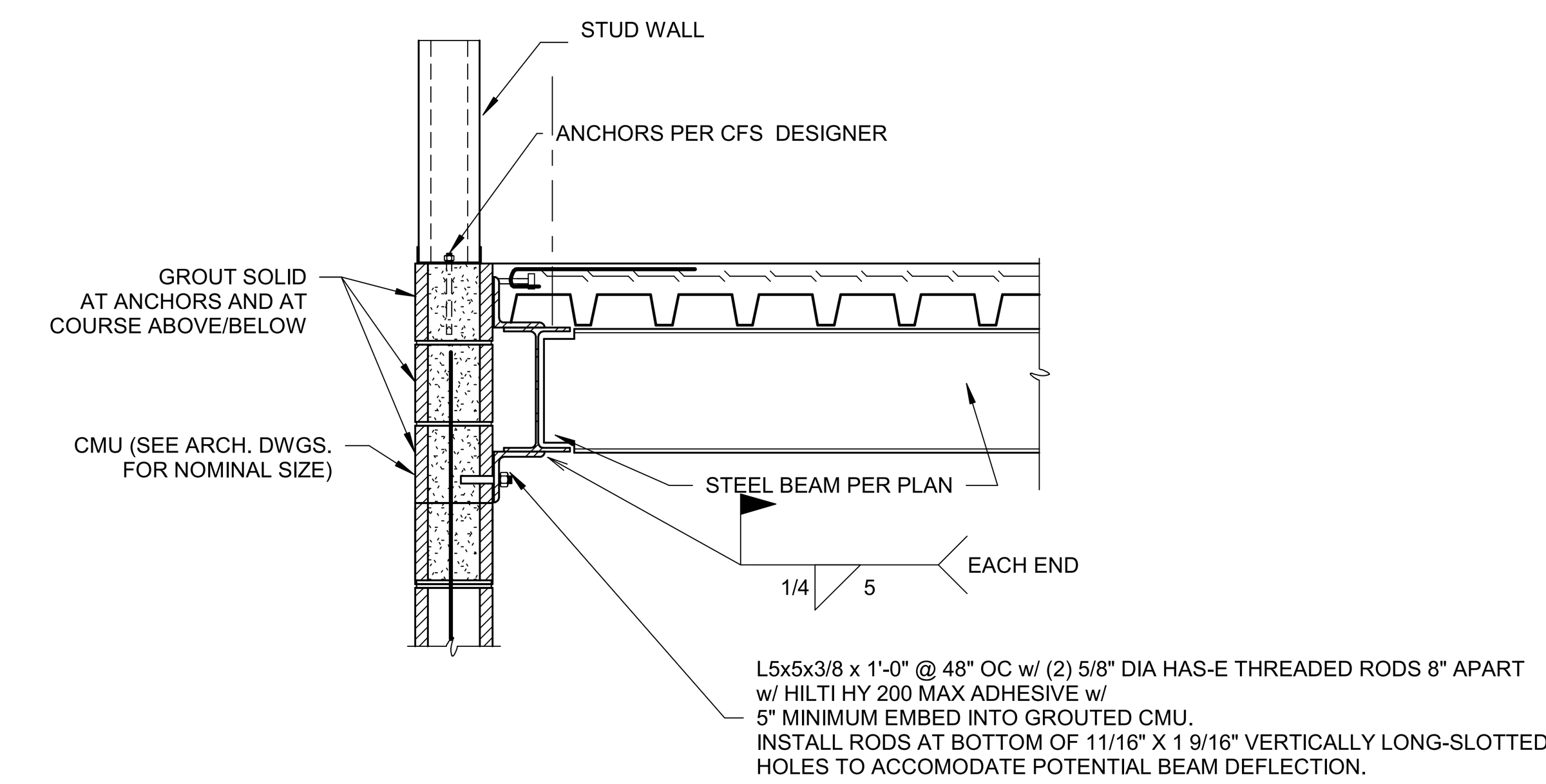
10 S-501



TYPICAL CMU-TO-STRUCTURE CONNECTION W/COPING

SCALE: 3/4" = 1'-0"

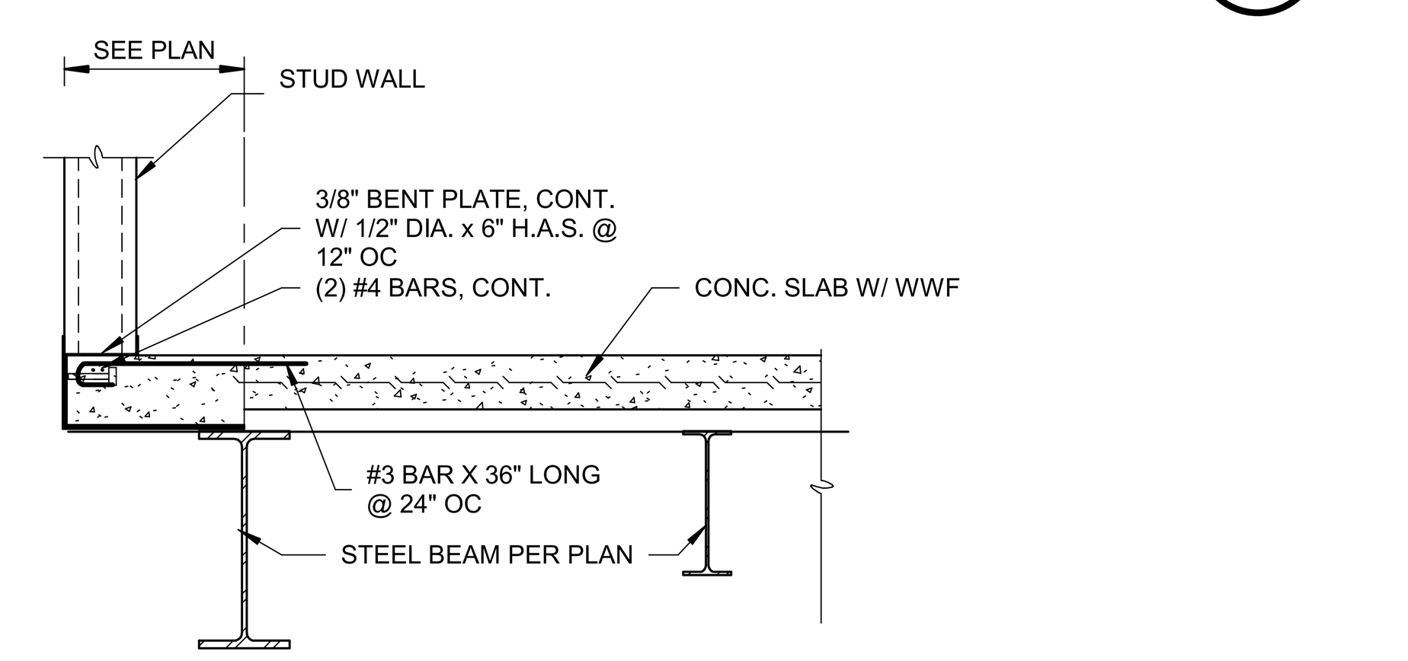
6 S-501



TYPICAL CMU-TO-STRUCTURE CONNECTION W/STUD WALL

SCALE: 3/4" = 1'-0"

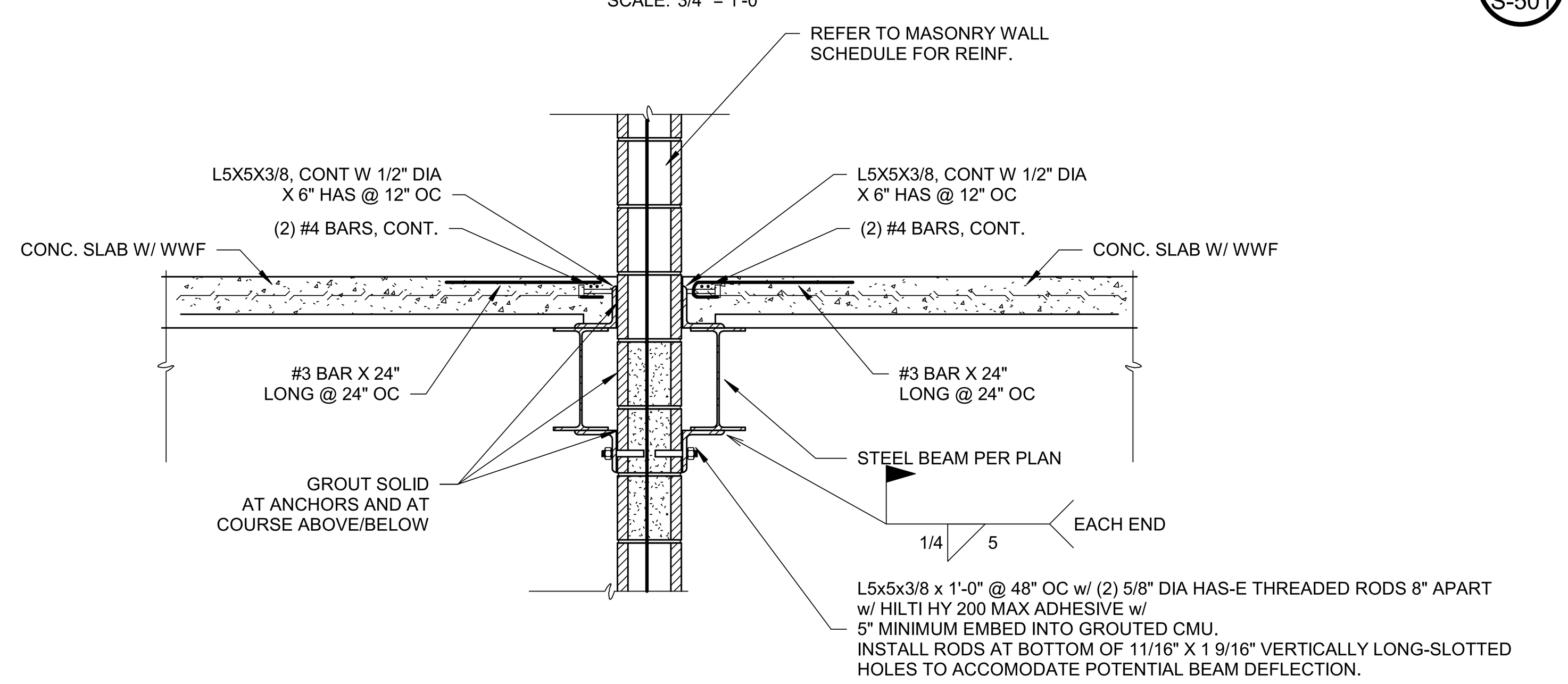
1 S-501



TYPICAL SLAB CONNECTION W/STUD WALL & OVERHANG

SCALE: 3/4" = 1'-0"

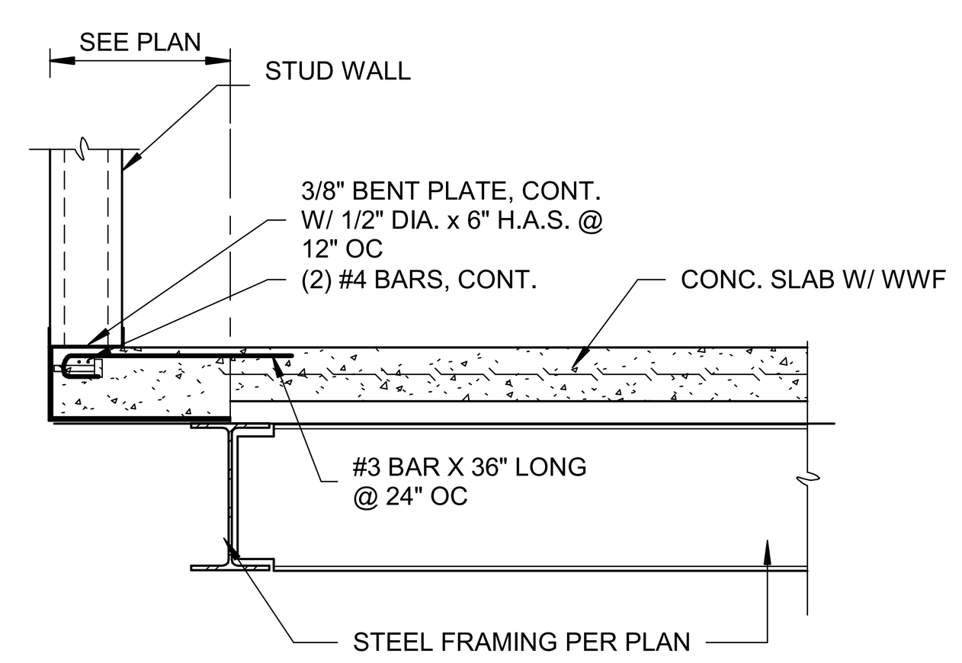
2 S-501



TYPICAL EOD CONNECTION W/ CMU

SCALE: 3/4" = 1'-0"

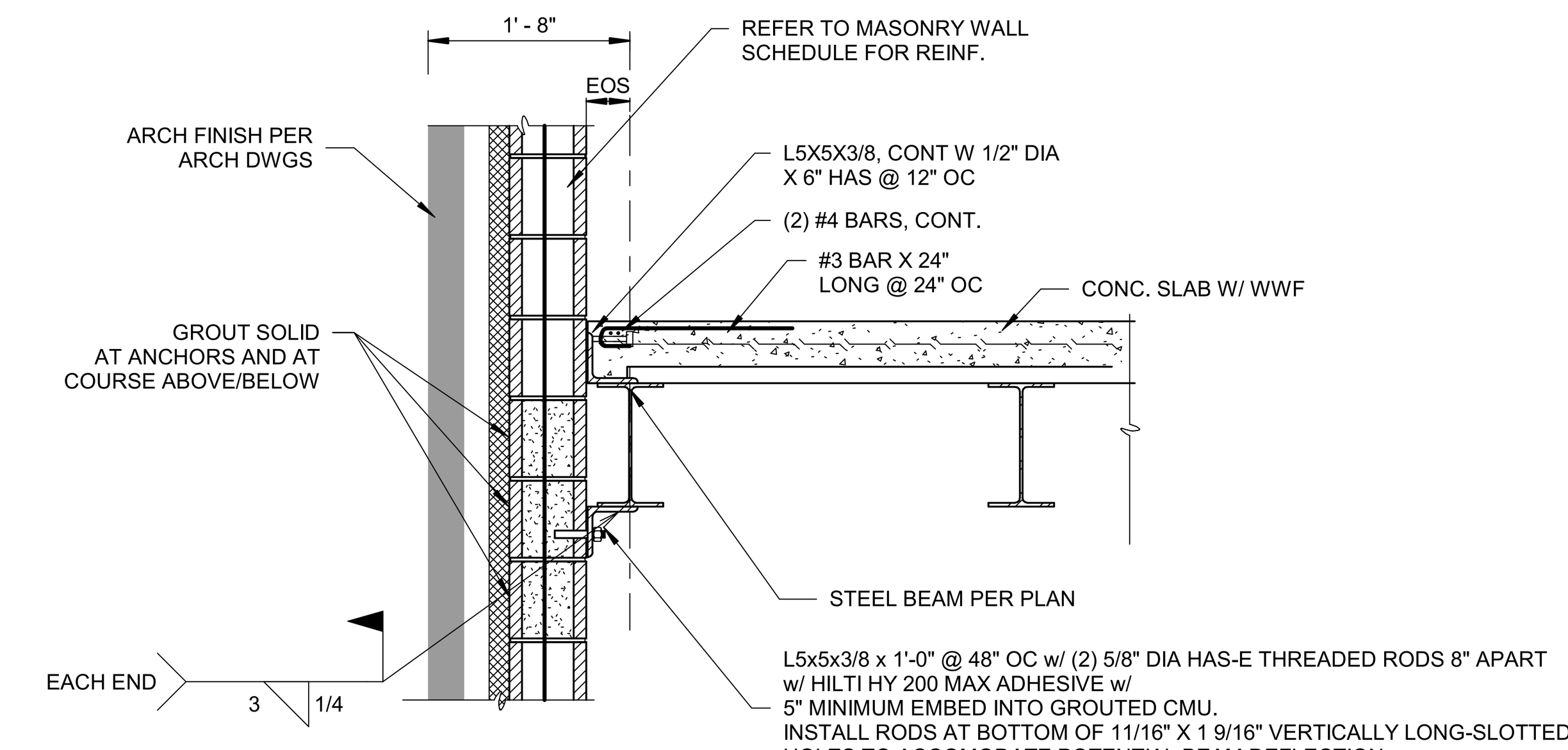
11 S-501



TYPICAL SLAB OVERHANG

SCALE: 3/4" = 1'-0"

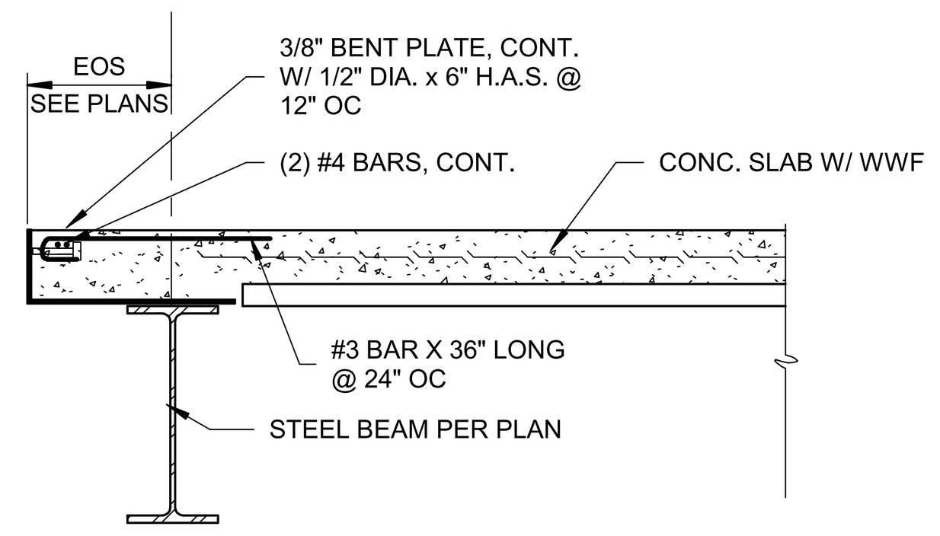
7 S-501



TYPICAL CMU-TO-STRUCTURE CONNECTION

SCALE: 3/4" = 1'-0"

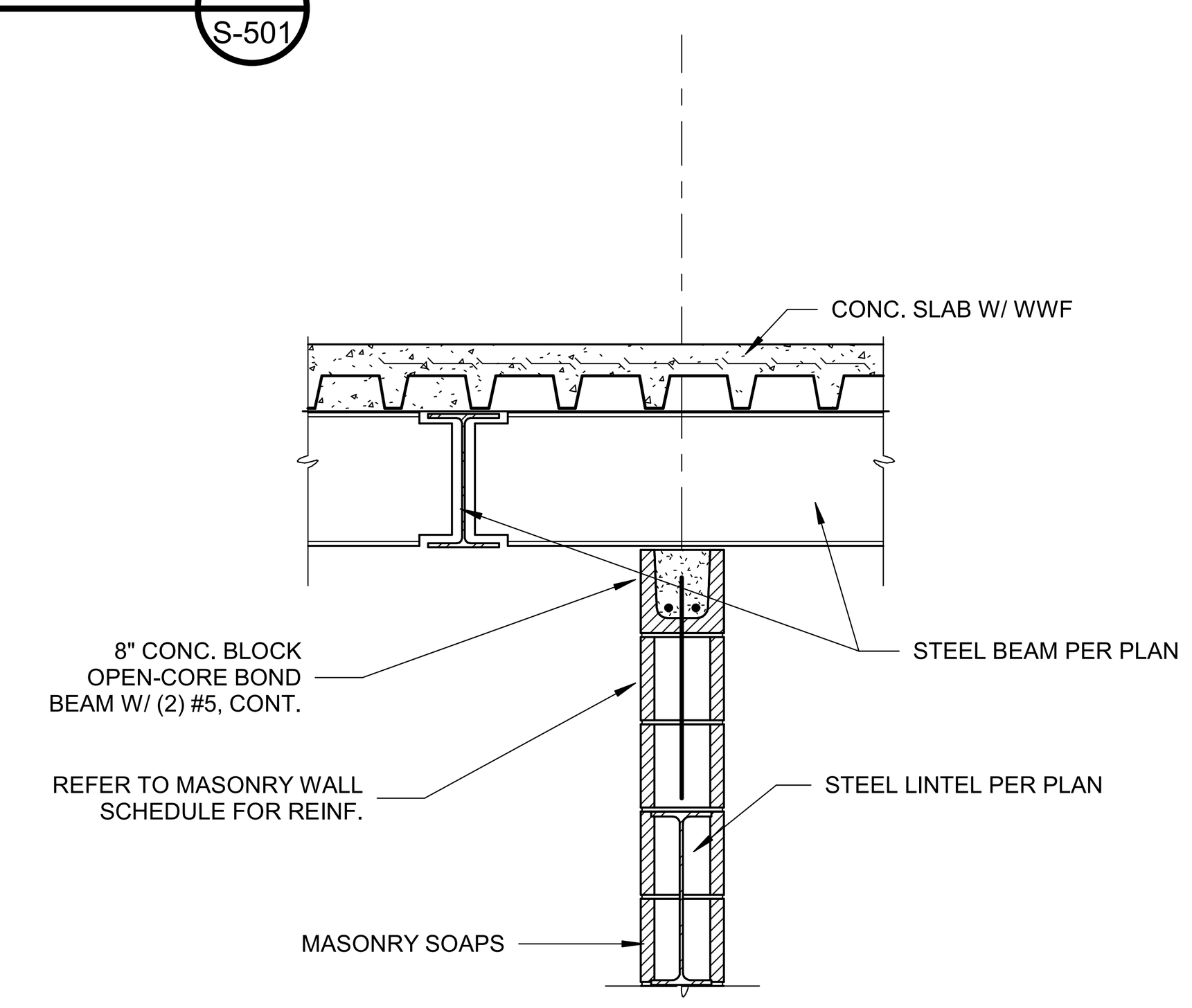
3 S-501



TYPICAL CMU-TO-STRUCTURE CONNECTION AT ROOF W/ BEAM INTO WALL

SCALE: 3/4" = 1'-0"

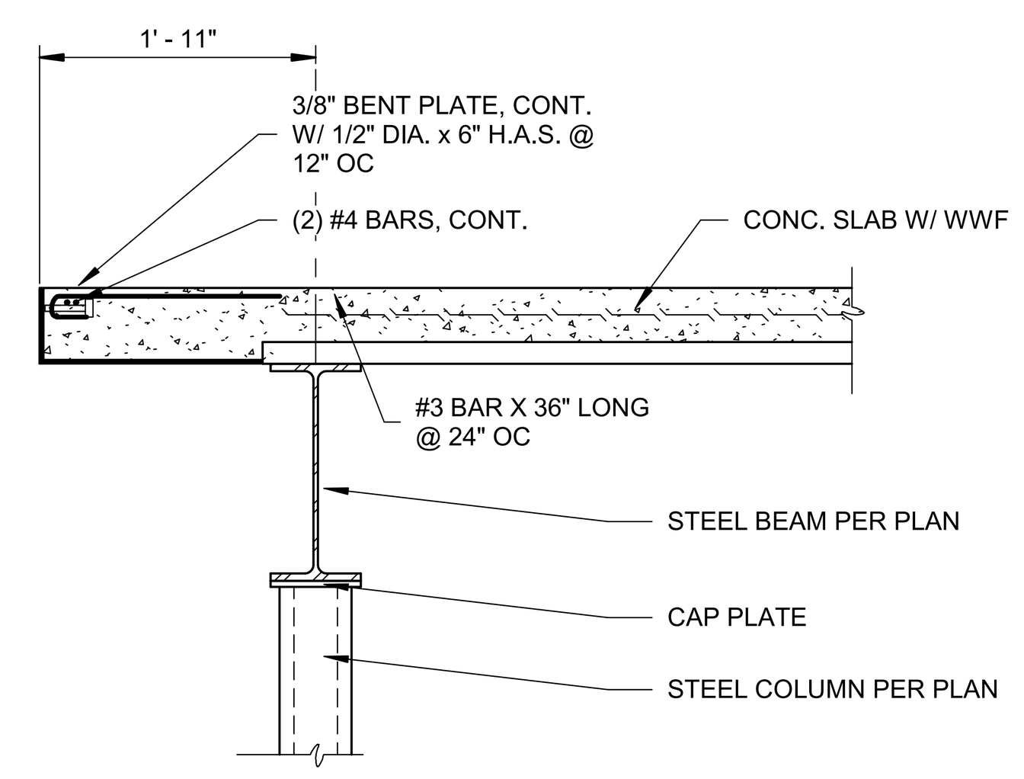
13 S-501



TYPICAL SLAB ON METAL DECK W/ CMU & LINTEL

SCALE: 3/4" = 1'-0"

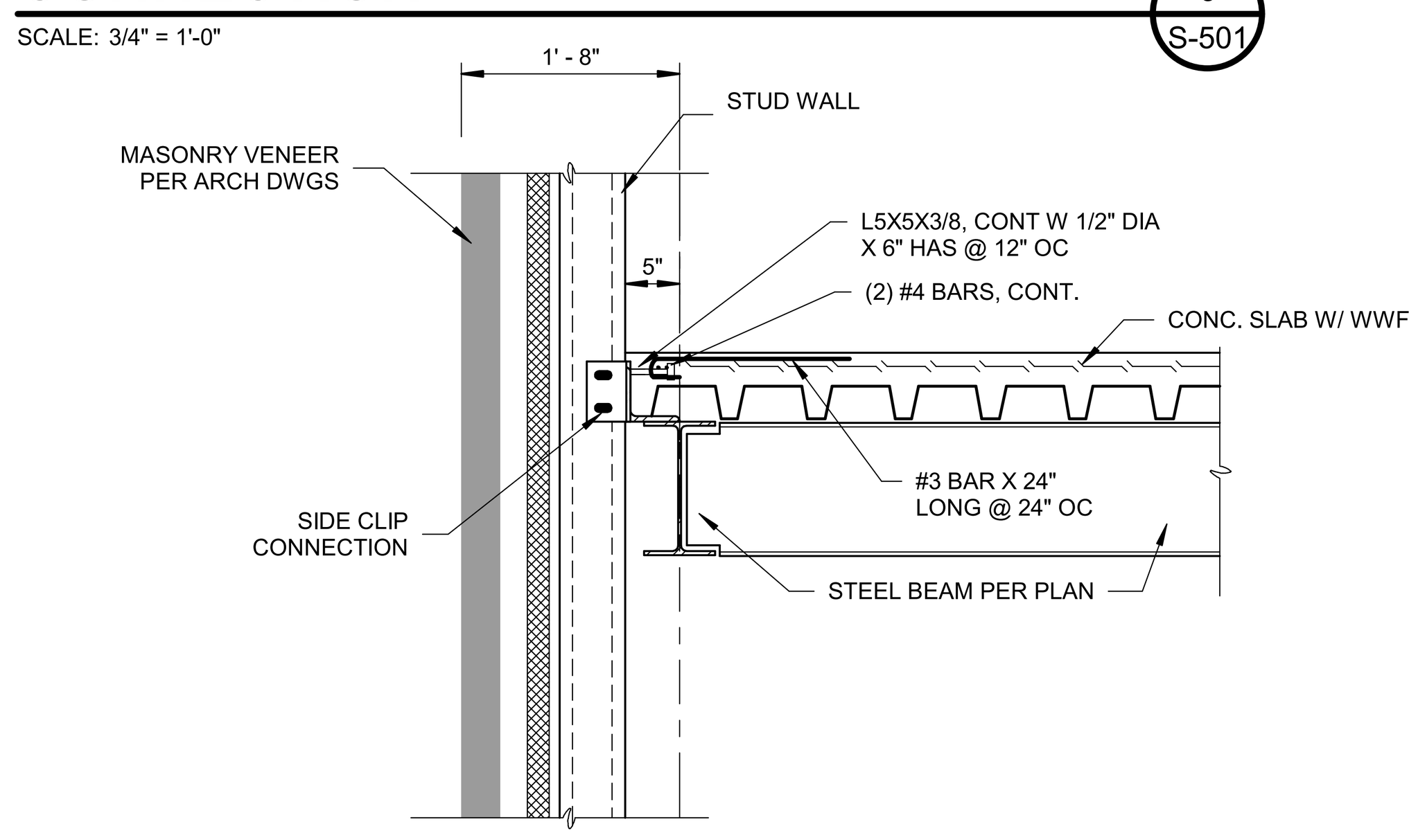
12 S-501



TYPICAL SLAB OVERHANG @ COLUMN TOP

SCALE: 3/4" = 1'-0"

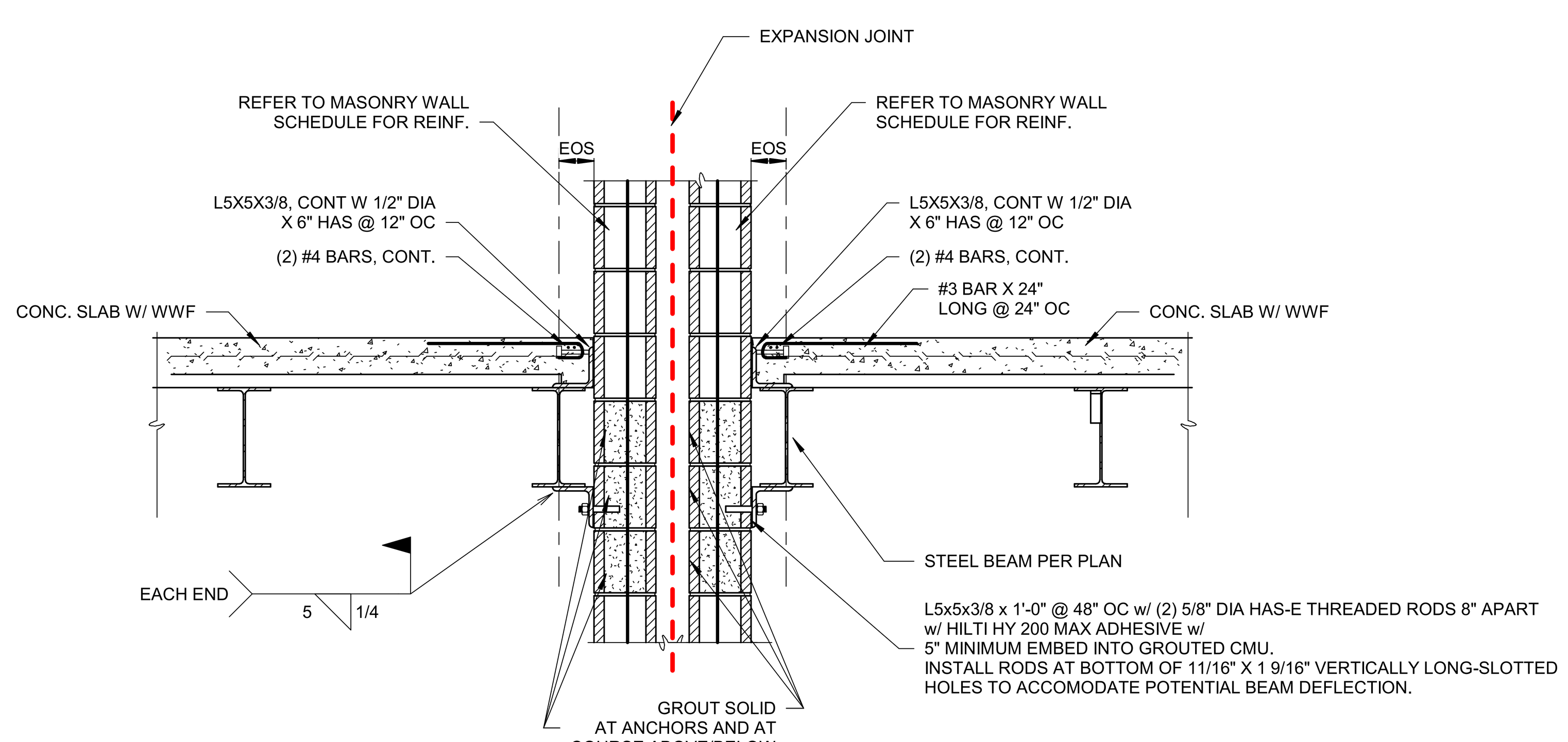
8 S-501



TYPICAL STUD WALL-TO-STRUCTURE CONNECTION

SCALE: 3/4" = 1'-0"

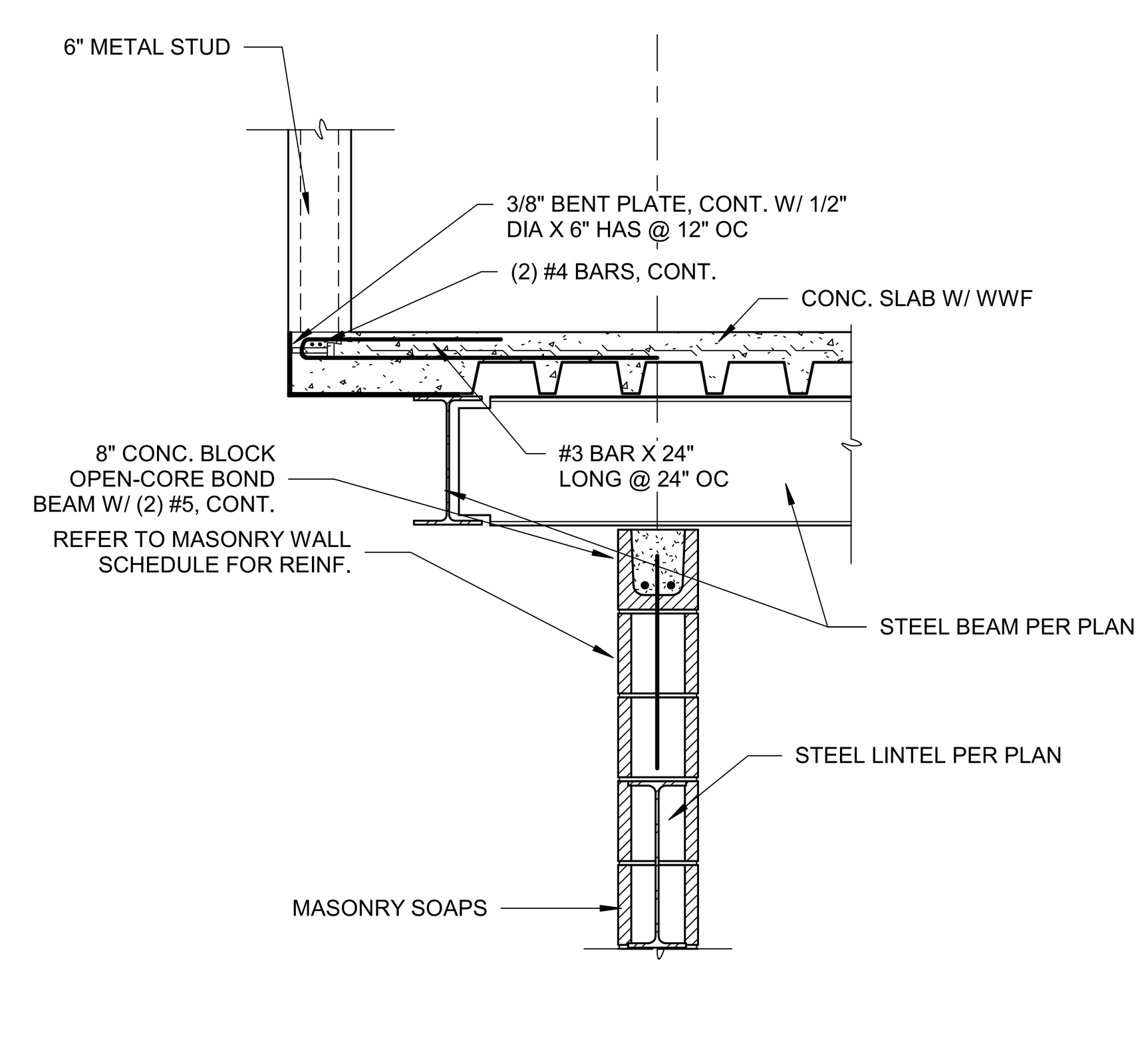
4 S-501



TYPICAL CMU-TO-STRUCTURE CONNECTION

SCALE: 3/4" = 1'-0"

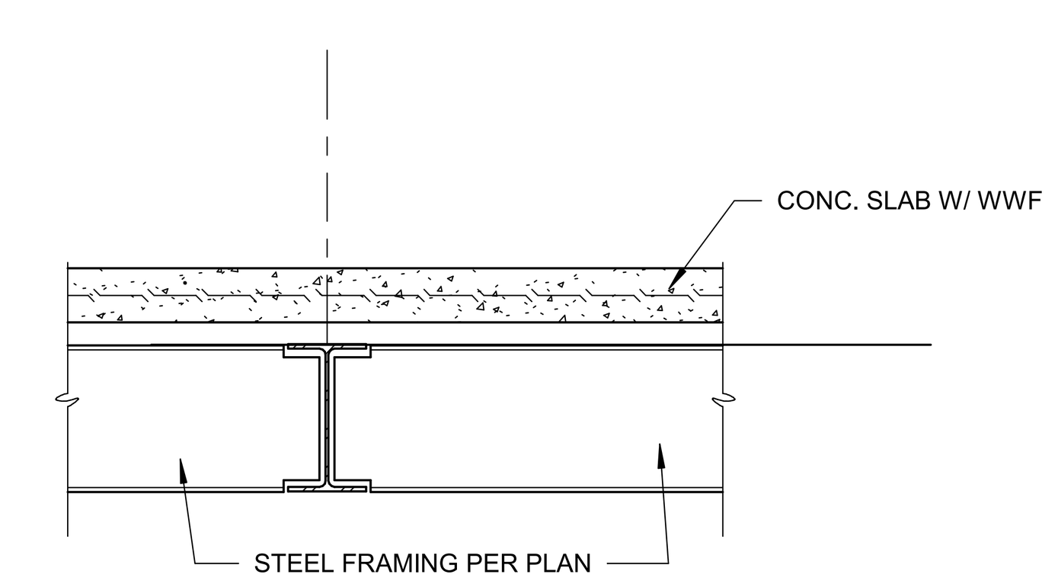
15 S-501



TYPICAL SLAB OVERHANG W/ CMU PARTION

SCALE: 3/4" = 1'-0"

9 S-501



TYPICAL SLAB ON METAL DECK

SCALE: 3/4" = 1'-0"

5 S-501

6 5 4 3 2 1

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Project No. 2021-141.NES
Project Date 05.11.2022
Produced JLL ECA

JUSTIN L. LEIBERING REGISTERED No. 11500368 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
001	Addendum 1	05.26.2022

10559 E. THOMPSON RD

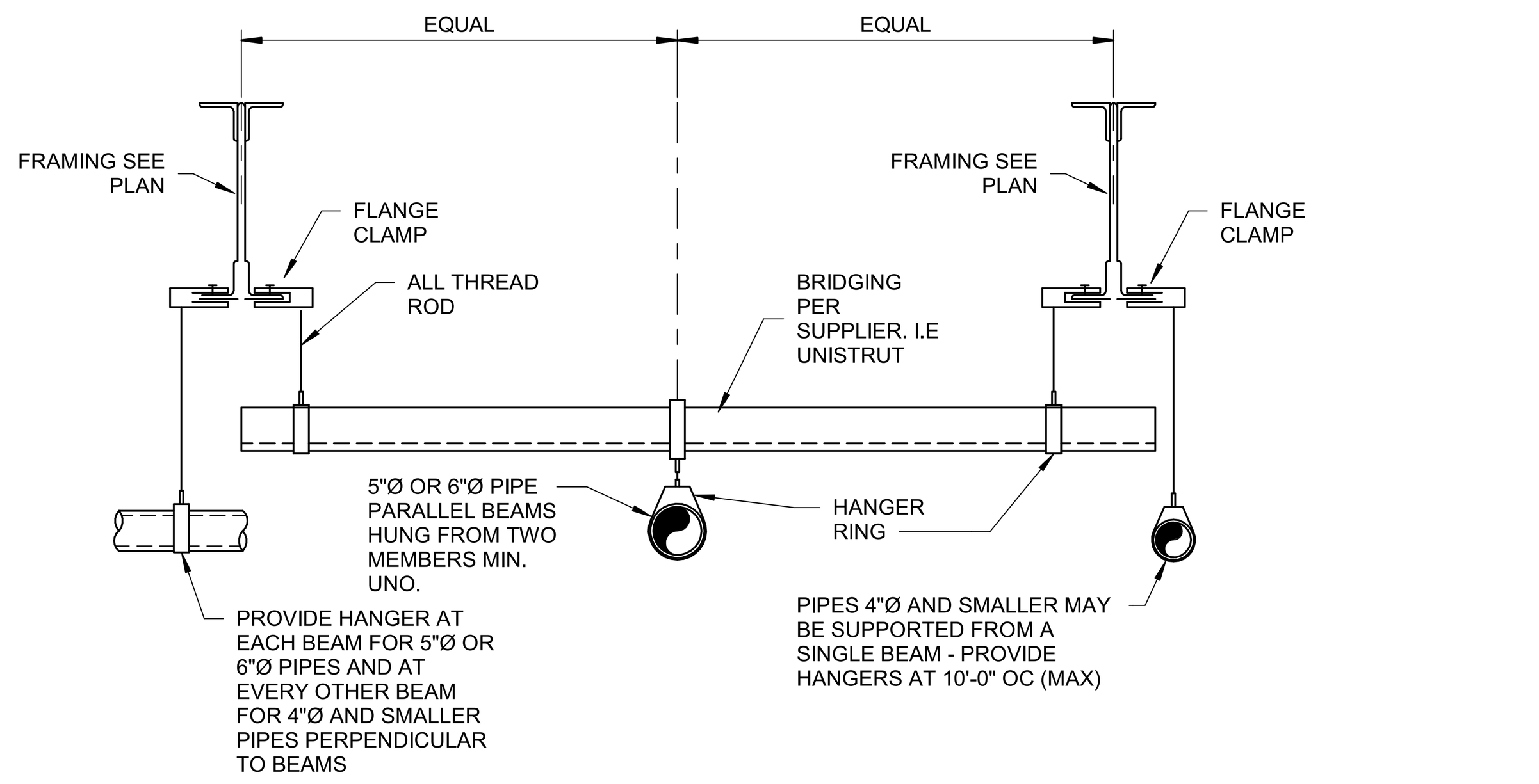
KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

TYPICAL FLOOR FRAMING SECTIONS

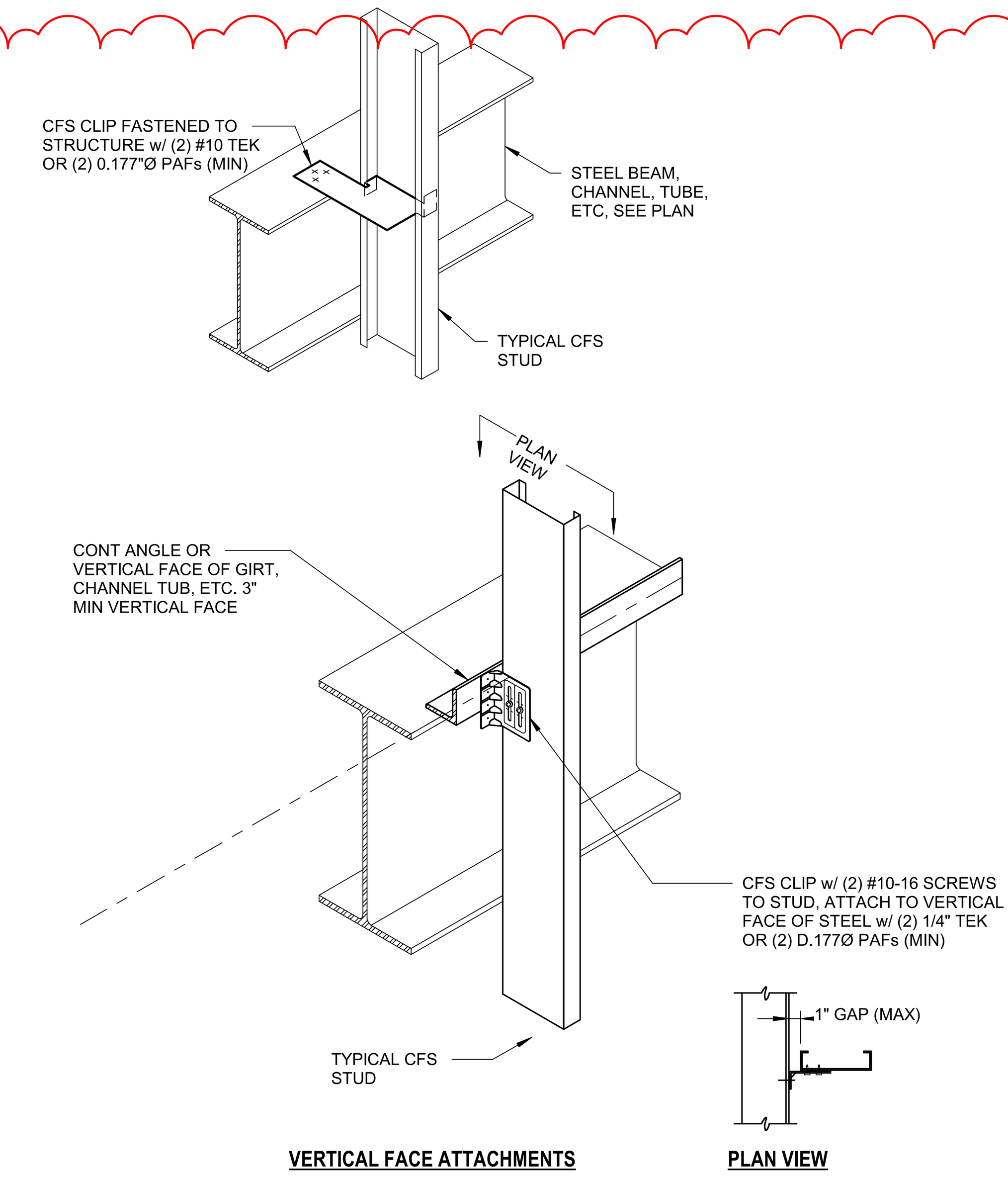
S-501



NOTES:
1. LOCATE HANGERS WITHIN 4" OF THE JOIST CHORD PANEL POINTS.
2. PIPES LARGER THAN 6" SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL. INCLUDE LOCATION OF PIPE AND PREFERRED HANGING DETAIL.
3. DESIGN OF LATERAL BRACING FOR SUSPENDED PIPES IN SEISMIC AREAS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.
4. SPRINKLER PIPES AND MECHANICAL SUSPENDED IN CONFORMANCE WITH THIS DETAIL WILL LIMIT THE SPRINKLER SYSTEM WEIGHT TO 4.0 PSF EQUIVALENT DISTRIBUTED LOAD.

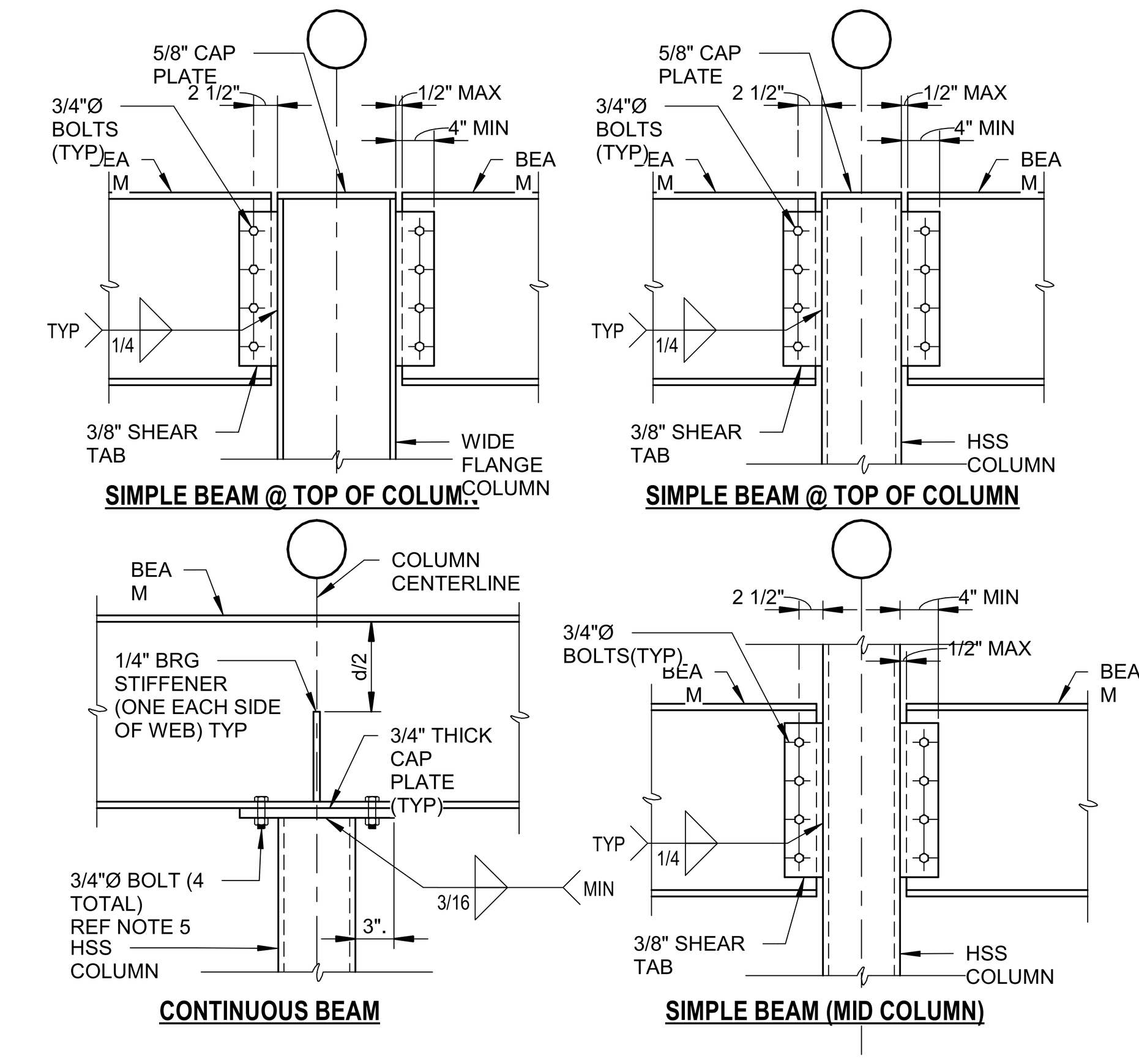
TYP PIPE HANGER DETAIL

SCALE: 3/4" = 1'-0" — 8 / S-502



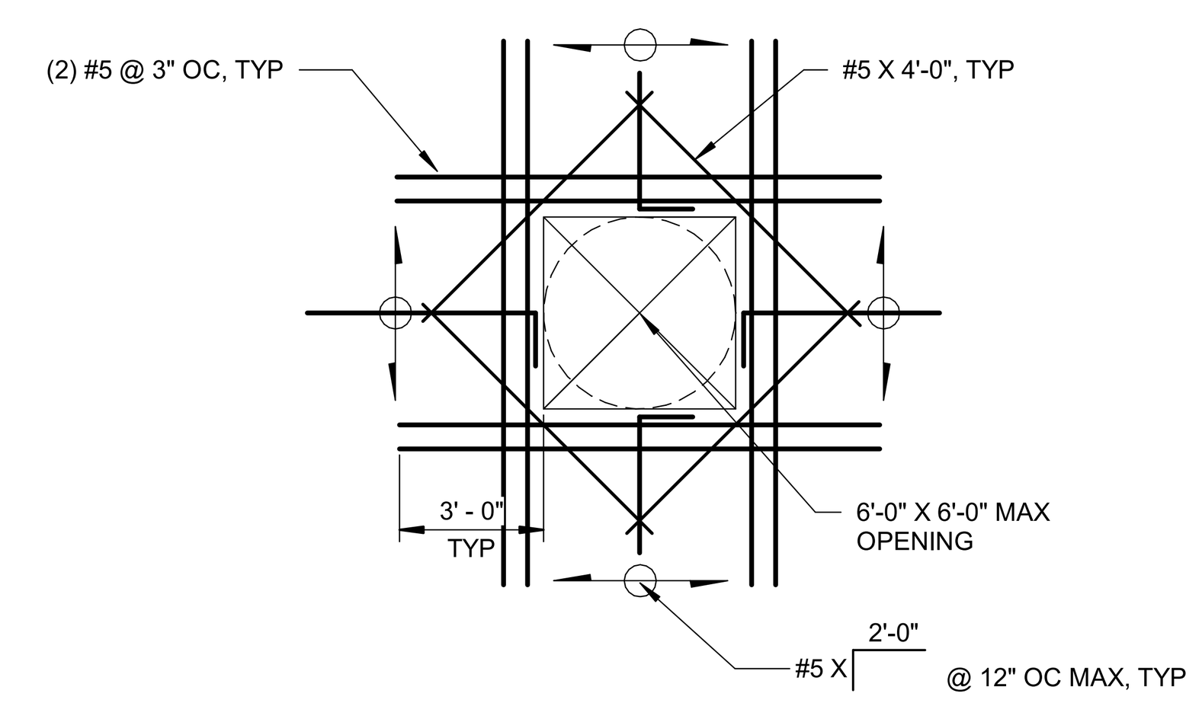
TYP CFS SLIDE CLIPS

SCALE: 3/4" = 1'-0" — 5 / S-502



TYP STL BEAM CONNECTIONS

SCALE: 3/4" = 1'-0" — 1 / S-502



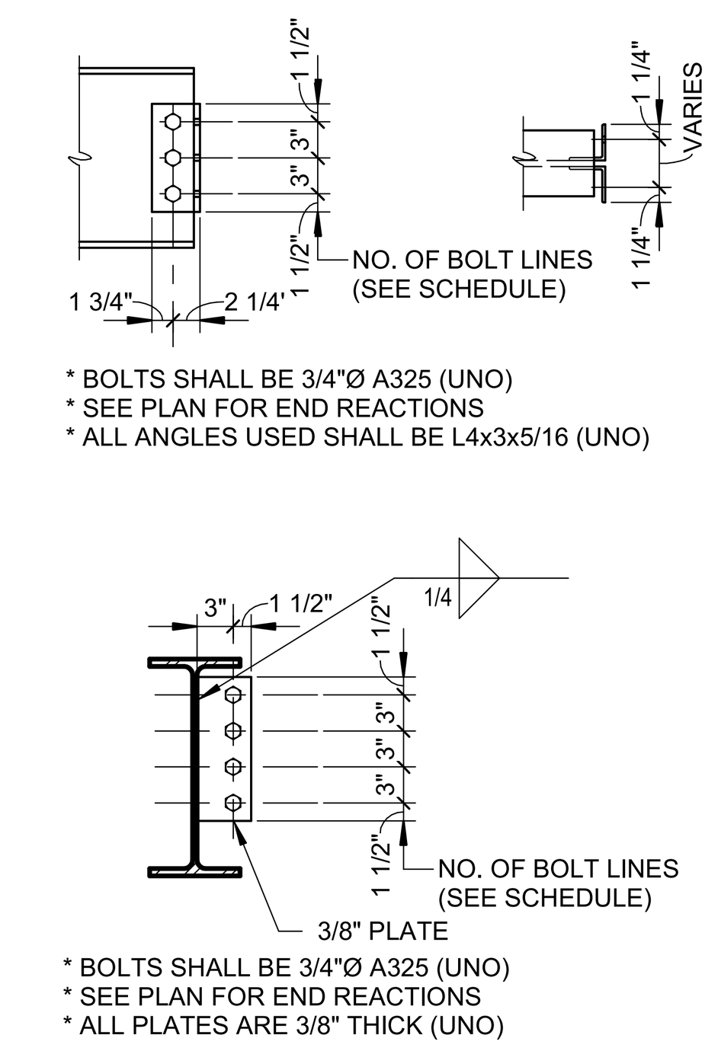
NOTES:
1. PROVIDE REINFORCEMENT SHOWN AT EACH LAYER OF TYPICAL SLAB REINFORCEMENT, UNO.
2. FOR CONDITIONS OTHER THAN SHOWN, CONTACT STRUCTURAL ENGINEER.

TYPICAL FLOOR OPENING REINFORCING

SCALE: 1/4" = 1'-0" — 6 / S-502

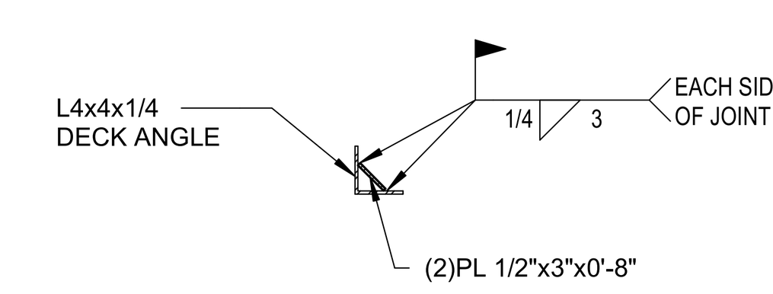
MINIMUM NUMBER OF BOLTS REQUIRED FOR SHEAR CONNECTIONS

BEAM DEPTH	REQUIRED # OF ROWS
W8 - W12	2
W14 - W18	3
W21 - W24	4
W27 - W30	5
W33 - W40	6
W44	7



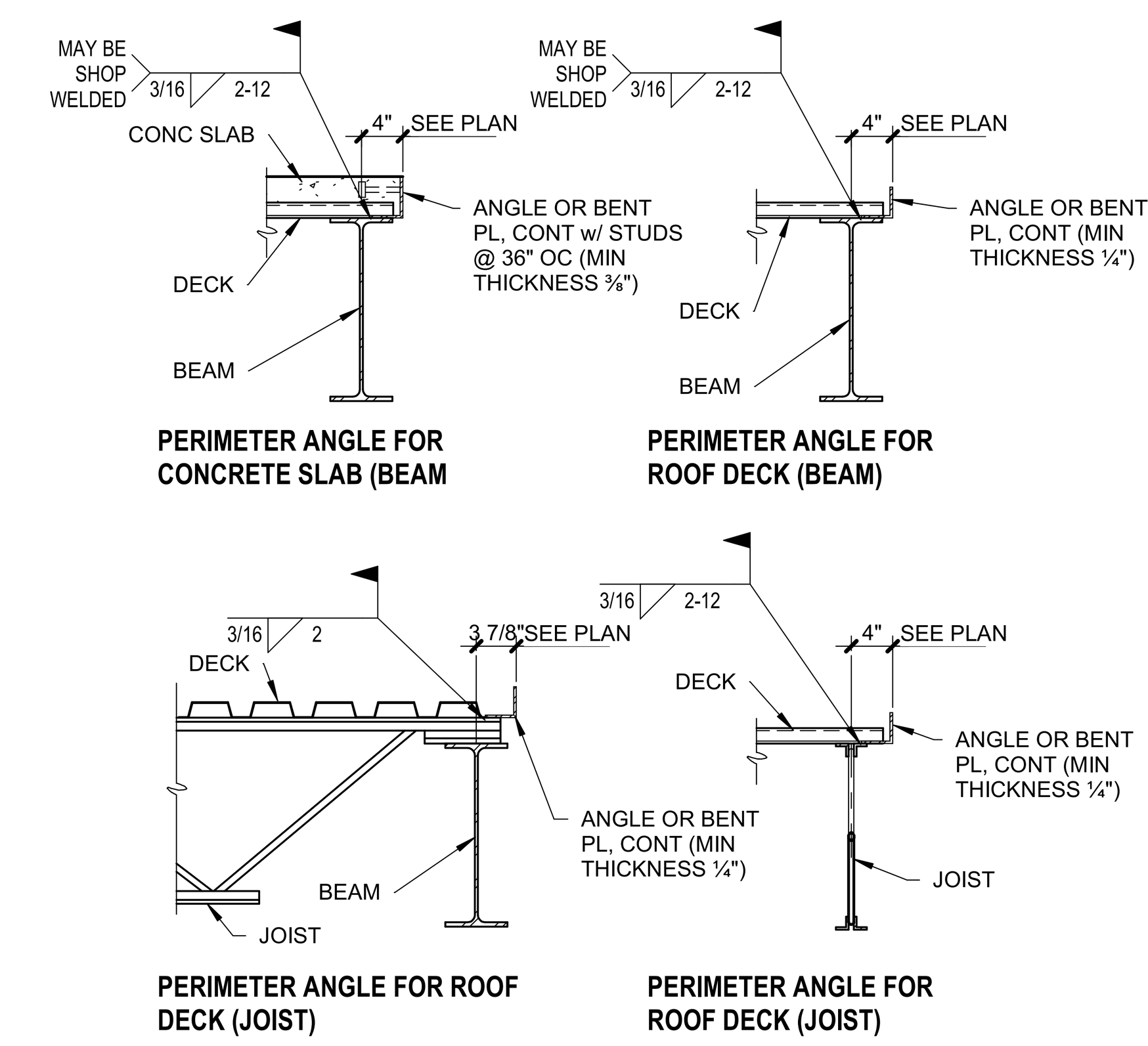
TYP STL BEAM CONNECTION

SCALE: 3/4" = 1'-0" — 2 / S-502



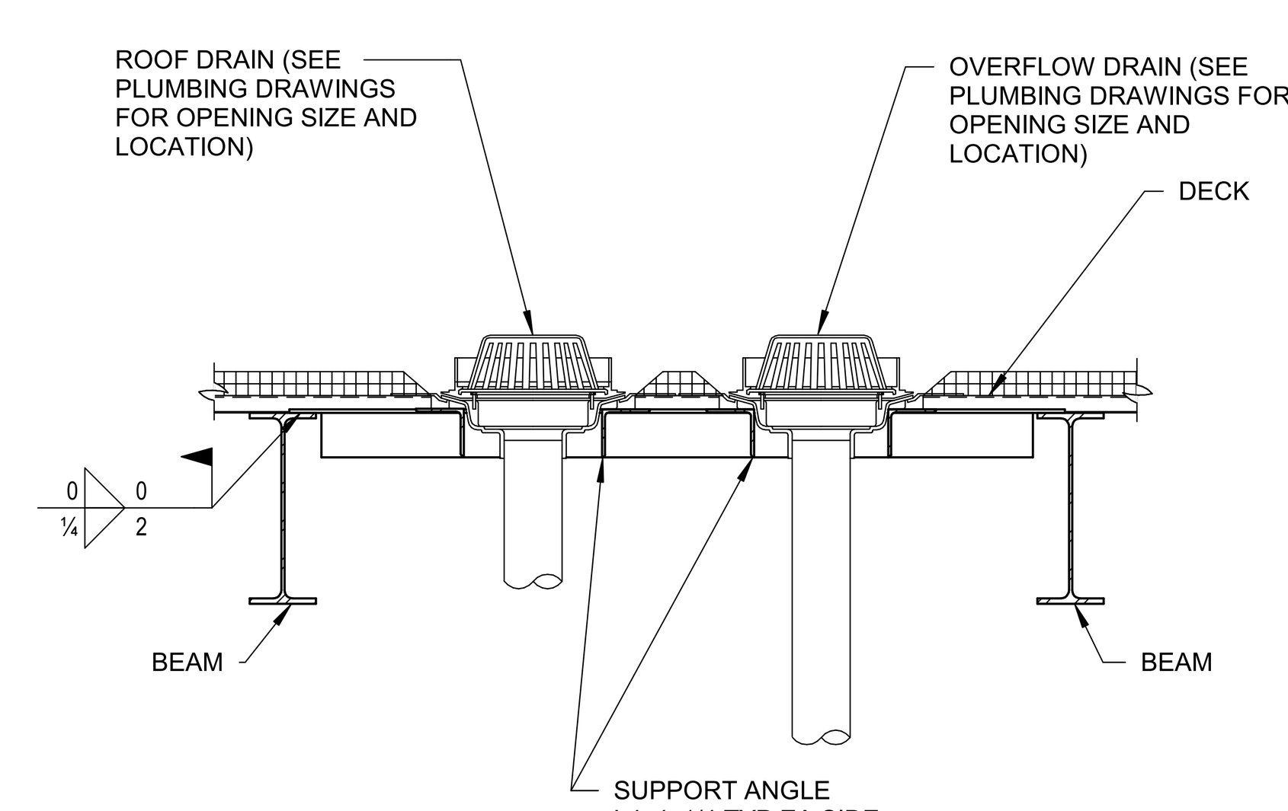
TYP DECK ANGLE SPLICE

SCALE: 3/4" = 1'-0" — 3 / S-502



TYP PERIMETER ANGLE CONN

SCALE: 3/4" = 1'-0" — 7 / S-502



NOTES:
1. COORDINATE QUANTITY AND LOCATION OF ALL ROOF DRAINS WITH PLUMBING AND ARCHITECTURAL DRAWINGS.
2. COORDINATE ROOF DRAIN ASSEMBLIES WITH PLUMBING CONTRACTOR AND PROVIDE AND INSTALL ALL STEEL FRAMING (AND GALVANIZED METAL SUMP PANS IF REQUIRED) AS NECESSARY FOR COMPLETE SUPPORT OF ALL ROOF DRAINS.

SECTION @ ROOF DRAIN

SCALE: 3/4" = 1'-0" — 4 / S-502

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Project Date 05.11.2022
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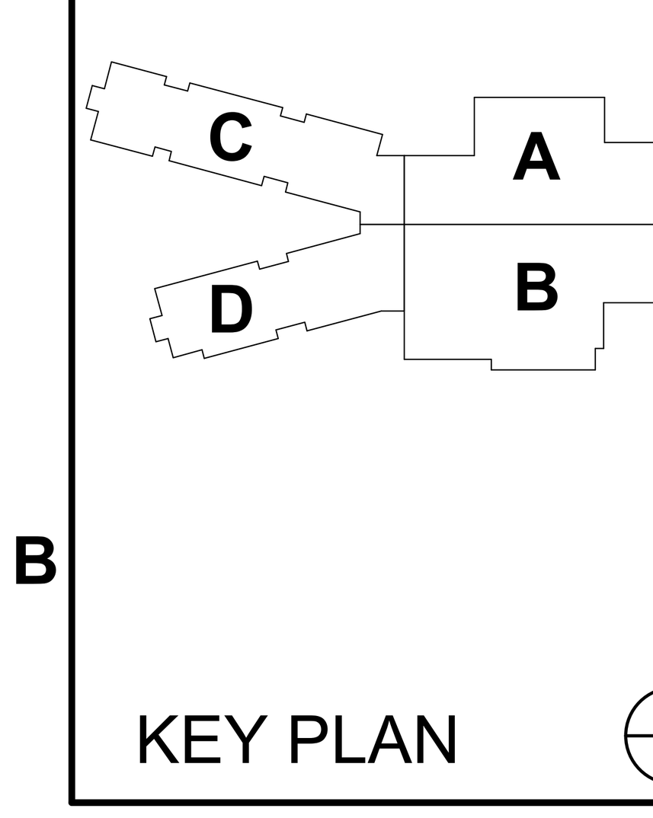
JUSTIN L. LEIBERING REGISTERED No. 11500368 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
001	Addendum 1	05.26.2022

10559 E. THOMPSON RD



KEY PLAN

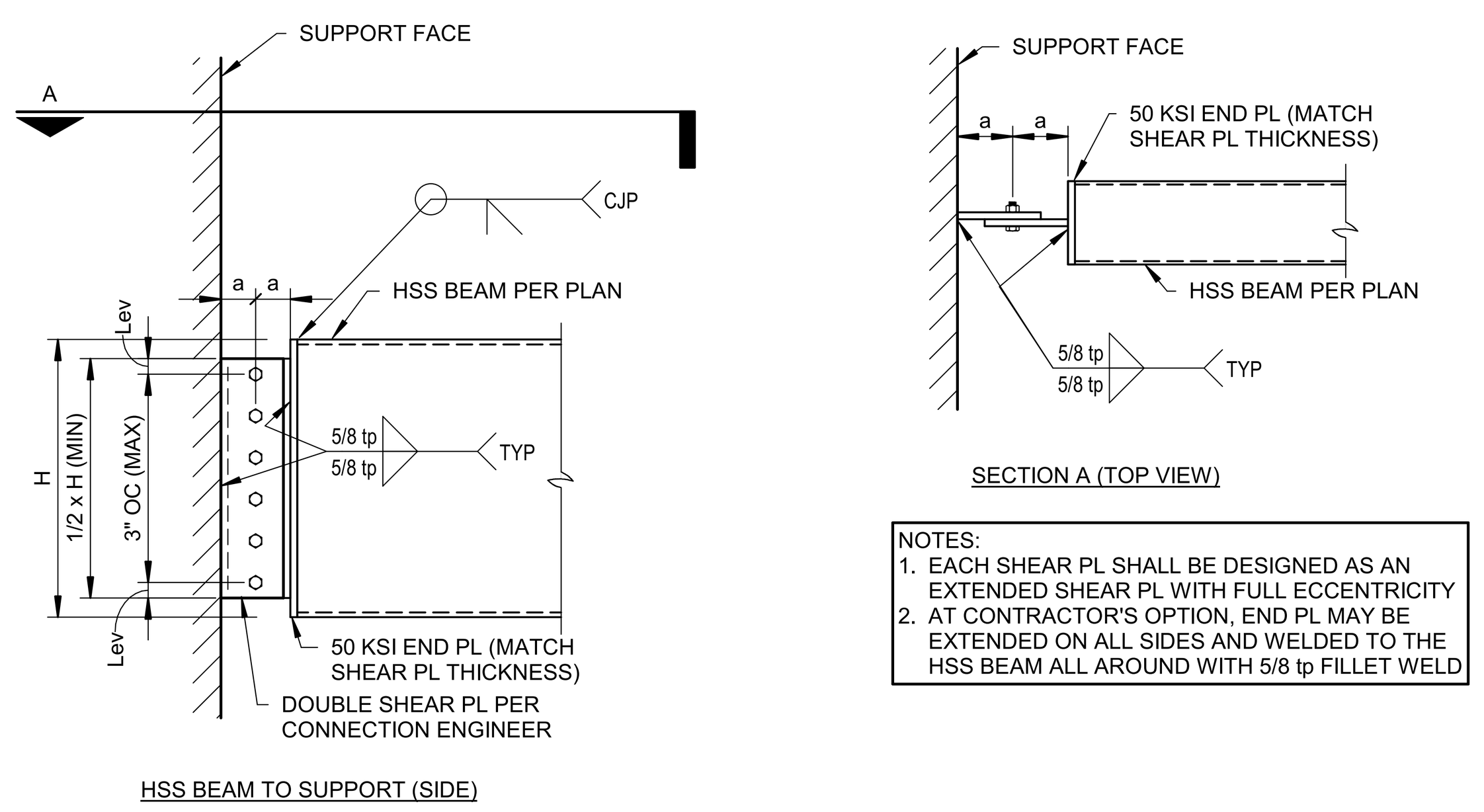
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

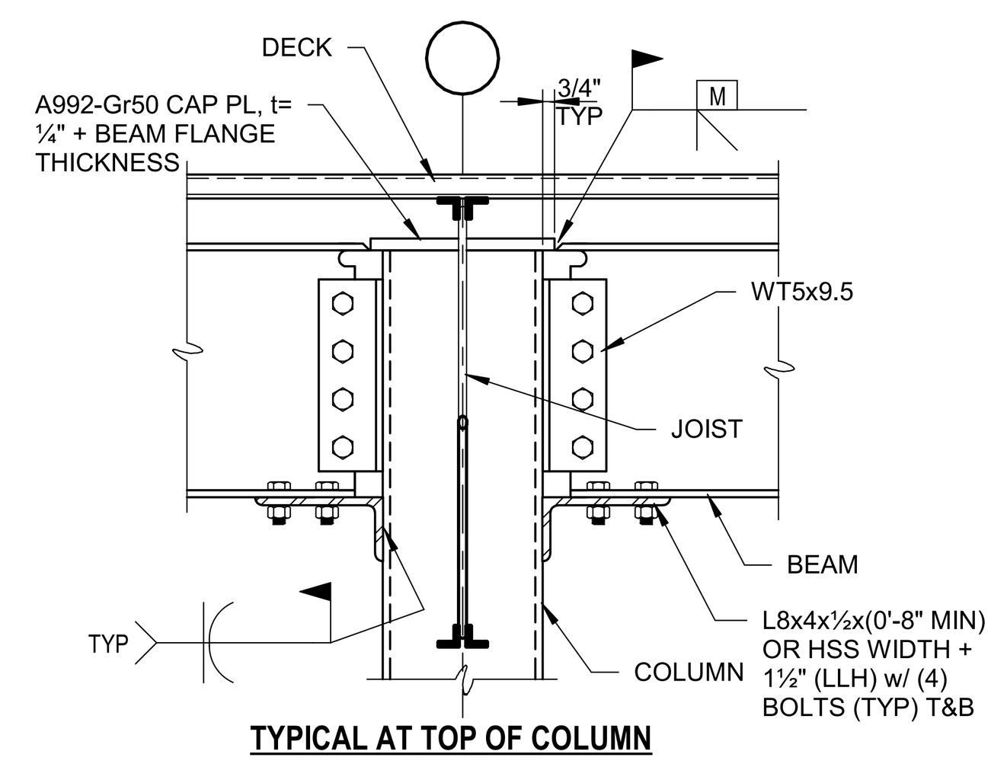
TYPICAL FLOOR FRAMING DETAILS

S-502

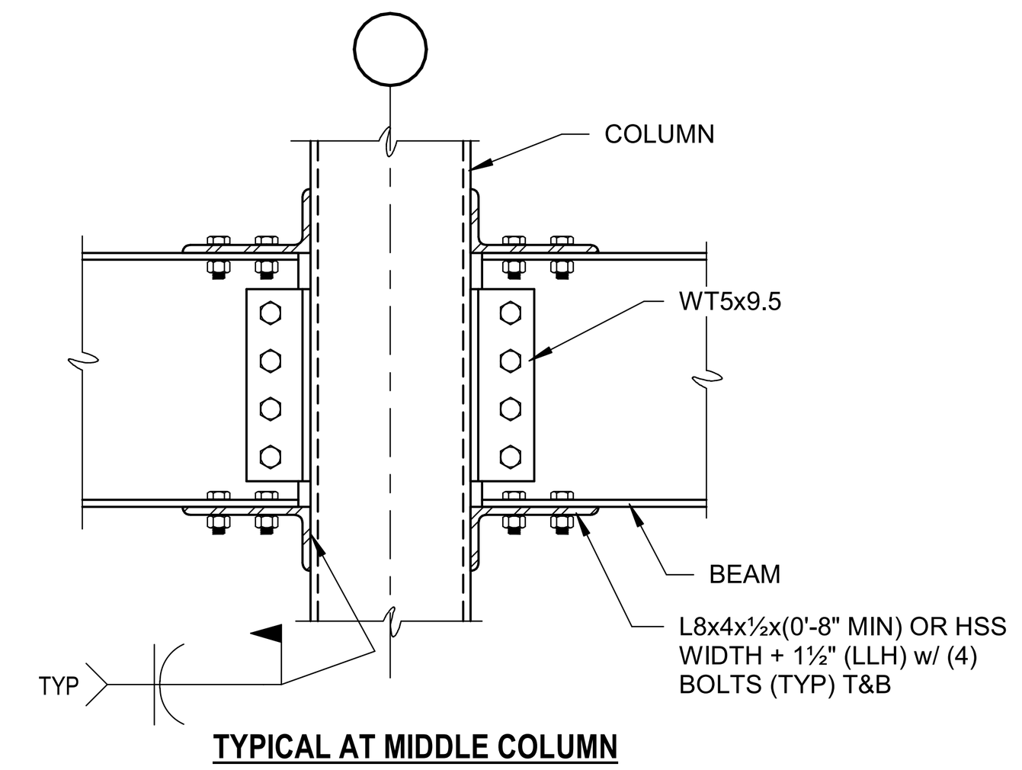


NOTES:
1. EACH SHEAR PL SHALL BE DESIGNED AS AN EXTENDED SHEAR PL WITH FULL ECCENTRICITY
2. AT CONTRACTOR'S OPTION, END PL MAY BE EXTENDED ON ALL SIDES AND WELDED TO THE HSS BEAM ALL AROUND WITH 5/8 tp FILLET WELD

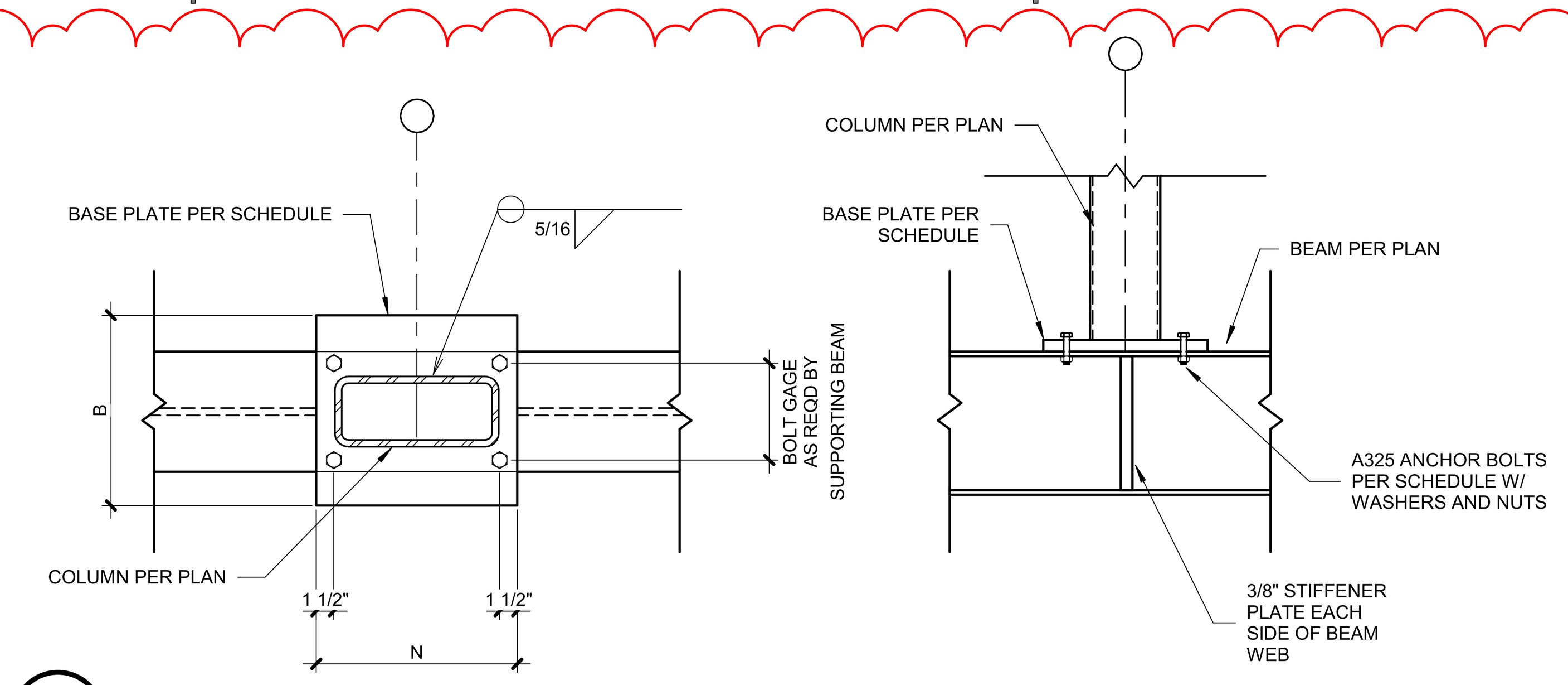
TYPICAL HSS BEAM SHEAR PLATE CONNECTION
10 / S-503
SCALE: 1" = 1'-0"



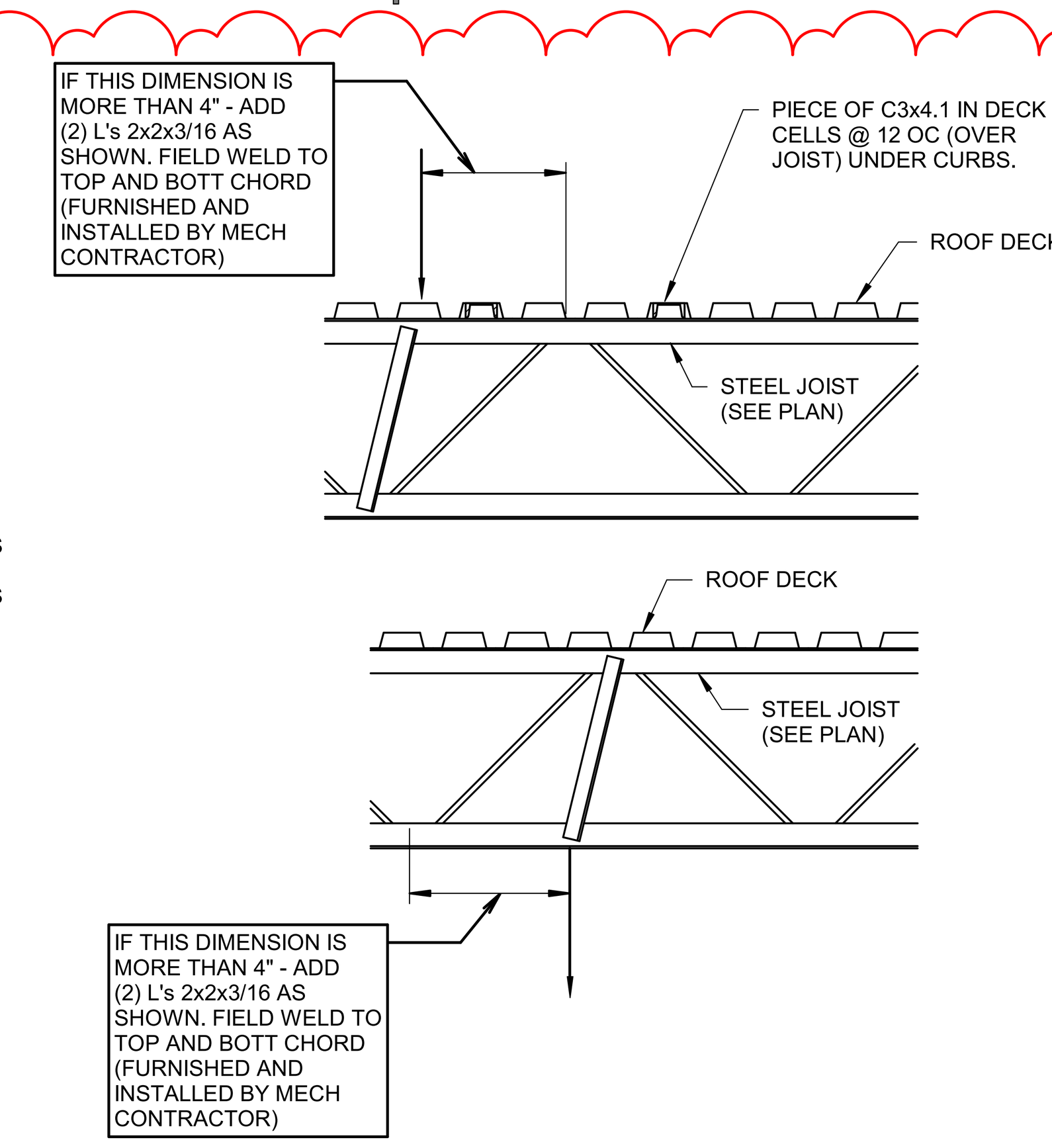
TYP HSS COL MOMENT CONN
7 / S-503
SCALE: 1" = 1'-0"



TYP W FLANGE COL MOMENT CONN
8 / S-503
SCALE: 1" = 1'-0"



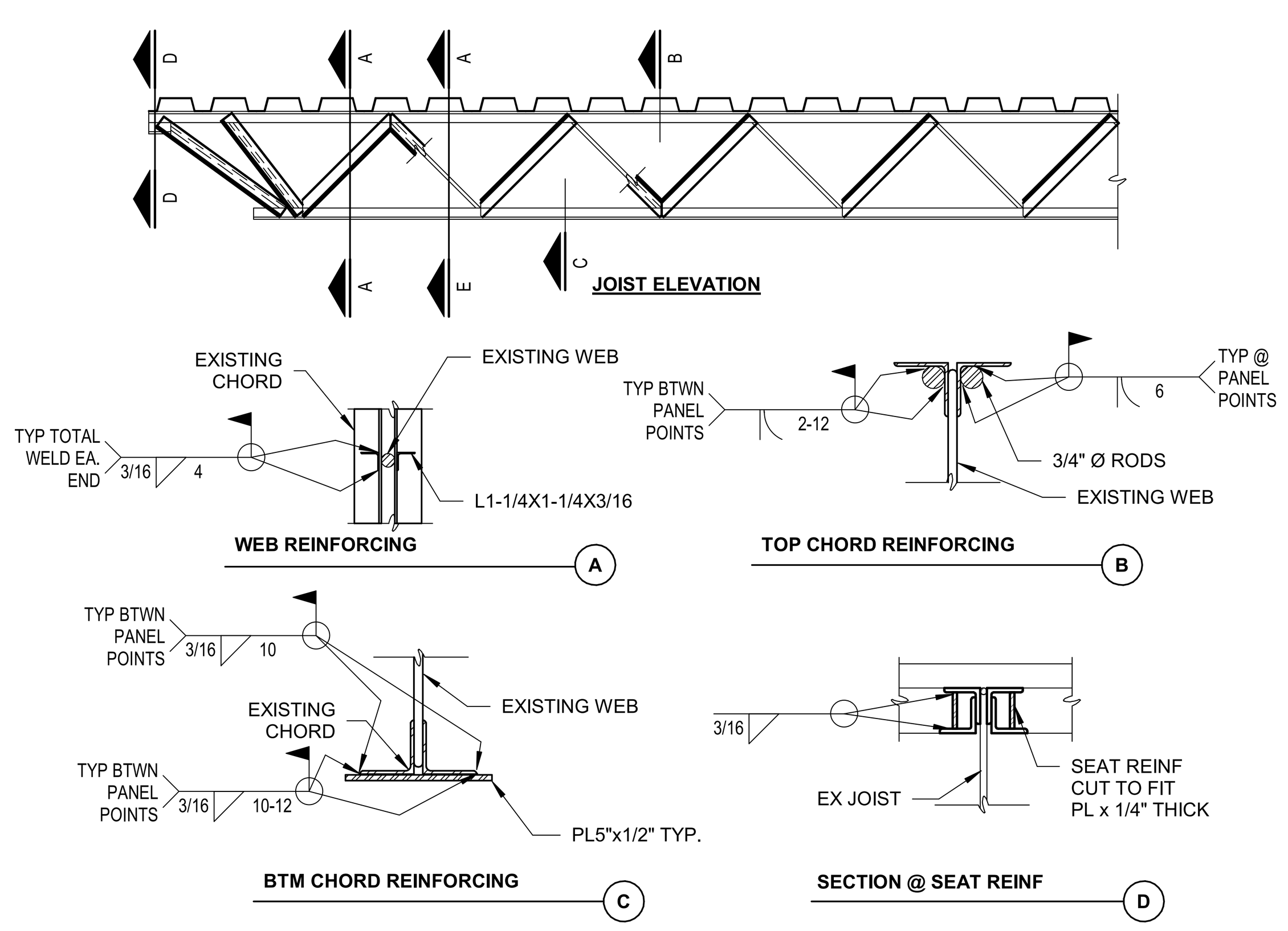
TYPICAL HSS COLUMN BASE DETAIL ON BEAM
4 / S-503
SCALE: 1" = 1'-0"



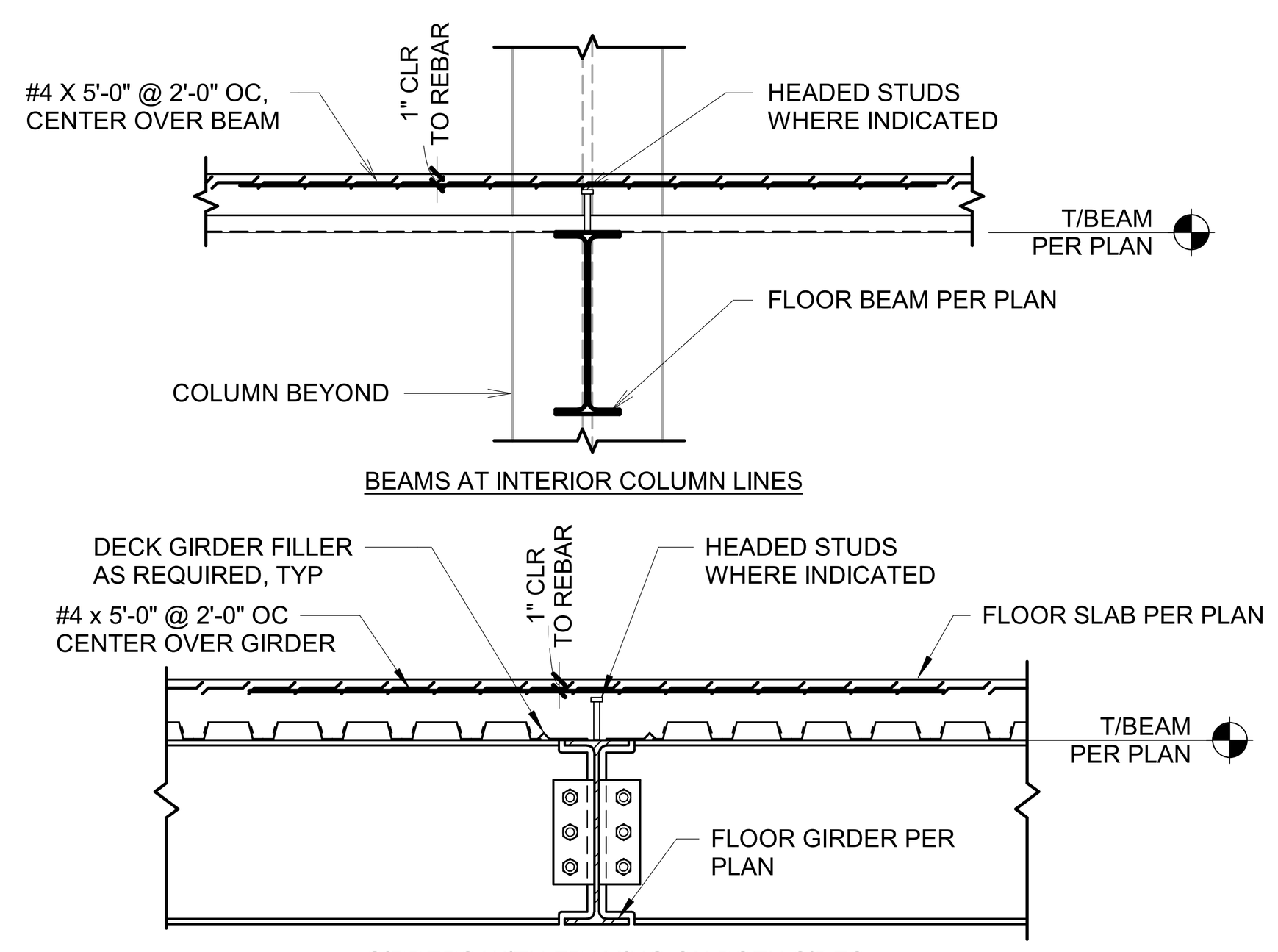
TYP. JOIST REINFORCING DETAIL
1 / S-503
SCALE: 3/4" = 1'-0"

CONTRACTOR NOTE:
EXISTING JOISTS ARE ASSUMED TO HAVE HOT-ROLLED ANGLE CHORDS AND CONT BENT ROD WEBS FIELD VERIFY THESE CONDITIONS BEFORE BIDDING IF DIFFERENT THAN ASSUMED, NOTIFY ENGINEER IMMEDIATELY

1. SHORING IS NOT REQUIRED BEFORE PLACING REINFORCING.
2. REINFORCEMENT REQUIRED FULL LENGTH

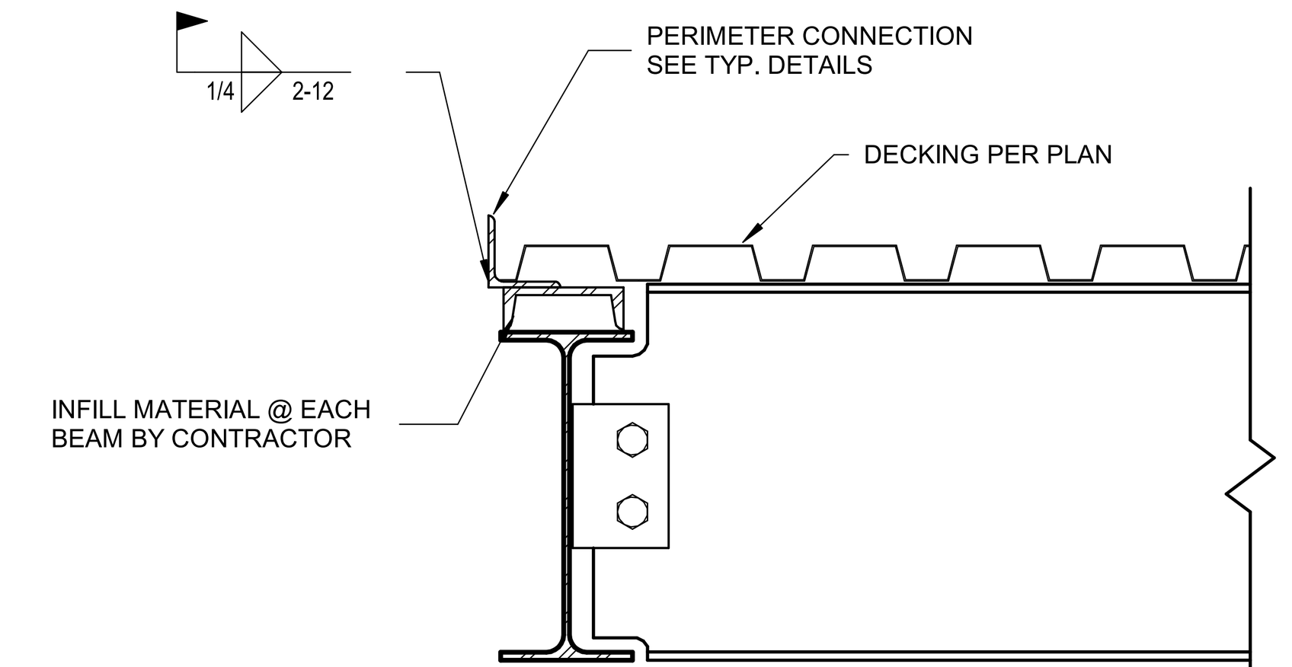


TYP JOIST REINFORCING
11 / S-503
SCALE: 3/4" = 1'-0"

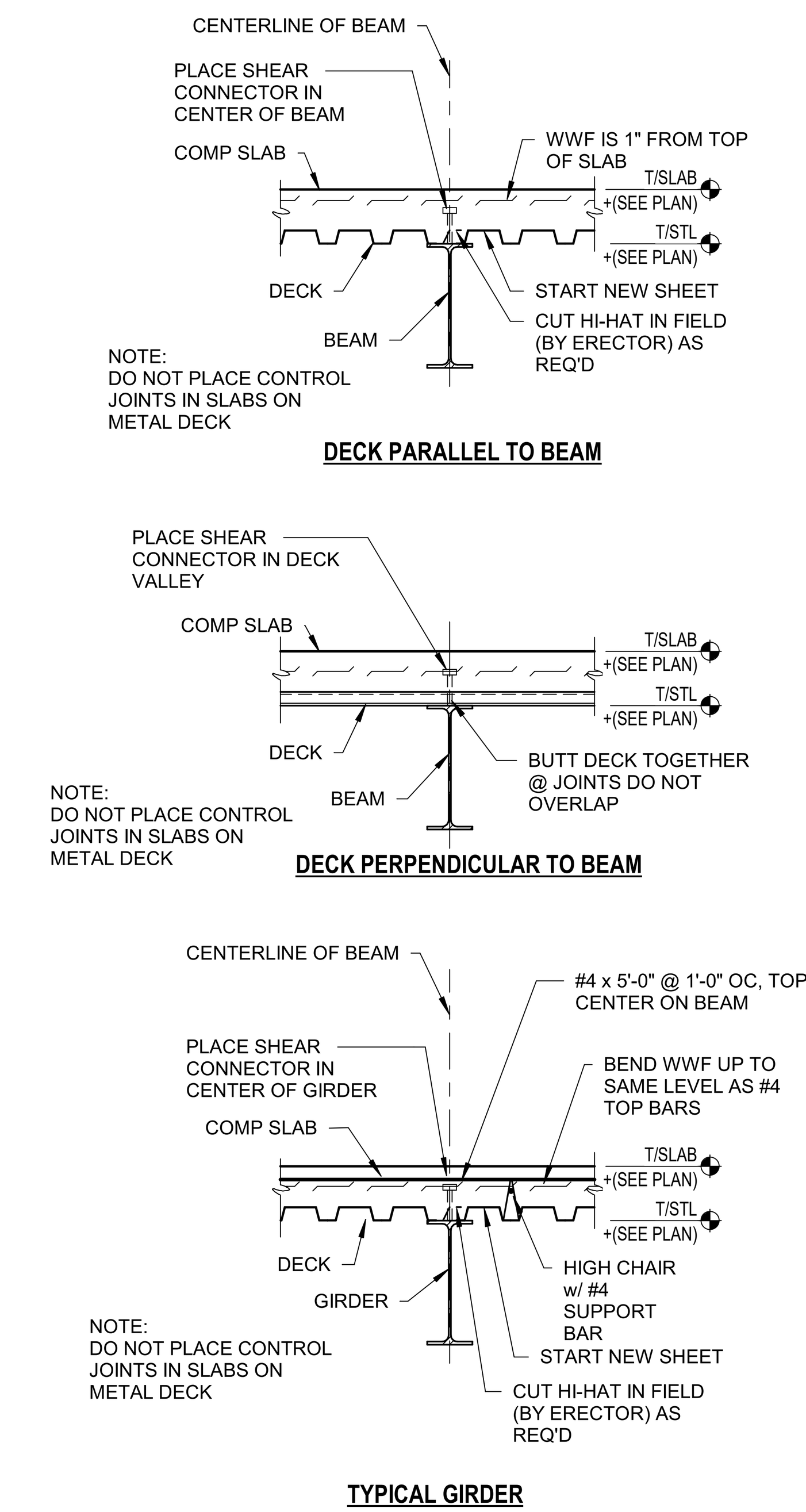


NOTES:
1. REINFORCEMENT SHOWN ON THIS DETAIL IS IN ADDITION TO ALL OTHER INDICATED REINFORCEMENT, UNO.
2. CONCRETE CONTRACTOR SHALL SECURELY CHAIR ALL REINFORCEMENT PRIOR TO CONCRETE PLACEMENT AND MAINTAIN PROPER REINFORCEMENT POSITIONING THROUGHOUT THE CONCRETE PLACEMENT.

TYPICAL SLAB ON METAL DECK REINFORCING OVER INTERIOR GIRDERS AND BEAMS AT INTERIOR COLUMN LINES
9 / S-503
SCALE: 3/4" = 1'-0"



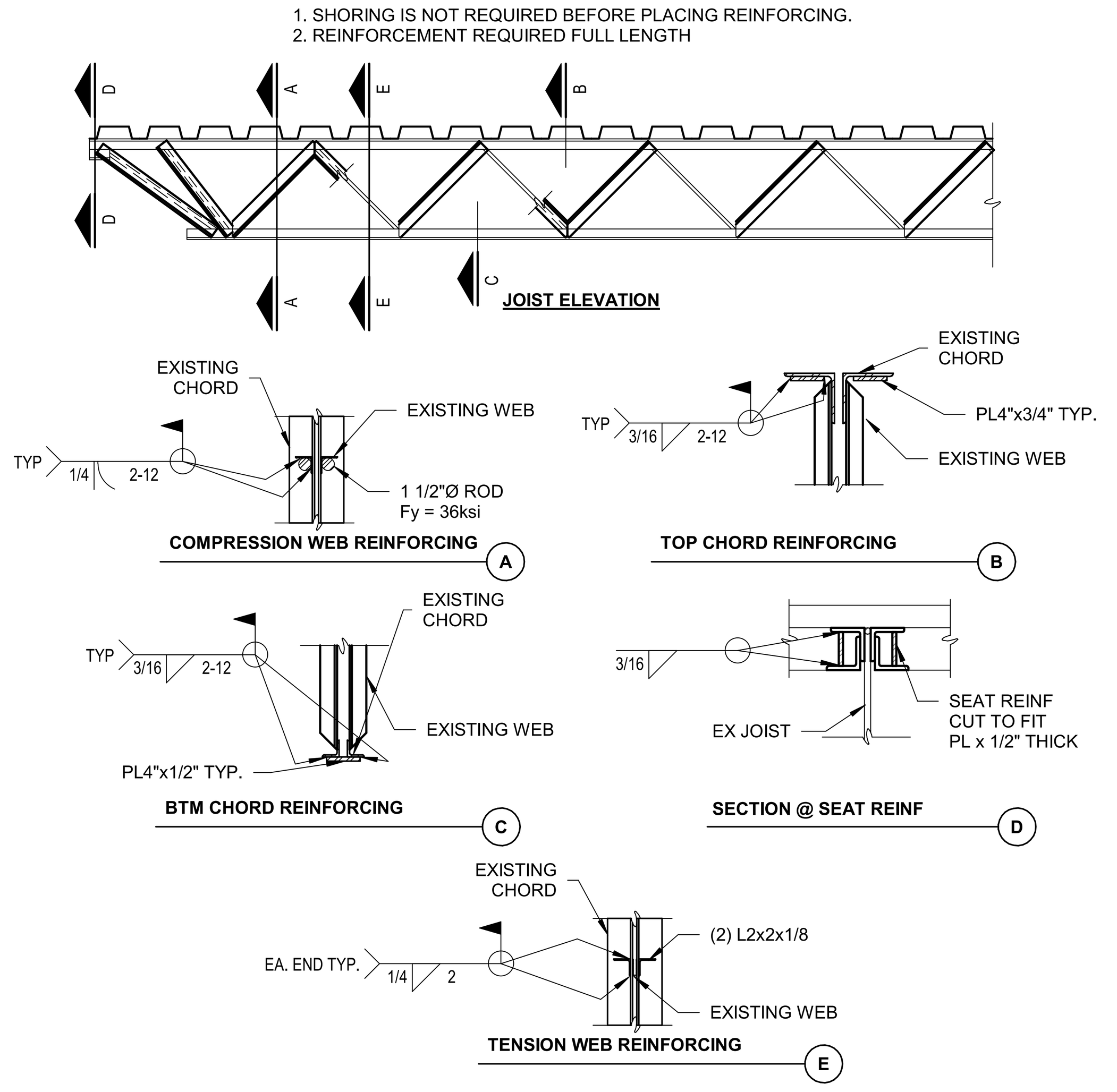
TYP BEAM FRAMING FOR BEAM INLINE W/ JOISTS
5 / S-503
SCALE: 1 1/2" = 1'-0"



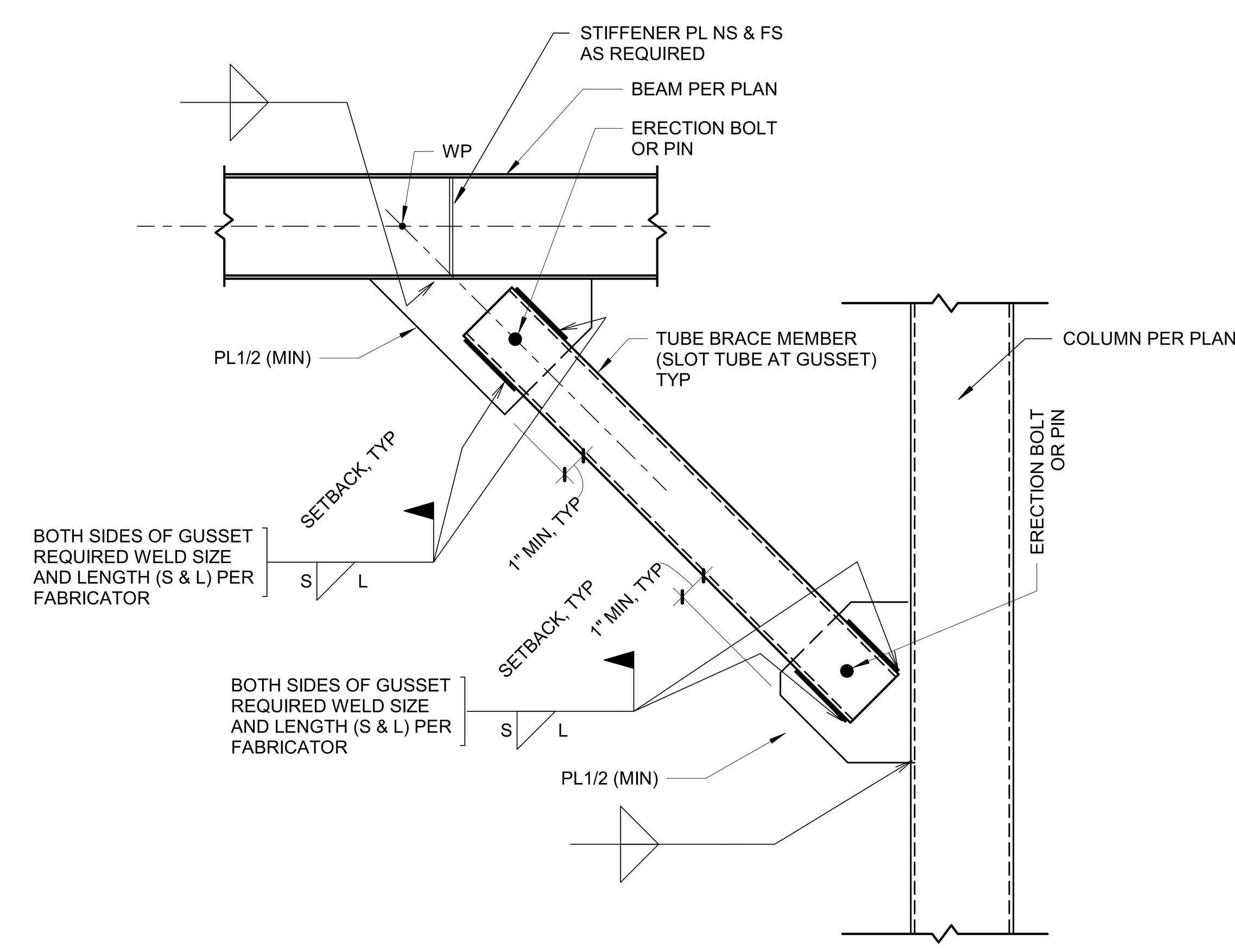
COMPOSITE BEAM DETAILS
2 / S-503
SCALE: 3/4" = 1'-0"

CONTRACTOR NOTE:
EXISTING JOISTS ARE ASSUMED TO HAVE THE FOLLOWING MEMBERS:
TOP CHORD: (2)L1¼X1¼X0.133
BOTTOM CHORD: (2)L1¼X1¼X0.109
COMPRESSION WEB: (2)L2X2X3/16
TENSION WEB: CRIMPED ANGLE 2"X3/16"

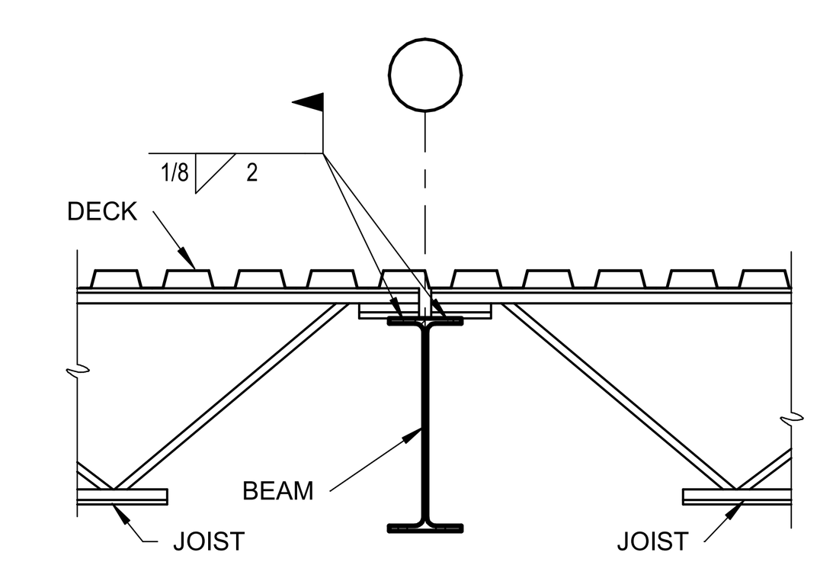
1. SHORING IS NOT REQUIRED BEFORE PLACING REINFORCING.
2. REINFORCEMENT REQUIRED FULL LENGTH



TYP JOIST REINFORCING
12 / S-503
SCALE: 3/4" = 1'-0"



BRACE DETAIL
6 / S-503
SCALE: 3/4" = 1'-0"



JSTS TO BEAM CONN DETAIL
3 / S-503
SCALE: 3/4" = 1'-0"

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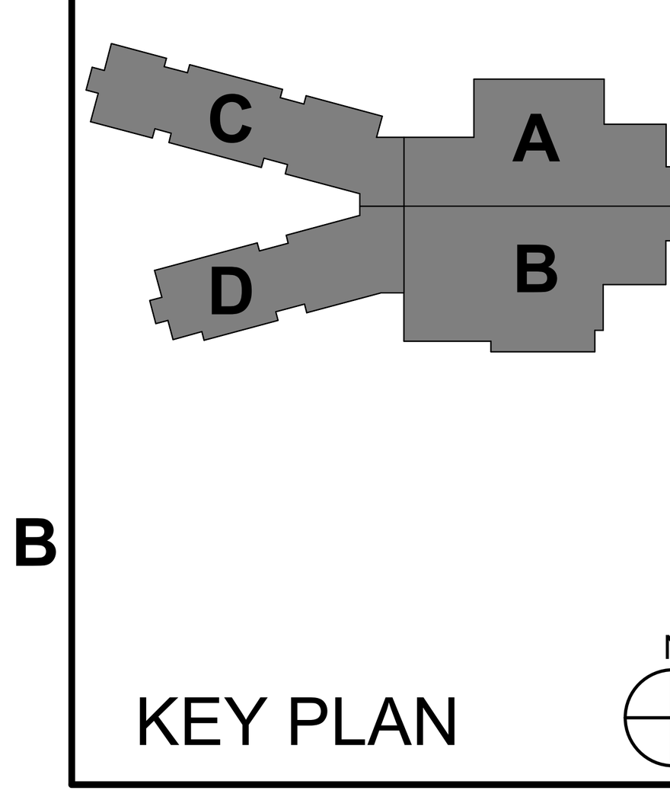
001	Addendum 1	05.26.2022

10559 E. THOMPSON RD



KEY PLAN

FRANKLIN TOWNSHIP CSC

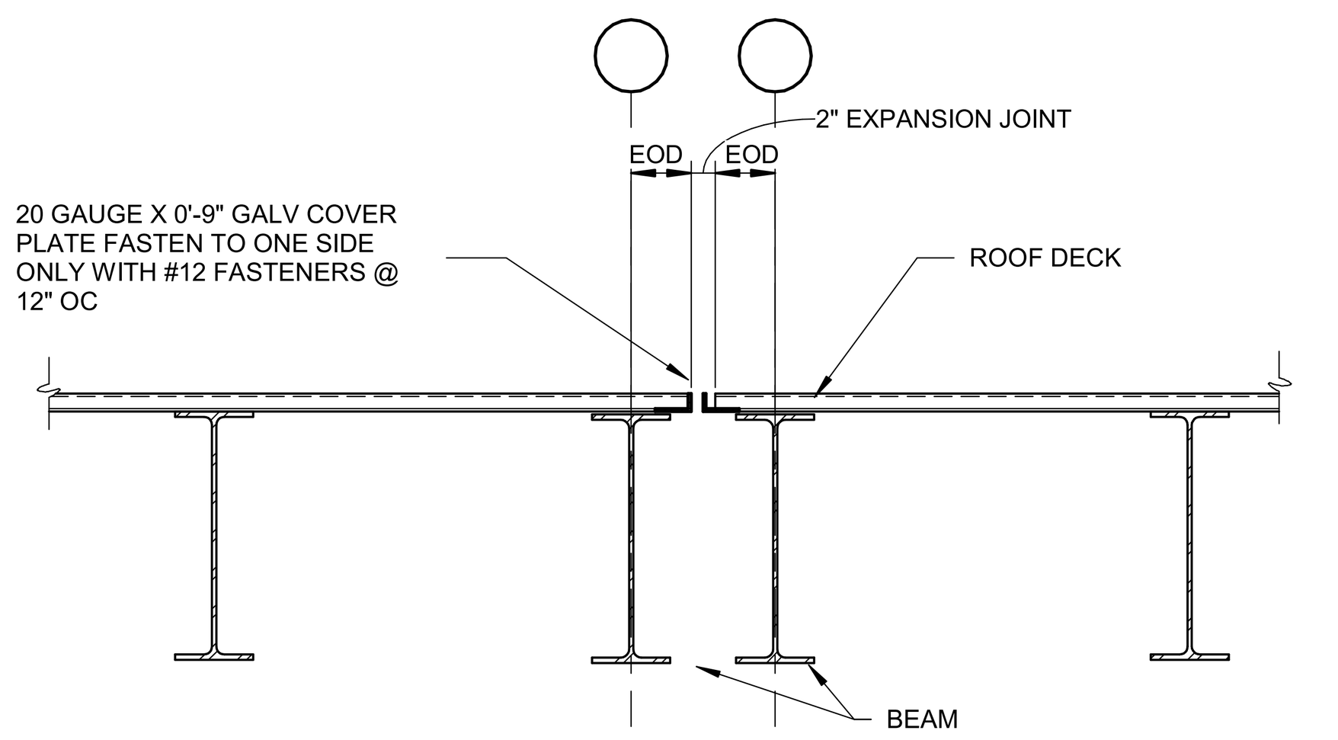
NEW ELEMENTARY SCHOOL

TYPICAL FRAMING DETAILS

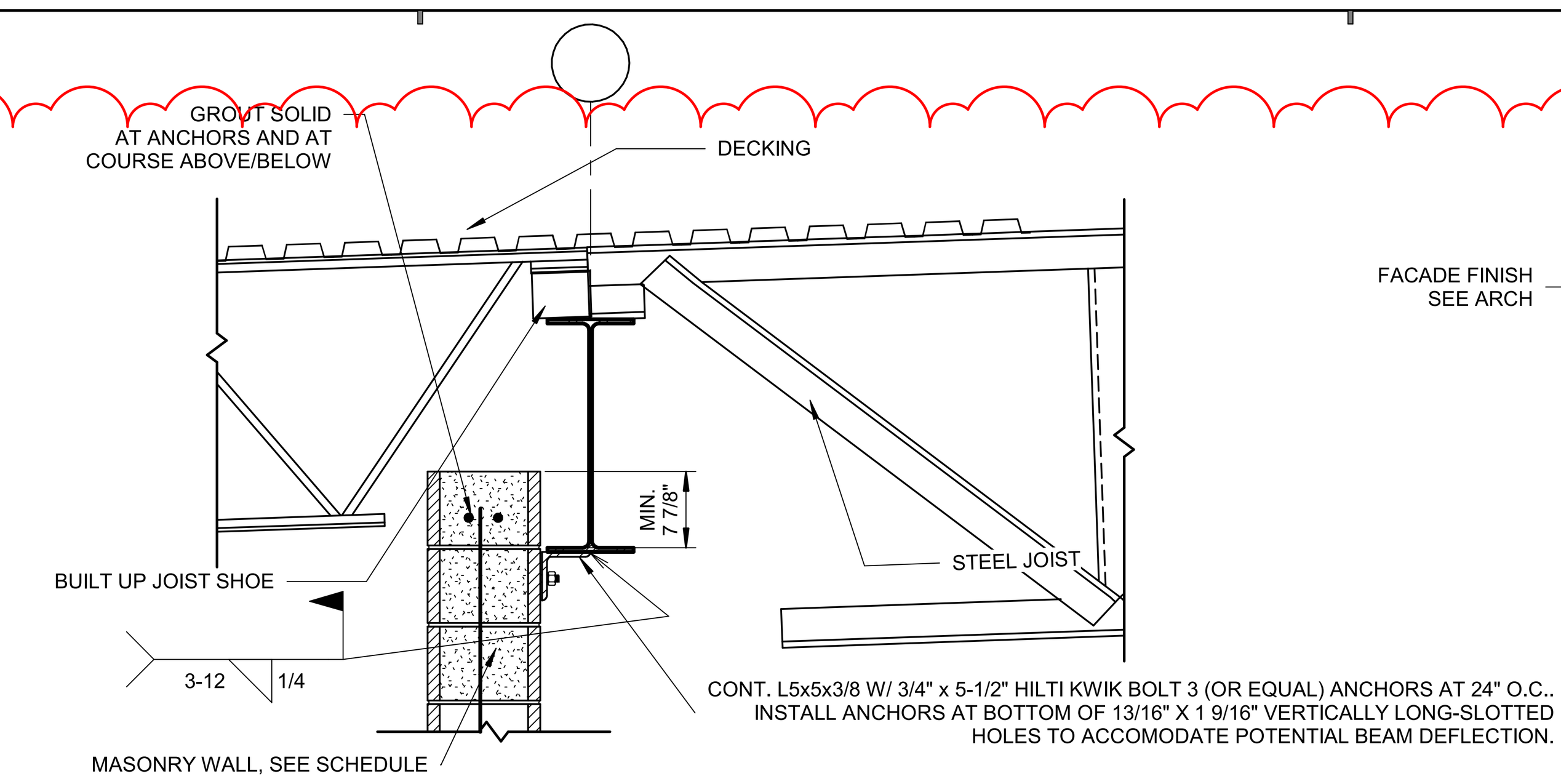
S-503

6 5 4 3 2 1

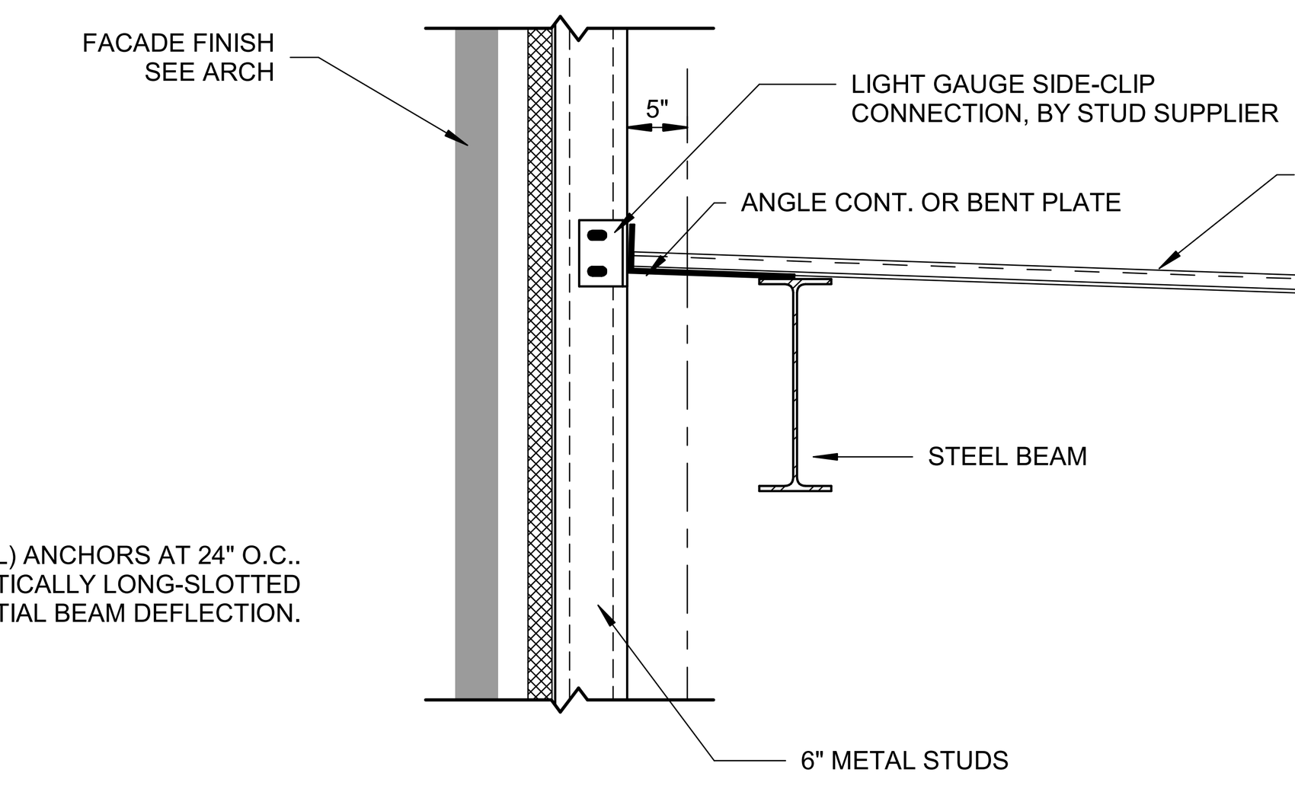
E D C B A



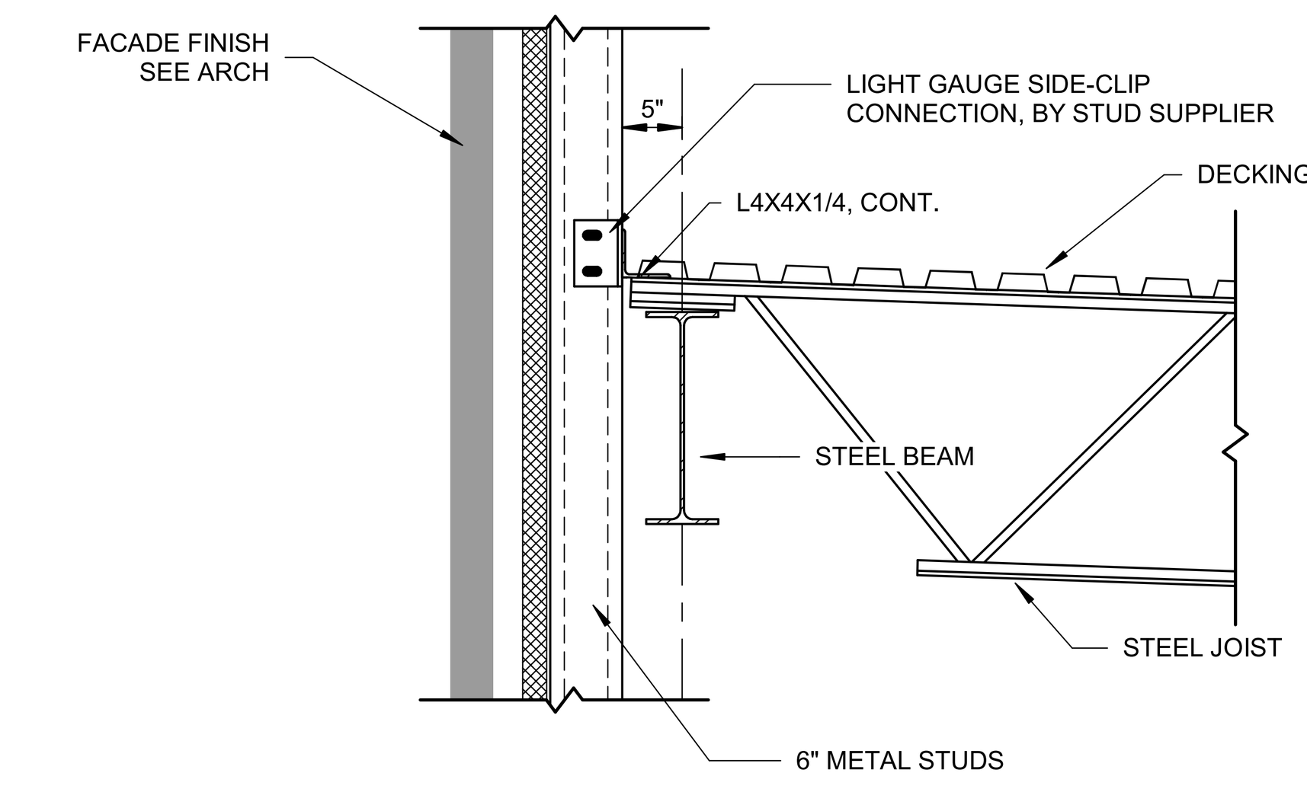
TYPICAL DECK EXPANSION JOINT
SCALE: 3/4" = 1'-0"
13 S-504



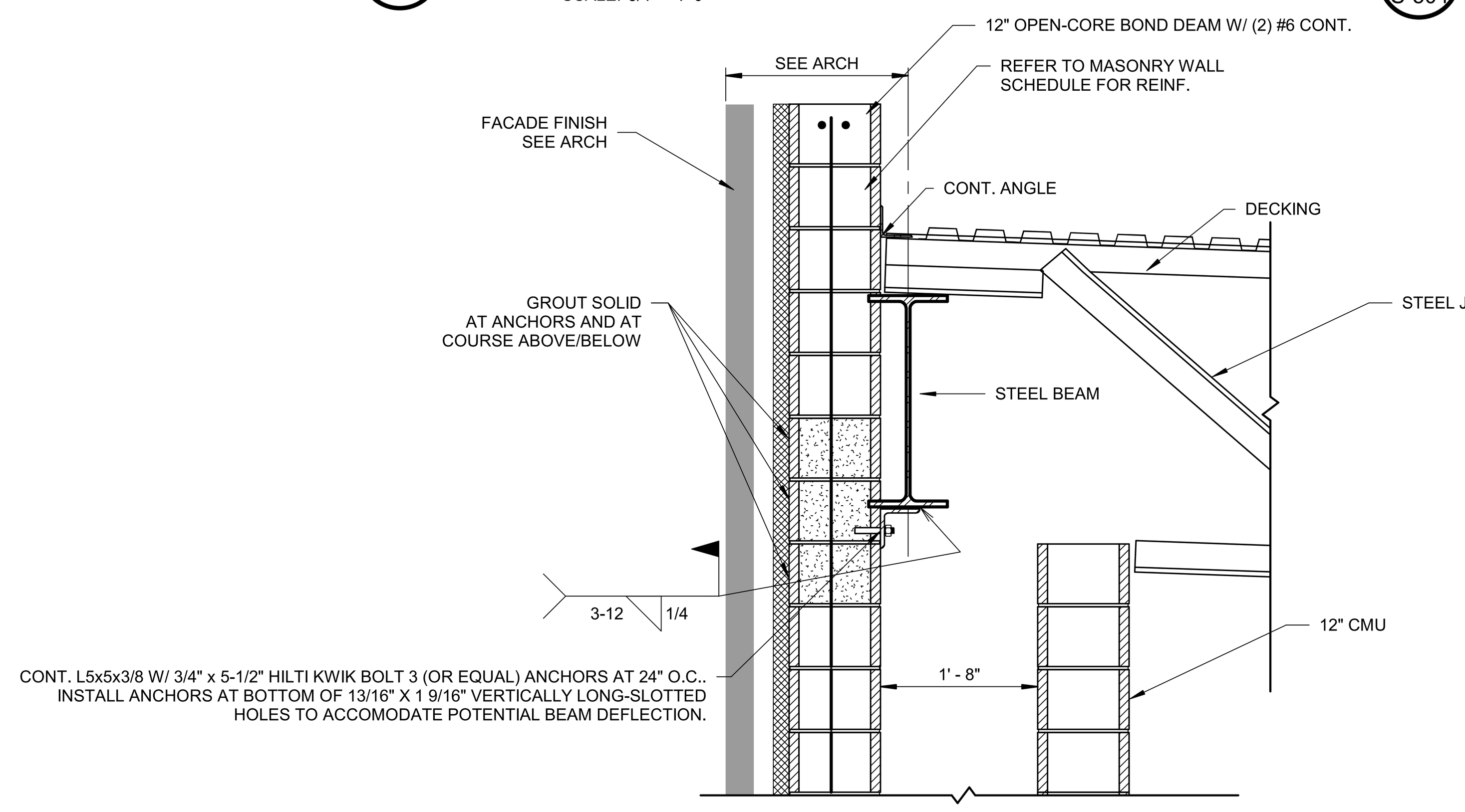
JOIST TO JOIST W/ BUILT UP SHOE ON CMU WALL OFFSET
SCALE: 3/4" = 1'-0"
12 S-504



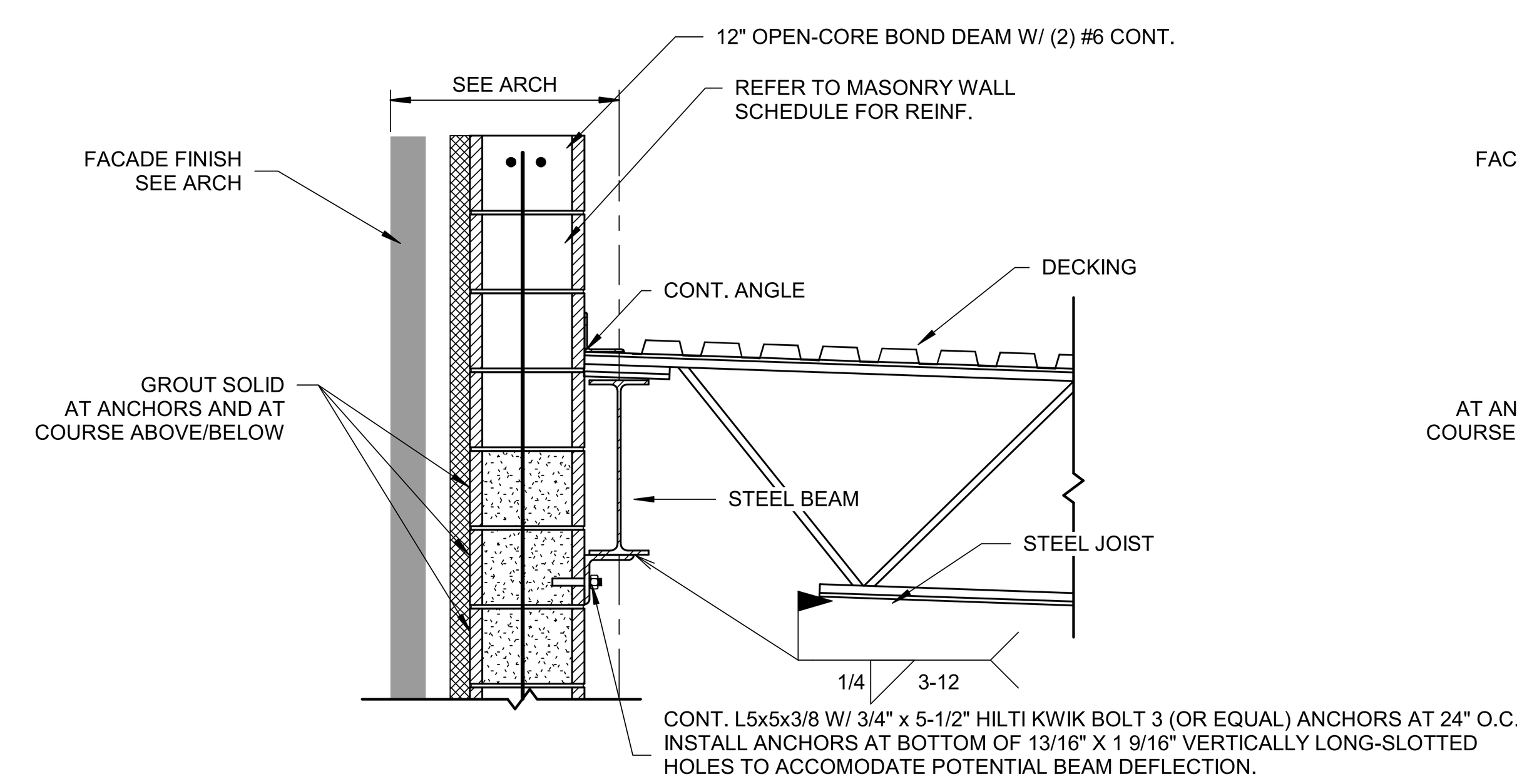
JOIST FRAMING INTO GIRDER W/ CFS AND OVERHANG
SCALE: 3/4" = 1'-0"
5 S-504



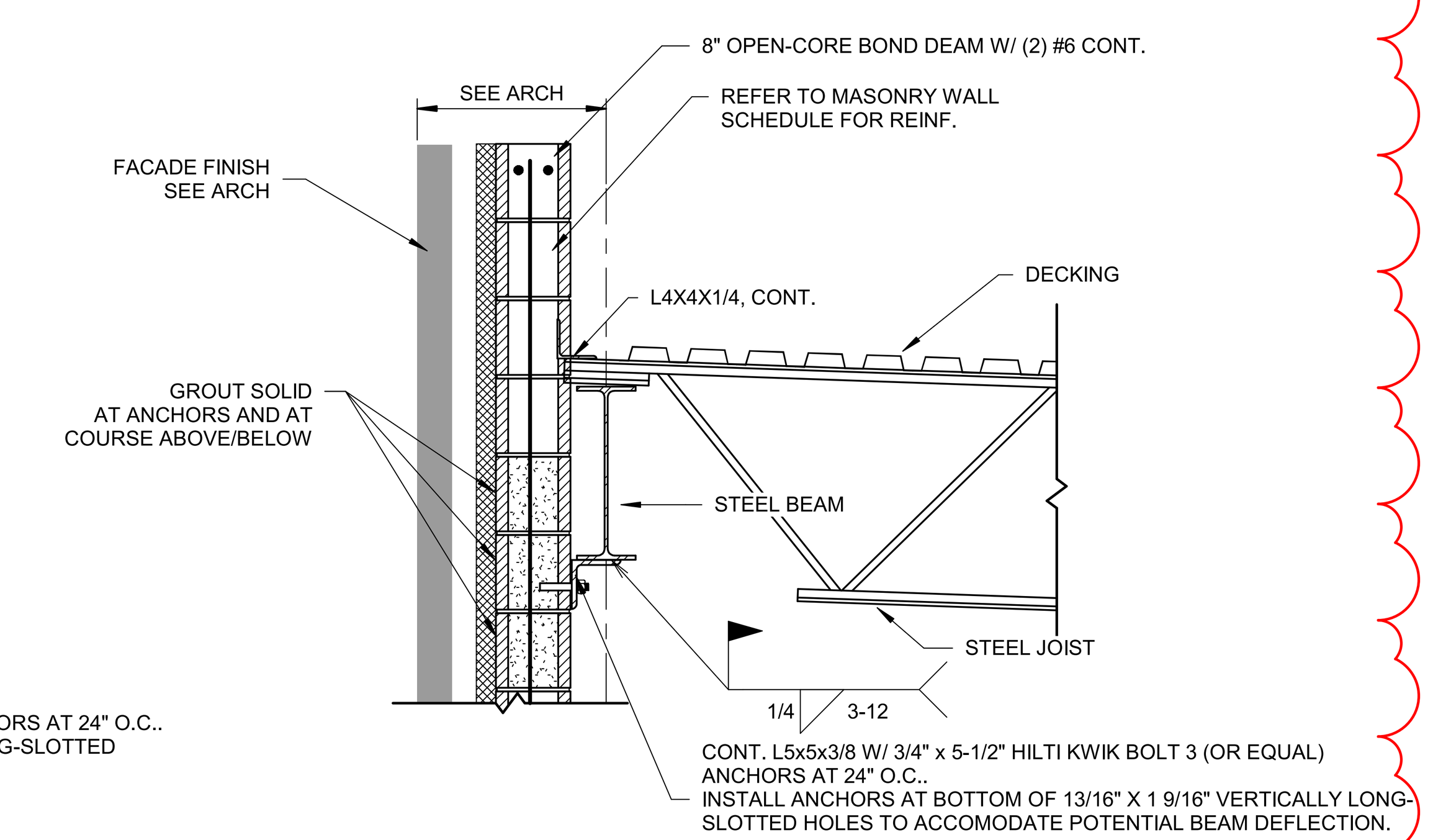
JOIST FRAMING INTO GIRDER W/ CFS
SCALE: 3/4" = 1'-0"
1 S-504



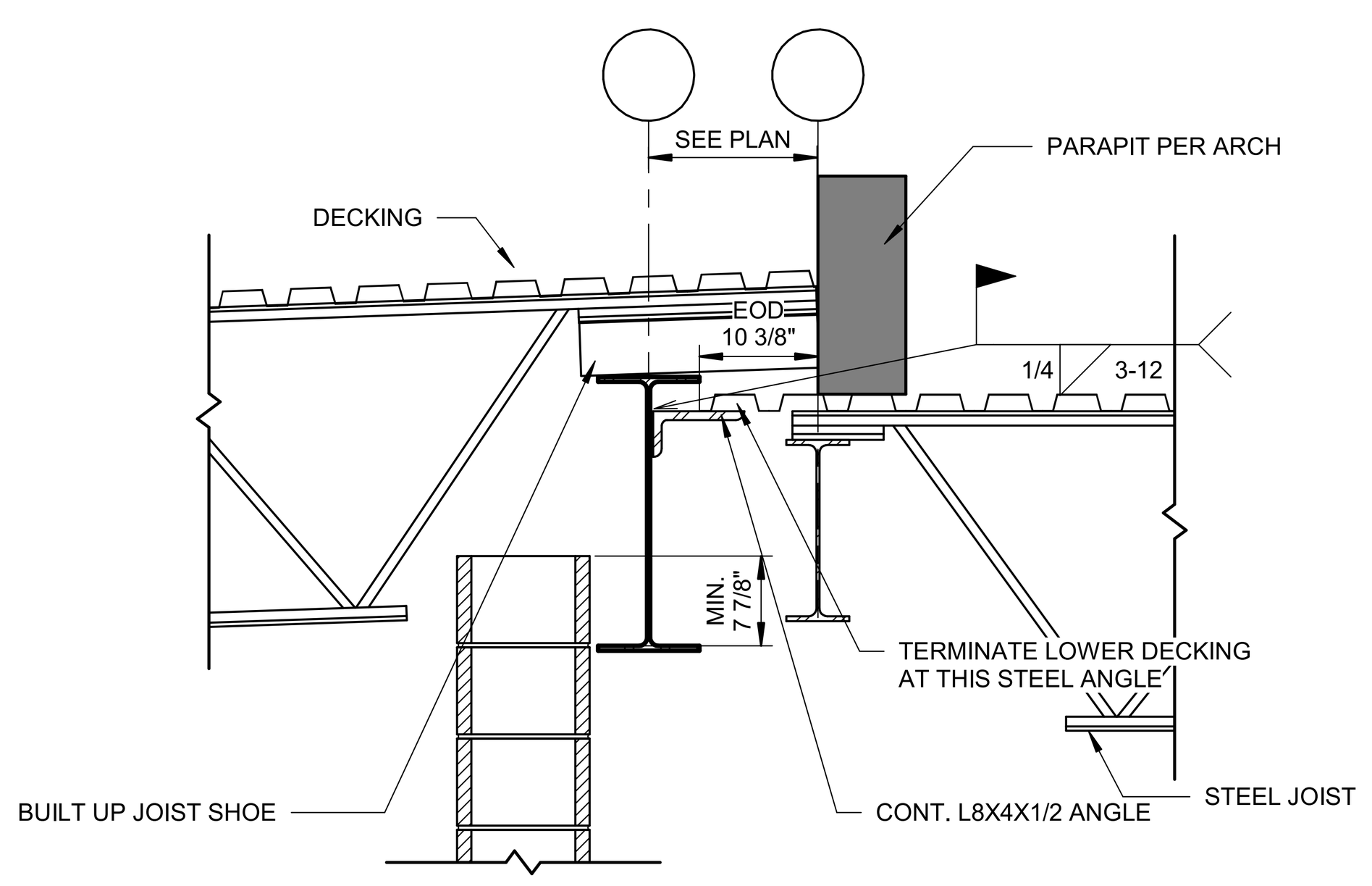
JOIST FRAMING INTO 12" CMU W/ INTERIOR CMU
SCALE: 3/4" = 1'-0"
8 S-504



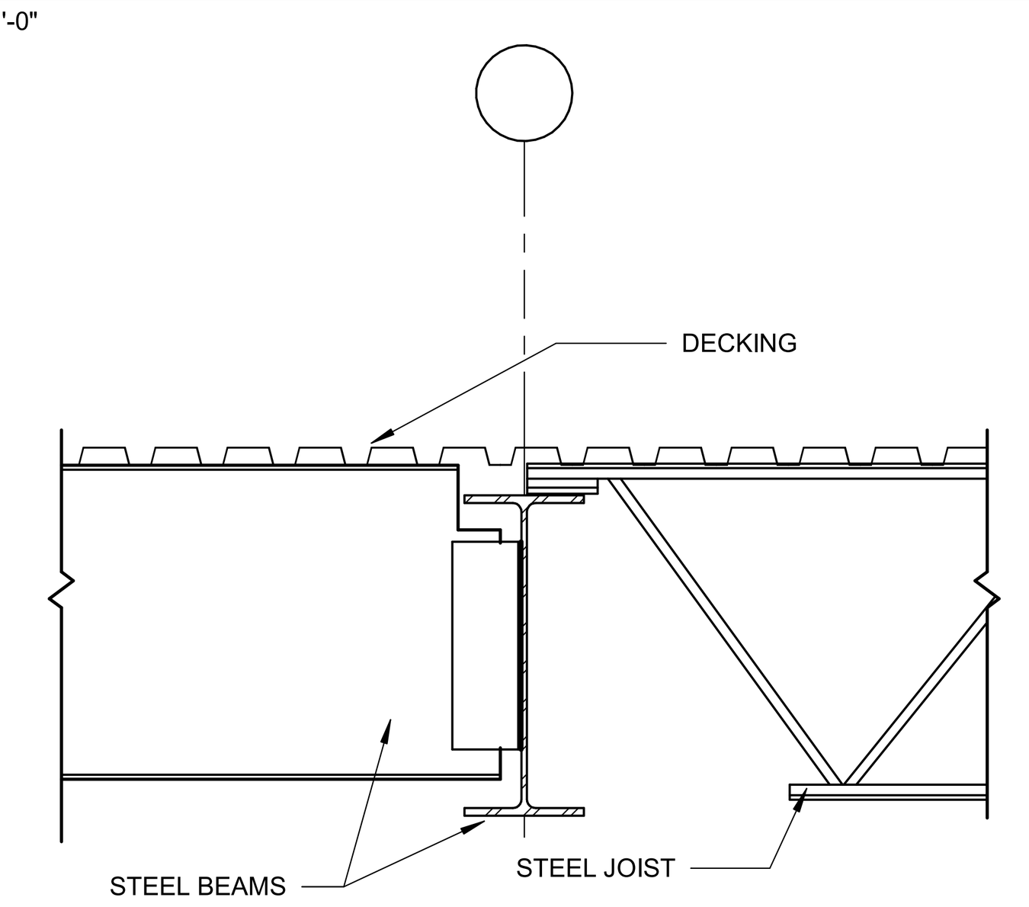
JOIST FRAMING INTO GIRDER W/ 12" CMU
SCALE: 3/4" = 1'-0"
6 S-504



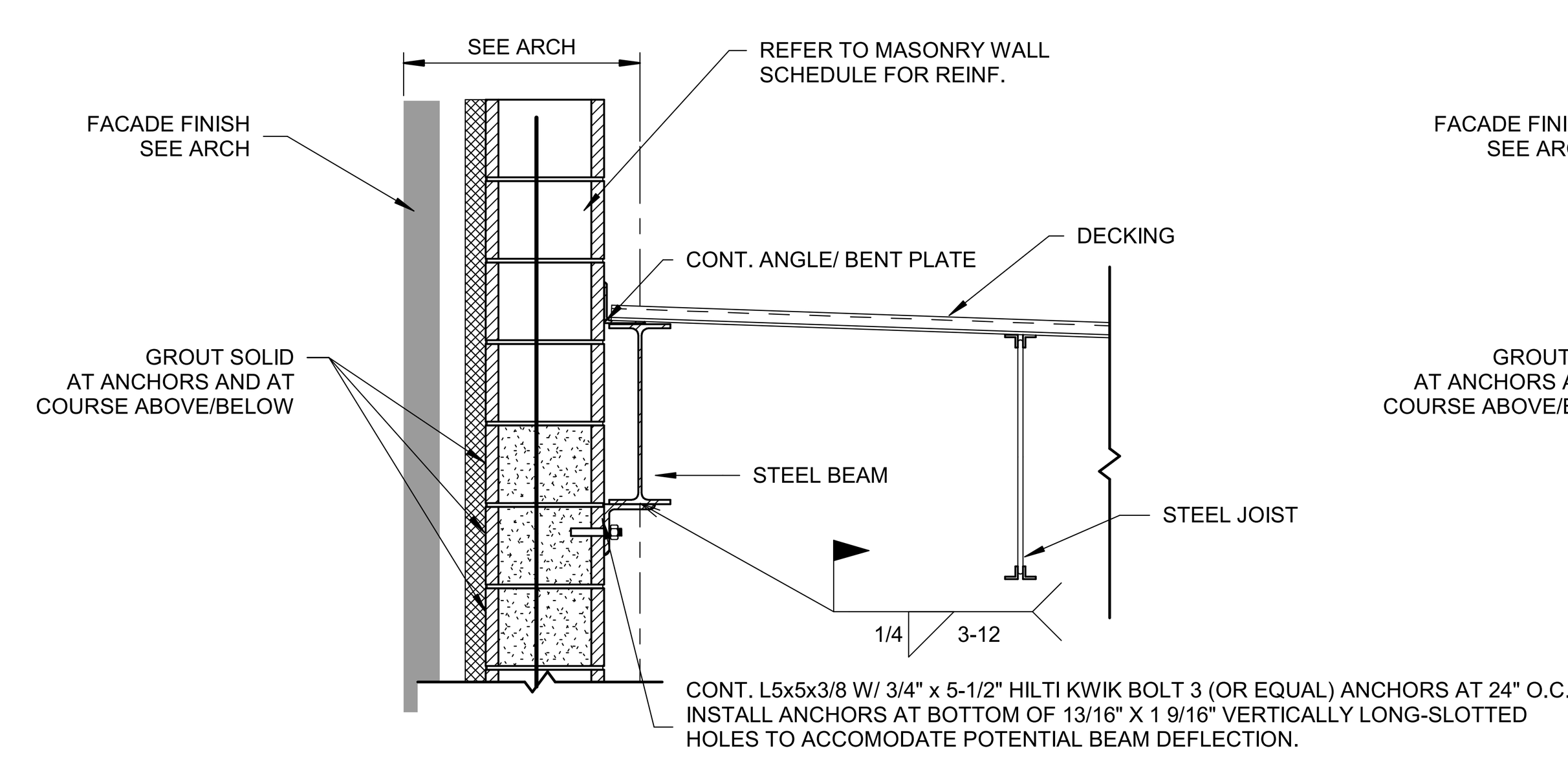
JOIST FRAMING INTO GIRDER W/8" CMU
SCALE: 3/4" = 1'-0"
2 S-504



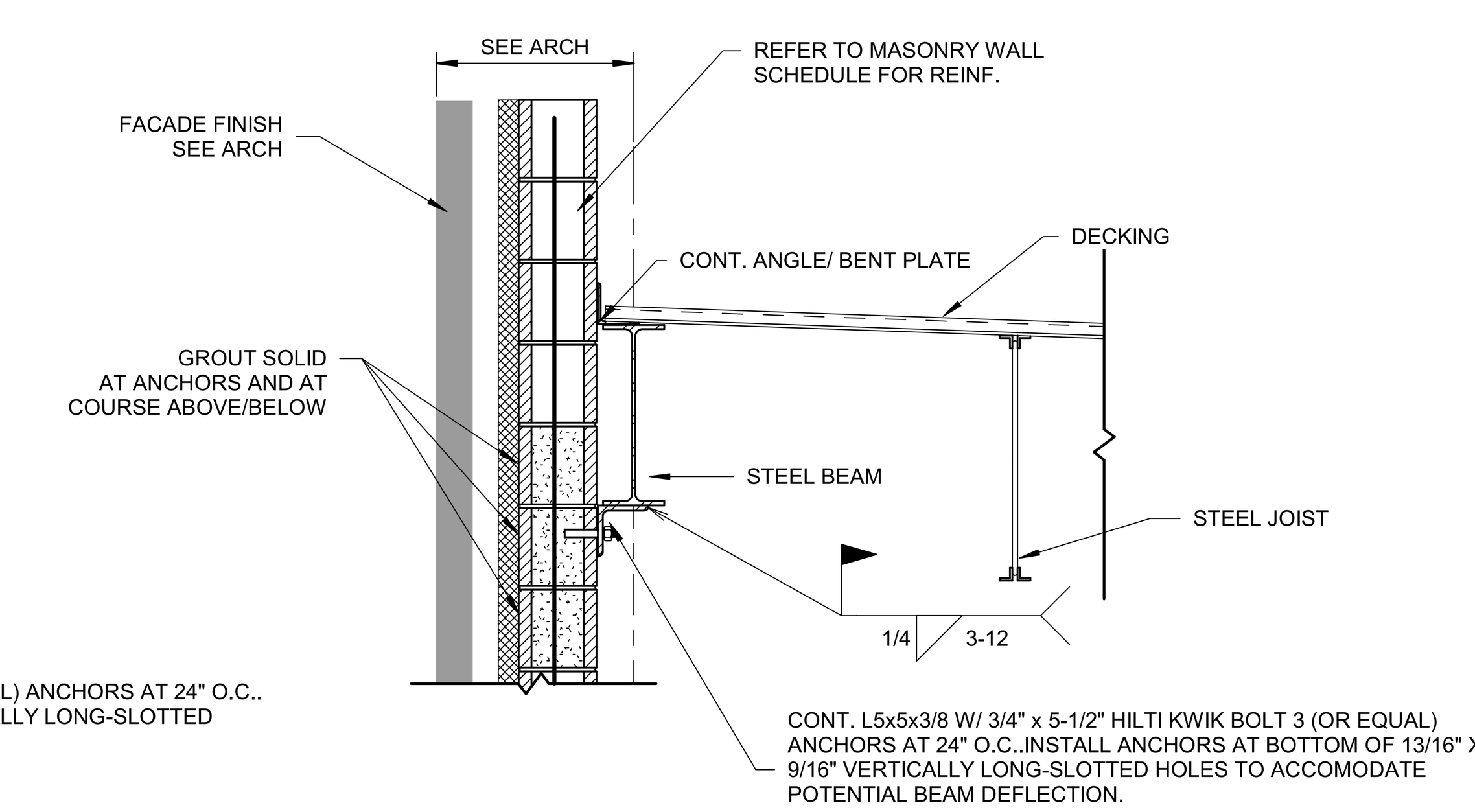
ROOF FRAMING AT PARAPET
SCALE: 3/4" = 1'-0"
14 S-504



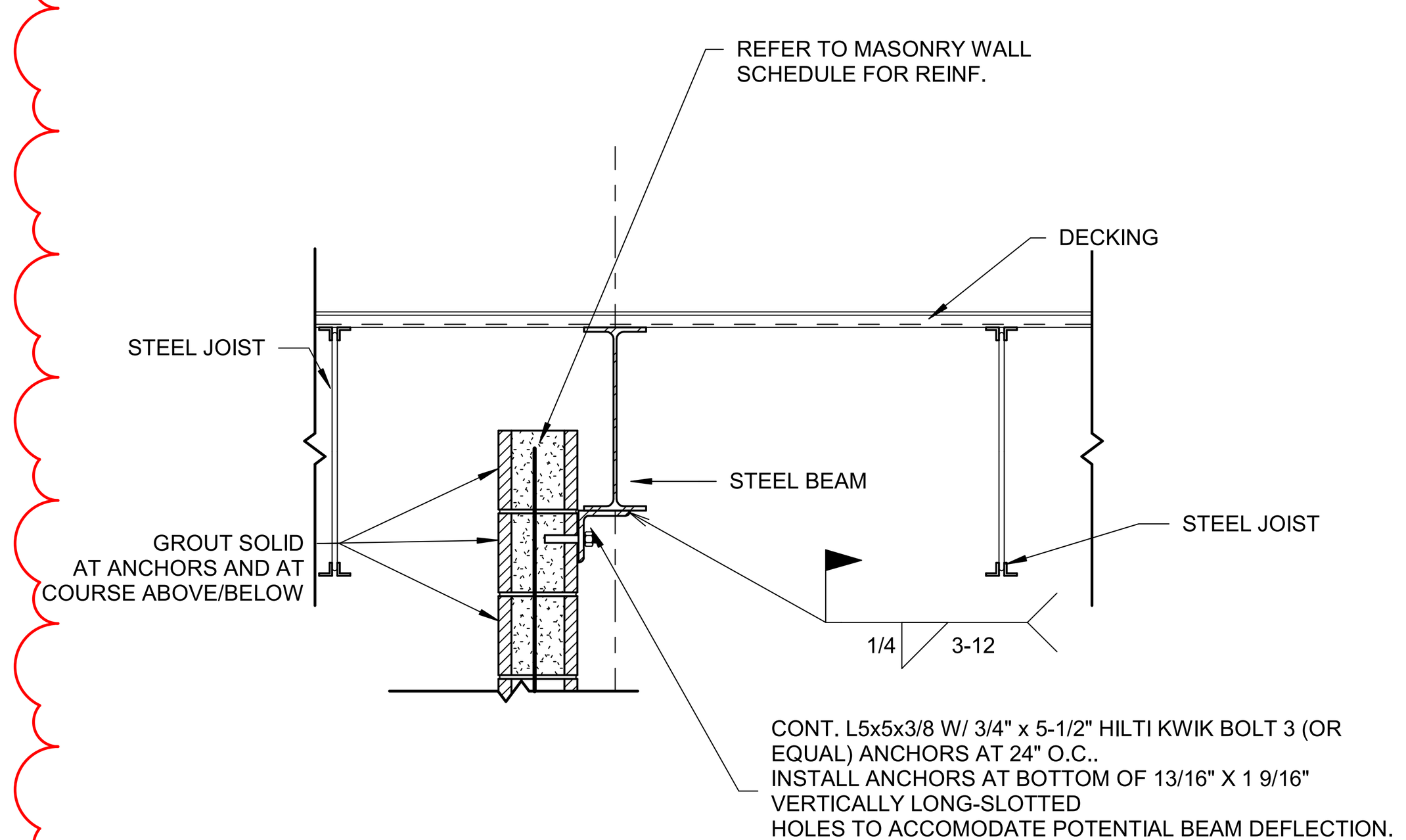
JOIST AND BEAM LOADING GIRDER
SCALE: 3/4" = 1'-0"
9 S-504



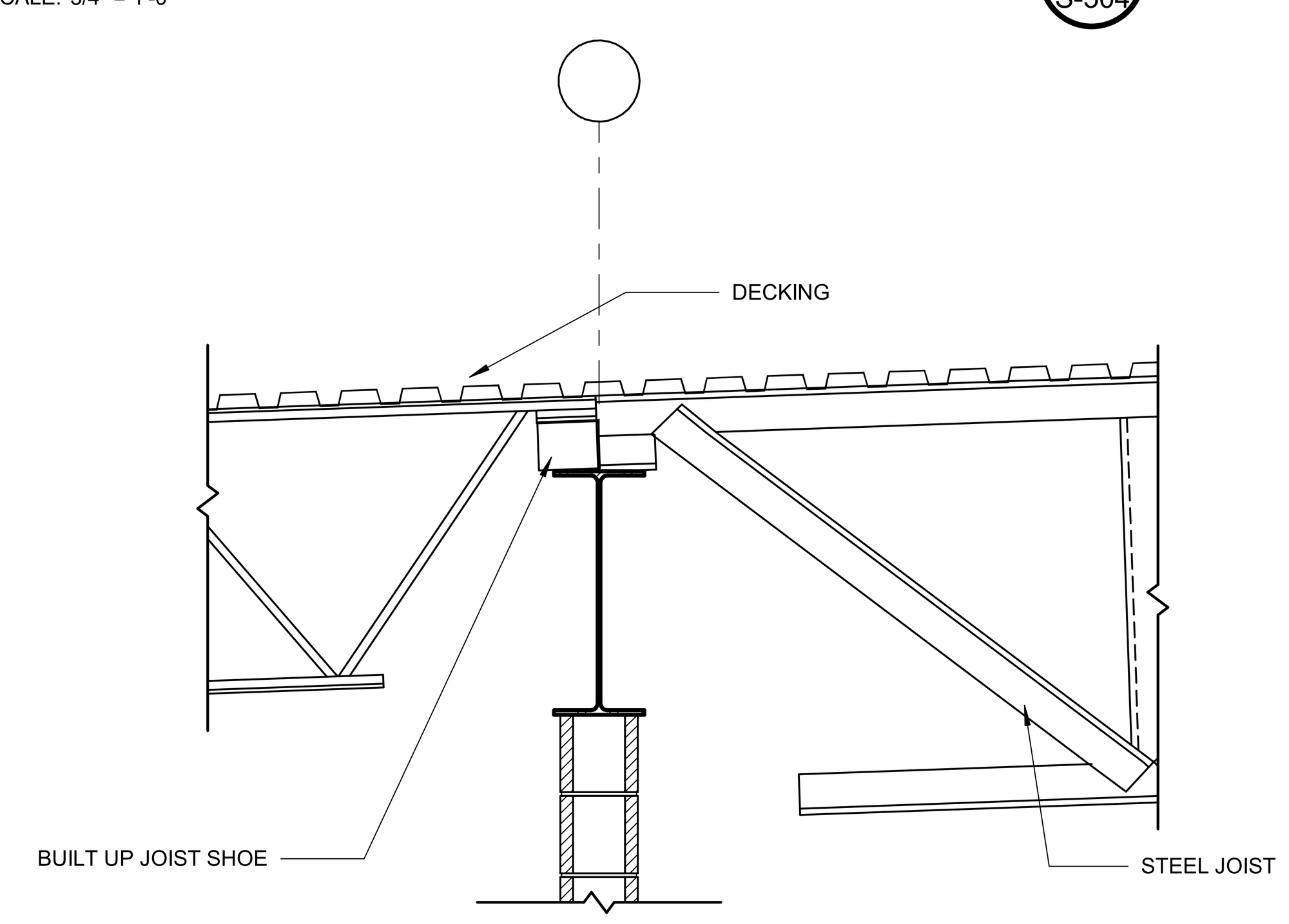
JOIST FRAMING INTO GIRDER W/ 12" CMU OPP. DECK
SCALE: 3/4" = 1'-0"
7 S-504



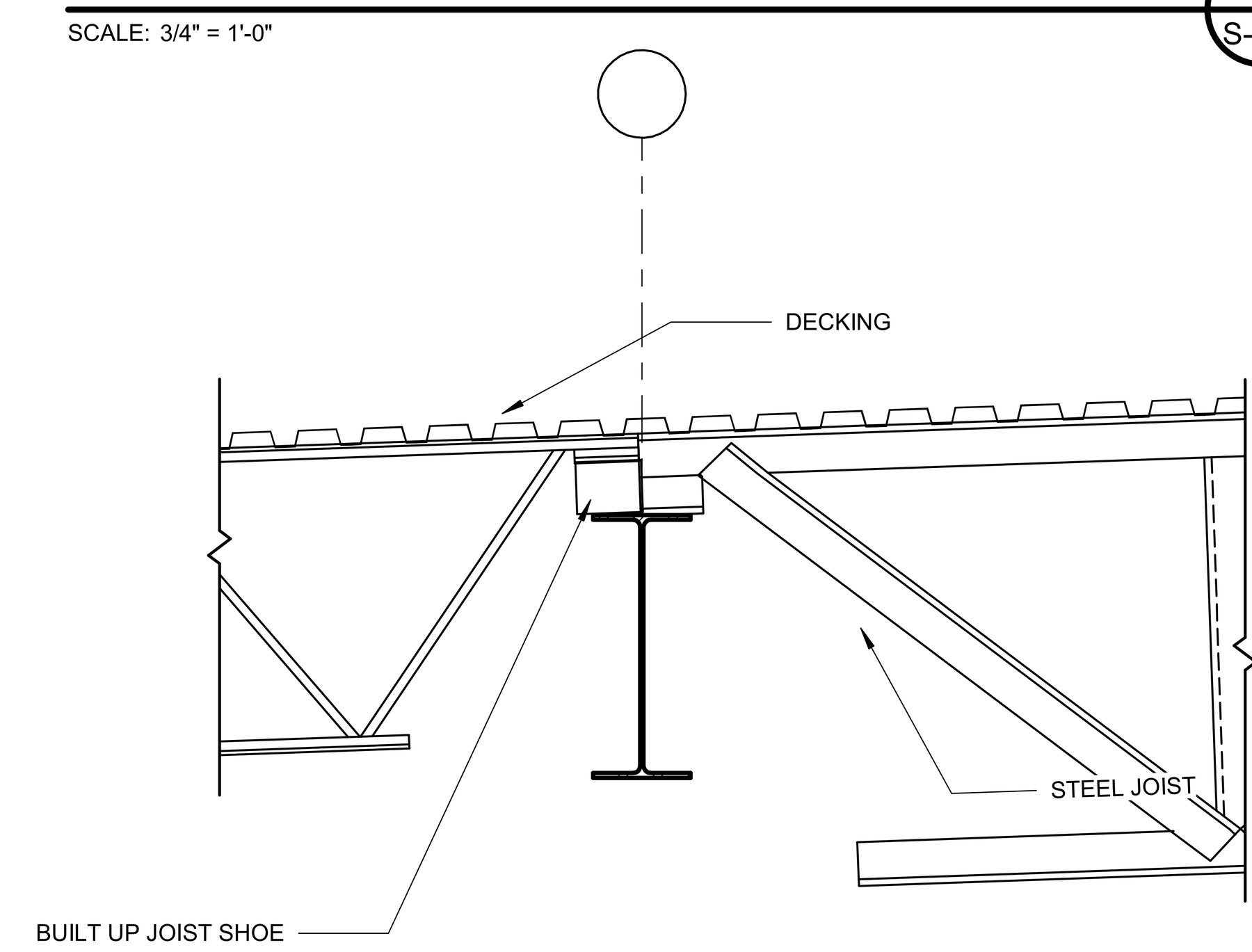
JOIST FRAMING INTO GIRDER W/8" CMU OPP. DECK
SCALE: 3/4" = 1'-0"
3 S-504



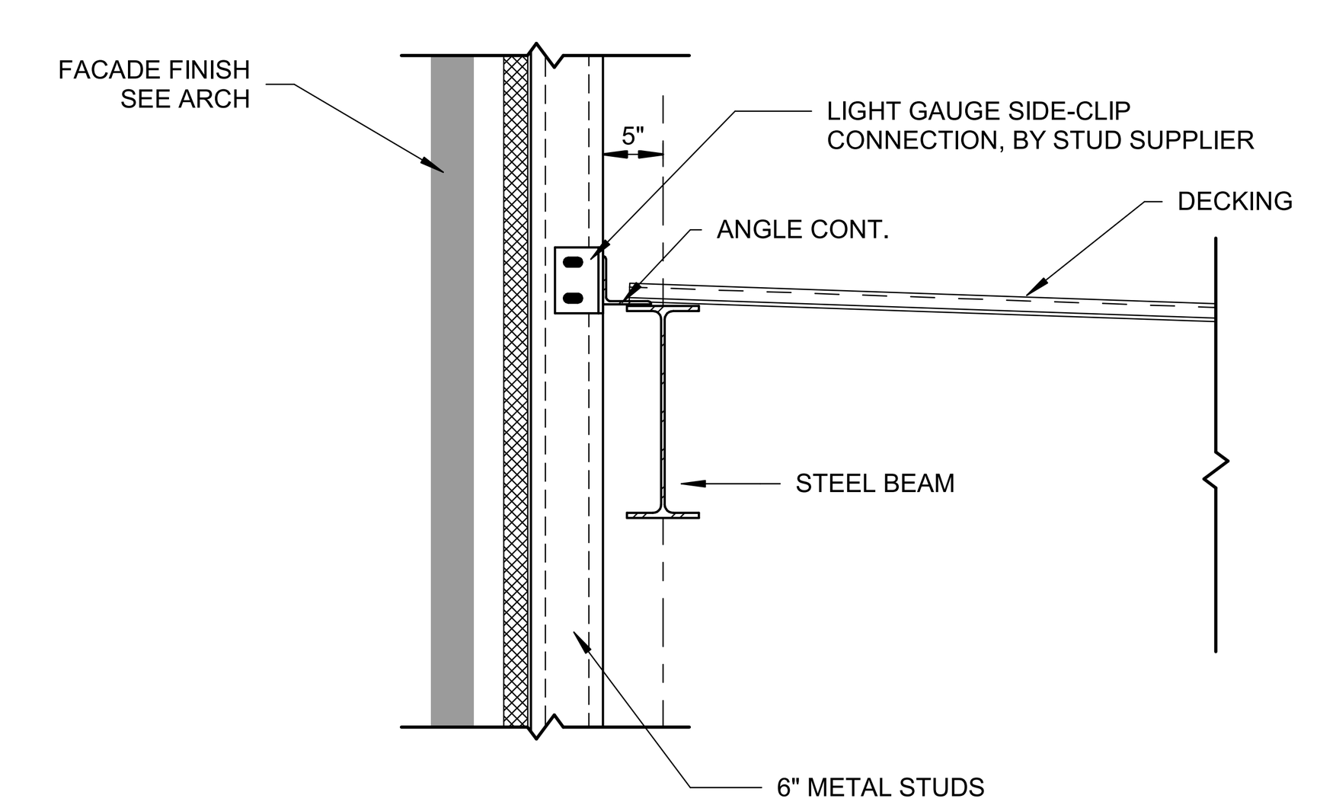
JOIST FRAMING INTO GIRDER W/8" CMU OPP. DECK
SCALE: 3/4" = 1'-0"
15 S-504



JOIST TO JOIST W/ BUILT UP SHOE ON CMU WALL
SCALE: 3/4" = 1'-0"
10 S-504



JOIST TO JOIST W/ BUILT UP SHOE
SCALE: 3/4" = 1'-0"
11 S-504



JOIST FRAMING INTO GIRDER W/ CFS OPP. DECK
SCALE: 3/4" = 1'-0"
4 S-504

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Project No. 2021-141.NES
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JUSTIN L. LEIBERING REGISTERED No. 11500368 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
001	Addendum 1	05.26.2022

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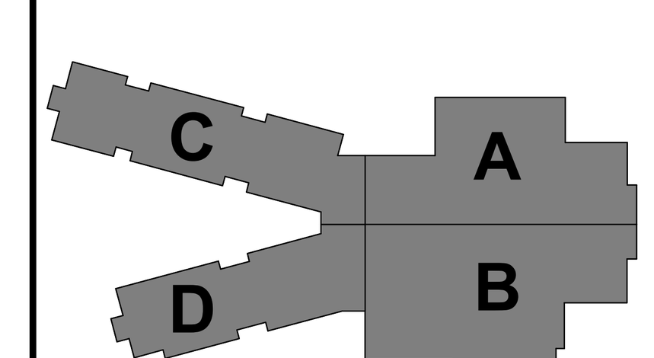


KEY PLAN

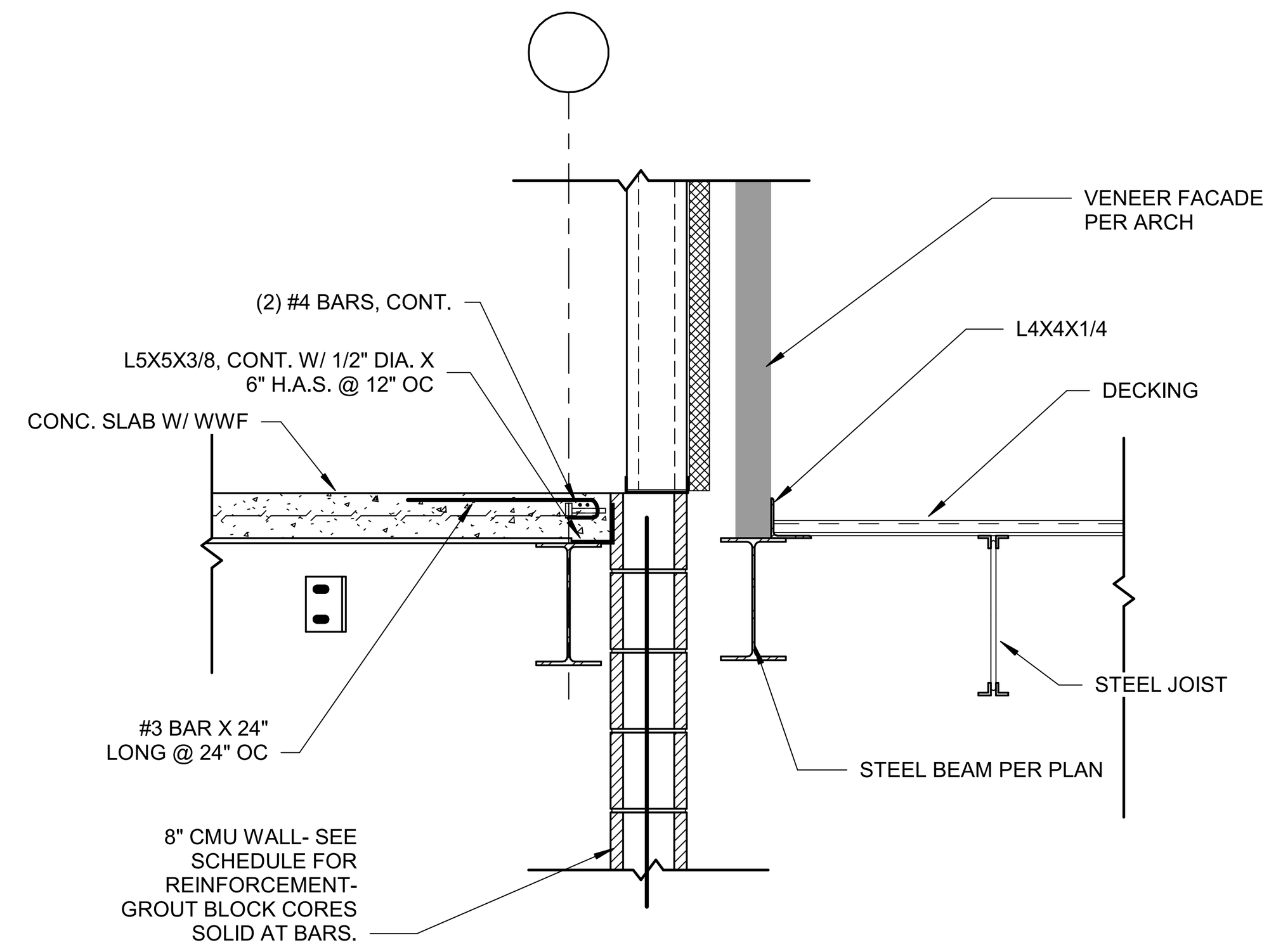
FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

TYPICAL ROOF FRAMING SECTIONS

S-504

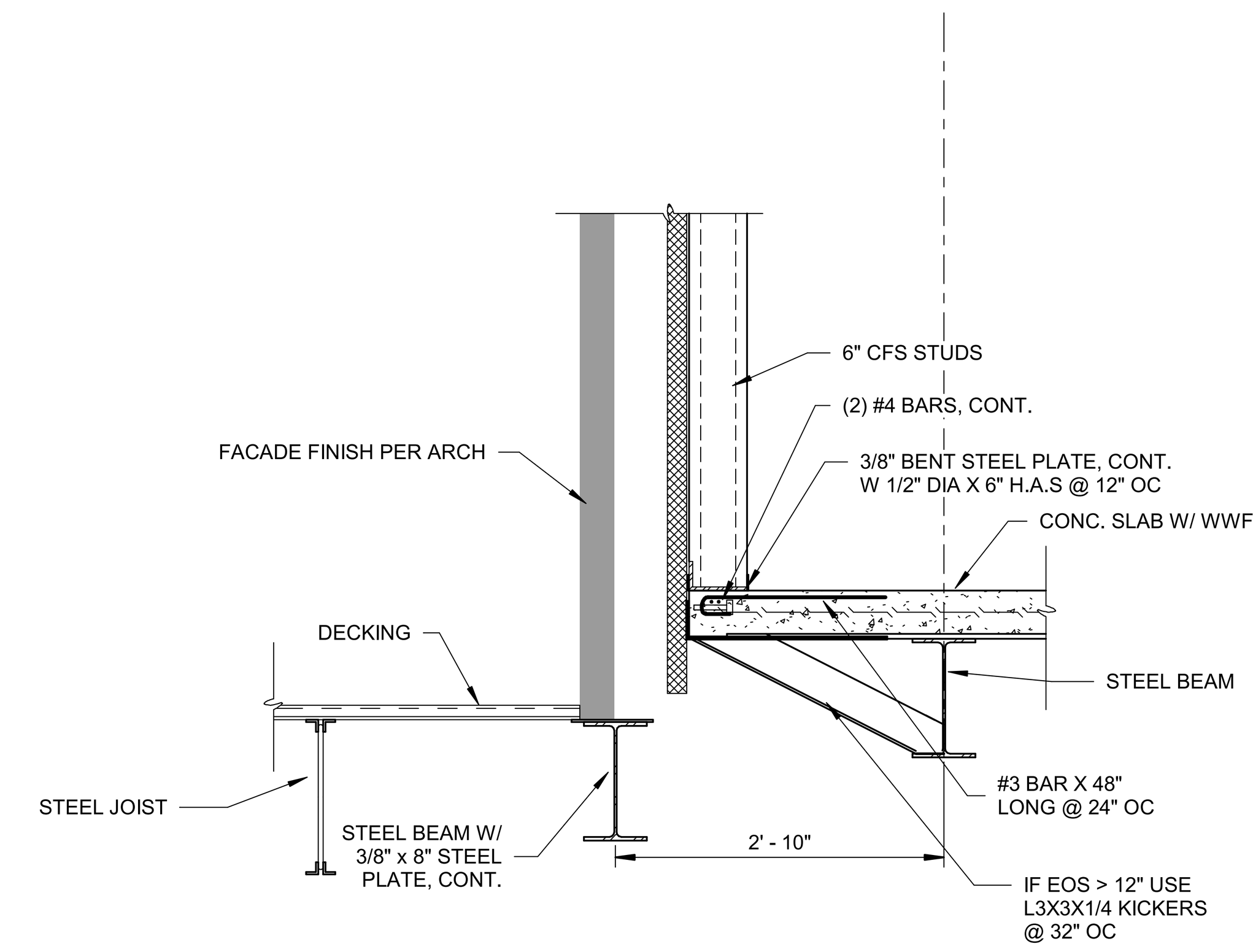
6 5 4 3 2 1



JOIST FRAMING INTO GIRDER W/ CMU

SCALE: 3/4" = 1'-0"

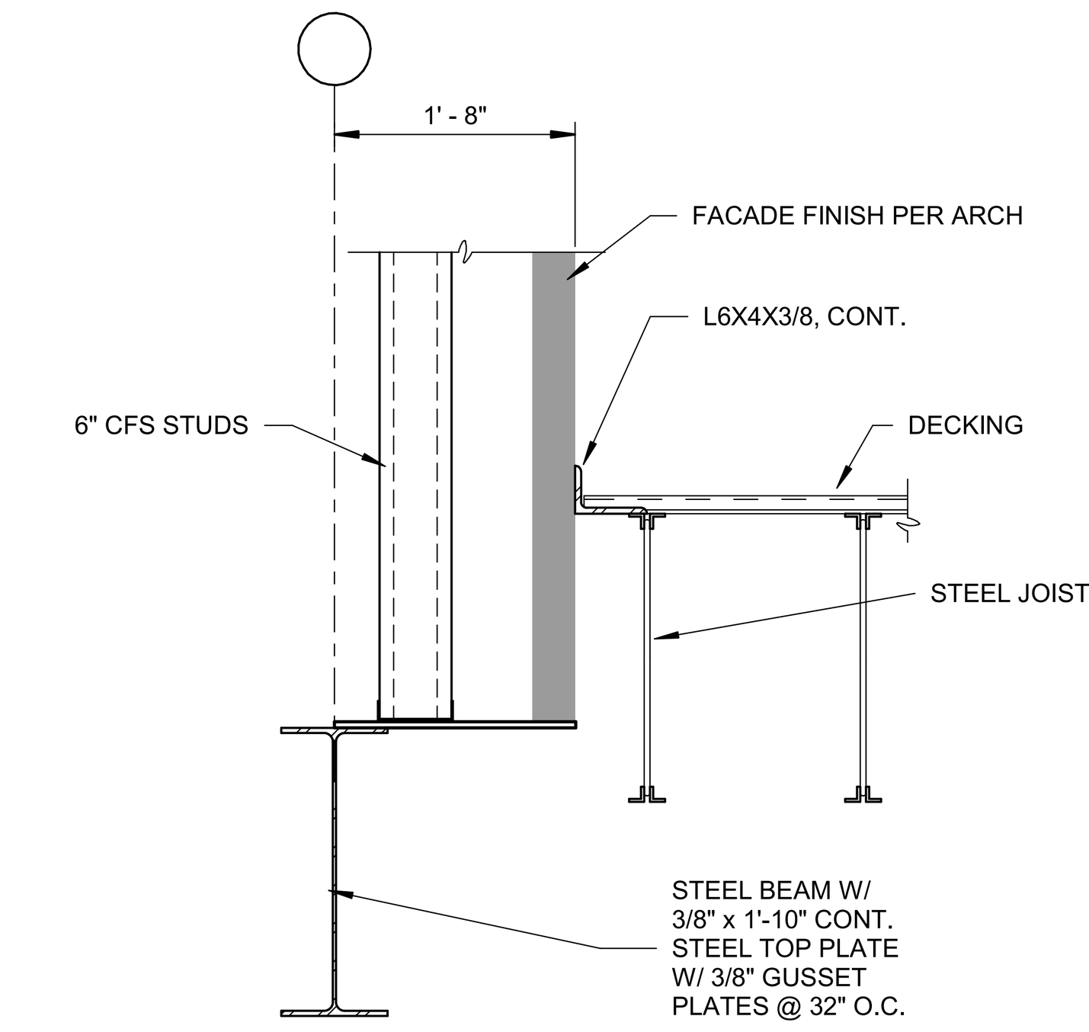
7 / S-505



ROOF DECKING INTO FACADE

SCALE: 3/4" = 1'-0"

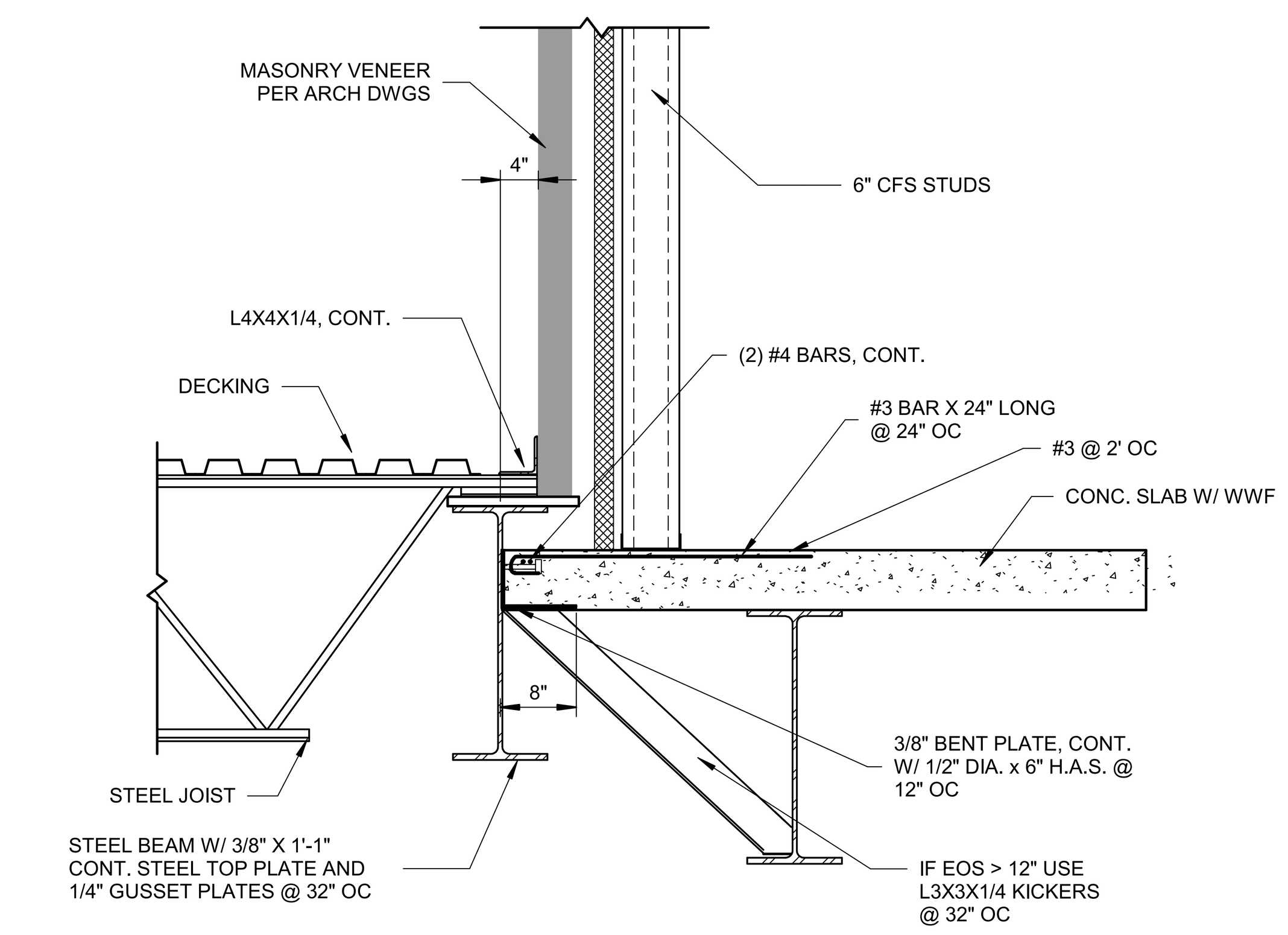
4 / S-505



ROOF DECKING INTO MASONRY FACADE

SCALE: 3/4" = 1'-0"

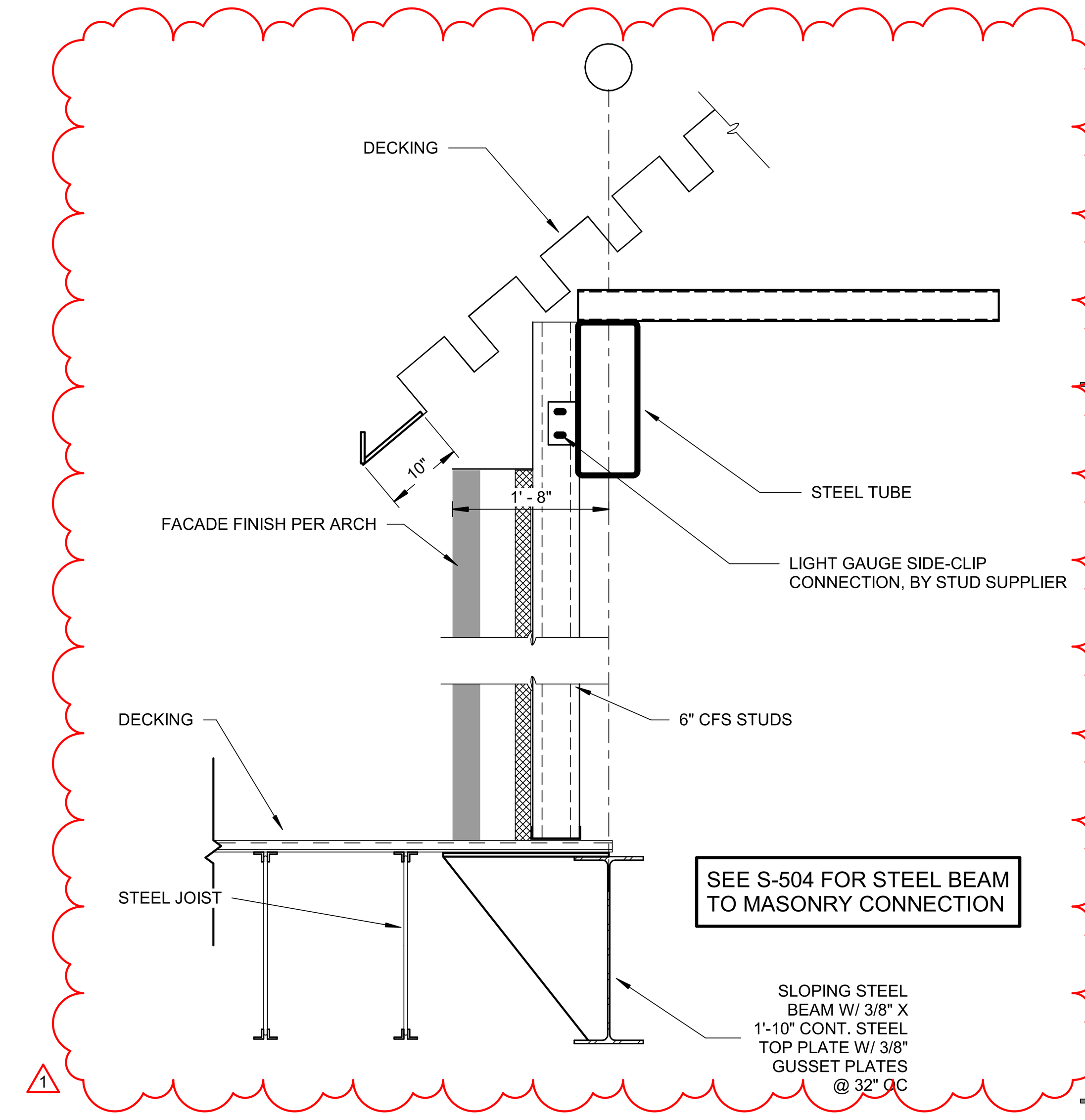
1 / S-505



TYPICAL SLAB OVERHANG

SCALE: 3/4" = 1'-0"

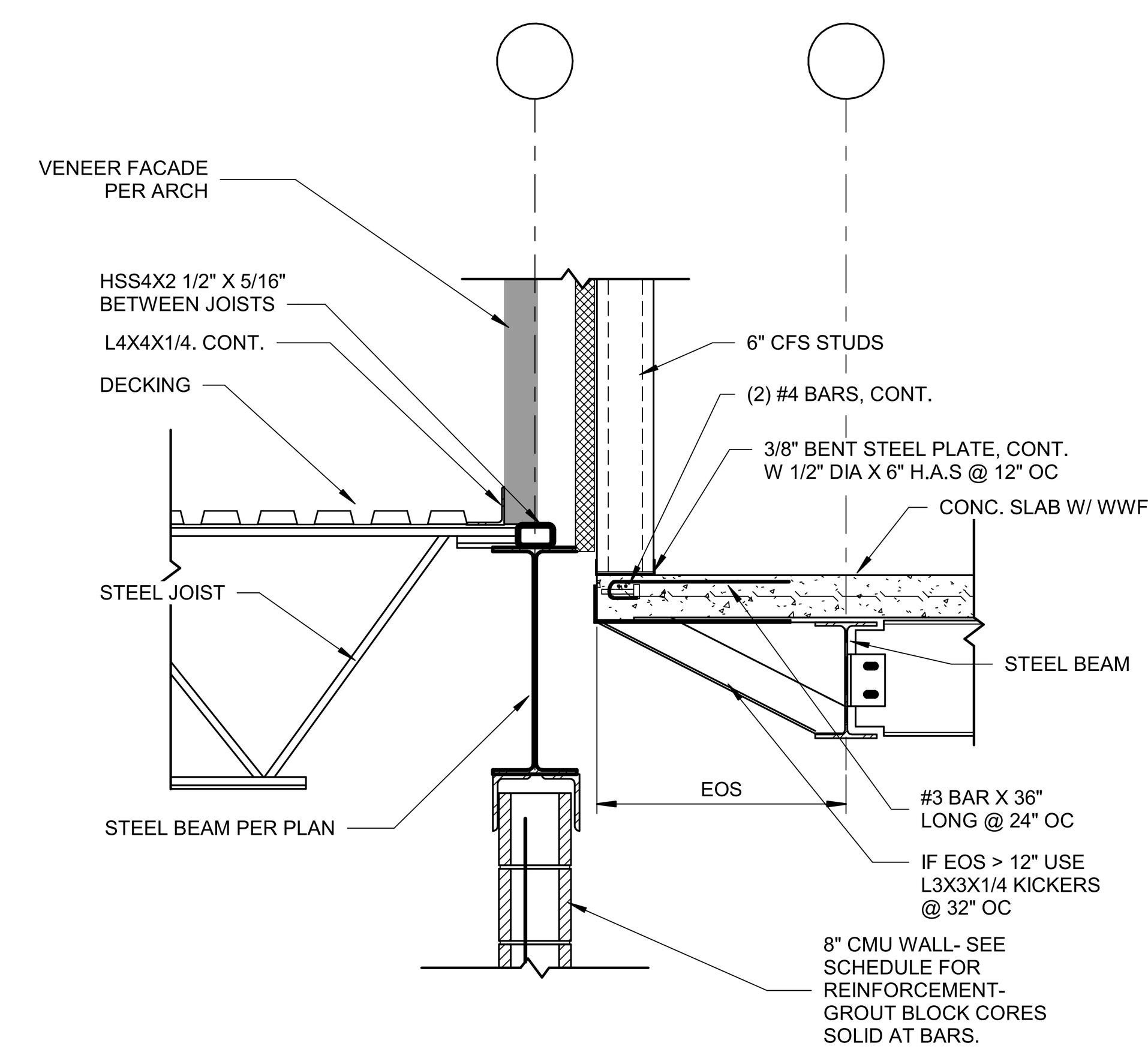
5 / S-505



ROOF DECKING INTO MASONRY FACADE W/ WT SECTION

SCALE: 3/4" = 1'-0"

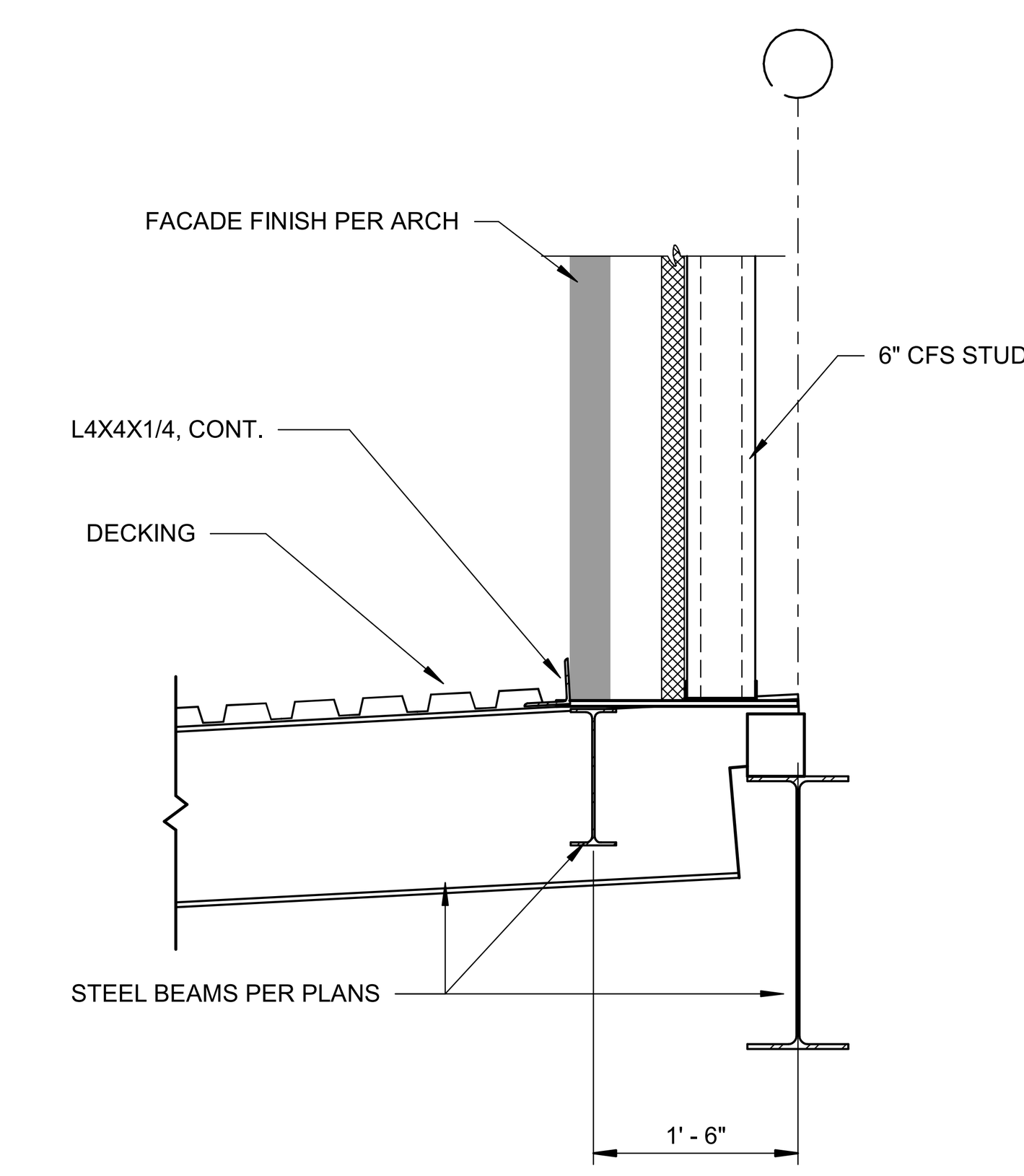
2 / S-505



ROOF FRAMING W/ GIRDER ON CMU

SCALE: 3/4" = 1'-0"

6 / S-505



ROOF DECKING INTO MASONRY FACADE

SCALE: 3/4" = 1'-0"

3 / S-505

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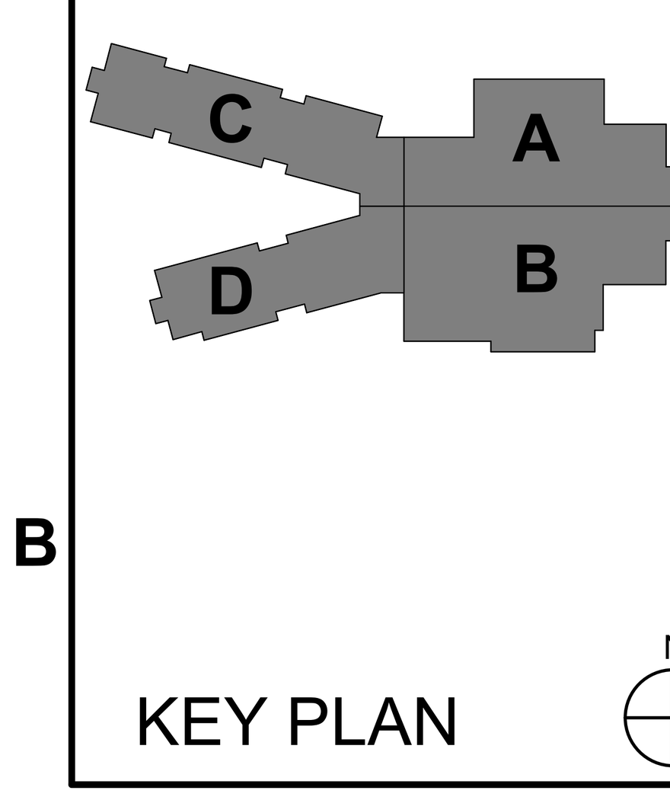


KEY PLAN

FRANKLIN TOWNSHIP CSC

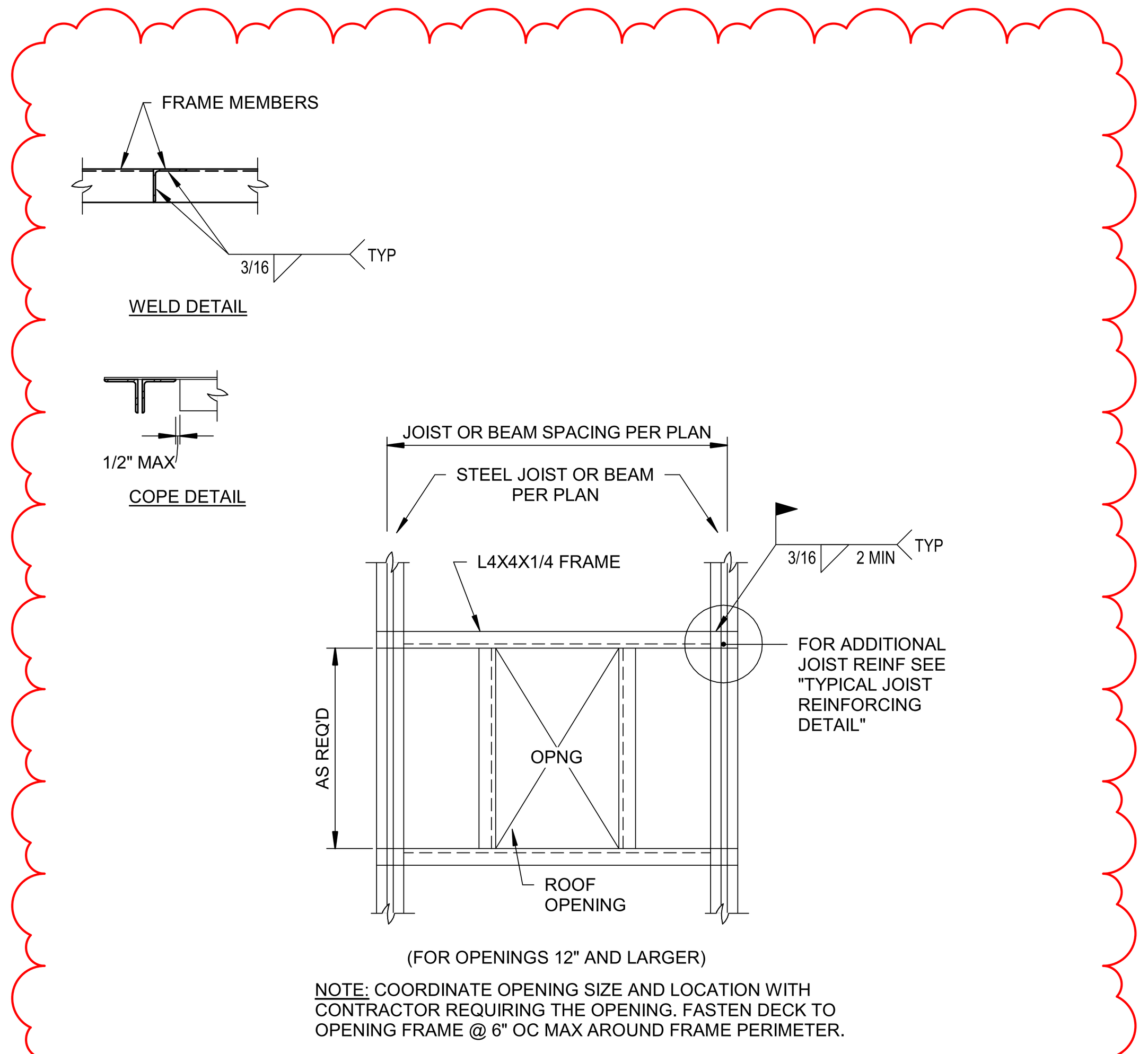
Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

TYPICAL ROOF FRAMING SECTIONS

S-505

6 5 4 3 2 1



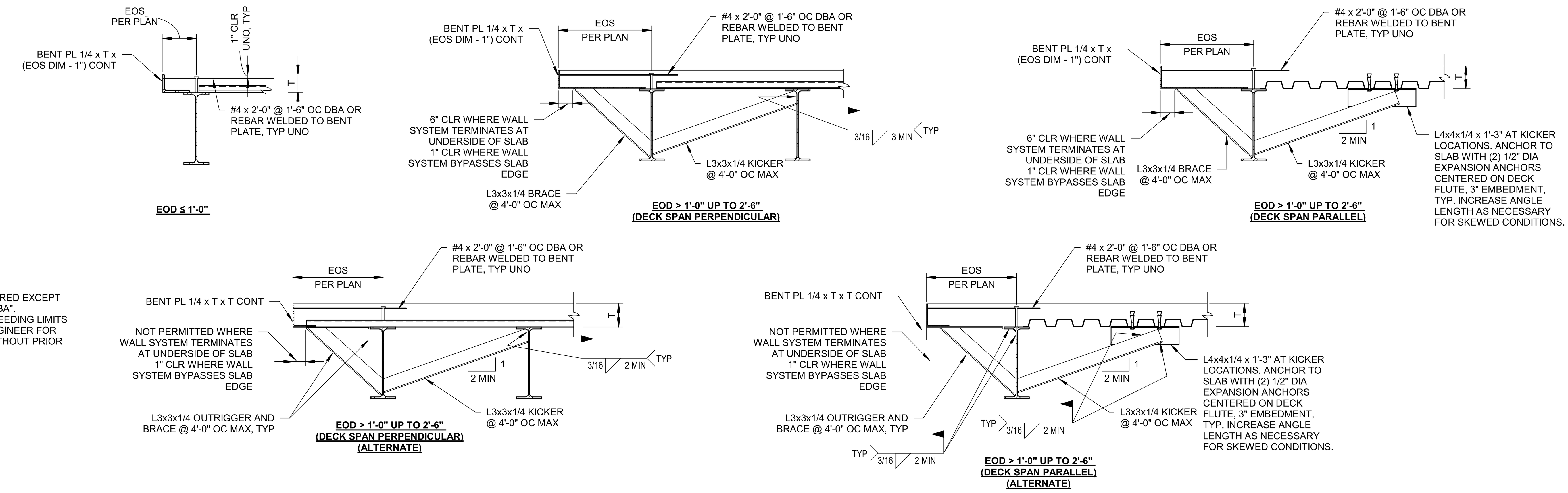
(FOR OPENINGS 12" AND LARGER)

NOTE: COORDINATE OPENING SIZE AND LOCATION WITH CONTRACTOR REQUIRING THE OPENING. FASTEN DECK TO OPENING FRAME @ 6" OC MAX AROUND FRAME PERIMETER.

TYPICAL ROOF OPENING

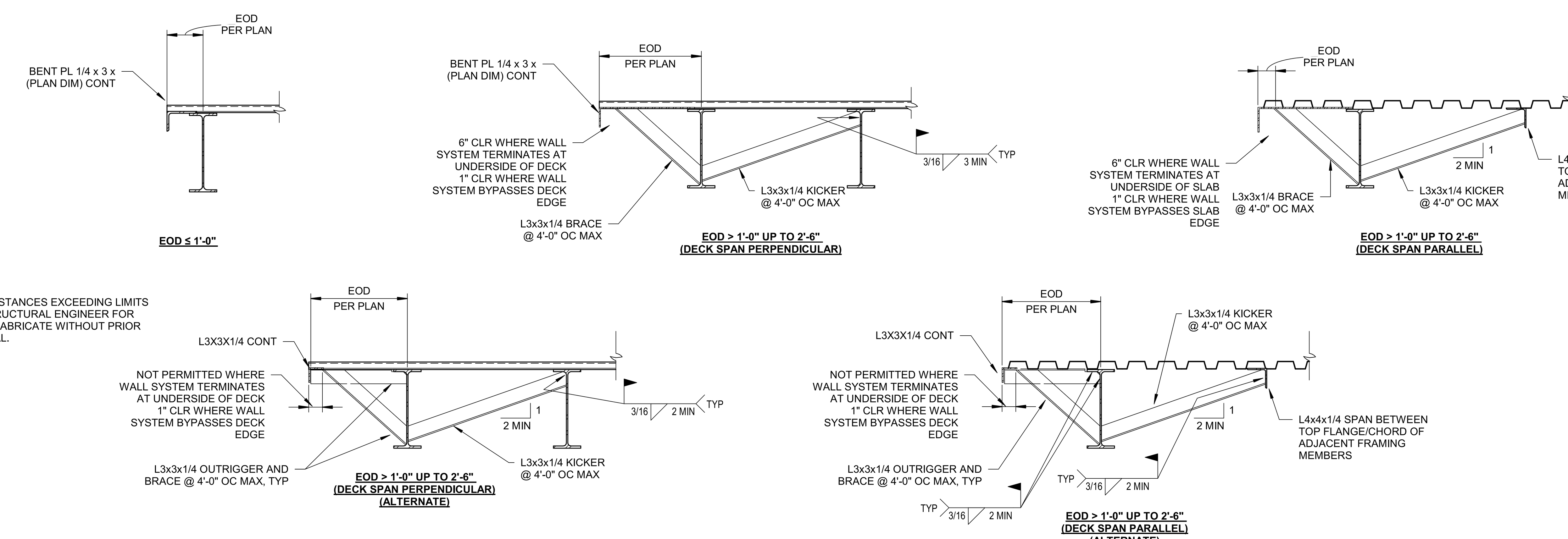
SCALE: 3/4" = 1'-0"   7 / S-506

NOTES:
1. DBA / REBAR AS INDICATED IS REQUIRED EXCEPT WHERE SPECIFICALLY NOTED "NO DBA".
2. FOR EDGE OF SLAB DISTANCES EXCEEDING LIMITS SHOWN, CONTACT STRUCTURAL ENGINEER FOR REVIEW AND DO NOT FABRICATE WITHOUT PRIOR REVIEW AND APPROVAL.



PERIMETER EDGE OF SLAB SUPPORT

SCALE: 3/4" = 1'-0"

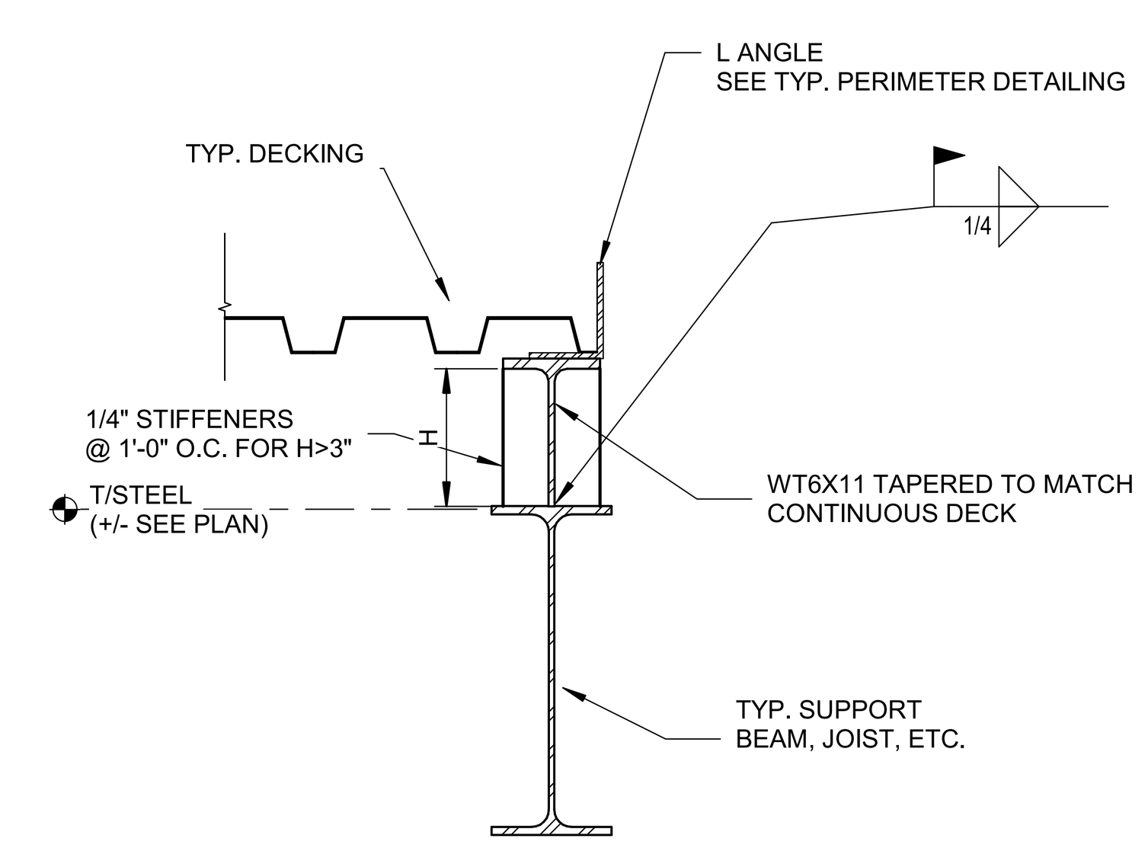


NOTES:
1. FOR EDGE OF DECK DISTANCES EXCEEDING LIMITS SHOWN, CONTACT STRUCTURAL ENGINEER FOR REVIEW AND DO NOT FABRICATE WITHOUT PRIOR REVIEW AND APPROVAL.

NOTE: AT "SIMILAR" CONDITION, PROVIDE FLAT PLATE PL 1/4 X PLAN DIM CONT (NO TURN-DOWN LEG)

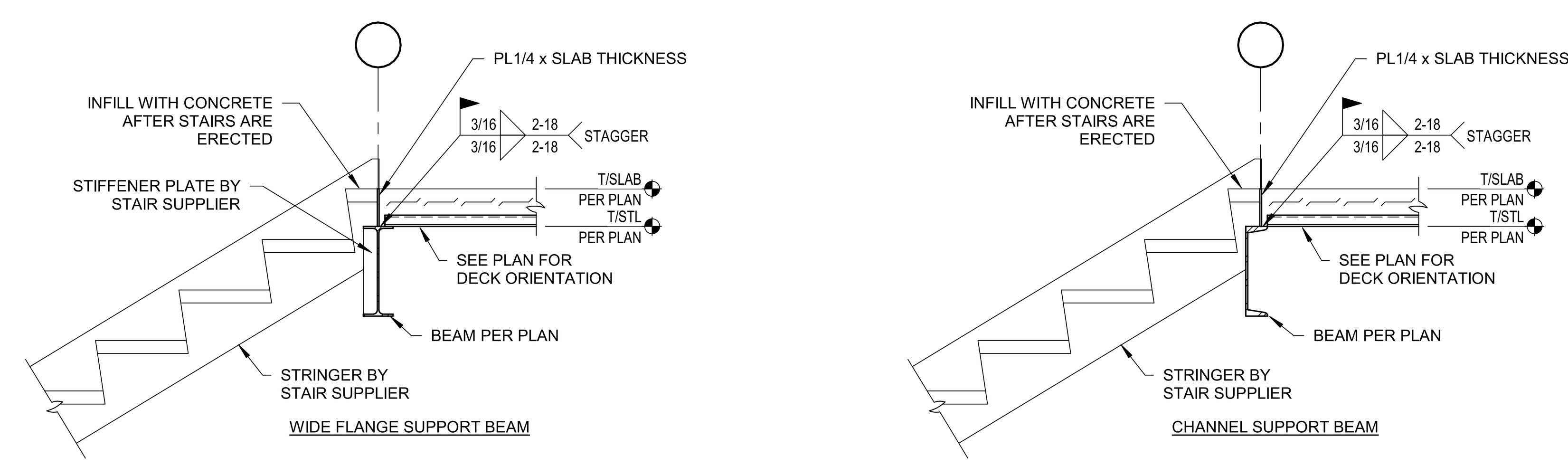
PERIMETER EDGE OF DECK SUPPORT

SCALE: 3/4" = 1'-0"



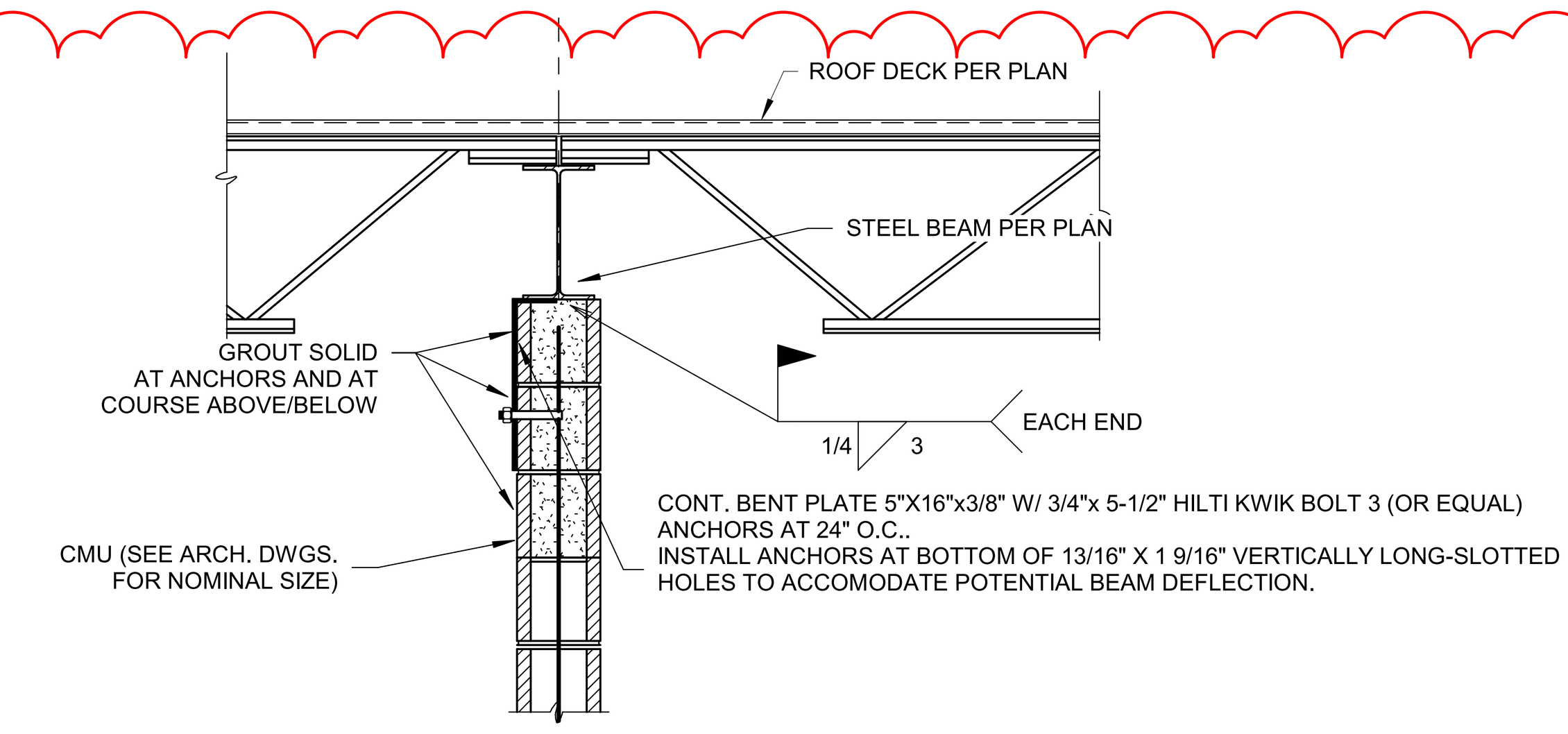
BUILT UP DECK SUPPORT

SCALE: 1 1/2" = 1'-0"   5 / S-506



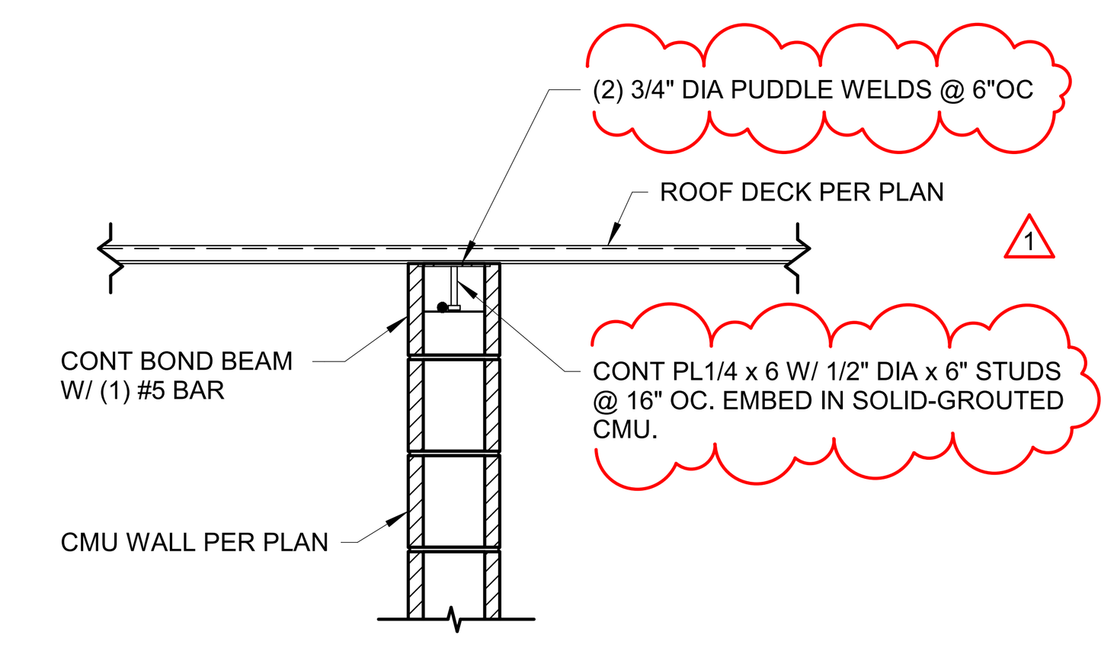
STAIR ATTACHMENT DETAIL

SCALE: 3/4" = 1'-0"   3 / S-506



STEEL BEAM OVER MASONRY SHEAR WALL CONNECTION

SCALE: 3/4" = 1'-0"   6 / S-506



NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. THIS DETAIL APPLIES FOR DECK PERPENDICULAR, PARALLEL AND SKEWED TO PERIMETER WALL, UNO. SEE PLANS FOR DECK SPAN DIRECTION.

TYPICAL ROOF DECK SUPPORT ON CMU WALL

SCALE: 3/4" = 1'-0"   4 / S-506

6 5 4 3 2 1

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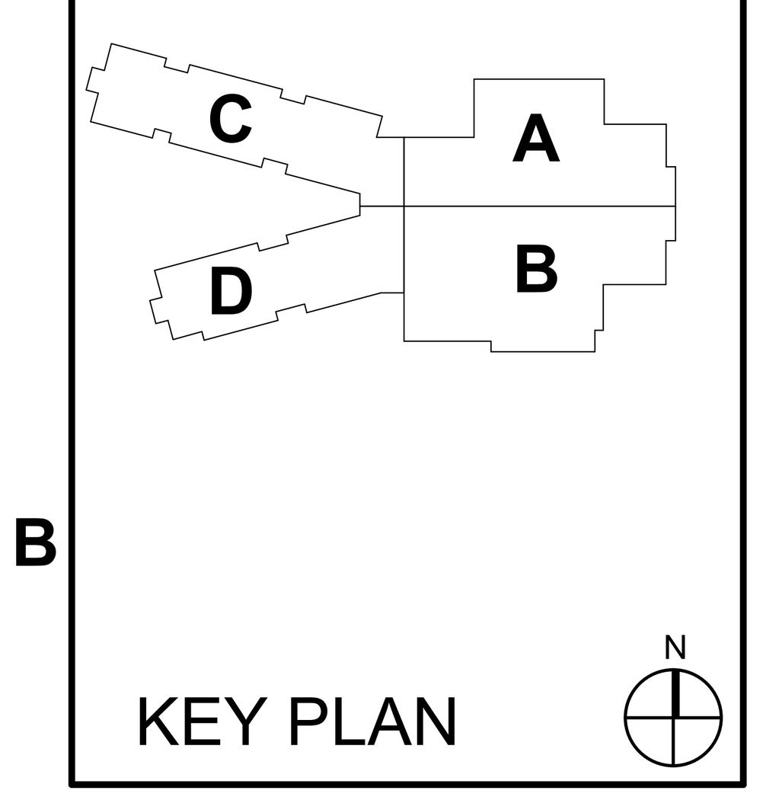


KEY PLAN

FRANKLIN TOWNSHIP CSC

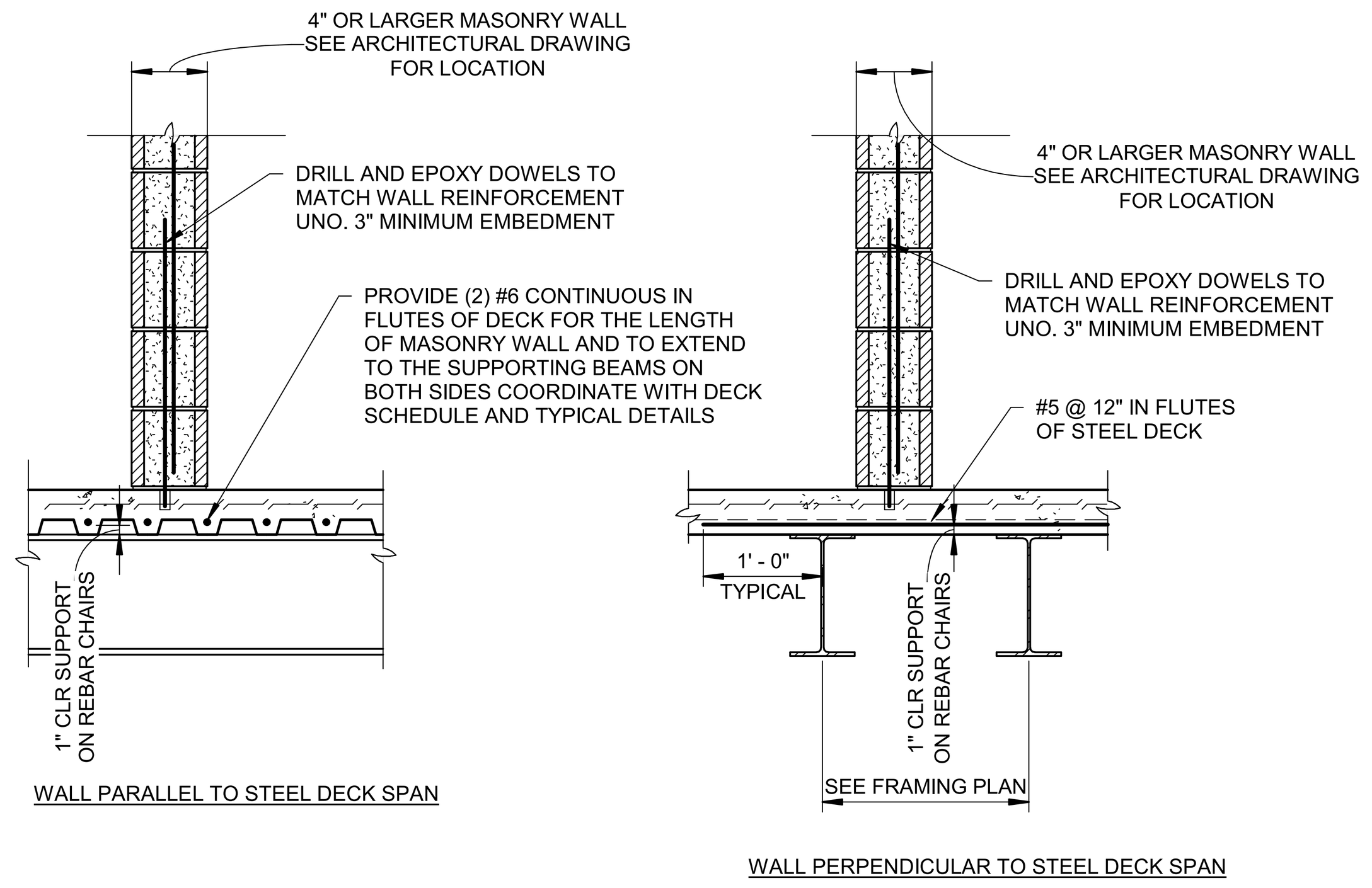
Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

TYPICAL ROOF FRAMING DETAILS

S-506

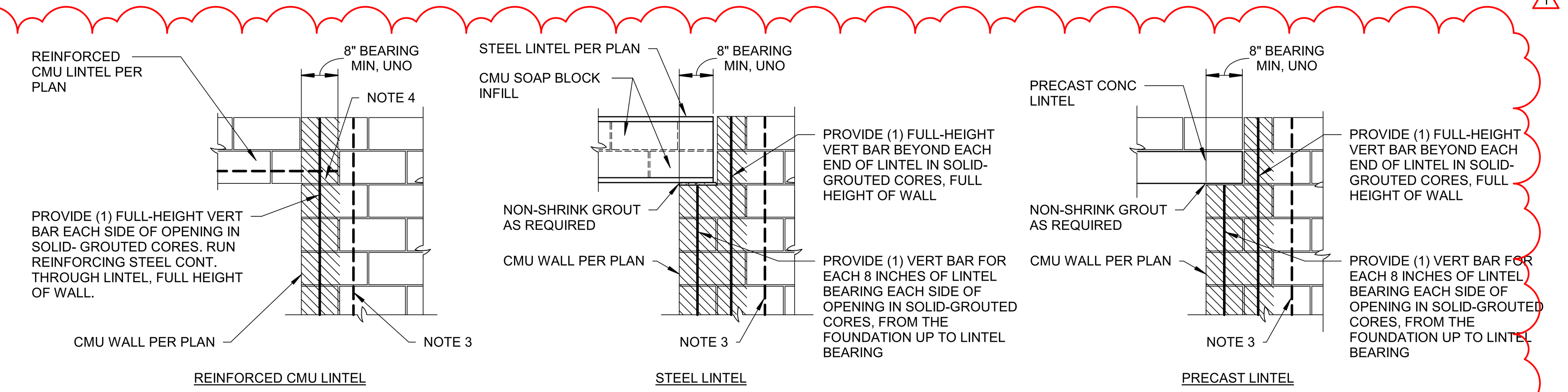
6 5 4 3 2 1



TYPICAL CMU WALL ON CONC SLAB ON METAL DECK

5 / S-507

SCALE: 3/4" = 1'-0"



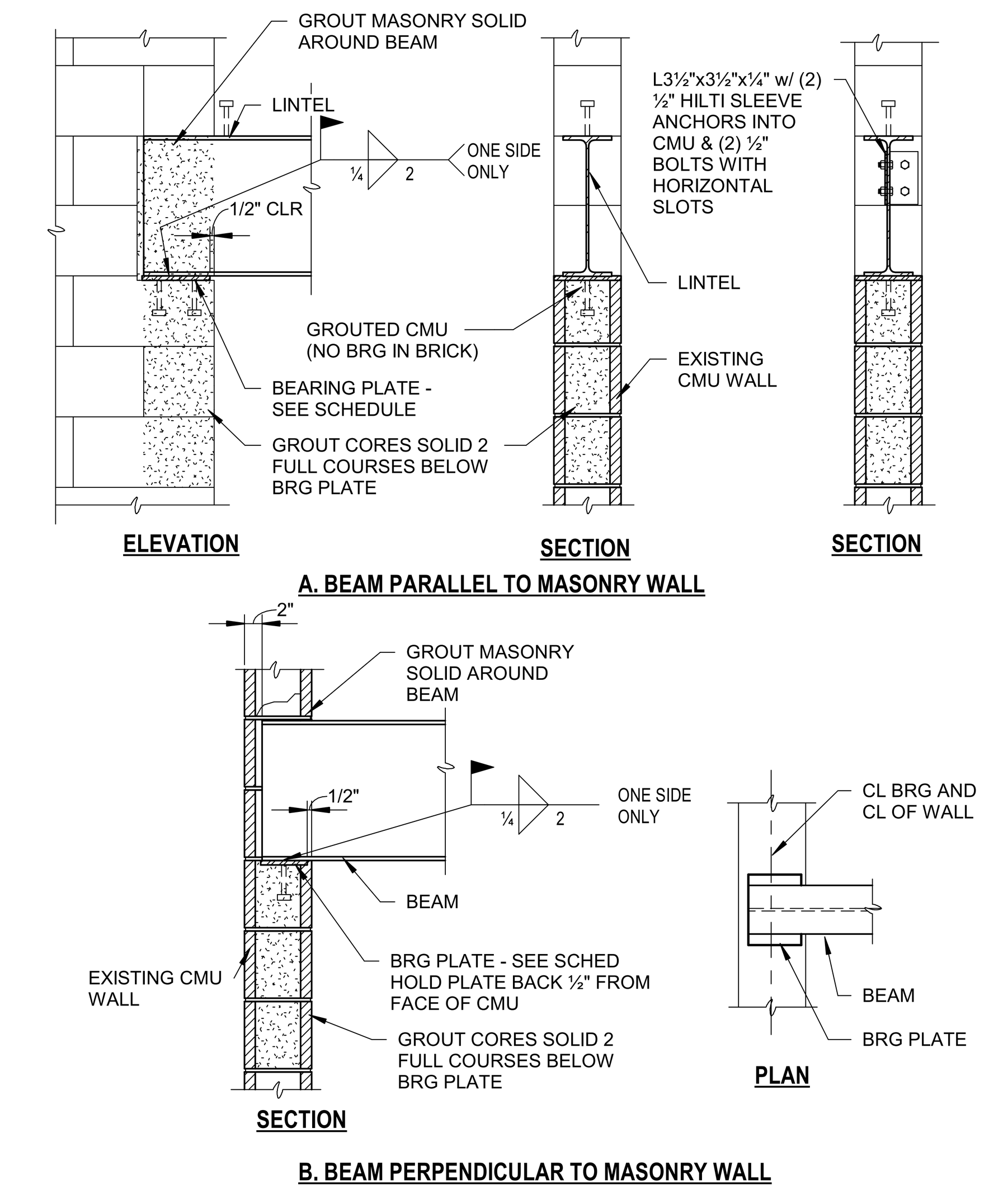
NOTES:

1. INSTALL LINTELS TO PROVIDE EQUAL BEARING LENGTH EACH SIDE OF OPENING, UNO.
2. VERTICAL BARS SHALL BE THE SAME SIZE AS TYPICAL VERTICAL WALL REINFORCEMENT, UNO.
3. FOR OPENINGS THAT INTERRUPT 2 OR MORE REGULARLY SPACED VERTICAL BARS, PROVIDE ONE ADDITIONAL FULL-HEIGHT BAR @ 8" OC ADJACENT TO EACH JAMB FOR EVERY 2 BARS INTERRUPTED BY THE OPENING.
4. AT CMU LINTEL BEARING, CUT OPENING THROUGH BOTTOM OF U-SHAPE LINTEL BLOCK AS REQUIRED TO ALLOW REINFORCEMENT AND GROUT PLACEMENT AT LINTEL BEARING.

TYPICAL LINTEL BEARING DETAILS

1 / S-507

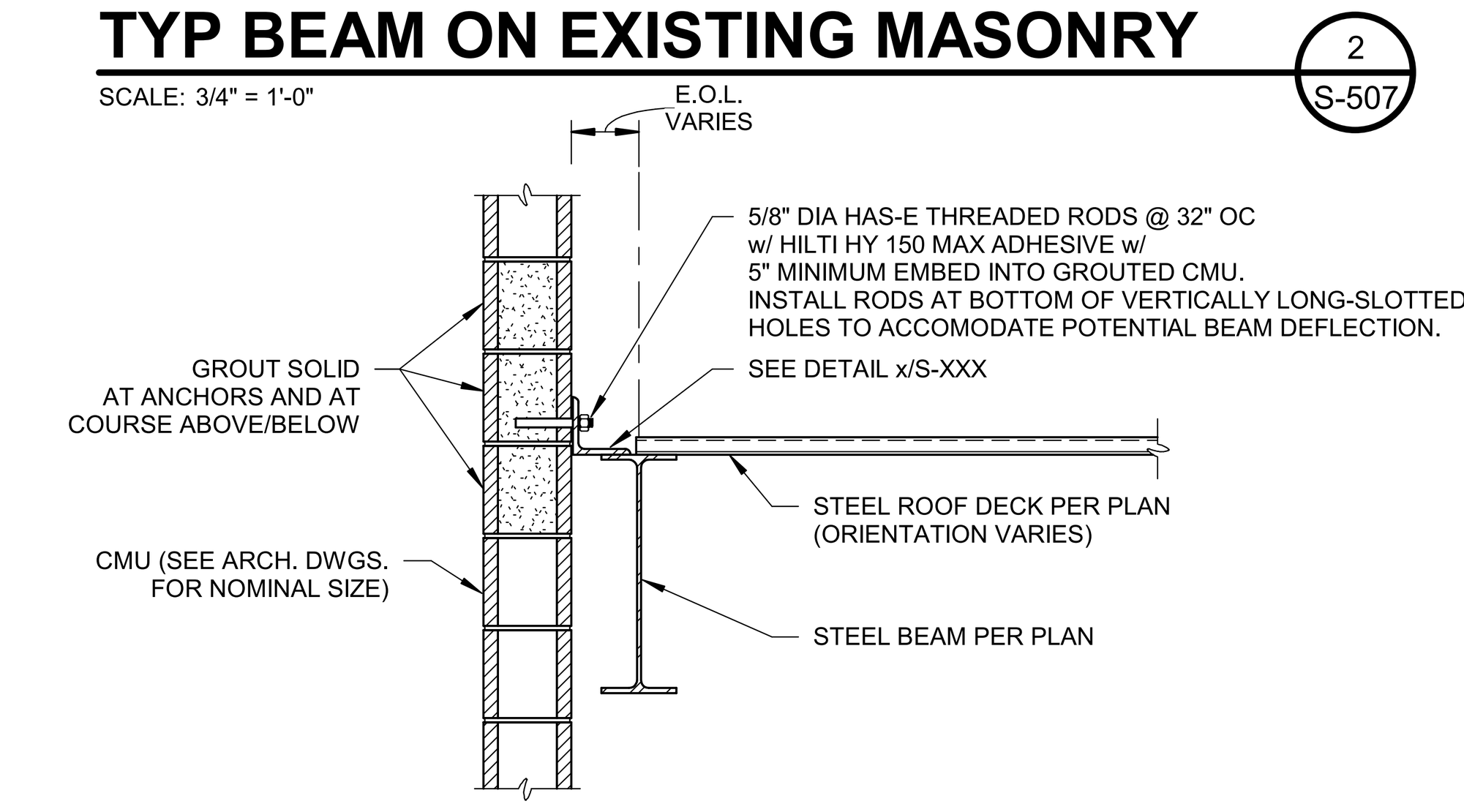
SCALE: 3/4" = 1'-0"



TYP BEAM ON EXISTING MASONRY

2 / S-507

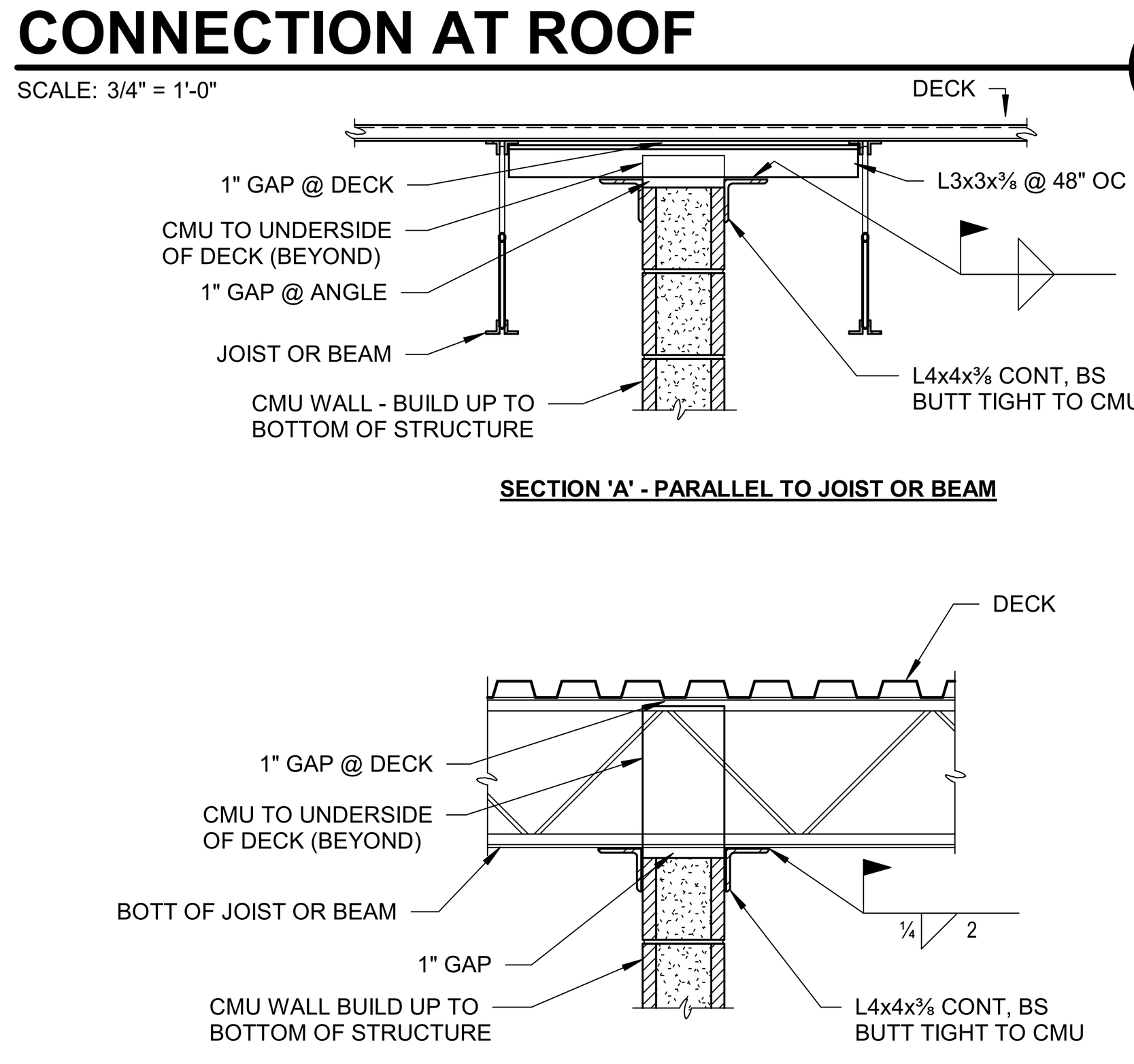
SCALE: 3/4" = 1'-0"



TYPICAL CMU-TO-STRUCTURE CONNECTION AT ROOF

3 / S-507

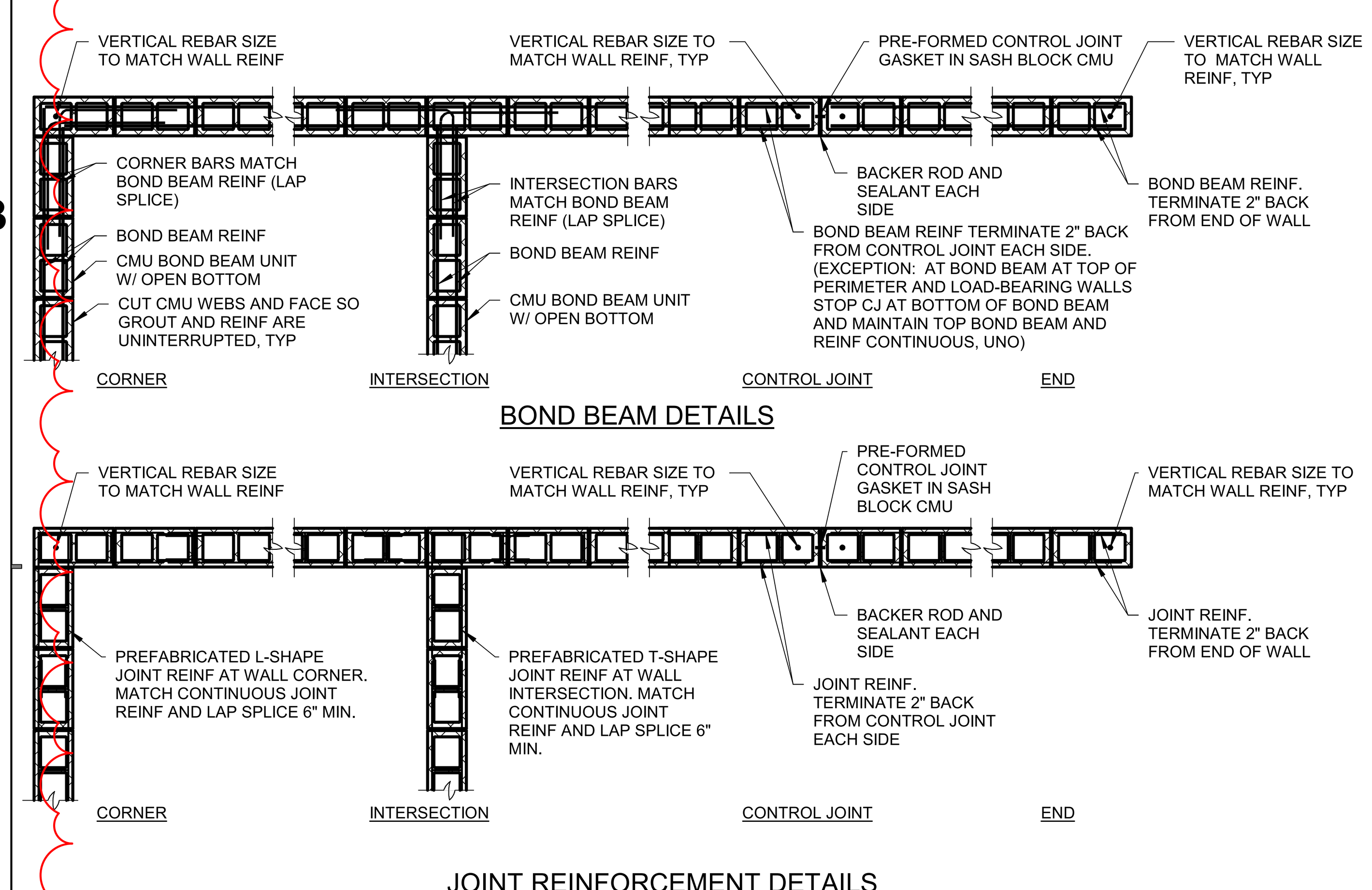
SCALE: 3/4" = 1'-0"

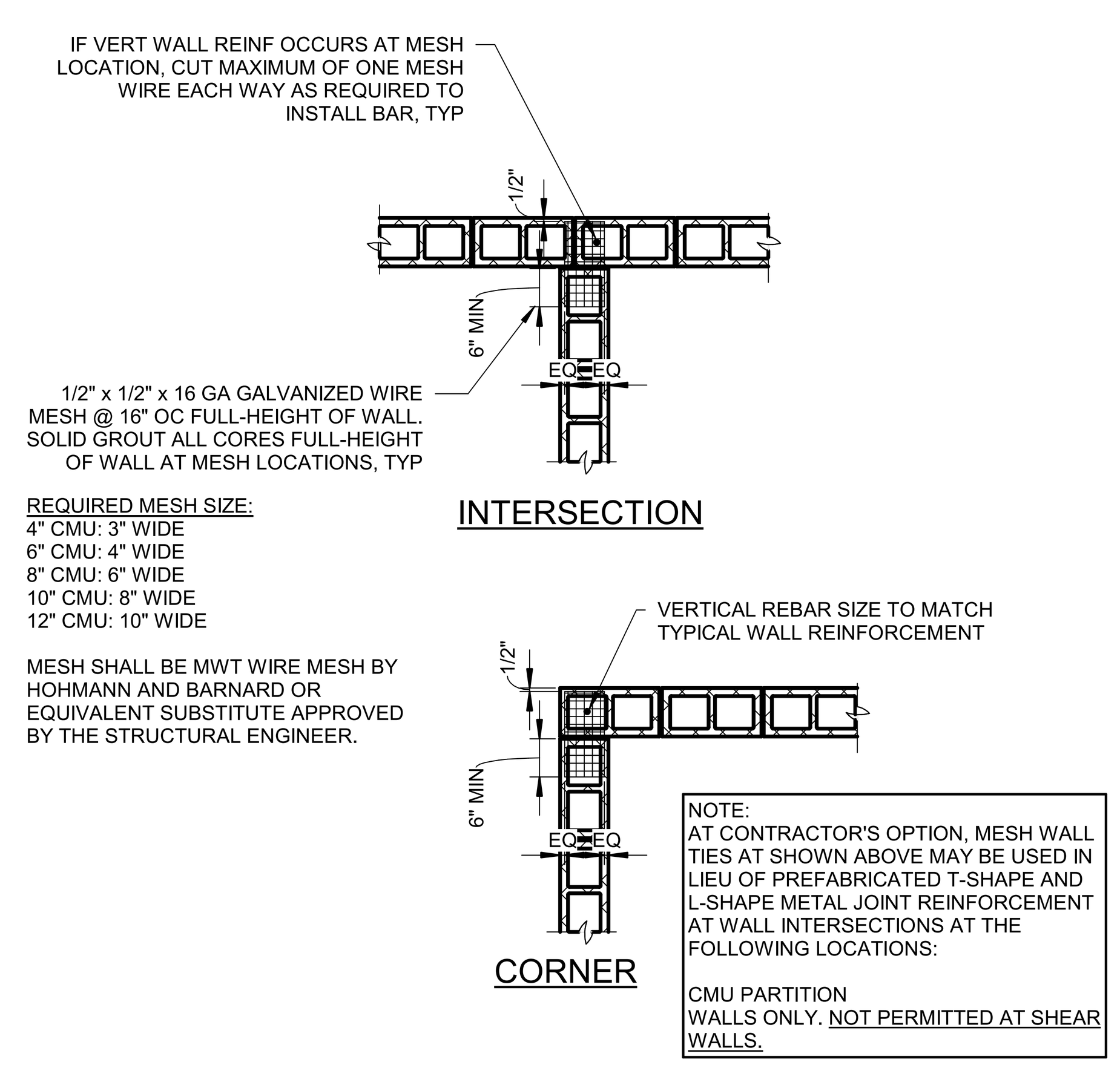


TYP CMU PARTITION ANCHOR DETAIL

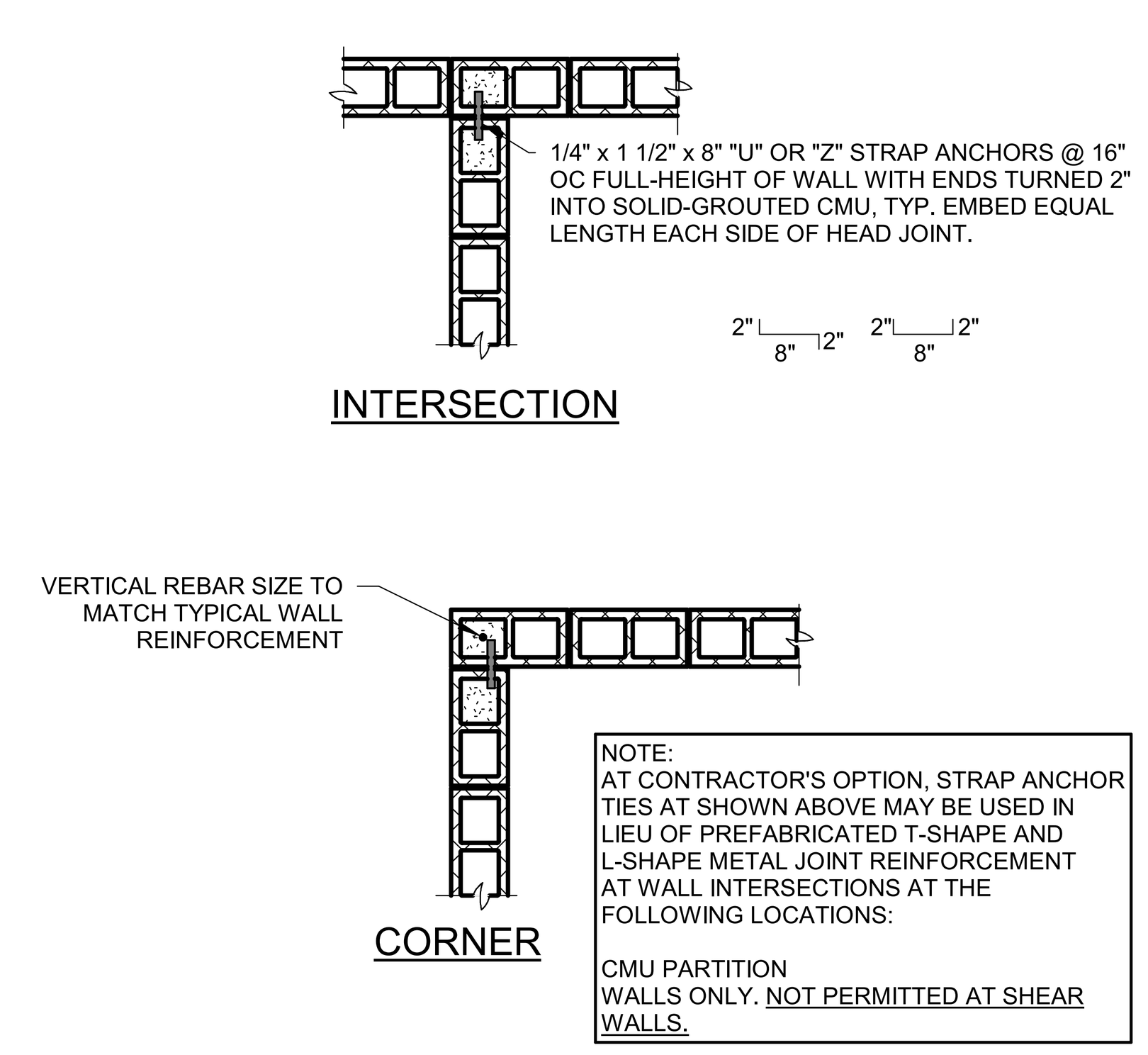
4 / S-507

SCALE: 3/4" = 1'-0"





ALTERNATE CMU WALL INTERSECTION TIE DETAIL (WIRE MESH)



ALTERNATE CMU WALL INTERSECTION TIE DETAIL (STRAP ANCHOR)

NOTES:

1. VERTICAL REINFORCEMENT INDICATED ON THIS DETAIL IS REQUIRED IN ADDITION TO SCHEDULED VERTICAL REINFORCEMENT, UNLESS SCHEDULED REINFORCEMENT ALREADY OCCURS AT THE INDICATED LOCATIONS.
2. PROVIDE LAPPED DOWELS INTO FOUNDATION AT ALL VERTICAL REINFORCEMENT.
3. PROVIDE HORIZONTAL JOINT REINFORCEMENT AND BOND BEAM REINFORCEMENT IN CMU WALLS IN ACCORDANCE WITH THE PROJECT DRAWINGS AND SPECIFICATIONS.

TYPICAL CMU WALL JOINT DETAILS

6 / S-507

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

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#	Revision	Date
001	Addendum 1	05.26.2022

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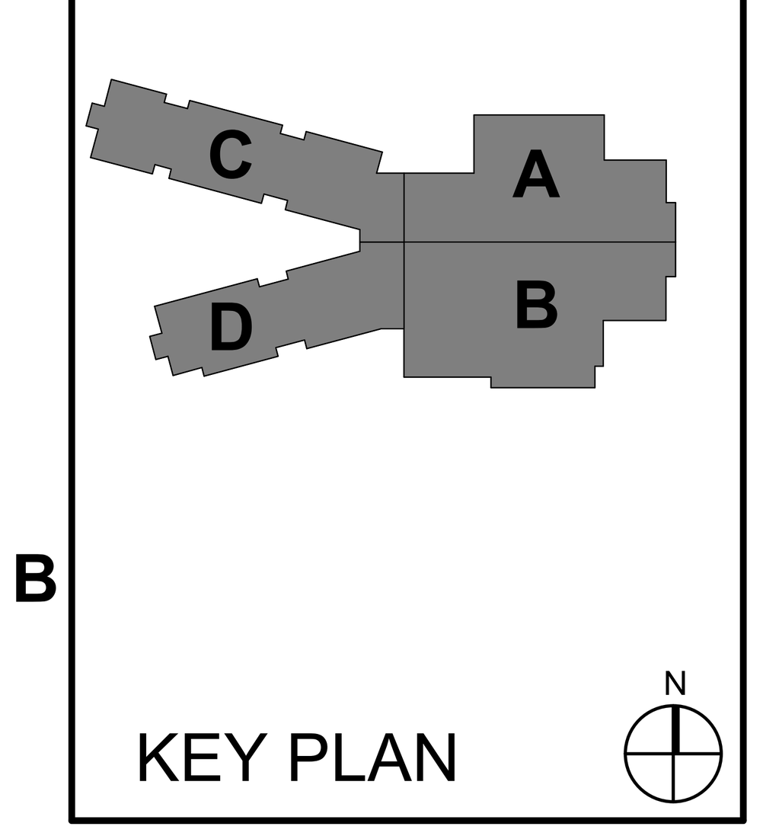


KEY PLAN

FRANKLIN TOWNSHIP CSC

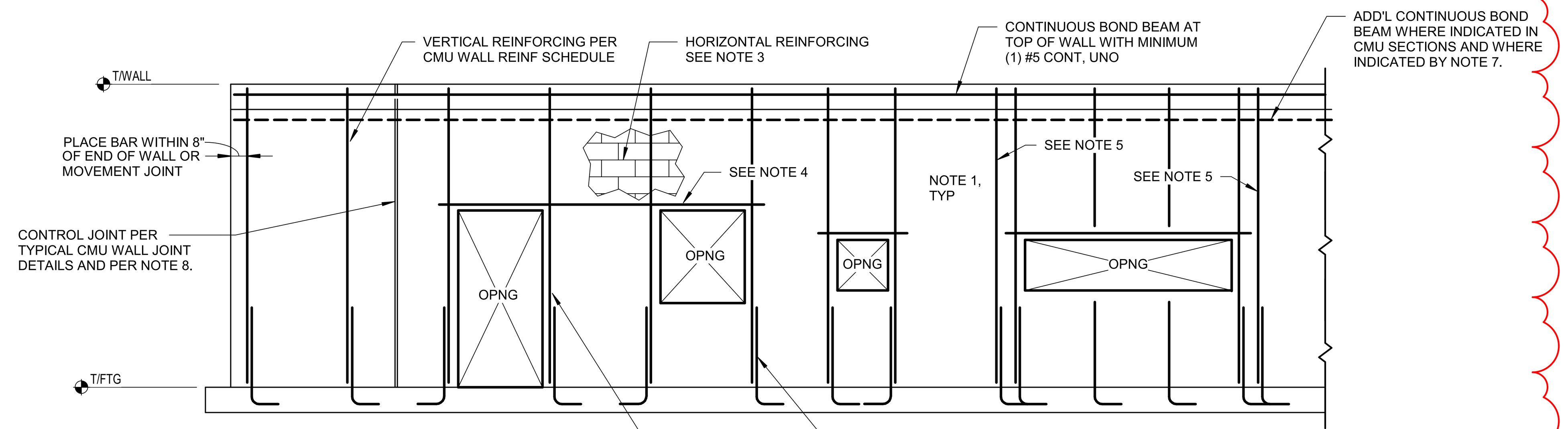
Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

TYPICAL MASONRY DETAILS

S-507

6 5 4 3 2 1



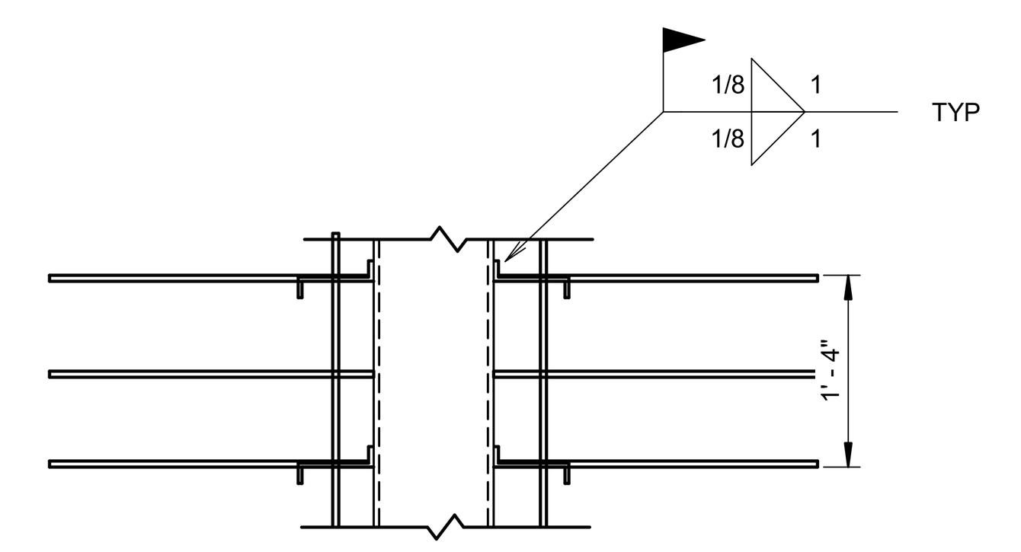
NOTES:

1. PROVIDE MINIMUM OF 8" BEARING AT BOND BEAM LINTELS, UNO.
2. PROVIDE FULL HEIGHT VERTICAL JAMB BAR EACH SIDE OF EVERY OPENING.
3. HORIZONTAL REINFORCING TO CONSIST OF 9 GAUGE LADDER TYPE WIRE REINFORCING SPACED AT 16" OC VERTICALLY, UNO.
4. PROVIDE CONTINUOUS BOND BEAM LINTELS OVER ADJACENT SAME-HEIGHT OPENINGS WITH LESS THAN 2'-8" OF MASONRY BETWEEN OPENINGS.
5. FOR OPENINGS THAT INTERRUPT 2 OR MORE REGULARLY SPACED VERTICAL BARS, PROVIDE ONE ADDITIONAL BAR AT 8" OC ADJACENT TO EACH JAMB FOR EVERY 2 BARS INTERRUPTED BY THE OPENING.
6. CONDITION SHOWN ON THIS DETAIL IS FOR BOND BEAM LINTELS. SEE LINTEL BEARING DETAILS FOR BAR PLACEMENT INFORMATION AT STEEL AND PRECAST LINTELS (WHEN PERMITTED).
7. FOR 6" TO 10" THICK WALLS, WHERE WALL IS GREATER THAN 14' TALL (MEASURED FROM TOP OF FOOTING) PROVIDE ADDITIONAL CONTINUOUS BOND BEAM AT 10'-0" ABOVE FINISH FLOOR AND AT 10'-0" OC MAX. FOR 12" THICK WALLS PROVIDE CONTINUOUS BOND BEAM AT 12'-0" OC MAX.
8. BOND BEAM REINFORCEMENT AT CONTROL JOINTS:
   A. FOR PERIMETER AND LOAD BEARING WALLS:
      a. EXTEND CJ FROM BOTTOM OF CMU WALL TO BOTTOM OF CONT BOND BEAM AT TOP OF WALL, UNO.
      b. EXTEND CJ FROM BOTTOM OF CMU WALL THROUGH BOND BEAM LOCATED NOT AT TOP OF WALL, UNO.
   B. FOR INTERIOR NON LOAD BEARING PARTITION WALLS: EXTEND CJ FULL HEIGHT OF WALL, UNO.

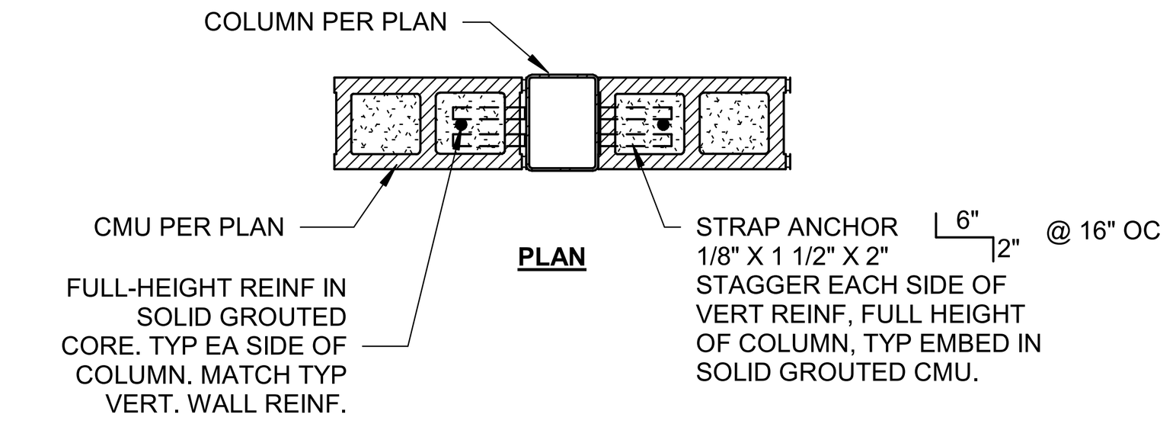
TYPICAL REINFORCING AT CMU WALLS

SCALE: 3/4" = 1'-0"

1 / S-508



ELEVATION



PLAN

TYP CMU ANCHOR AT STL COL

SCALE: 3/4" = 1'-0"

2 / S-508

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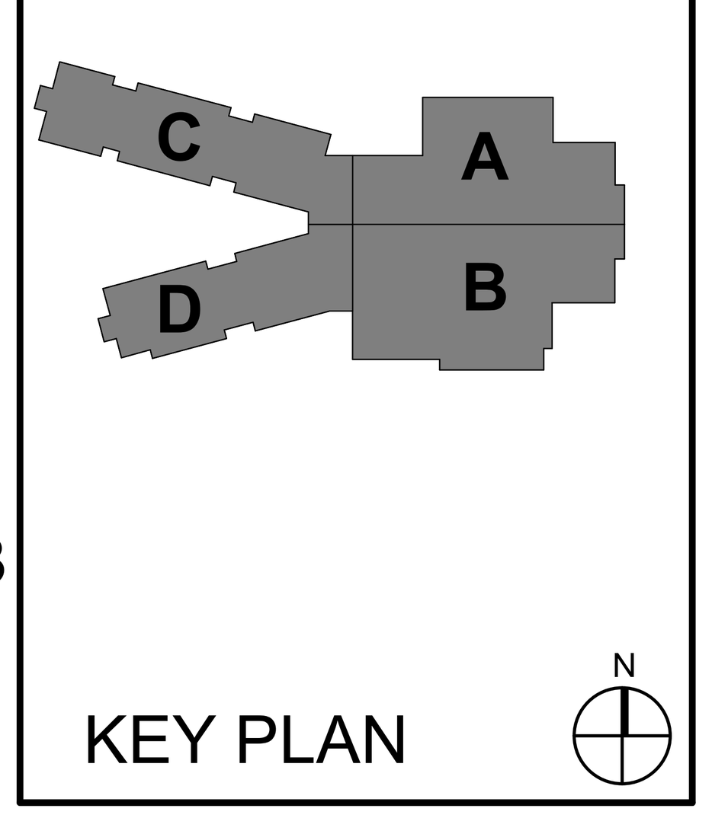


KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

TYPICAL MASONRY DETAILS

S-508

REINFORCING BAR LAP LENGTHS: Lt, Lc AND DEVELOPMENT LENGTHS: Ld, Ldh, Ldt, Ldc (INCHES)

	f 'c = 3000 PSI						f 'c = 4000 PSI						f 'c = 5000 PSI					
BAR SIZE	Lt	Lc	Ld	Ldh	Ldt	Ldc	Lt	Lc	Ld	Ldh	Ldt	Ldc	Lt	Lc	Ld	Ldh	Ldt	Ldc
#3	18	12	17	9	7	9	16	12	15	8	6	8	14	12	13	7	6	8
#4	29	15	22	11	9	11	25	15	19	10	8	10	23	15	17	9	7	9
#5	42	19	28	14	11	14	36	19	24	12	10	12	32	19	22	11	9	12
#6	55	23	33	17	14	17	48	23	29	15	12	15	43	23	26	13	11	14
#7	88	27	48	20	16	20	76	27	42	17	14	17	68	27	38	15	12	16
#8	107	30	55	22	18	22	93	30	48	19	16	19	83	30	43	17	14	18
#9	109	34	62	25	20	25	95	34	54	22	18	22	85	34	48	20	16	21
#10	126	39	70	28	23	28	109	39	61	25	20	25	98	39	54	22	18	23
#11	146	43	78	31	25	31	127	43	67	27	22	27	114	43	60	24	20	26

NOTES:

1. db = DIAMETER OF BAR BEING DEVELOPED
   Lt = "CLASS B" TENSION LAP SPLICE LENGTH
   Lc = COMPRESSION LAP SPLICE LENGTH
   Ld = TENSION DEVELOPMENT LENGTH OF STRAIGHT BARS
   Ldh = TENSION DEVELOPMENT LENGTH OF HOOKED BARS
   Ldt = TENSION DEVELOPMENT LENGTH OF HEADED BARS
   Ldc = COMPRESSION DEVELOPMENT LENGTH OF STRAIGHT BARS
2. TABULATED VALUES ARE CALCULATED PER THE PROVISIONS OF ACI 318
3. TABULATED VALUES ARE FOR NON-EPOXY-COATED GRADE 60 REINFORCEMENT IN NORMAL WEIGHT CONCRETE.
4. WHERE BARS OF DIFFERENT SIZES ARE LAPPED IN TENSION, THE LAP LENGTH SHALL BE THE LARGER OF Ld OF THE LARGER BAR AND Lt OF THE SMALLER BAR.
5. WHERE BARS OF DIFFERENT SIZES ARE LAPPED IN COMPRESSION, THE LAP LENGTH SHALL BE THE LARGER OF Ldc OF THE LARGER BAR AND Lc OF THE SMALLER BAR.
6. TABULATED VALUES FOR Lt ASSUME THE FOLLOWING:
   A) MINIMUM CLEAR SPACING BETWEEN REBAR IS THE GREATER OF THE BAR DIAMETER AND 1 INCH.
   B) MINIMUM CLEAR COVER IS 3/4 INCHES OR GREATER.
   C) BARS BEING SPLICED ARE NOT REQUIRED TO BE ENCLOSED WITHIN REINFOREMENT ACTING AS CONFINEMENT TIES
7. TABULATED VALUES FOR Ld ASSUME ONE OF THE FOLLOWING CONDITIONS IS PROVIDED; WHERE THESE CONDITIONS AREN'T ABLE TO BE MET, CONTACT ENGINEER OF RECORD FOR CONDITION SPECIFIC VALUES:
   A) BARS BEING DEVELOPED ARE ENLCOSED WITHIN REINFORCEMENT ACTING AS CONFINEMENT TIES, AND CLEAR SPACING OF BARS BEING DEVELOPED IS GREATER THAN OR EQUAL TO db, AND CLEAR COVER TO BAR BEING DEVELOPED IS GREATER THAN OR EQUAL TO db
   B) CLEAR SPACING OF BARS BEING DEVELOPED IS GREATER THAN OR EQUAL TO 2 TIMES db, AND CLEAR COVER TO BAR BEING DEVELOPED IS GREATER THAN OR EQUAL TO db
8. TABULATED VALUES FOR Ldt ARE ONLY VALID FOR NORMAL WEIGHT CONCRETE WITH CLEAR COVER NOT LESS THAN 2 TIMES db AND CLEAR SPACING NOT LESS THAN 4 TIMES db (CLEAR COVER AND SPACING REQUIREMENTS LISTED IN THE GENERAL NOTES APPLY TO THE HEAD/ANCHOR, CLEAR COVER AND SPACING IN THIS PROVISION ARE WITH RESPECT TO THE REINFORCING ONLY)
9. LENGTHS IN THE SCHEDULE SHALL BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS AS FOLLOWS:
   A) WHERE GRADE 75 REINFORCING IS USED, MULTIPLY THE TABLE VALUES AS FOLLOWS:
      i) Lt, Ld, Ldh, Ldc x1.25
      ii) Lc x1.45
      iii) Ldt NOT PERMITTED
   B) WHERE MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE BAR, ALSO REFERRED TO AS "TOP BARS" ("OTHER BARS" ARE ALL OTHER REINFORCING WHERE THIS DOES NOT APPLY)
      i) Lt, Ld x1.30
      ii) Lc, Ldh, Ldt, Ldc NO MODIFICATION
   C) WHERE EPOXY REBAR IS USED, MULTIPLY THE TABLE VALUES AS FOLLOWS:
      i) Lt, Ld (TOP BARS) x1.31
      ii) Lt, Ld (OTHER BARS) x1.50
      iii) Ldh, Ldt x1.20
      iv) Lc, Ldc NO MODIFICATION
   D) WHERE LIGHT-WEIGHT CONCRETE IS USED, MULTIPLY TABLE VALUE AS FOLLOWS:
      i) Lt, Ld, Ldh, Ldc x1.33
      ii) Lc, Ldt NOT PERMITTED
10. THIS TABLE IS NOT VALID FOR BUNDLED BARS.

COLUMN FOOTING SCHEDULE

Mark	Ftg Dimensions			Bottom Reinforcing						Remarks
				Short Direction			Long Direction			
	Width	Length	Thickness	No	Size	Length	No	Size	Length	
F4.0	4' - 0"	4' - 0"	1' - 0"	4	#5	3' - 6"	4	#5	3' - 6"	
F5.0	5' - 0"	5' - 0"	1' - 2"	5	#5	4' - 6"	5	#5	4' - 6"	
F5.5	5' - 6"	5' - 6"	1' - 2"	6	#5	5' - 0"	6	#5	5' - 0"	
F6.0	6' - 0"	6' - 0"	1' - 4"	7	#5	5' - 6"	7	#5	5' - 6"	
F7.0	7' - 0"	7' - 0"	1' - 6"	8	#6	6' - 6"	8	#6	6' - 6"	

Concrete Wall Schedule Notes:
1. Provide concrete cover to closest bar as indicated.
2. Provide wheel spacers or CRSI Typ. Bar Bend T5 at 36" each way to assure adequate concrete cover.
3. See sections for all bars not included in schedule.
4. Horizontal Bar Location: In = Horiz. bars inside of verical bars, Out = Horiz. Bars outside of vert. bars.

MASONRY SHEAR WALL SCHEDULE

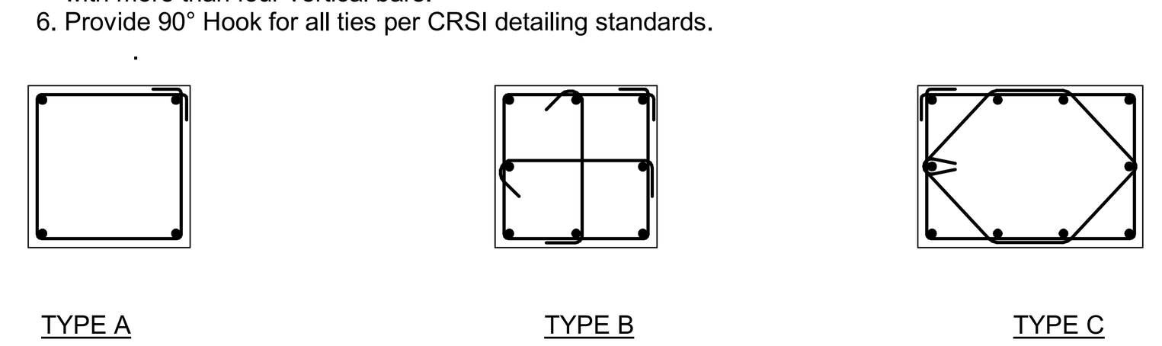
Mark	Thickness	Vertical Wall Reinforcing					Horiz Reinf		Top of Wall Bond Beam Reinforcing		Remarks
		Reinforcing			Dowel Reinforcing						
		Size	Spa	Location	Size	Spa	Size	Spa	No. of	Size	
MW8	7 5/8"	#5	2' - 8"	Center	#5	2' - 8"	Ladder	1' - 4"	2	#5	
MW12	11 5/8"	#7	2' - 8"	Center	#7	2' - 8"	Ladder	1' - 4"	2	#5	
MW12A	11 5/8"	#8	1' - 4"	Center	#7	2' - 8"	Ladder	1' - 4"	2	#5	
MW12B	11 5/8"	#8	8"	Center	#7	2' - 8"	Ladder	1' - 4"	2	#5	
MW12C	11 5/8"	#7	2' - 8"	Ea Face	#7	2' - 8"	Ladder	1' - 4"	2	#5	

Masonry Wall Schedule Notes
1. Provide 2" cover from outside face for bars in each face.
2. Grout all cores with rebar solid, unless solid grouted wall is shown.
3. Provide ladder type horizontal reinforcement at 16" o.c. above grade and 8" o.c. below grade and at parapets, unless noted otherwise. Side and cross rods shall be #9 wire, galvanized, see specifications. Cut joint reinforcement at control joints.
4. Provide bond beam with (2) #5 cont. at top of wall, unless noted otherwise. See schedule for additional bond beams.
5. CMU partition walls not explicitly labeled shall be reinforced with #5@48" o.c. for 6" and 8" CMU, #6@48" o.c. for 10" CMU and #7@48" o.c. for 12" CMU

PIER SCHEDULE

Mark	Pier Size		Vert Reinf		Ties			Remarks
	Width	Length	No	Size	Size	Spa	Tie Type	
P24	2' - 0"	2' - 0"	4	#8	#3	1' - 0"	TYPE A	
P28	2' - 4"	2' - 4"	8	#7	#3	1' - 0"	TYPE B	

Pier Schedule Notes:
1. Provide 2 inch concrete cover over ties.
2. Space first tie 2" from top of footing, last tie 2" from top of pier.
3. Provide (3) ties in top of pier, spacing = 2 1/2" on center.
4. Provide CRSI typical bar bend T5 for all ties.
5. Provide CRSI typical bar bend T9 additional ties for all piers with more than four vertical bars.
6. Provide 90° Hook for all ties per CRSI detailing standards.



THICKENED SLAB SCHEDULE

Mark	Thickness	Width	Reinf No of	Size	Remarks
TS18	1' - 0"	1' - 6"	3	#5	See detail B/S-501

Thickened Slab Schedule Notes:
1. Thickness measured from top of slab.

WALL FOOTING SCHEDULE

Mark	Dimensions		Bottom Reinf				Remarks
			Longitudinal Reinf		Transverse Reinf		
	Width	Thickness	No	Size	Size	Spa	
WF30	2' - 6"	1' - 0"	3	#5	NA	0"	
WF36	3' - 0"	1' - 4"	4	#5	NA	0"	
WF56	4' - 8"	1' - 4"	6	#5	NA	0"	

Wall Footing Schedule Notes:
1. Reinforcing clearance at bottom and sides of footings = 3"

1

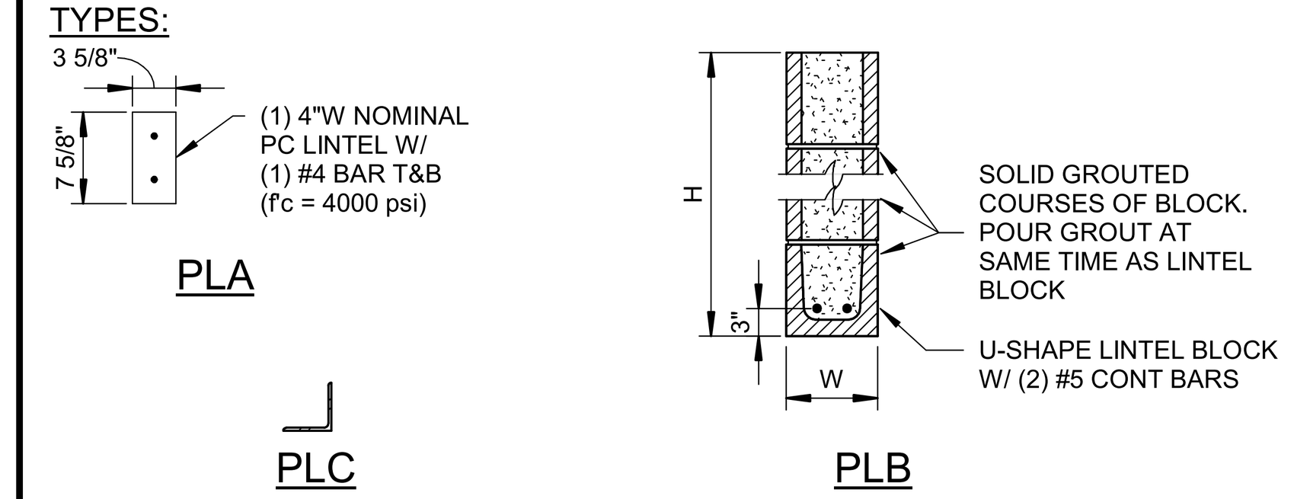
PRESCRIPTIVE LINTEL SCHEDULE

1

GENERAL NOTE: PROVIDE LINTELS IN THIS SCHEDULE FOR MASONRY OPENINGS WHERE SPECIFIC LINTELS (L#) ARE NOT OTHERWISE INDICATED. WHERE A SPECIFIC LINTEL (L#) IS INDICATED FOR A PARTICULAR OPENING, PROVIDE THE SPECIFIC LINTEL (L#). FOR OPENINGS BEYOND THE LIMITS AND/OR MATERIALS IDENTIFIED IN THIS SCHEDULE WHERE SPECIFIC LINTELS (L#) ARE NOT OTHERWISE INDICATED, CONTACT THE STRUCTURAL ENGINEER FOR REQUIRED LINTEL SIZE AND TYPE.

SECTION	CLEAR OPENING	TYPE	NOTES
W x 8 H (NOMINAL) CMU	UP TO 3'-4"	PLB	6", 8", 10", 12" CMU
W x 16 H (NOMINAL) CMU	>3'-4" UP TO 6'-4"	PLB	6", 8", 10", 12" CMU
W x 24 H (NOMINAL) CMU	>6'-4" UP TO 10'-4"	PLB	6", 8", 10", 12" CMU
L3 1/2 x 3 1/2 x 5/16	UP TO 4'-0"	PLC	4" MASONRY VENEER
L5 x 3 1/2 x 5/16 (LLV)	>4'-0" UP TO 6'-0"	PLC	4" MASONRY VENEER
L6 x 3 1/2 x 3/8 (LLV)	>6'-0" UP TO 8'-0"	PLC	4" MASONRY VENEER

TYPES:



PRESCRIPTIVE LINTEL SCHEDULE NOTES:
1. ALL LINTELS BEAR 0'-8" ONTO SUPPORTING WALLS, UNO.
2. ALL STEEL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.

COLUMN BASE PLATE SCHEDULE

MARK	PLATE SIZE	ANCHOR RODS		DIMENSIONS		BASE PLATE TYPE	COLUMNS
	B" X N" X T"	QTY	DIA	E	EQ		
BP0	16" X 16" X 1.25"	4	1"	2"	6"		HSS6x6 COLUMNS
BP1	18" X 18" X 1.5"	4	1.25"	2"	7"		HSS8x8 COLUMNS
BP2	24" X 24" X 2"	4	1.75"	3"	9"		HSS12x12 COLUMNS AND (4) HSS6X1.88

NOTES:
1. REFER TO S-402 FOR TYPICAL BASE PLATE FOUNDATION DETAIL

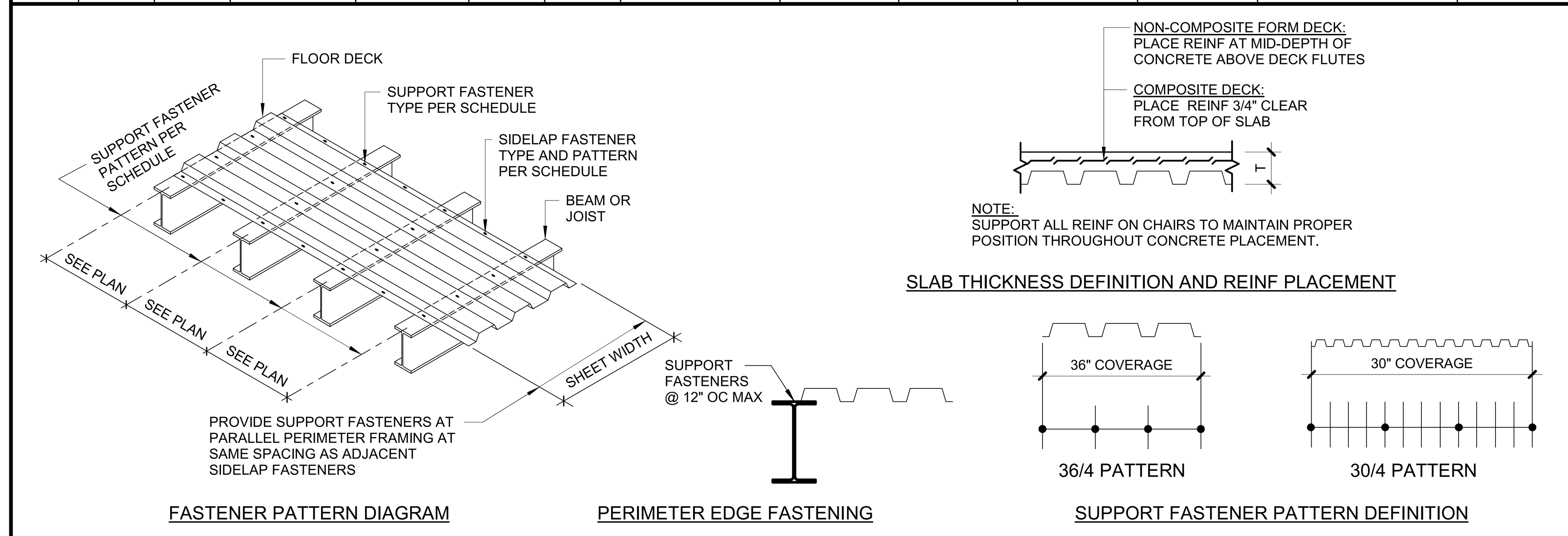
ANCHOR ROD TABLE

ANCHOR ROD DIA	BASEPLATE HOLE DIA	MINIMUM WASHER SIZE	MINIMUM WASHER THICKNESS	MINIMUM PROJ ABOVE T/CONC	NON-SHRINK GROUT BED THK	MIN EDGE DISTANCE, E	REMARKS
3/4"	1 5/16"	2"	1/4"	8"	2"	1 1/2"	
1"	1 13/16"	3"	3/8"	8"	2"	2"	
1 1/4"	2 1/16"	3"	1/2"	10"	3"	2"	
1 1/2"	2 5/16"	3 1/2"	1/2"	10"	3"	2 1/2"	
1 3/4"	2 3/4"	4"	5/8"	10"	3"	3"	

NOTES:
1. ANCHOR RODS ARE ASTM F1554 GR. 36 UNO.
2. PROVIDE WELDED PLATE WASHERS IN ACCORDANCE WITH TYPICAL DETAIL AT ALL STEEL BRACED FRAMES AND MOMENT FRAMES, UNO.
3. REFER TO S-402 FOR ANCHOR ROD EMBEDMENT DEPTH.

SLAB ON METAL DECK SCHEDULE

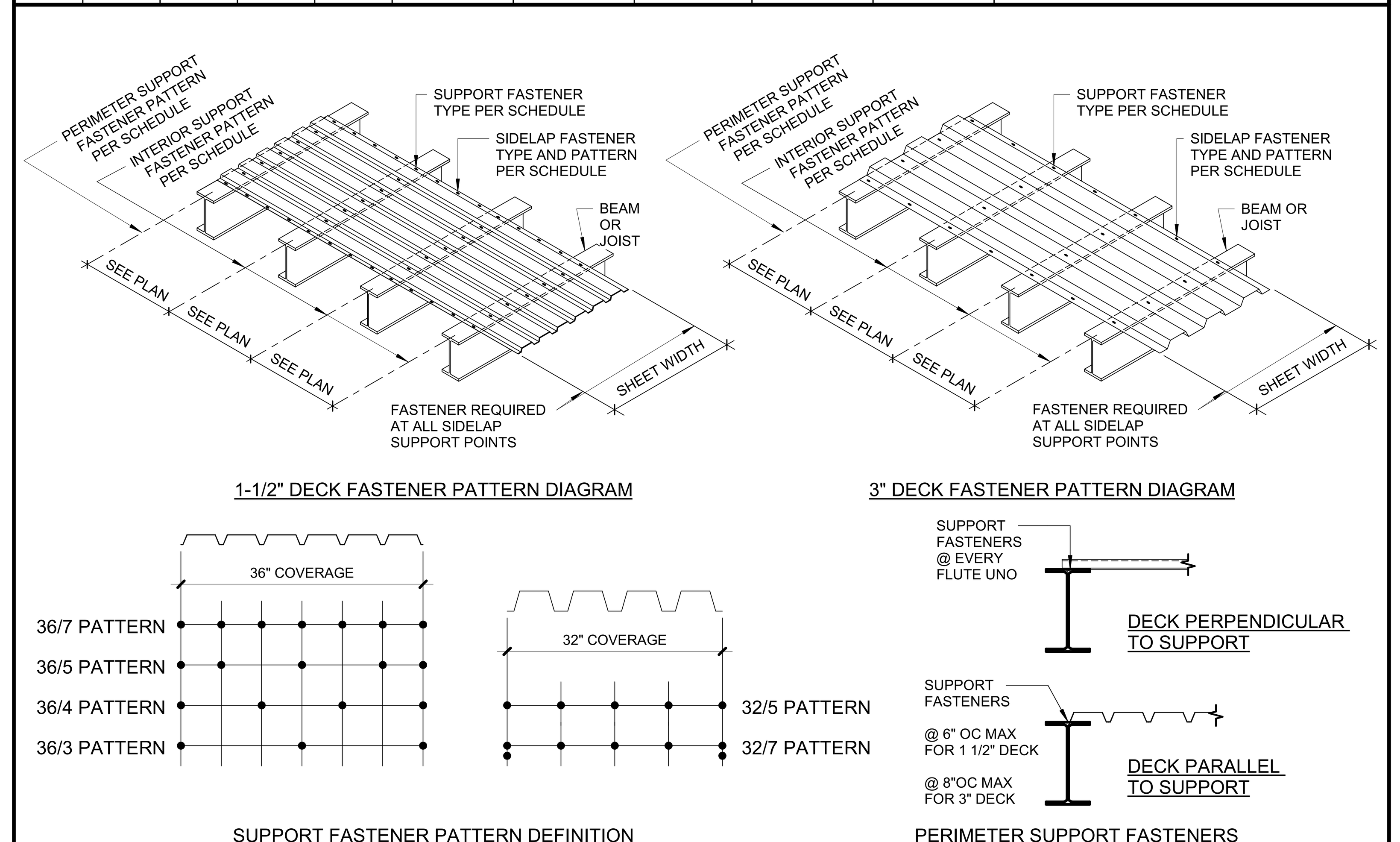
MARK	DECK HEIGHT	GAUGE	YIELD STRENGTH Fy	TYPE	FINISH	SLAB T	SLAB REINFORCING	SUPPORT FASTENER TYPE	SUPPORT FASTENER PATTERN	SIDELAP FASTENER TYPE	SIDELAP FASTENER PATTERN	BASIS OF DESIGN DECK (NOTE 6)	NOTES
SOMD5	2"	18 GA	50 KSI	COMPOSITE	GALV & PAINTED	5"	6x6-W1.4xW1.4 WWR	5/8" PUDDLE WELD	36/4	SEE NOTE 5	SEE NOTE 5	VULCRAFT 2VLI-36	
SOMD4	1"	22 GA	50 KSI	NON-COMP	GALV & PAINTED	4"	6x6-W1.4xW1.4 WWR	#10 TEK SCREW	36/4	SEE NOTE 5	SEE NOTE 5	VULCRAFT 1.0C-36	AT PLATFORM



NOTES:
1. CONCRETE TO BE NORMAL WEIGHT, UNO.
2. FASTEN THROUGH MULTIPLE SHEETS AT ALL END AND SIDE LAPS.
3. END LAPS SHALL OCCUR ONLY AT SUPPORT POINTS.
4. DECK SHALL BE INSTALLED IN A MINIMUM THREE SPAN CONDITION WHEREVER POSSIBLE. WHERE THREE SPAN CONDITION IS NOT POSSIBLE, NOTIFY STRUCTURAL ENGINEER PRIOR TO FABRICATION OF DECK SO THAT EVALUATION OF THE LESSER SPAN CONDITION(S) CAN BE PERFORMED.
5. FOR DECK SPANS 5'-0" OR LESS, PROVIDE ONE SIDELAP FASTENER AT MID-SPAN OF EACH JOIST OR BEAM SPACE. FOR DECK SPANS EXCEEDING 5'-0", PROVIDE SIDELAP FASTENERS AT 3'-0" OC, MAX. USE DECK MANUFACTURER'S RECOMMENDED PUNCHED SIDELAPS FOR COMPOSITE DECK AND NON-NESTING FORM DECK,UNO. USE #10 TEK SCREWS AT DECK WITH NESTED SIDELAPS, UNO.
6. PROVIDE DECK WITH ALL PROPERTIES MEETING OR EXCEEDING THE INDICATED BASIS OF DESIGN DECK.

ROOF DECK SCHEDULE

MARK	HEIGHT	GAUGE	TYPE	FINISH	SUPPORT FASTENER TYPE	PERIMETER SUPPORT FASTENER PATTERN	INTERIOR SUPPORT FASTENER PATTERN	SIDELAP FASTENER TYPE	SIDELAP FASTENER PATTERN	NOTES
RD01	1.5"	20 GA	TYPE B	GALV AND PAINTED	3/4" DIA PUDDLE WELDS	SEE BELOW	36/4	#10 TEK SCREWS	18" O.C. MAX	1.5B-36 VULCRAFT 20 GAUGE, AT LOW ROOFS < 25'-0"
RD02	1.5"	20 GA	TYPE B	GALV AND PAINTED	3/4" DIA PUDDLE WELDS	SEE BELOW	36/5	#10 TEK SCREWS	12" O.C. MAX	1.5B-36 VULCRAFT 20 GAUGE, AT HIGH ROOFS > 25'-0"



NOTES:
1. FASTEN THROUGH MULTIPLE SHEETS AT ALL END AND SIDE LAPS.
2. END LAPS SHALL OCCUR ONLY AT SUPPORT POINTS.
3. DECK SHALL BE INSTALLED IN A MINIMUM THREE SPAN CONDITION WHEREVER POSSIBLE. WHERE THREE SPAN CONDITION IS NOT POSSIBLE, NOTIFY STRUCTURAL ENGINEER PRIOR TO FABRICATION OF DECK SO THAT EVALUATION OF THE LESSER SPAN CONDITION(S) CAN BE PERFORMED.
4. PROVIDE 36/7 FASTENER PATTERN AT ALL BRACED FRAMES AND MOMENT FRAMES.

CONCRETE MIX SCHEDULE

CONCRETE USAGE	28-DAY COMPRESSIVE STRENGTH (PSI)	MAX CEMENT REPLACEMENT (NOTE 3)	MAXIMUM W/CM RATIO	AIR CONTENT (PERCENT)	MAXIMUM AGGREGATE SIZE (INCHES)	NOTES
FOOTINGS	3,000	20%	0.55	0-3	1.5	
GRADE BEAMS, PIERS, FOUNDATION WALLS	4,000	20%	0.50	0-3	1	
EXTERIOR RETG WALLS, STOOPS AND PADS	4,000	20%	0.45	6 +/- 1	1	
SLABS ON GRADE (6 INCHES OR LESS)	4,000	20%	0.48	0-3	1	
SLABS ON METAL DECK	4,000	20%	0.48	0-3	1	

NOTES:
1. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL CONCRETE IS NORMAL WEIGHT AND CEMENT IS ASTM C150 TYPE 1, UNO. DO NOT USE LIGHTWEIGHT CONCRETE UNLESS SPECIFICALLY INDICATED.
3. ACCEPTABLE CEMENT REPLACEMENT MATERIAL, WHERE PERMITTED, SHALL BE FLY ASH, ASTM C618 TYPE C OR F, UNO.
4. TARGET SLUMP SHALL BE DETERMINED BY THE CONTRACTOR AS NEEDED FOR PROPER PLACEMENT.

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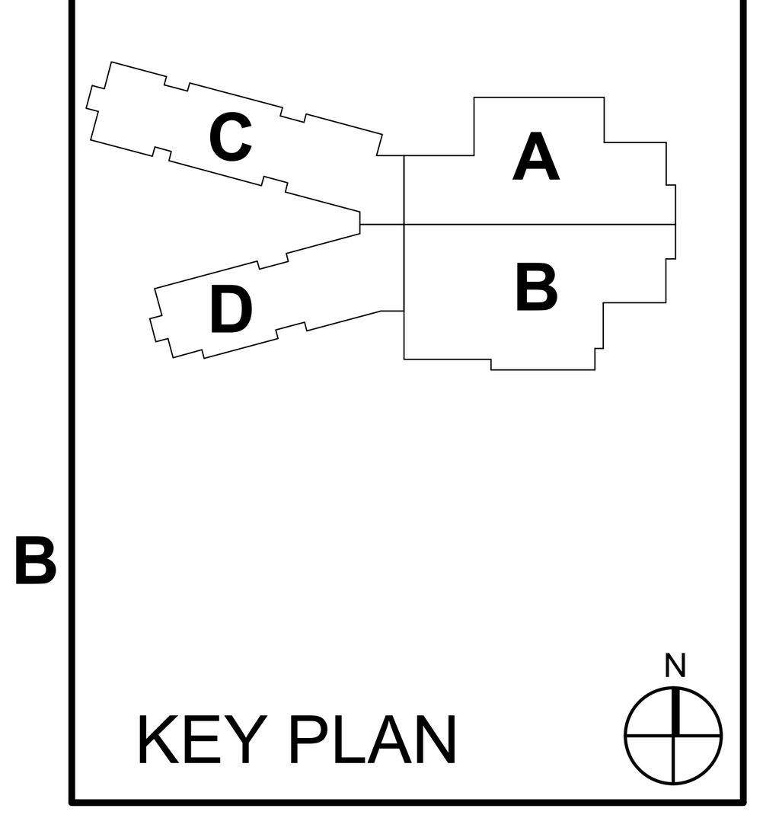
Project No. 2021-141.NES
Project Date 05.11.2022
Produced JLL NRT

JUSTIN L. LEIBERING REGISTERED No. 11500368 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
001	Addendum 1	05.26.2022

10559 E. THOMPSON RD



KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

SCHEDULES

S-700

FLOOR PLAN NOTES

#	Note
20	CONCRETE CURB, TYPICAL AROUND MECHANICAL ROOM PERIMETER AND OPENINGS. COORDINATE WITH S-SERIES DWGS.
21	KILN - BY OWNER.
22	OPEN TO BELOW.
23	07 95 00 - EXPANSION JOINT CONTROL COVER OVER ENTIRE EXPOSED AREA. REFER TO SPEC FOR DESCRIPTION OF JOINT COVERTO USE FOR DIFFERENT CONDITIONS.
24	ACCESS CONTROL CARD READER. REFER TO T-SERIES DWGS.
25	MECHANICAL EQUIPMENT. REFERENCE M-SERIES DWGS.
26	ANNUNCIATOR PANEL. REFERENCE E-SERIES DWGS.
27	10 51 13 - METAL LOCKERS ON CONCRETE BASE. TYPE A
28	05 50 00 - METAL LADDER.
29	12 24 13 - MANUAL ROLLER WINDOW SHADE.
30	06 40 23 - DISPLAY CASE.
31	11 61 43 - PLATFORM CURTAINS P-1.
32	11 61 43 - PLATFORM CURTAINS B-1.
33	10 81 13 - BIRD NETTING AT BOTH SIDES OF CANOPY STRUCTURAL MEMBERS TO FULLY PREVENT ENTRUSION.
34	10 14 00 - BUILDING PLAQUE
35	05 52 13 - PIPE AND TUBE GUARDRAIL.
36	05 73 00 - DECORATIVE METAL RAILING TYPE A
37	INTERCOM - TALK/VIDEO. REFER TO T-SERIES DRAWINGS.
38	PANIC BUTTON ON MILLWORK. REFER TO T-SERIES DRAWINGS.
39	08 71 00 - LOCK/UNLOCK SWITCH FROM RECEPTION DESK FOR 3 DOORS.
40	PLYWOOD PANELS AROUND ROOM. REFER TO T-SERIES DRAWINGS.
41	11 40 00 - KITCHEN EQUIPMENT. REFERENCE Q-SERIES DRAWINGS.
42	11 66 43.99 - INTERIOR SCORE BOARD
43	05 53 00 - METAL GRATINGS.
44	05 73 00 - DECORATIVE METAL RAILING TYPE B
45	05 73 00 - DECORATIVE METAL RAILING TYPE C
46	08 71 00 - BOLLARD MOUNTED ADA AUTOMATIC OPERATOR AND CARD READER. COORDINATE LOCATION WITH ARCHITECT.

FLOOR PLAN NOTES

#	Note
1	04 20 00 - KNOX BOX @ 46" AFF; COORDINATE EXACT LOCATION WITH OWNER AND LOCAL FIRE DEPARTMENT.
2	LINE OF CANOPY ABOVE; REFERENCE ROOF PLAN
3	07 71 00 - METAL DOWNSPOUT. REFER TO ROOF PLAN FOR SIZE. COORDINATE WITH C-SERIES DWGS FOR BOOT CONNECTION.
4	10 21 23 - CUBICAL CURTAINS AND TRACK
5	10 22 39 - GLASS OPERABLE PARTITION.
6	11 66 23 - FRONT FOLDING BACKSTOP. SUSPEND BACKSTOP FROM STRUCTURE ABOVE. COORDINATE FINAL LOCATION WITH S-SERIES DRAWINGS.
7	11 66 23 - GYMNASIUM DIVIDER CURTAIN.
8	11 66 23 - GYMNASIUM ATHLETIC WALL PADS. CUSTOM FIT TO COLUMNS AND PROVIDE CUT OUTS AROUND EQUIPMENT AND DEVICES.
9	LINE OF WALL ABOVE.
10	08 71 00 - ADA AUTOMATIC OPERATOR; COORDINATE LOCATION WITH ARCHITECT.
11	MOP SINK. REFER TO P-SERIES DRAWINGS. PROVIDE MOP HOLDER ABOVE SINK.
12	09 64 66 - WOOD ATHLETIC FLOORING SYSTEM. PROVIDE RECESS IN CONC SLAB AS REQUIRED. REFERENCE I-SERIES DRAWINGS FOR COURT STRIPING LOCATION AND COLORS.
13	12 66 00 - TELESCOPING BLEACHERS.
14	11 66 23 - GYMNASIUM CONTROL CENTER - COORDINATE WITH E-SERIES DWGS.
15	11 66 23 - RECESSED VOLLEYBALL POST FLOOR SLEEVE WITH COVER. COORDINATE FINAL LOCATION WITH ARCHITECT.
16	10 14 00 - BUILDING SIGNAGE REFER TO ELEVATIONS.
17	SLAB RECESS FOR INSULATED COOLER/FREEZER UNIT. REFER TO QF SERIES DWGS.
18	05 50 00 - PREFABRICATED STEEL SHIPS LADDER.
19	09 64 66 - WOOD ATHLETIC FLOORING TRANSITION PLATE.

General Plan Notes

A. All dimensions shown are to face of stud or masonry, unless noted otherwise. Dimensions designated as "CLR or "clear" indicate a clear dimension from face of finish to face of finish. Dimensions of exterior walls are to outside edge of foundation.

B. Dimensions for all openings for Mechanical, Plumbing, Fire Protection and Electrical shall be fire stopped at each floor penetration.

C. Provide bracing and blocking as required in walls supporting casework, tackboards, markerboards, and restroom accessories.

D. All door frames are located 4" from adjacent wall, unless noted otherwise.

E. All exposed outside corners of CMU shall be bullnosed.

F. Seal all joints between dissimilar materials.

G. All gypsum wallboard is 5/8" Type "X", unless noted otherwise.

H. All exterior windows are Type "SF7", unless noted otherwise.

I. All interior walls are Type "S4ID", unless noted otherwise.

J. Base elevation is 0'-0" = 819.75' (United States Geological Survey data).

K. Hatching within walls shown in plans and sections indicates new construction.

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Project No. 2021-141.NES
Project Date 05.11.2022
Produced TE CA

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT
Sarah K Hempstead

#	Revision	Date
A1	Addendum 1	05.31.2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239

KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR PLAN - UNIT B

AF1B1

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

FLOOR PLAN NOTES

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H. All exterior windows are Type "SF7", unless noted otherwise.

I. All interior walls are Type "S4iD", unless noted otherwise.

J. Base elevation is 0'-0" = 819.75' (United States Geological Survey data).

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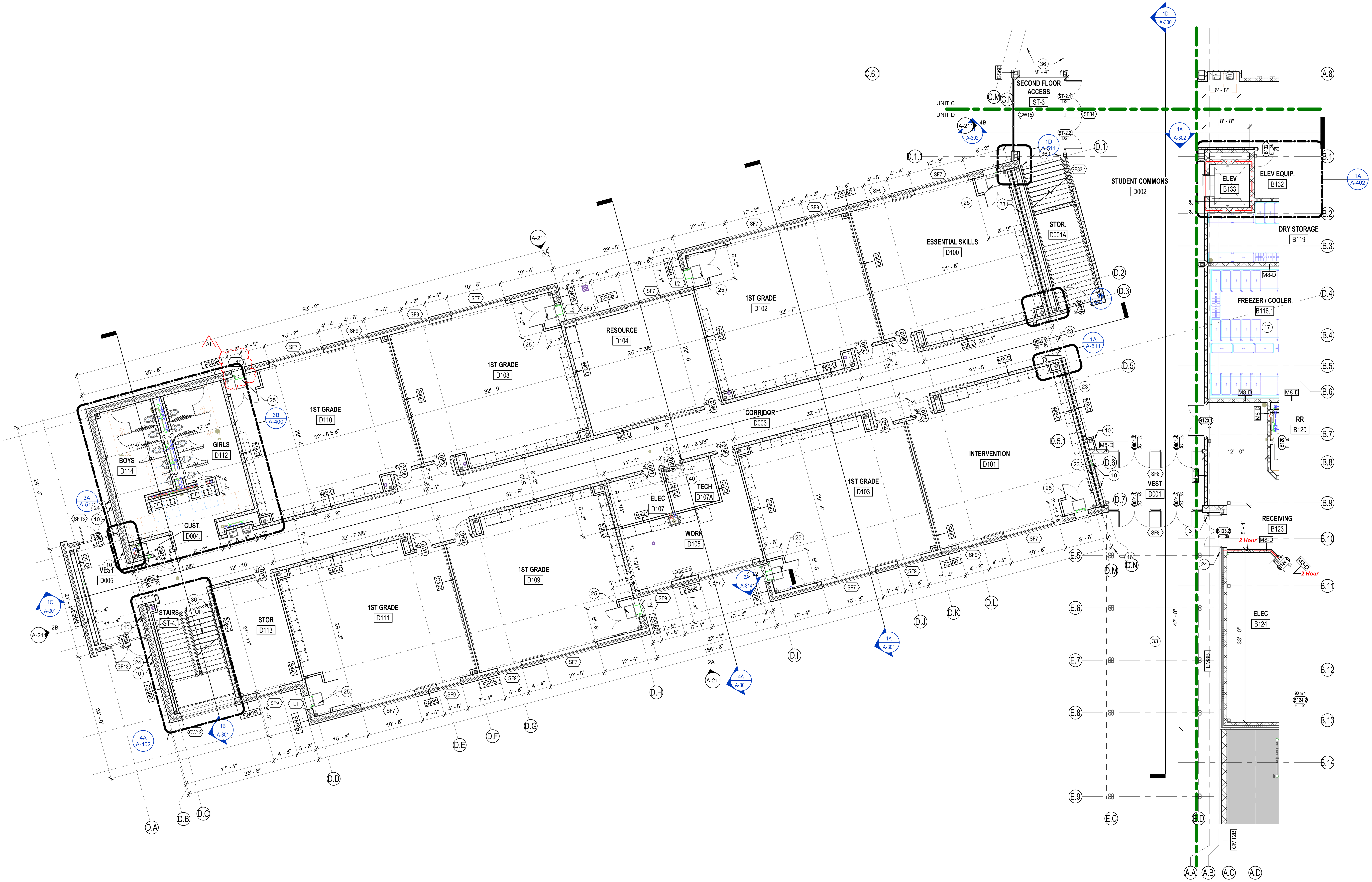

1A FIRST FLOOR - UNIT D
1/8" = 1'-0"

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Project No. 2021-141.NES
Project Date 05.11.2022
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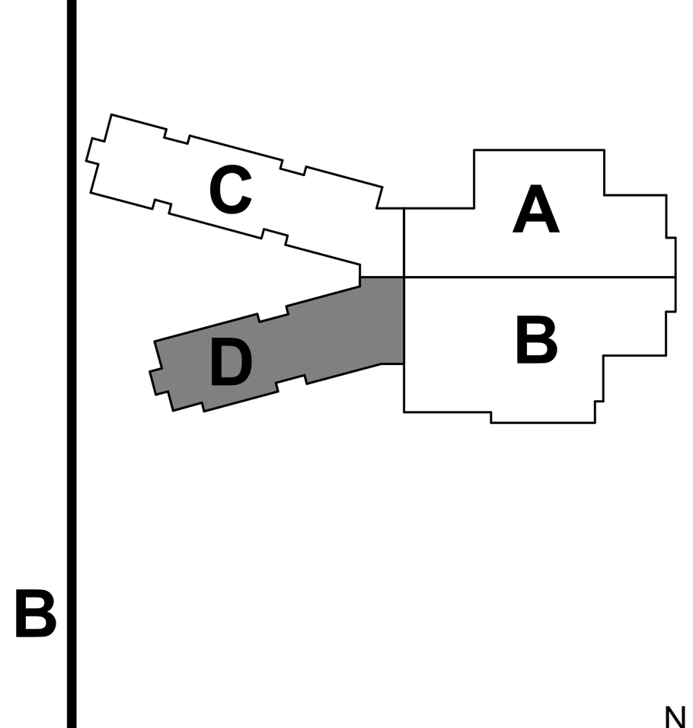
SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	Addendum 1	05.31.2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR PLAN - UNIT D

AF1D1

FLOOR PLAN NOTES

#	Note
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23	07 95 00 - EXPANSION JOINT CONTROL COVER OVER ENTIRE EXPOSED AREA. REFER TO SPEC FOR DESCRIPTION OF JOINT COVERTO USE FOR DIFFERENT CONDITIONS.
24	ACCESS CONTROL CARD READER. REFER TO T-SERIES DWGS.
25	MECHANICAL EQUIPMENT. REFERENCE M-SERIES DWGS.
26	ANNUNCIATOR PANEL. REFERENCE E-SERIES DWGS.
27	10 51 13 - METAL LOCKERS ON CONCRETE BASE. TYPE A
28	05 50 00 - METAL LADDER.
29	12 24 13 - MANUAL ROLLER WINDOW SHADE.
30	06 40 23 - DISPLAY CASE.
31	11 61 43 - PLATFORM CURTAINS P-1.
32	11 61 43 - PLATFORM CURTAINS B-1.
33	10 81 13 - BIRD NETTING AT BOTH SIDES OF CANOPY STRUCTURAL MEMBERS TO FULLY PREVENT ENTRUSION.
34	10 14 00 - BUILDING PLAQUE
35	05 52 13 - PIPE AND TUBE GUARDRAIL.
36	05 73 00 - DECORATIVE METAL RAILING TYPE A
37	INTERCOM - TALK/VIDEO. REFER TO T-SERIES DRAWINGS.
38	PANIC BUTTON ON MILLWORK. REFER TO T-SERIES DRAWINGS.
39	08 71 00 - LOCK/UNLOCK SWITCH FROM RECEPTION DESK FOR 3 DOORS.
40	PLYWOOD PANELS AROUND ROOM. REFER TO T-SERIES DRAWINGS.
41	11 40 00 - KITCHEN EQUIPMENT. REFERENCE Q-SERIES DRAWINGS.
42	11 66 43.99 - INTERIOR SCORE BOARD
43	05 53 00 - METAL GRATINGS.
44	05 73 00 - DECORATIVE METAL RAILING TYPE B
45	05 73 00 - DECORATIVE METAL RAILING TYPE C
46	08 71 00 - BOLLARD MOUNTED ADA AUTOMATIC OPERATOR AND CARD READER. COORDINATE LOCATION WITH ARCHITECT.

FLOOR PLAN NOTES

#	Note
1	04 20 00 - KNOX BOX @ 46" AFF; COORDINATE EXACT LOCATION WITH OWNER AND LOCAL FIRE DEPARTMENT.
2	LINE OF CANOPY ABOVE; REFERENCE ROOF PLAN
3	07 71 00 - METAL DOWNSPOUT. REFER TO ROOF PLAN FOR SIZE. COORDINATE WITH C-SERIES DWGS FOR BOOT CONNECTION.
4	10 21 23 - CUBICAL CURTAINS AND TRACK
5	10 22 39 - GLASS OPERABLE PARTITION.
6	11 66 23 - FRONT FOLDING BACKSTOP. SUSPEND BACKSTOP FROM STRUCTURE ABOVE. COORDINATE FINAL LOCATION WITH S-SERIES DRAWINGS.
7	11 66 23 - GYMNASIUM DIVIDER CURTAIN.
8	11 66 23 - GYMNASIUM ATHLETIC WALL PADS. CUSTOM FIT TO COLUMNS AND PROVIDE CUT OUTS AROUND EQUIPMENT AND DEVICES.
9	LINE OF WALL ABOVE.
10	08 71 00 - ADA AUTOMATIC OPERATOR. COORDINATE LOCATION WITH ARCHITECT.
11	MOP SINK. REFER TO P-SERIES DRAWINGS. PROVIDE MOP HOLDER ABOVE SINK.
12	09 64 66 - WOOD ATHLETIC FLOORING SYSTEM. PROVIDE RECESS IN CONC SLAB AS REQUIRED. REFERENCE I-SERIES DRAWINGS FOR COURT STRIPING LOCATION AND COLORS.
13	12 66 00 - TELESCOPING BLEACHERS.
14	11 66 23 - GYMNASIUM CONTROL CENTER - COORDINATE WITH E-SERIES DWGS.
15	11 66 23 - RECESSED VOLLEYBALL POST FLOOR SLEEVE WITH COVER. COORDINATE FINAL LOCATION WITH ARCHITECT.
16	10 14 00 - BUILDING SIGNAGE REFER TO ELEVATIONS.
17	SLAB RECESS FOR INSULATED COOLER/FREEZER UNIT. REFER TO QF SERIES DWGS.
18	05 50 00 - PREFABRICATED STEEL SHIPS LADDER.
19	09 64 66 - WOOD ATHLETIC FLOORING TRANSITION PLATE.

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A. All dimensions shown are to face of stud or masonry, unless noted otherwise. Dimensions designated as "CLR or "clear" indicate a clear dimension from face of finish to face of finish. Dimensions of exterior walls are to outside edge of foundation.

B. Dimensions for all openings for Mechanical, Plumbing, Fire Protection and Electrical shall be fire stopped at each floor penetration.

C. Provide bracing and blocking as required in walls supporting casework, tackboards, markerboards, and restroom accessories.

D. All door frames are located 4" from adjacent wall, unless noted otherwise.

E. All exposed outside corners of CMU shall be bullnosed.

F. Seal all joints between dissimilar materials.

G. All gypsum wallboard is 5/8" Type "X", unless noted otherwise.

H. All exterior windows are Type "SF7", unless noted otherwise.

I. All interior walls are Type "S4iD", unless noted otherwise.

J. Base elevation is 0'-0" = 819.75' (United States Geological Survey data).

K. Hatching within walls shown in plans and sections indicates new construction.

OPEN TO BELOW

MAKER SPACE A201 · ART A202 · ART STOR. A202B · KILN A202A · STOR A201A · STOR B202B · WORK B202A · ELEV EL-1 · MECH A200 · MECH B200 · UNIT A · UNIT B · UNIT C

1A SECOND FLOOR - UNIT A
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-141.NES
Project Date 05.11.2022
Produced TE CA

SARAH KATHLEEN HEMPSTEAD · REGISTERED · No. AR10400134 · STATE OF INDIANA · ARCHITECT

#	Revision	Date
A1	Addendum 1	05.31.2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239

KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

SECOND FLOOR PLAN - UNIT A

AF1A2

FLOOR PLAN NOTES

#	Note
20	CONCRETE CURB, TYPICAL AROUND MECHANICAL ROOM PERIMETER AND OPENINGS. COORDINATE WITH S-SERIES DWGS.
21	KILN - BY OWNER.
22	OPEN TO BELOW.
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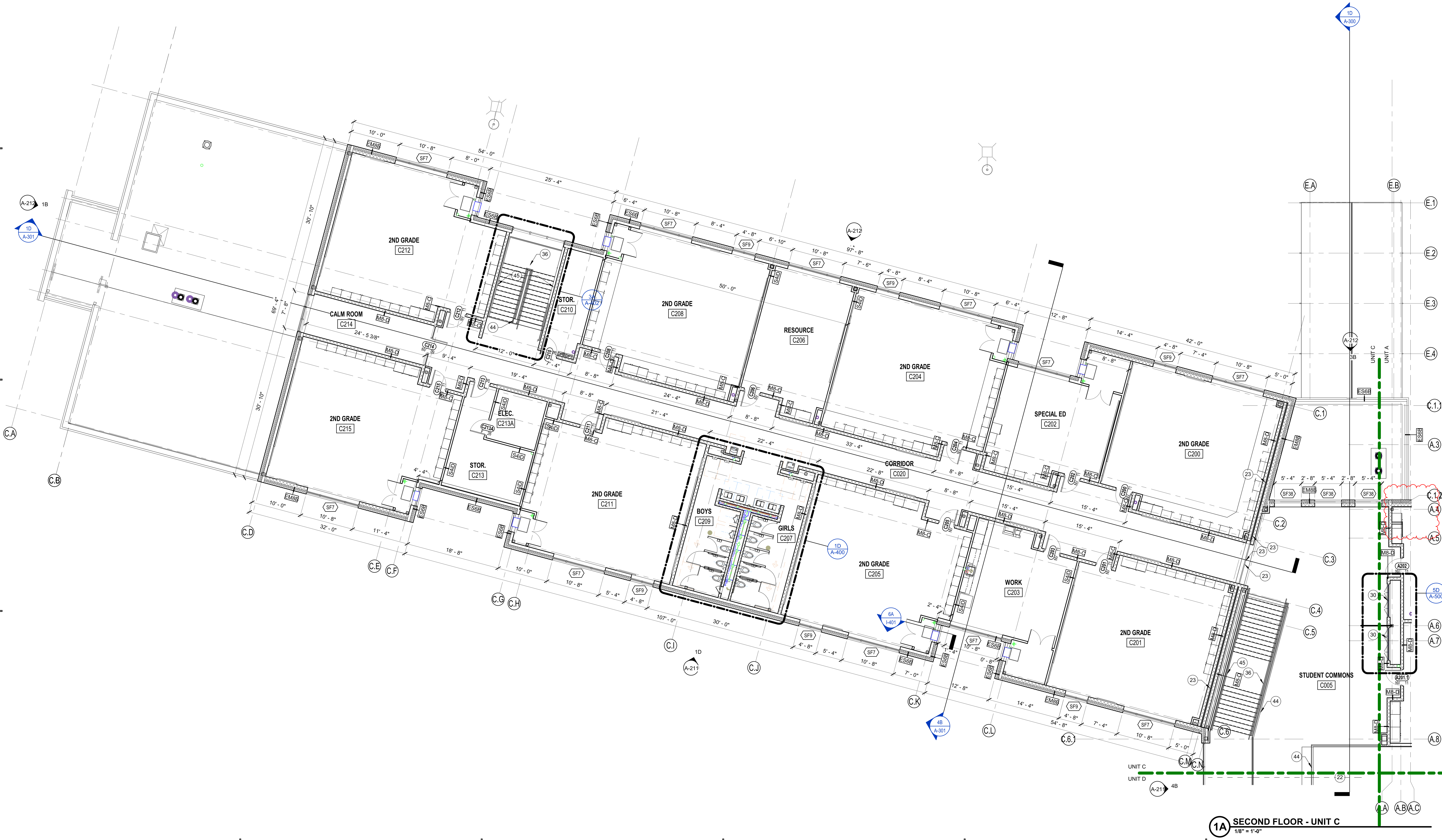


1A SECOND FLOOR - UNIT C
1/8" = 1'-0"

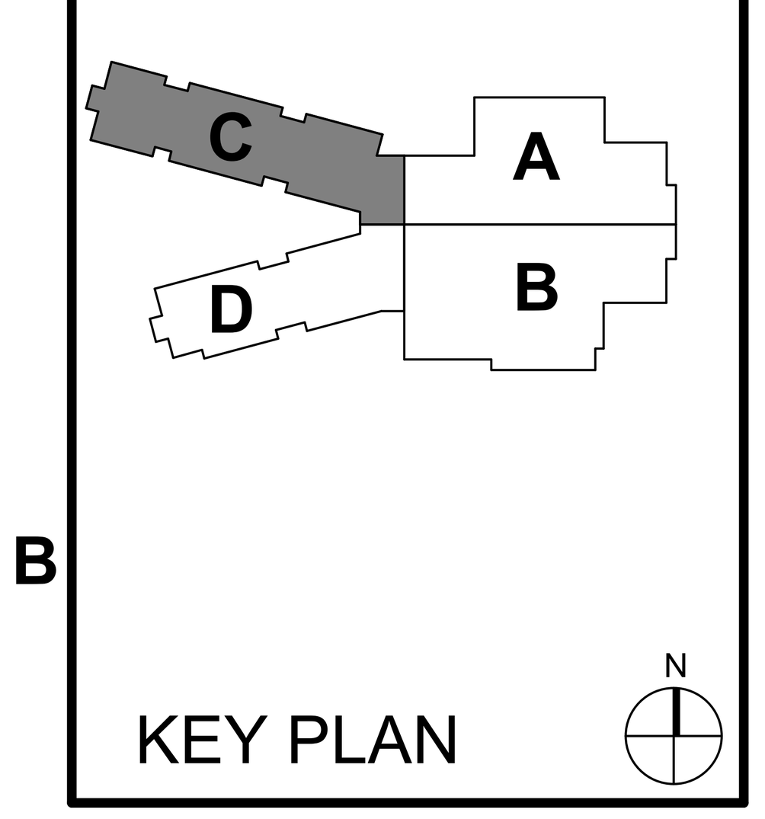
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-141.NES
Project Date 05.11.2022
Produced TE CA

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1	Addendum 1	05.31.2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR PLAN - UNIT C

AF1C2

FLOOR PLAN NOTES

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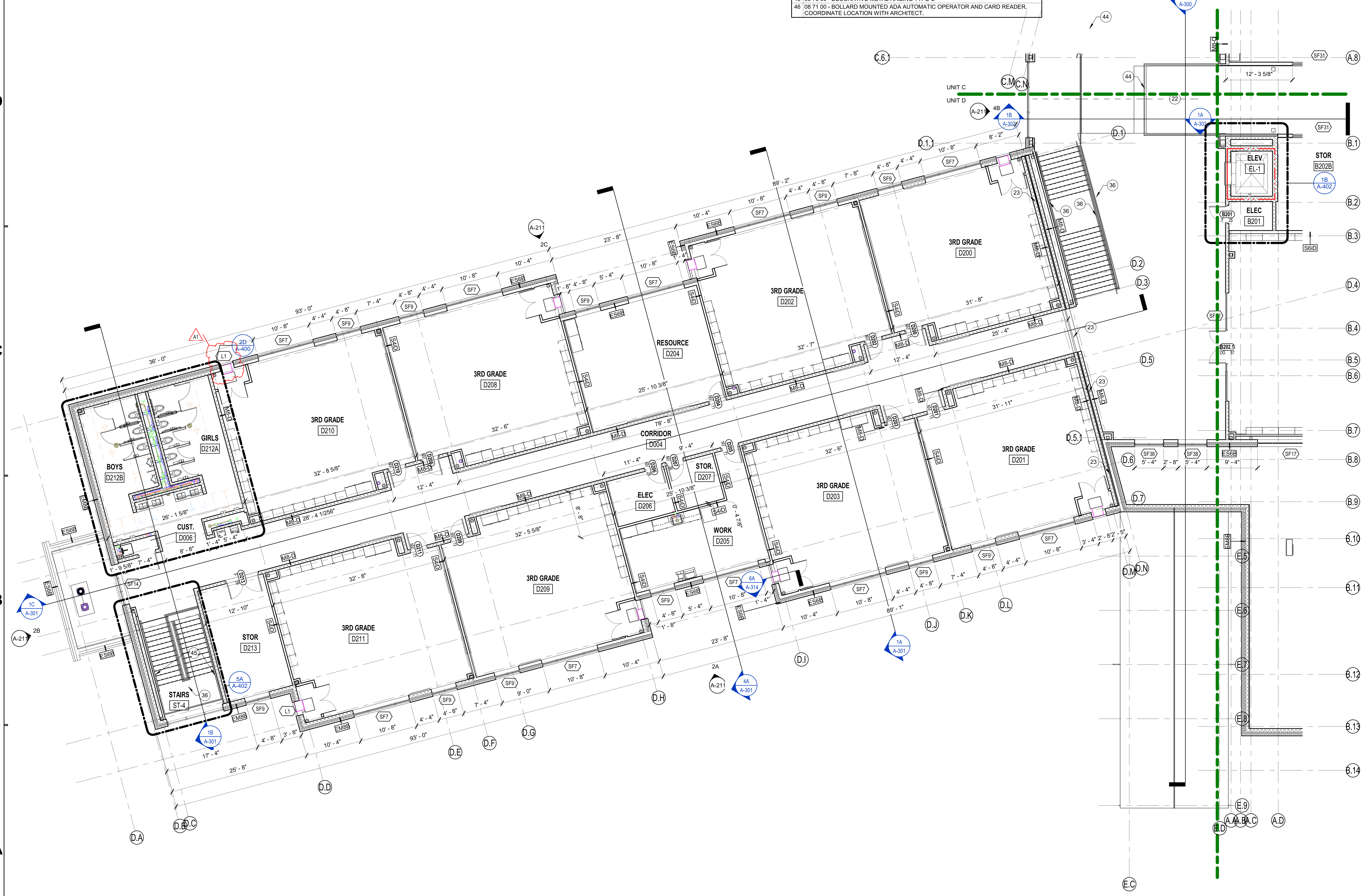


1A SECOND FLOOR - UNIT D
1/8" = 1'-0"

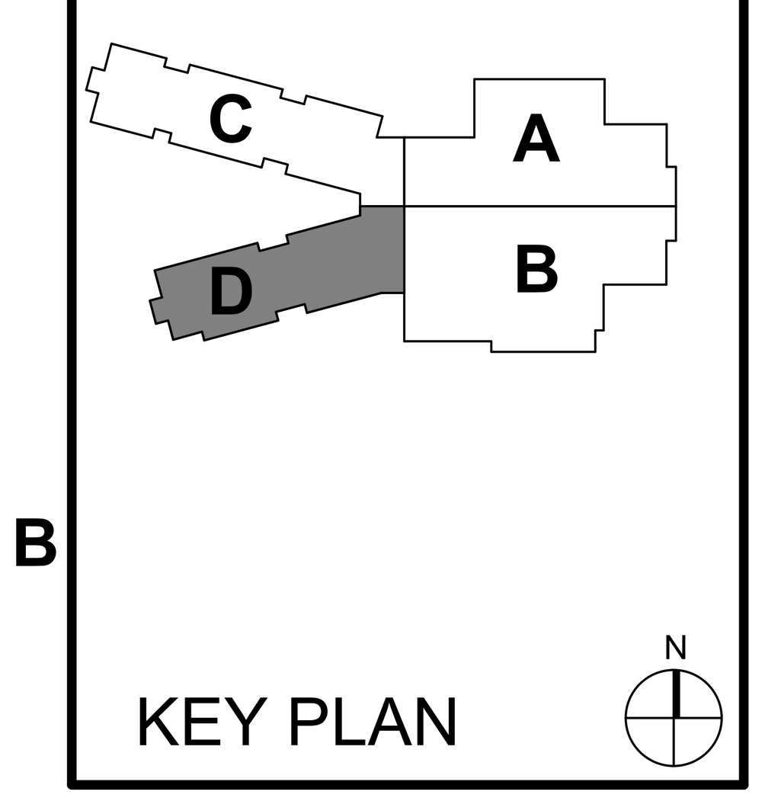
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-141.NES
Project Date 05.11.2022
Produced TE CA

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	Addendum 1	05.31.2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



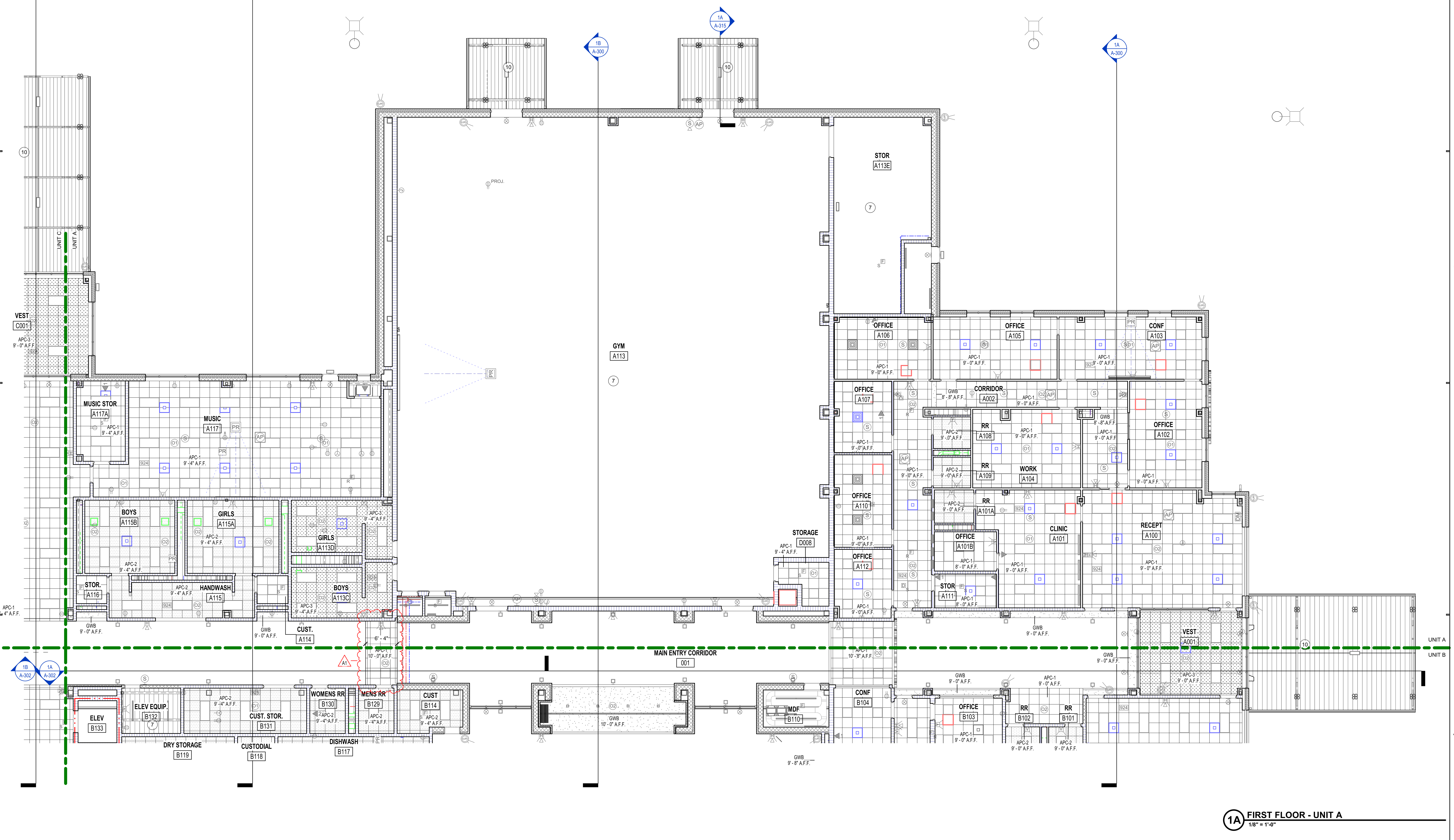
KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

SECOND FLOOR PLAN - UNIT D

AF1D2



REFLECTED CEILING PLAN LEGEND

APC-1	2' X 2' Acoustical Panel Ceiling (09 51 13)	Light Fixture (Reference E-Series Dwgs)	
APC-2	2' X 2' Washable Acoustical Panel Ceiling (09 51 13)	Return Air (Reference M-Series Dwgs)	
APC-3	2' X 2' Humidity Resistant Acoustical Panel Ceiling (09 51 13)	Supply Air (Reference M-Series Dwgs)	
GWB	5/8" GWB on Grid Suspension System (09 22 16)	Exit Light (Reference E-Series Dwgs)	
		Recessed Light Fixture Suspended Fixture in Areas with Exposed Ceilings (Reference E-Series Dwgs)	
Walls to Deck		SOUND SYSTEM SPEAKER (REFERENCE E-SERIES/T-SERIES DWGS)	S

General Refl. Ceiling Plan Notes

A. All ceilings are at 9'-0" AFF, unless noted otherwise.

B. All bulkheads are at 8'-8" AFF, unless noted otherwise.

C. All grids are centered in rooms, unless noted otherwise.

D. All exposed ductwork, piping etc. shall be painted. Color selected by Architect.

E. Locate sprinkler heads in center of ceiling panel - where applicable.

REFLECTED CEILING PLAN NOTES

#	NOTE
1	ALL EXPOSED FACES OF BULKHEAD TO BE PAINTED, P-X (COLOR).
2	ALL EXPOSED FACES OF BULKHEAD TO BE PAINTED, P-4 (DARK BLUE).
3	ALL EXPOSED FACES OF BULKHEAD TO BE PAINTED, P-5 (BRIGHT BLUE).
4	ALL EXPOSED FACES OF BULKHEAD TO BE PAINTED, P-X (COLOR).
6	COORDINATE OPENINGS IN CEILING FOR KITCHEN EQUIPMENT HOOD.
7	09 91 23 - PAINT ALL EXPOSED STRUCTURE, DECK, PIPING, CONDUITS AND DUCTWORK, AS SPECIFIED ON I-SERIES DRAWINGS.
8	5/8" GWB CEILING ATTACHED TO 3-5/8" METAL STUD. ATTACHED TO UNDERSIDE OF STAIR STRINGER. WRAP DRYWALL VERTICALLY TO ALIGN WITH EXTERIOR SIDE OF STRINGER. PROVIDE 5/8" ALUMINUM EXTRUDED TRIM BETWEEN STRINGER AND GWB.
9	09 51 13 - METAL EDGE TRIM FOR CEILING CLOUD.
10	REFERENCE STRUCTRAL DRAWINGS FOR FULL EXTENT OF CANOPY.
11	1 HOUR RATED CEILING. PROVIDE 2 LAYERS OF GYP. WALL BOARD.

SCHMIDT
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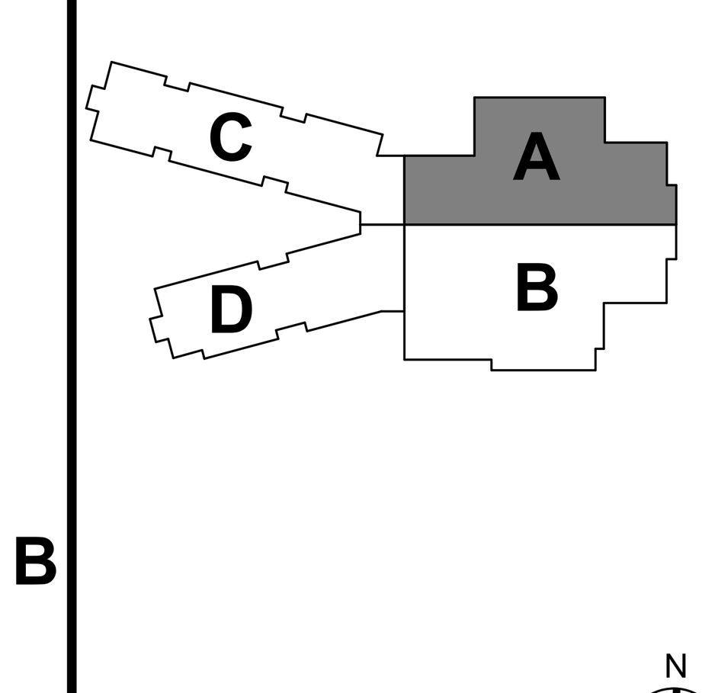
INDIANAPOLIS, IN 46239



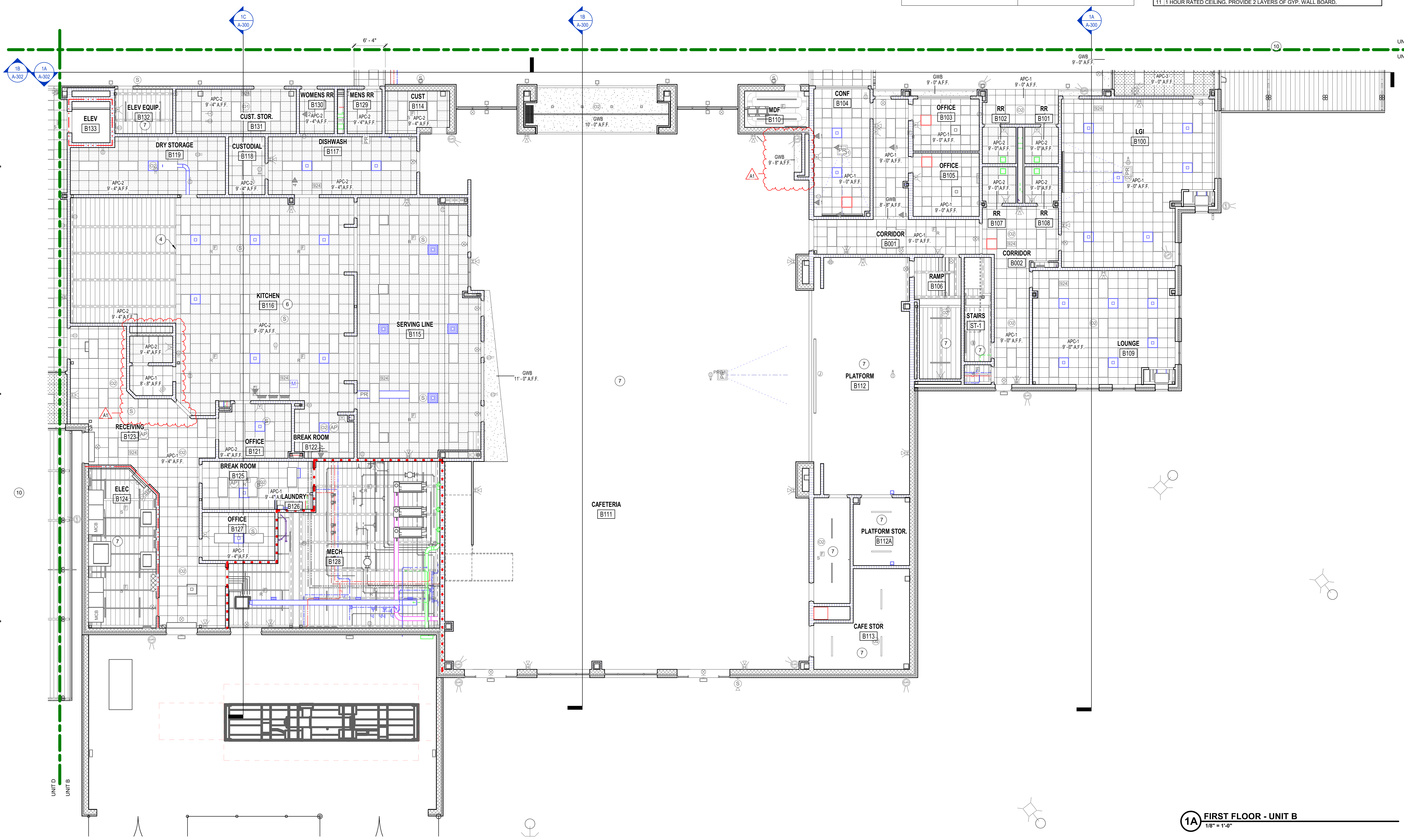
KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR REFLECTED CEILING PLAN - UNIT A

AC1A1



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

REFLECTED CEILING PLAN LEGEND

APC-1	2' X 2' Acoustical Panel Ceiling (09 51 13)	Light Fixture (Reference E-Series Dwgs)
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Walls to Deck		SOUND SYSTEM SPEAKER (REFERENCE E-SERIES/T-SERIES DWGS)

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C. All grids are centered in rooms, unless noted otherwise.
D. All exposed ductwork, piping etc. shall be painted. Color selected by Architect.
E. Locate sprinkler heads in center of ceiling panel - where applicable.

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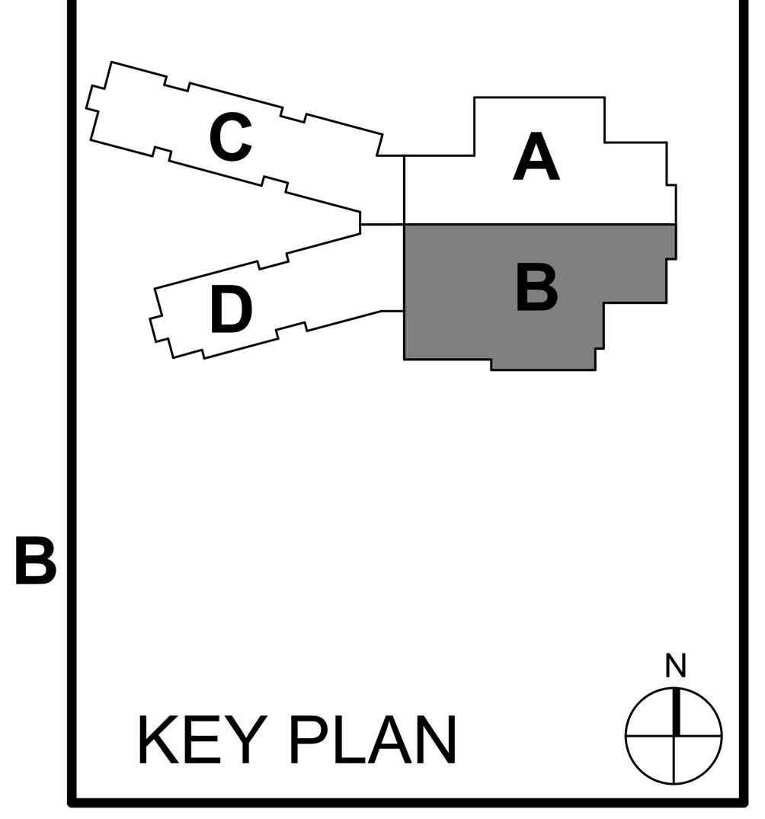


KEY PLAN

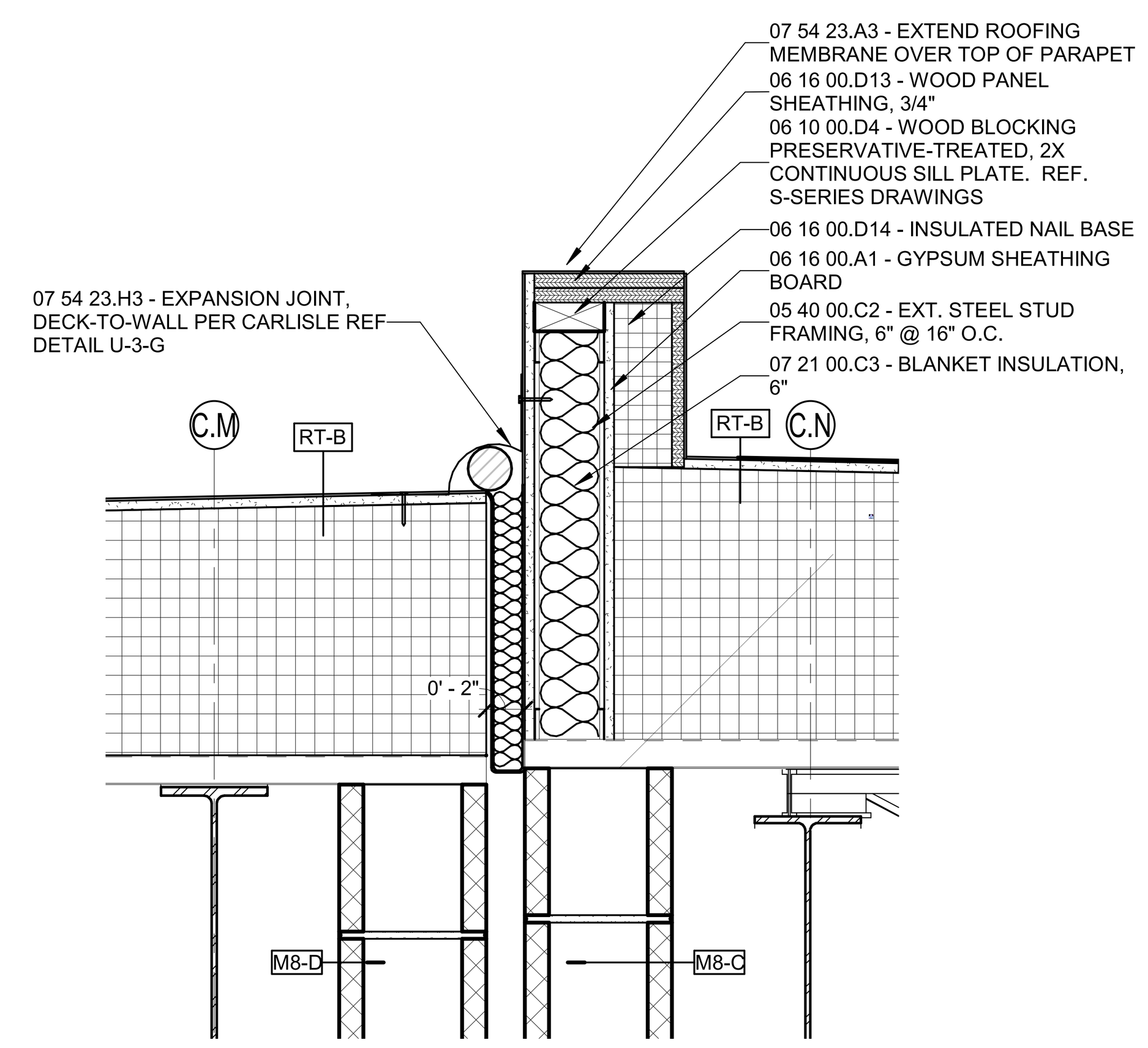
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

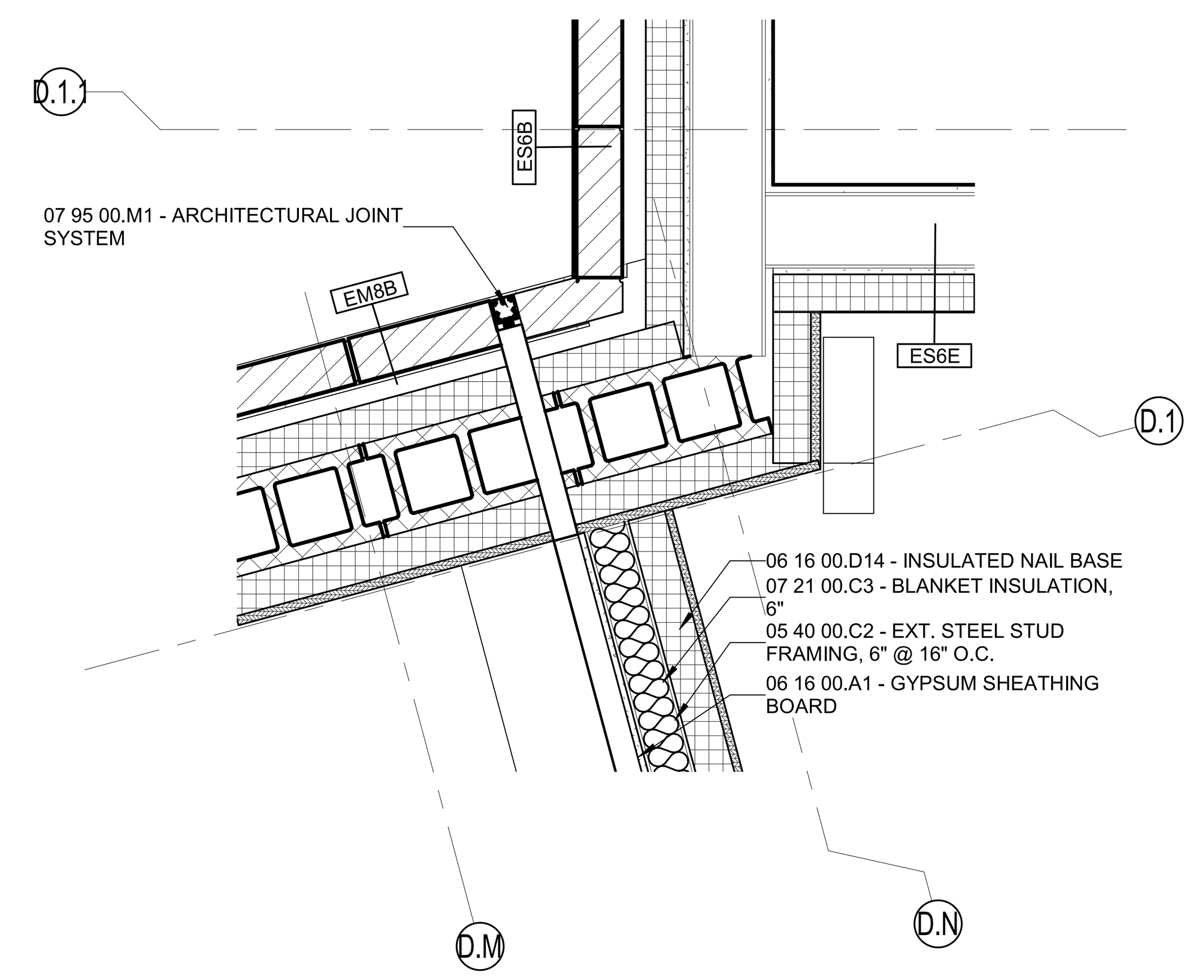
FIRST FLOOR REFLECTED CEILING PLAN - UNIT B

AC1B1



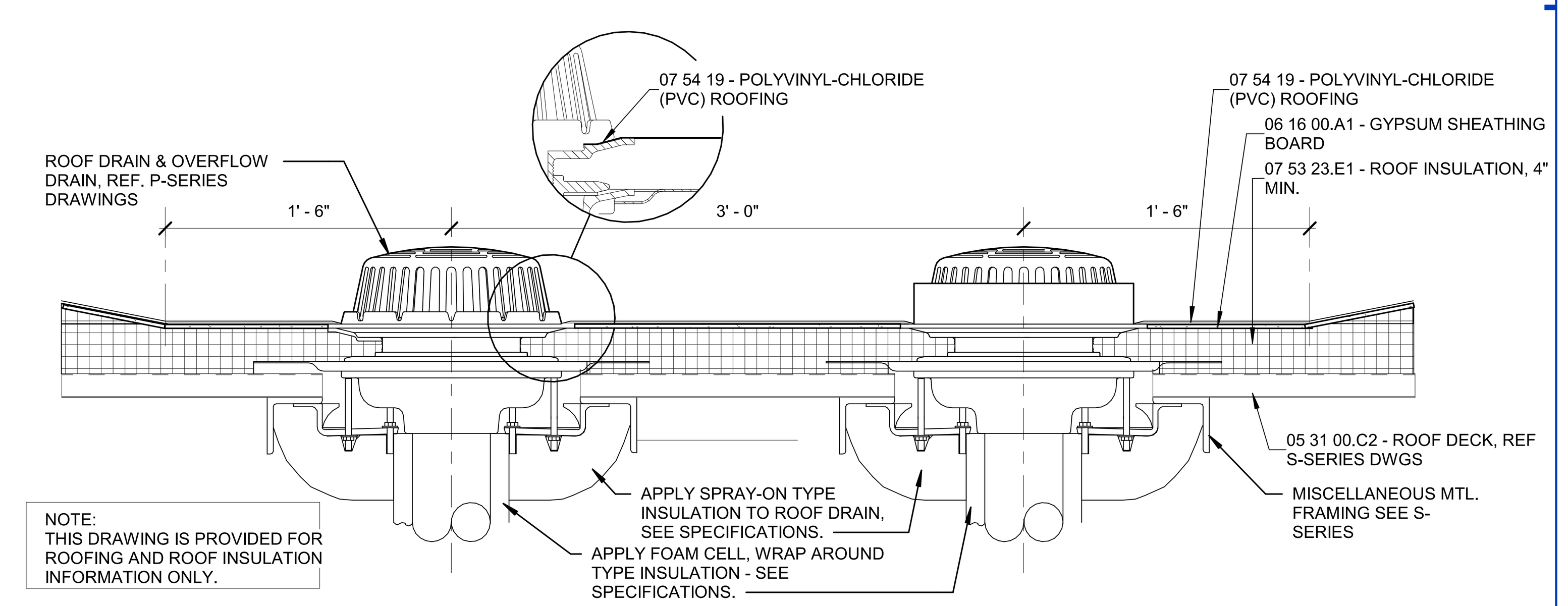
A1

2C ROOF EXPANSION JOINT
1 1/2" = 1'-0"

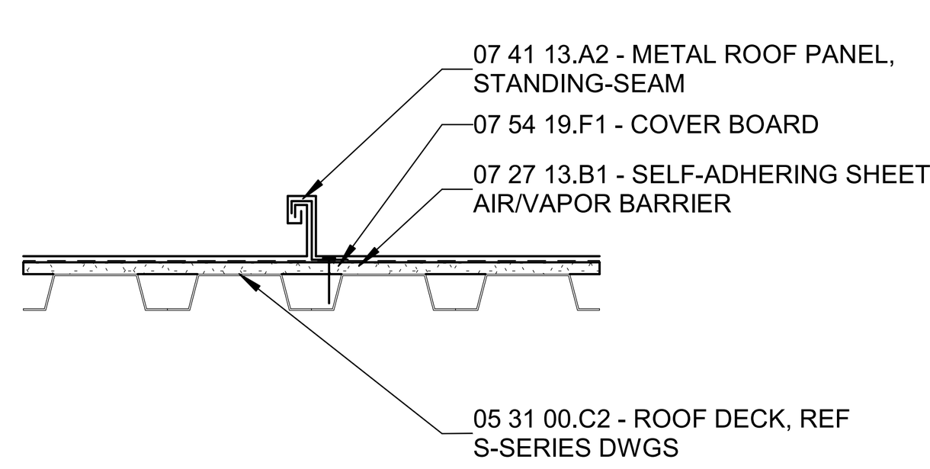


A1

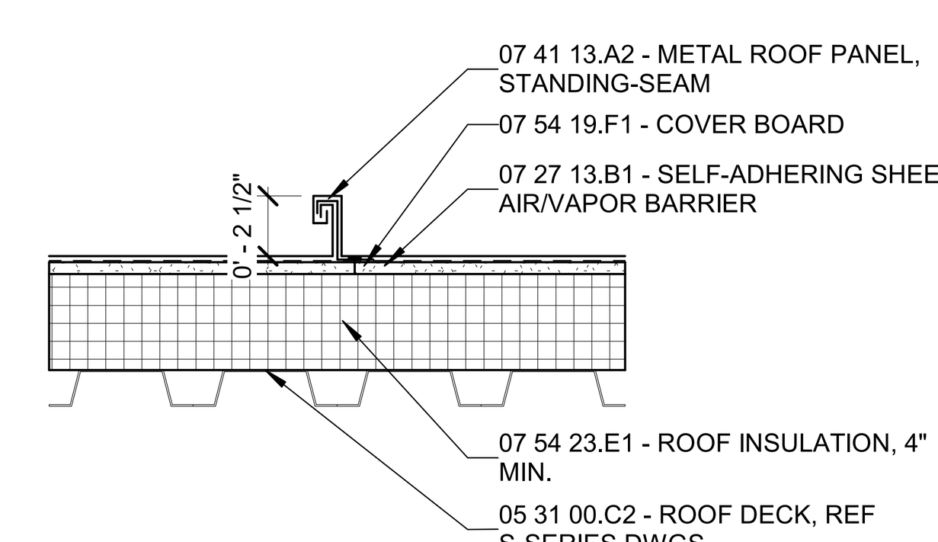
1C PLAN DETAIL
1" = 1'-0"



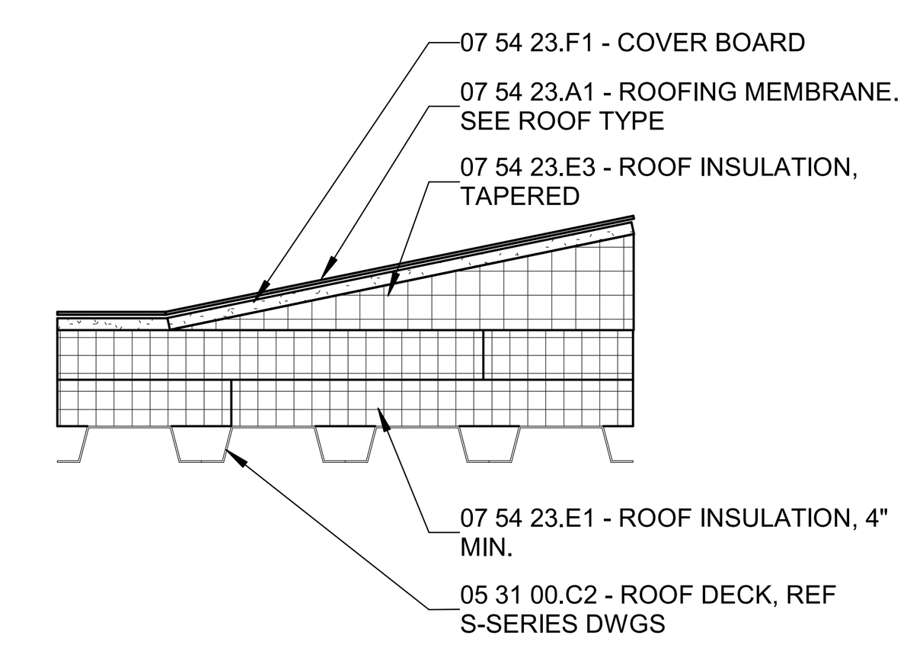
1B ROOF DRAIN DETAIL
1 1/2" = 1'-0"



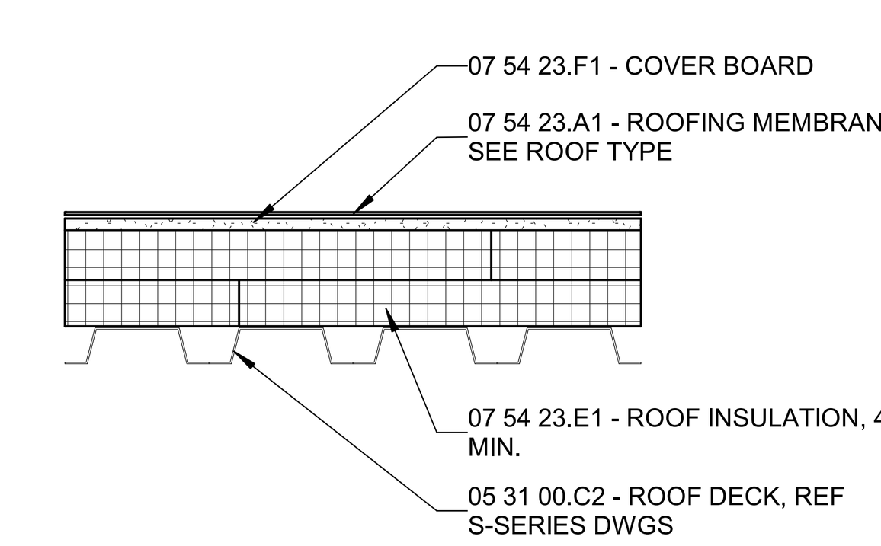
4A ROOF TYPE - RT-D
1 1/2" = 1'-0"



3A ROOF TYPE - RT-C
1 1/2" = 1'-0"



2A ROOF TYPE - RT-B
1 1/2" = 1'-0"



1A ROOF TYPE - RT-A
1 1/2" = 1'-0"

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SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1	Addendum 1	05.31.2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239

KEY PLAN

N

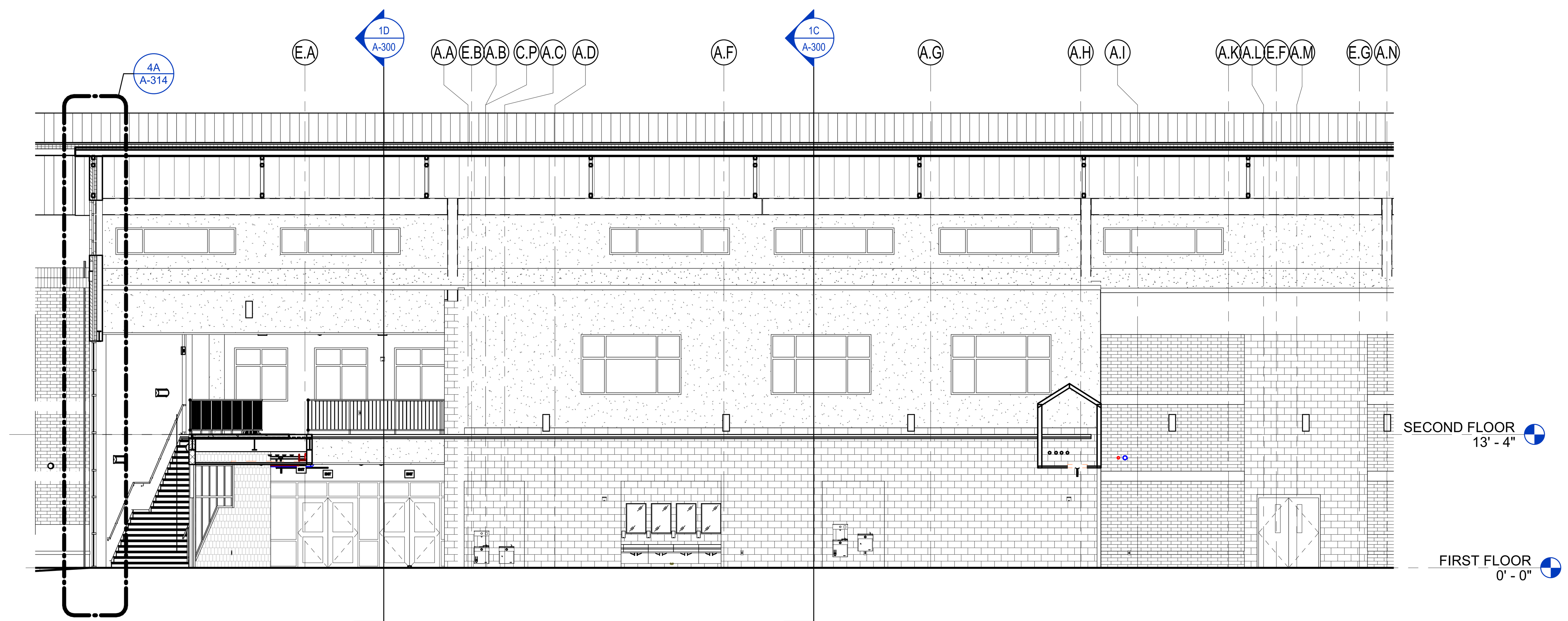
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

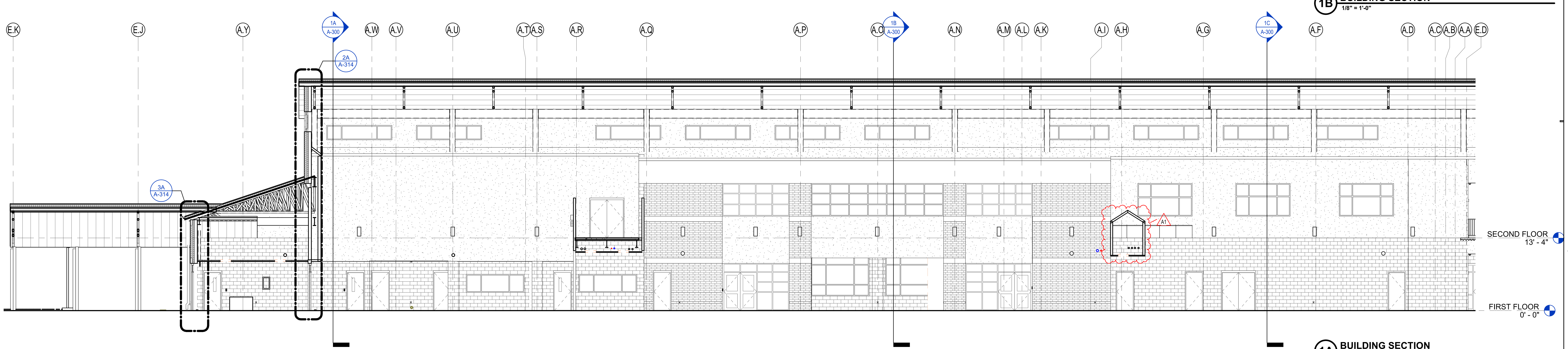
NEW ELEMENTARY SCHOOL

ROOF PLAN DETAILS

AR101



1B BUILDING SECTION
1/8" = 1'-0"



1A BUILDING SECTION
1/8" = 1'-0"

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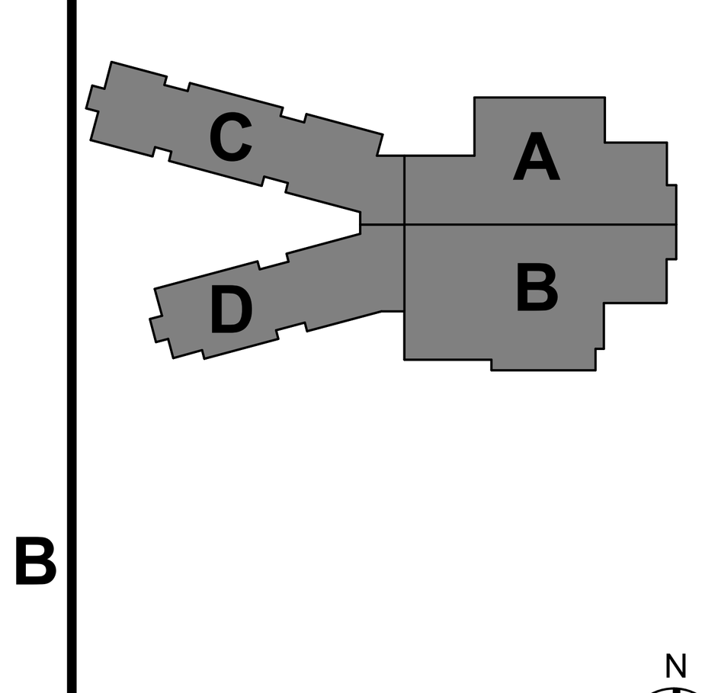


KEY PLAN

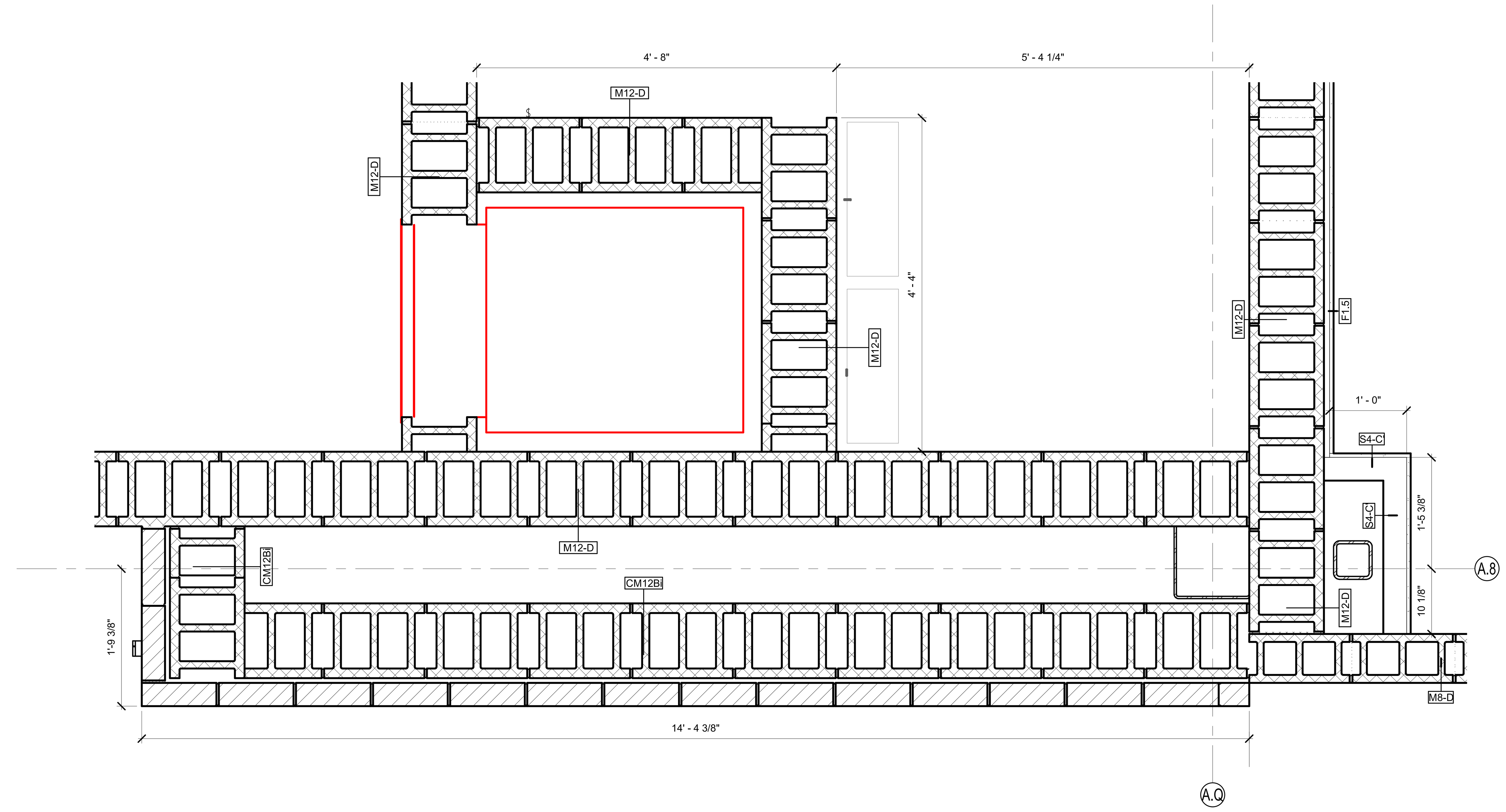
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

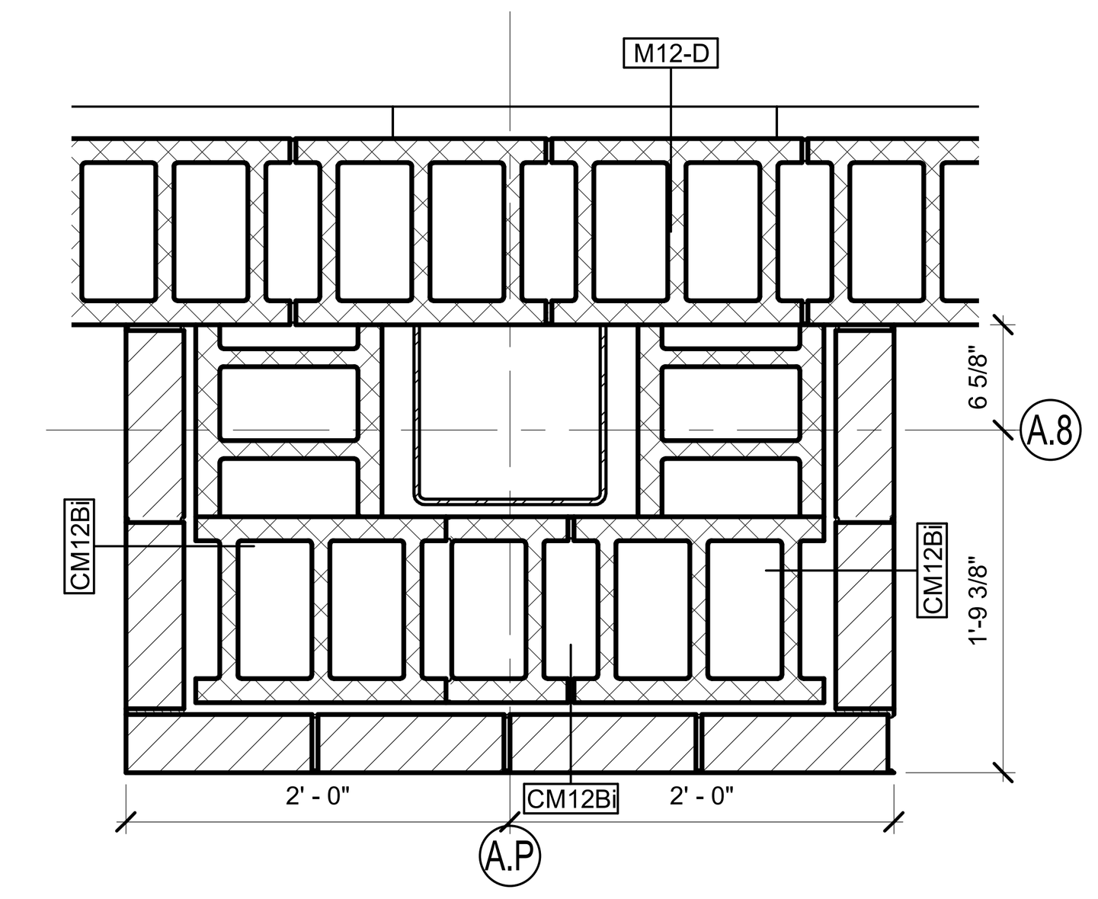
NEW ELEMENTARY SCHOOL

BUILDING SECTIONS

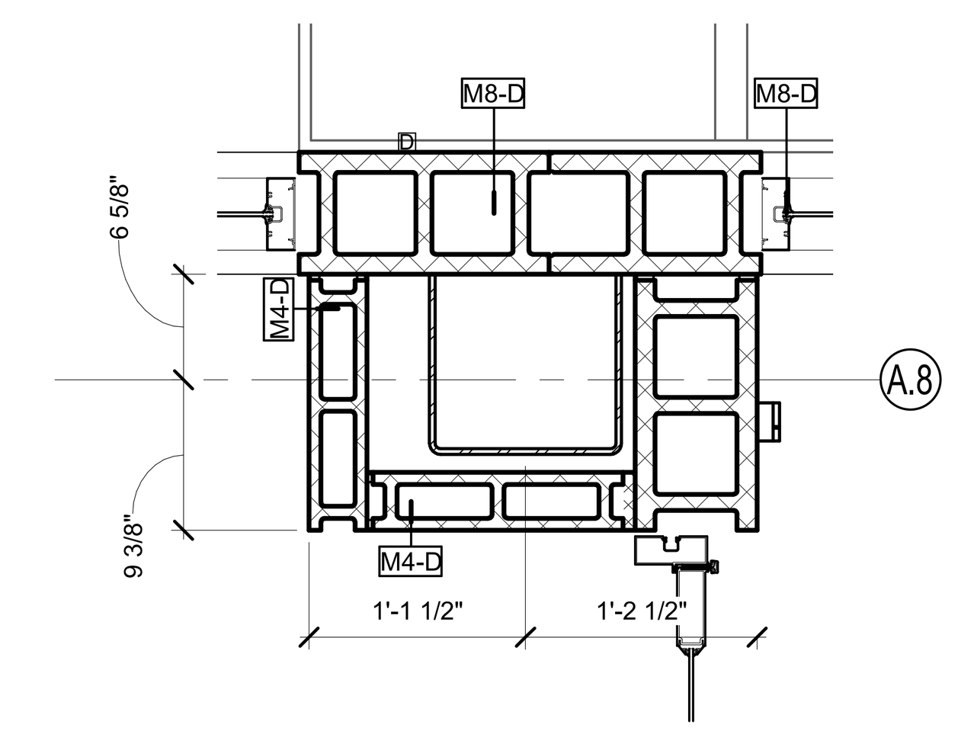
A-302



A1 **2C** PLAN DETAIL - GYM ENTRY
1" = 1'-0"



A1 **1D** PLAN DETAIL - MAIN CORRIDOR
1" = 1'-0"



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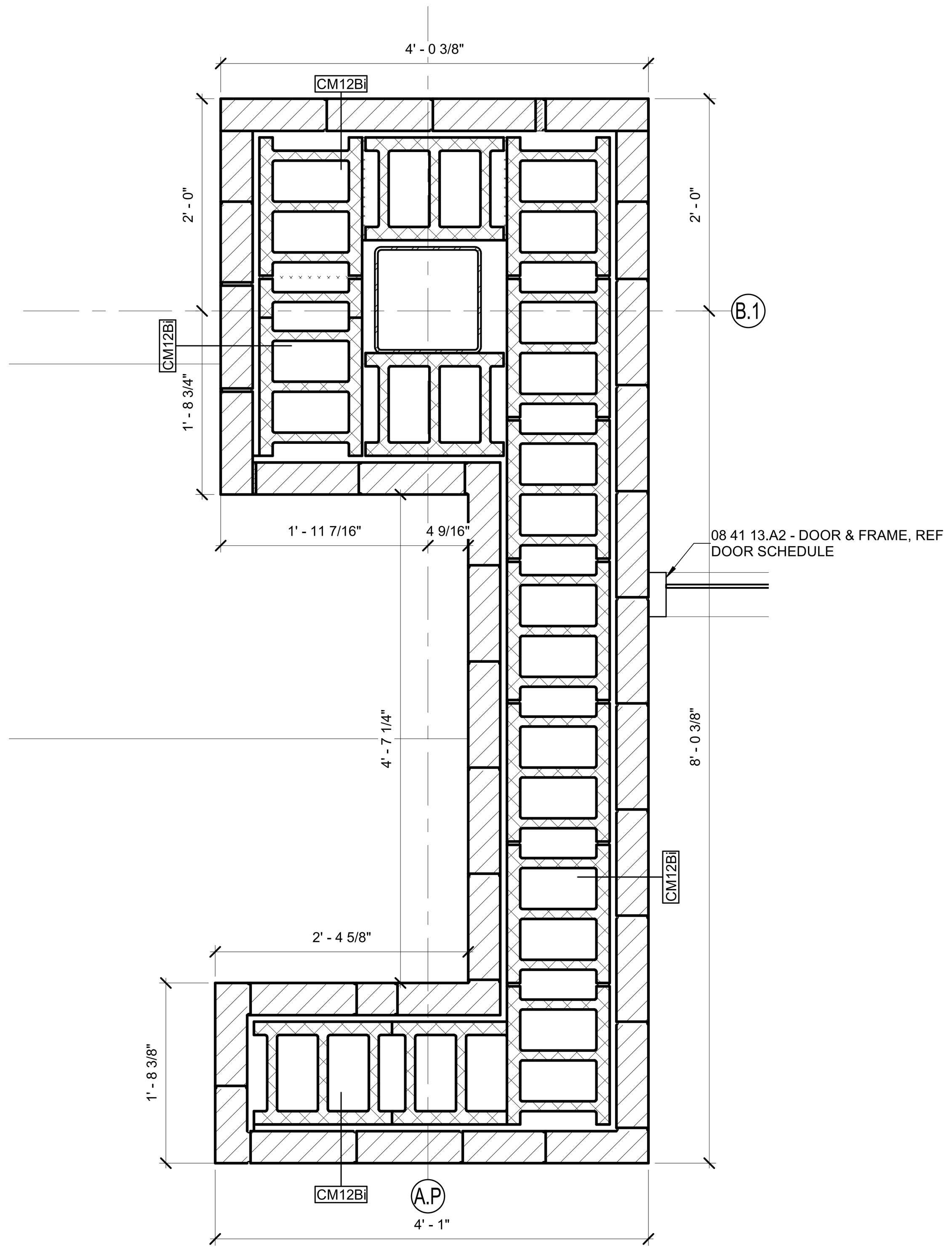
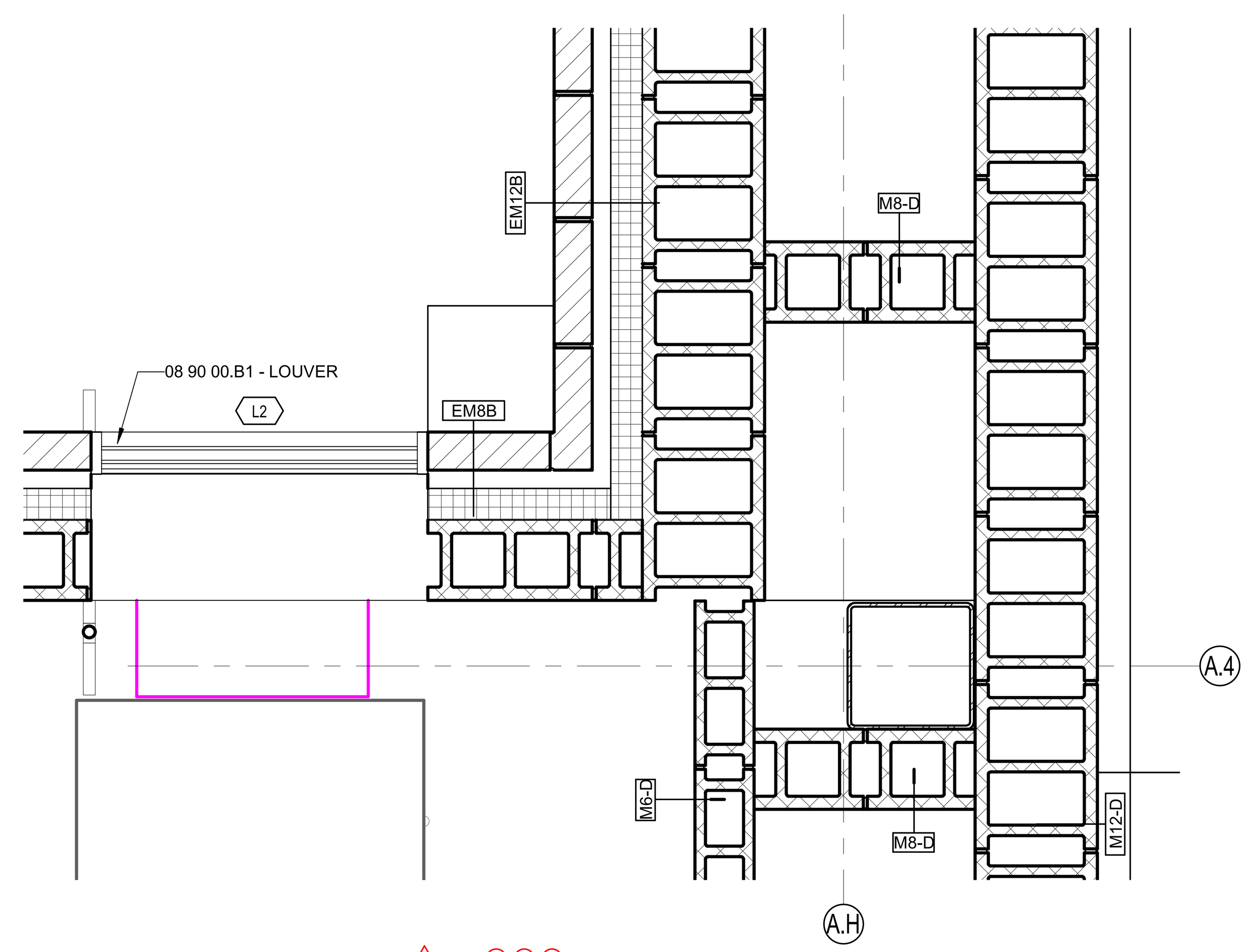
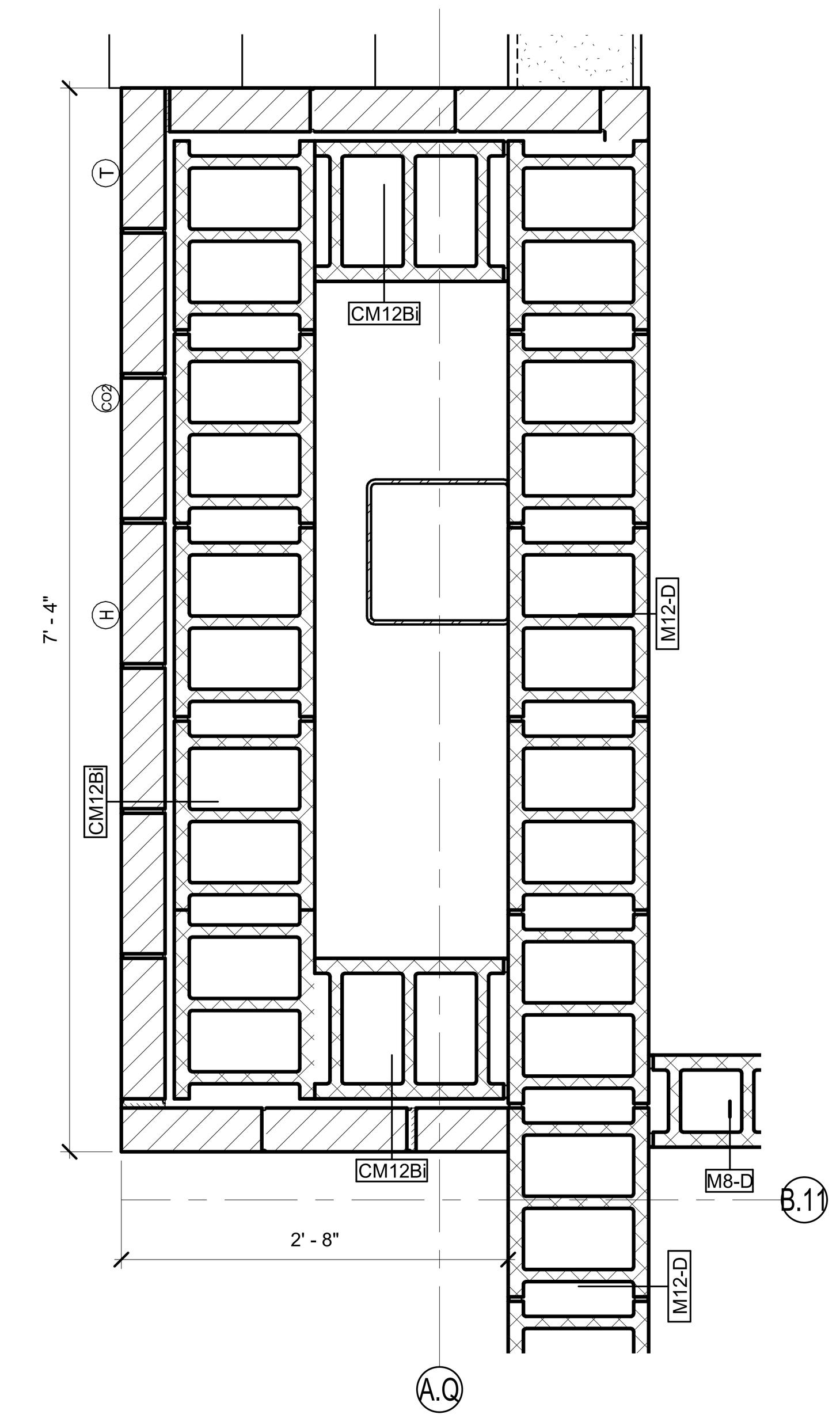
1" = 1'-0"



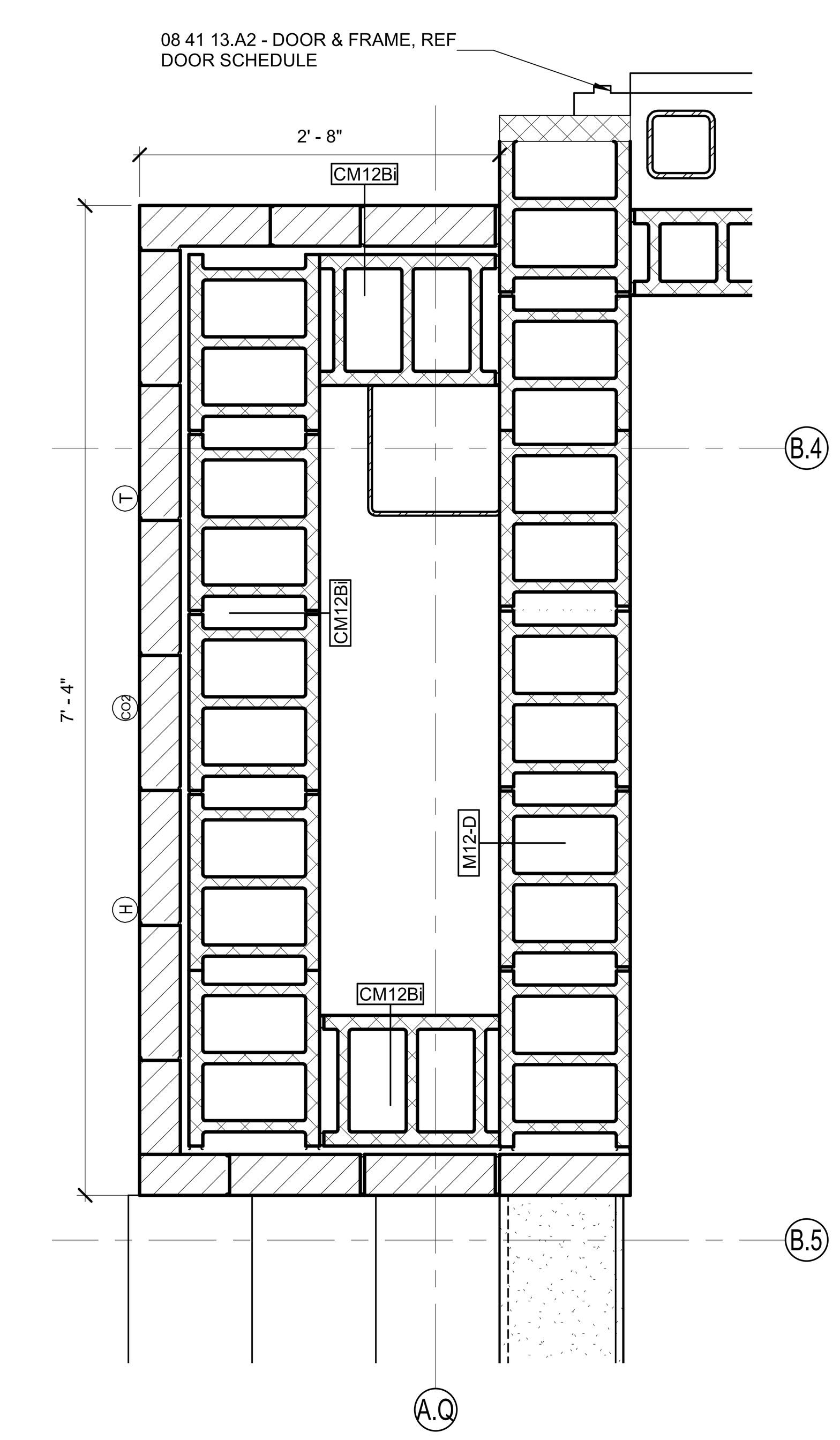
A1 **5A** PLAN DETAIL - OPERABLE PARTITION
1" = 1'-0"



A1 **4A** PLAN DETAIL - MUSIC ROOM
1" = 1'-0"



A1 **2A** PLAN DEAIL - PLATFORM
1" = 1'-0"



A1 **1A** PLAN DETAIL PLATFORM
1" = 1'-0"

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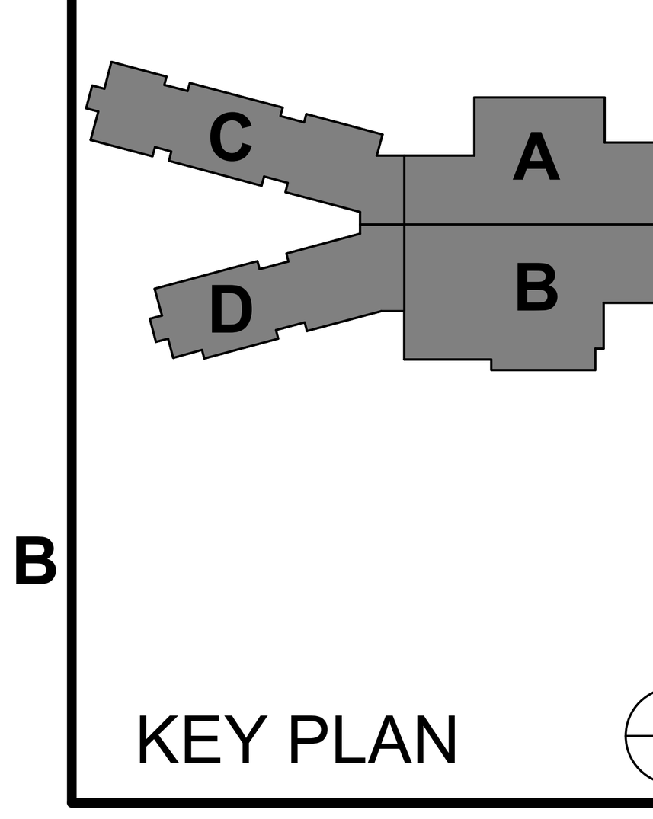


KEY PLAN

FRANKLIN TOWNSHIP CSC

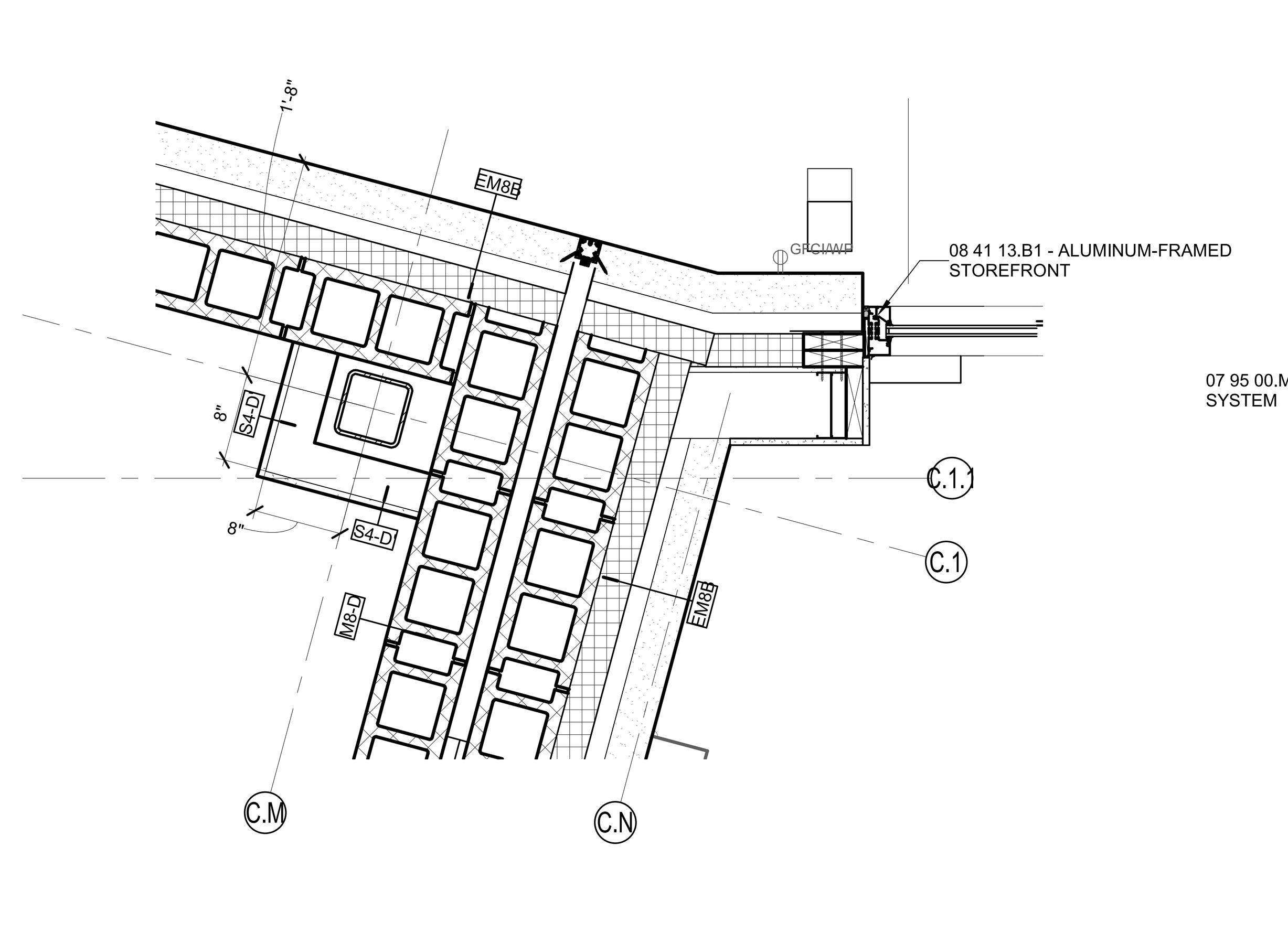
Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

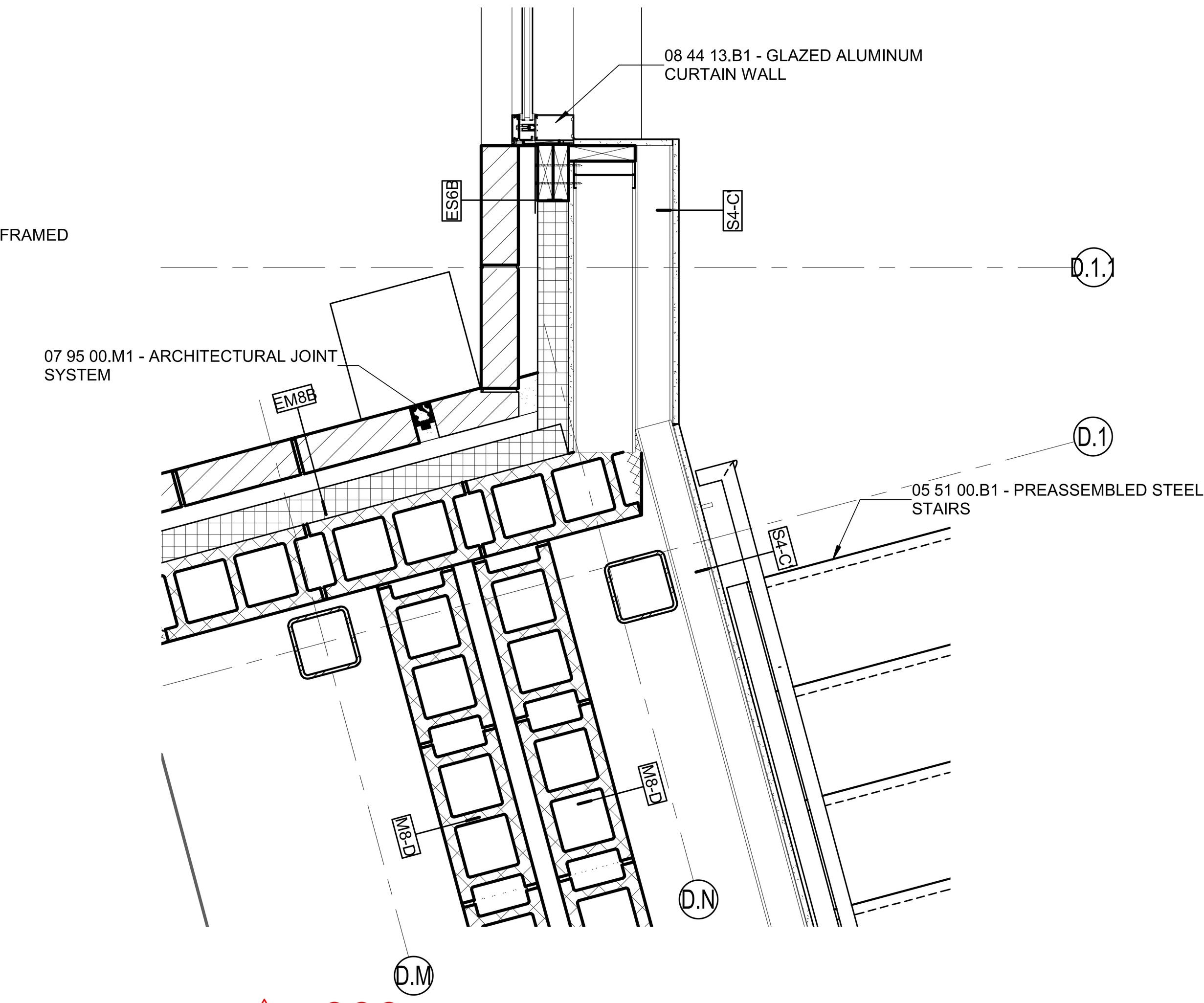
PLAN DETAILS

A-510

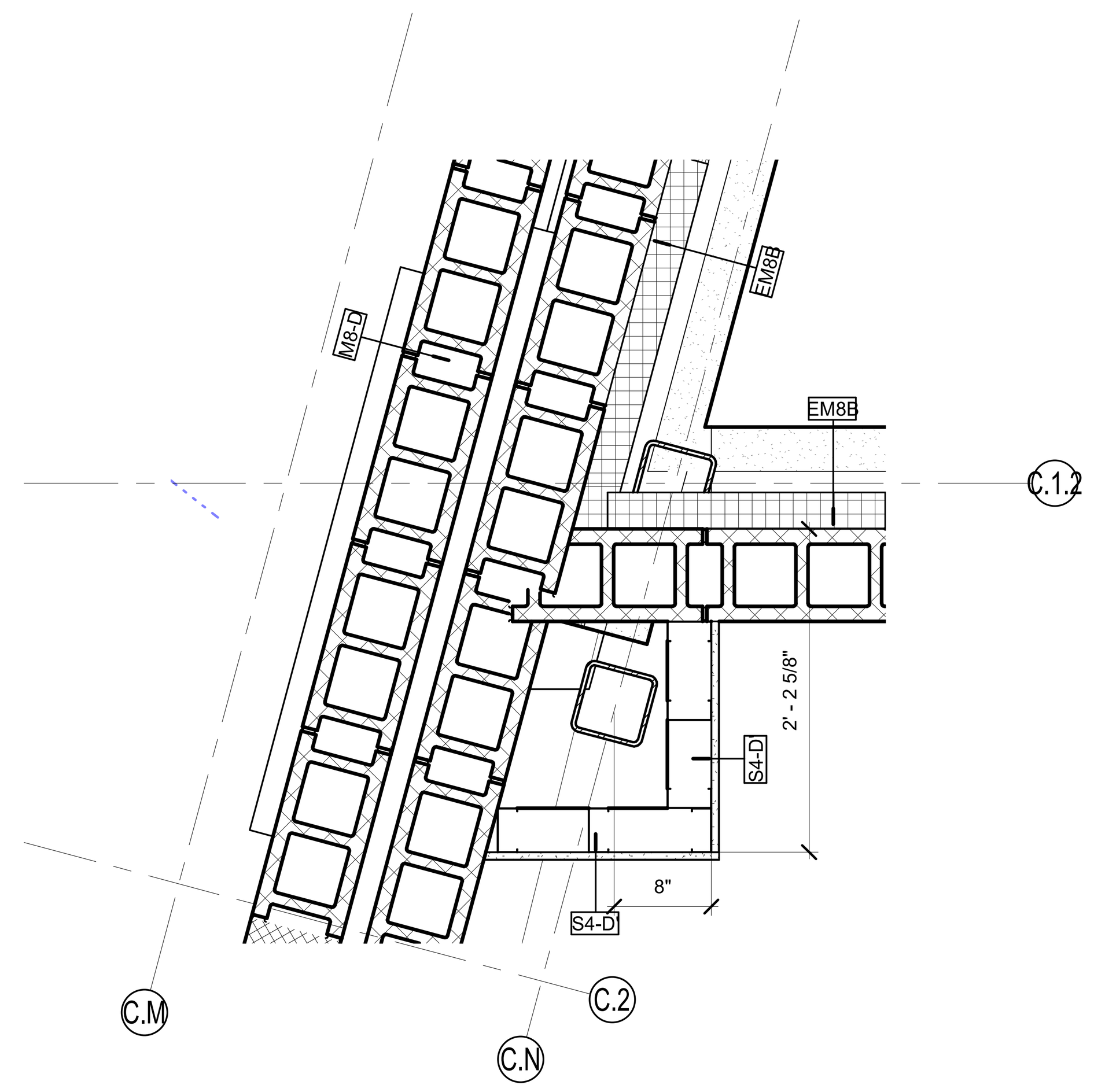
6 5 4 3 2 1



A1 3D PLAN DETAIL - EXPANSION JOINT
1" = 1'-0"



A1 1D PLAN DETAIL - EXPANSION JOINT
1" = 1'-0"



A1 3C PLAN DETAIL - EXPANSION JOINT
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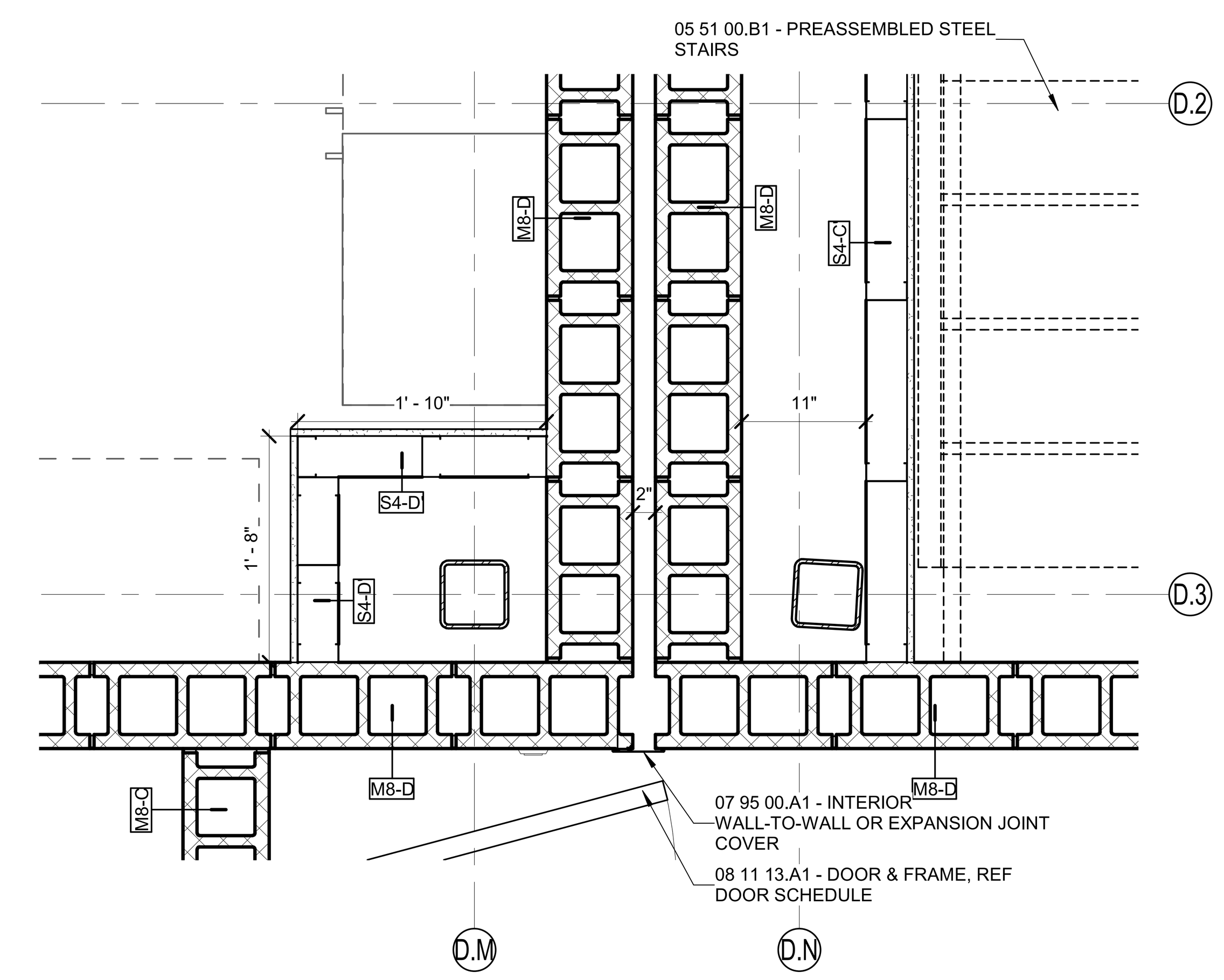
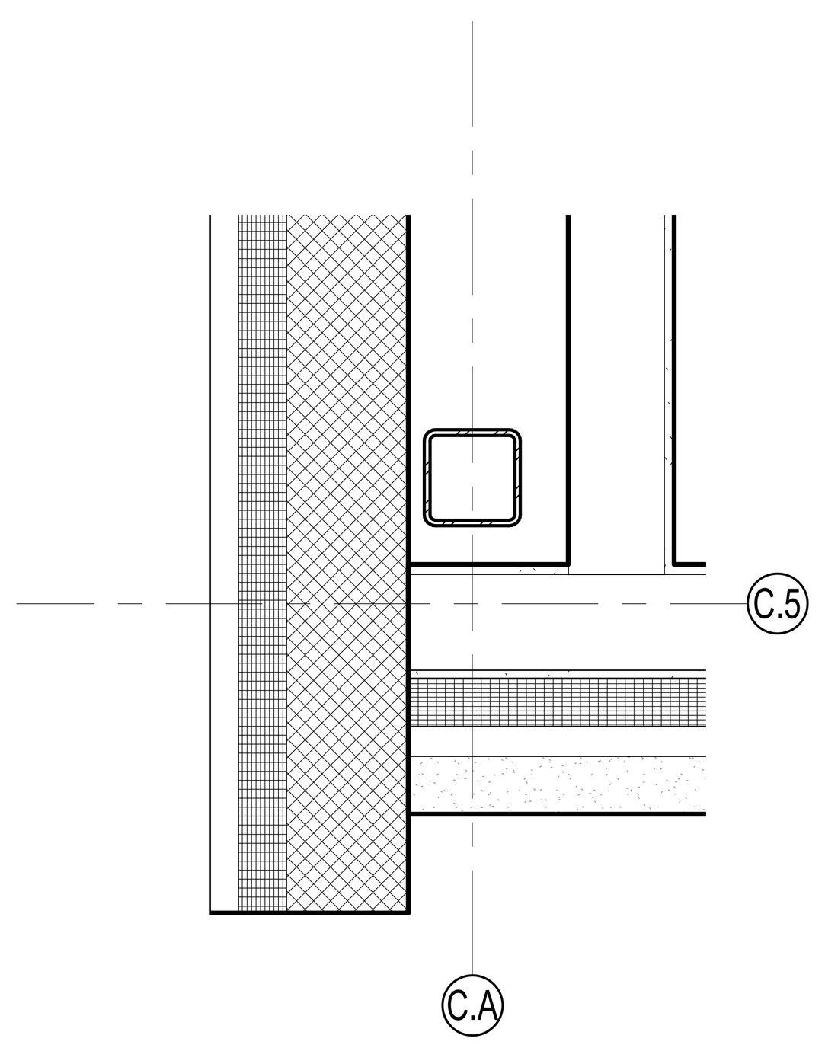
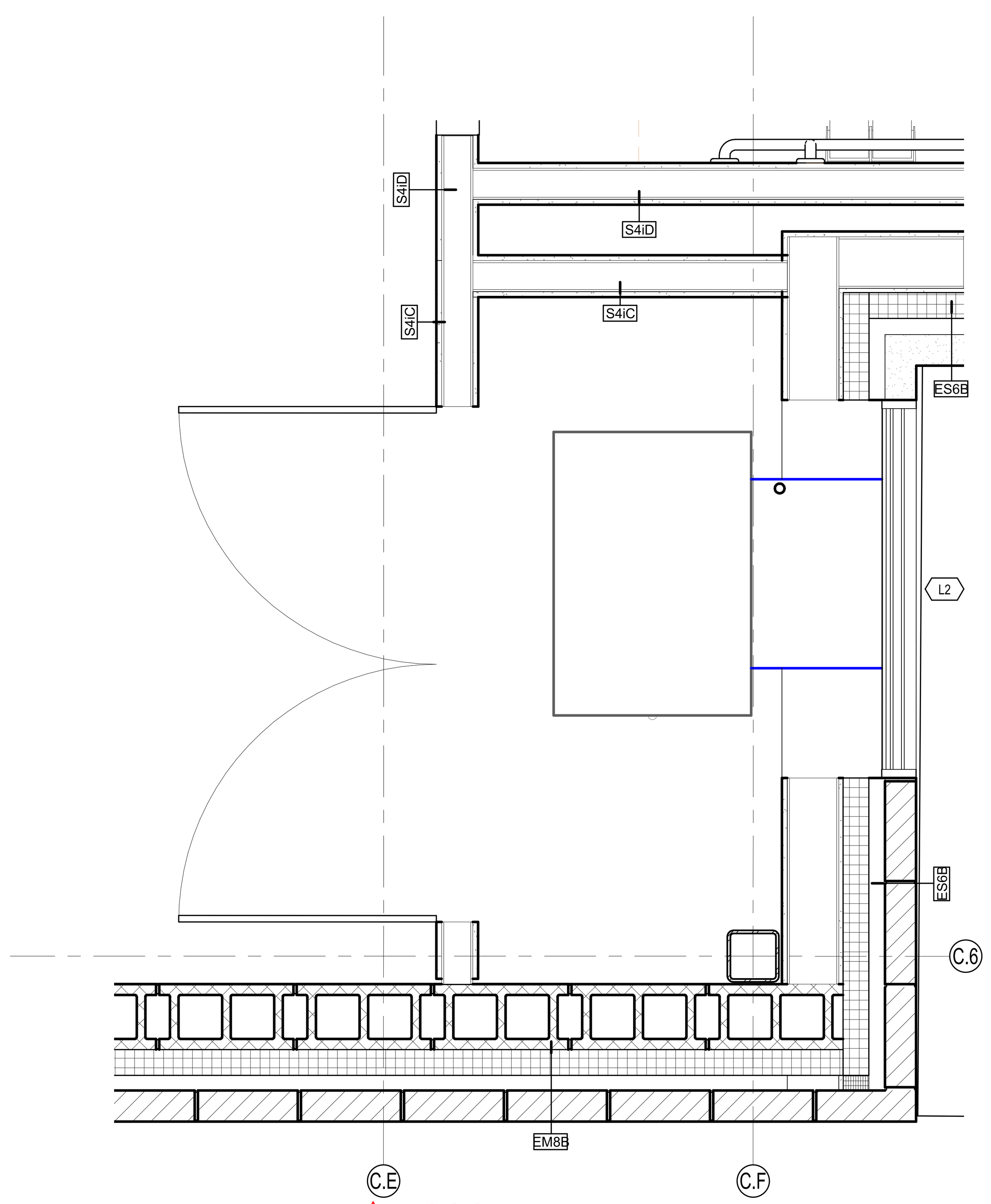


A1 1B PLAN DETAIL - EXPANSION JOINT
1" = 1'-0"





A1 4A PLAN DETAIL - VUV
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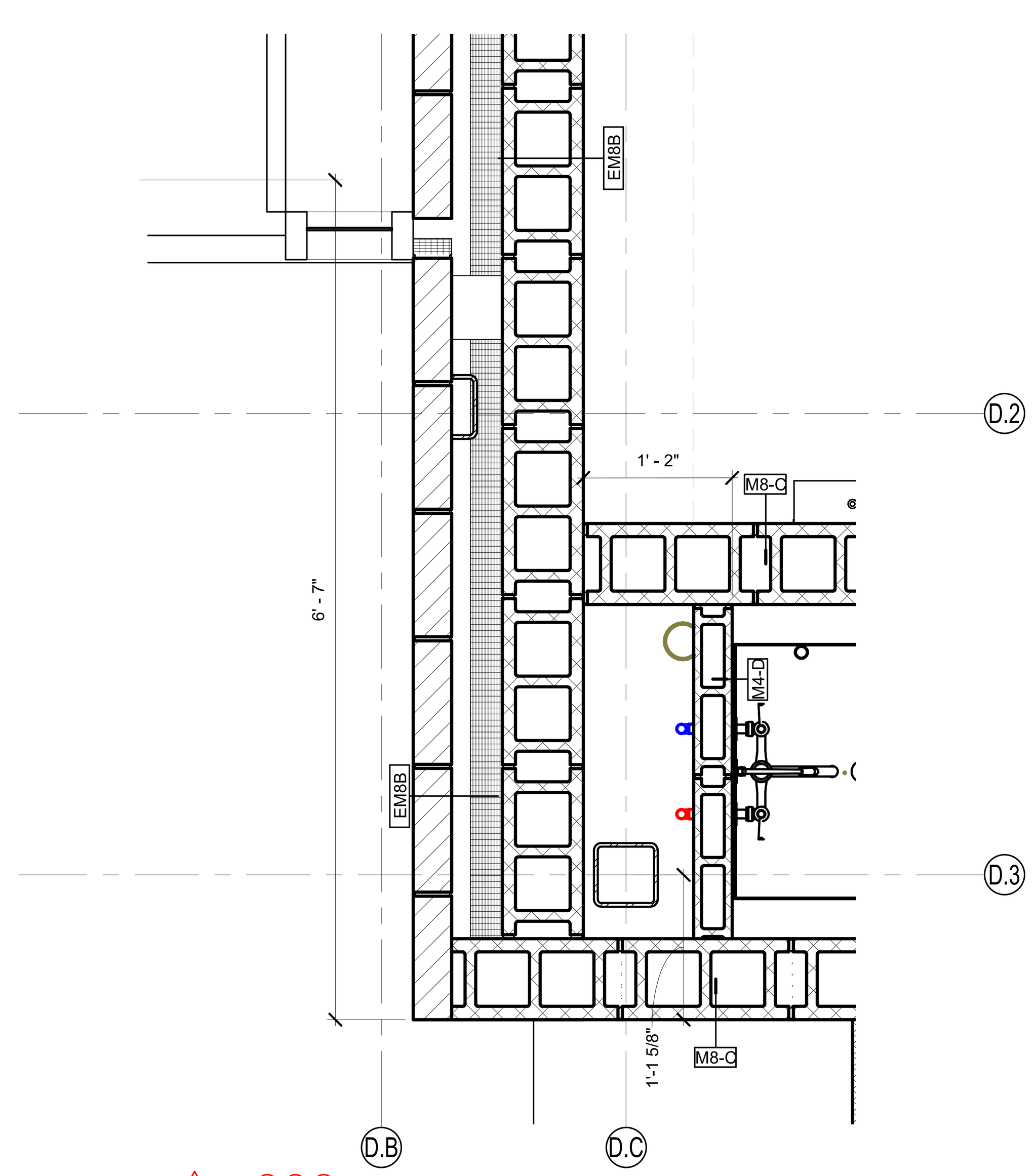

A1 3A PLAN DETAIL - VESTIBULE
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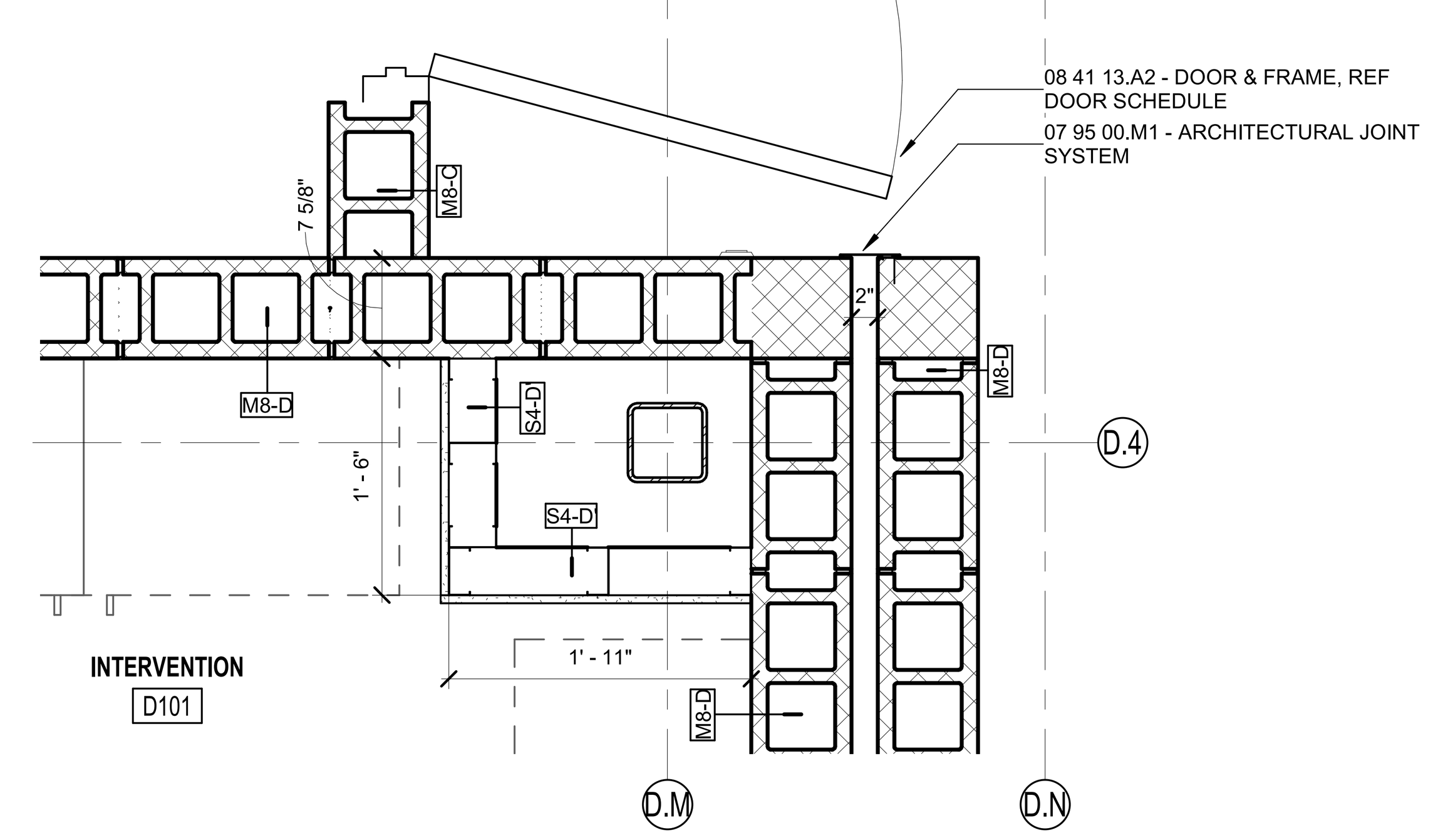

A1 1A PLAN DETAIL - INTERVENTION D101
1" = 1'-0"

6 5 4 3 2 1

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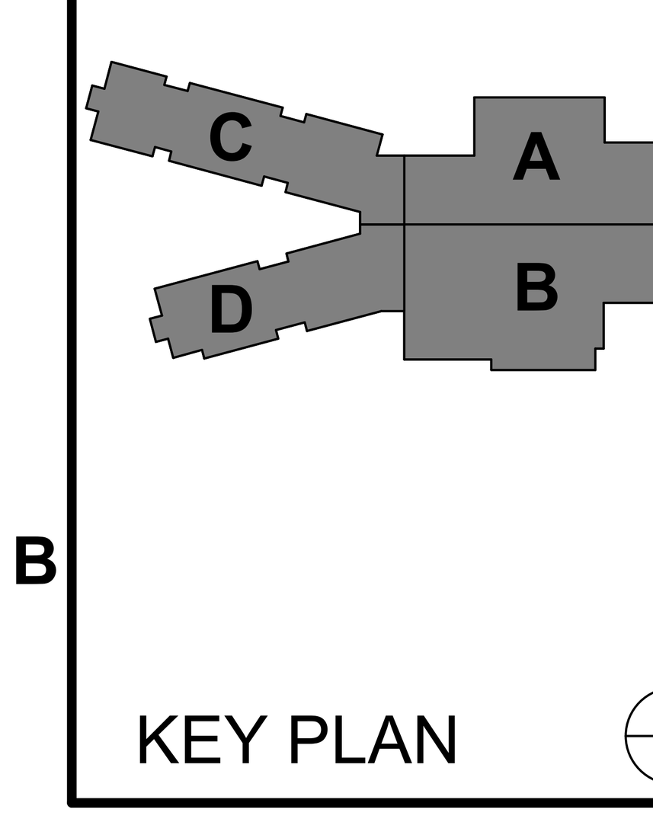

KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

PLAN DETAILS

A-511

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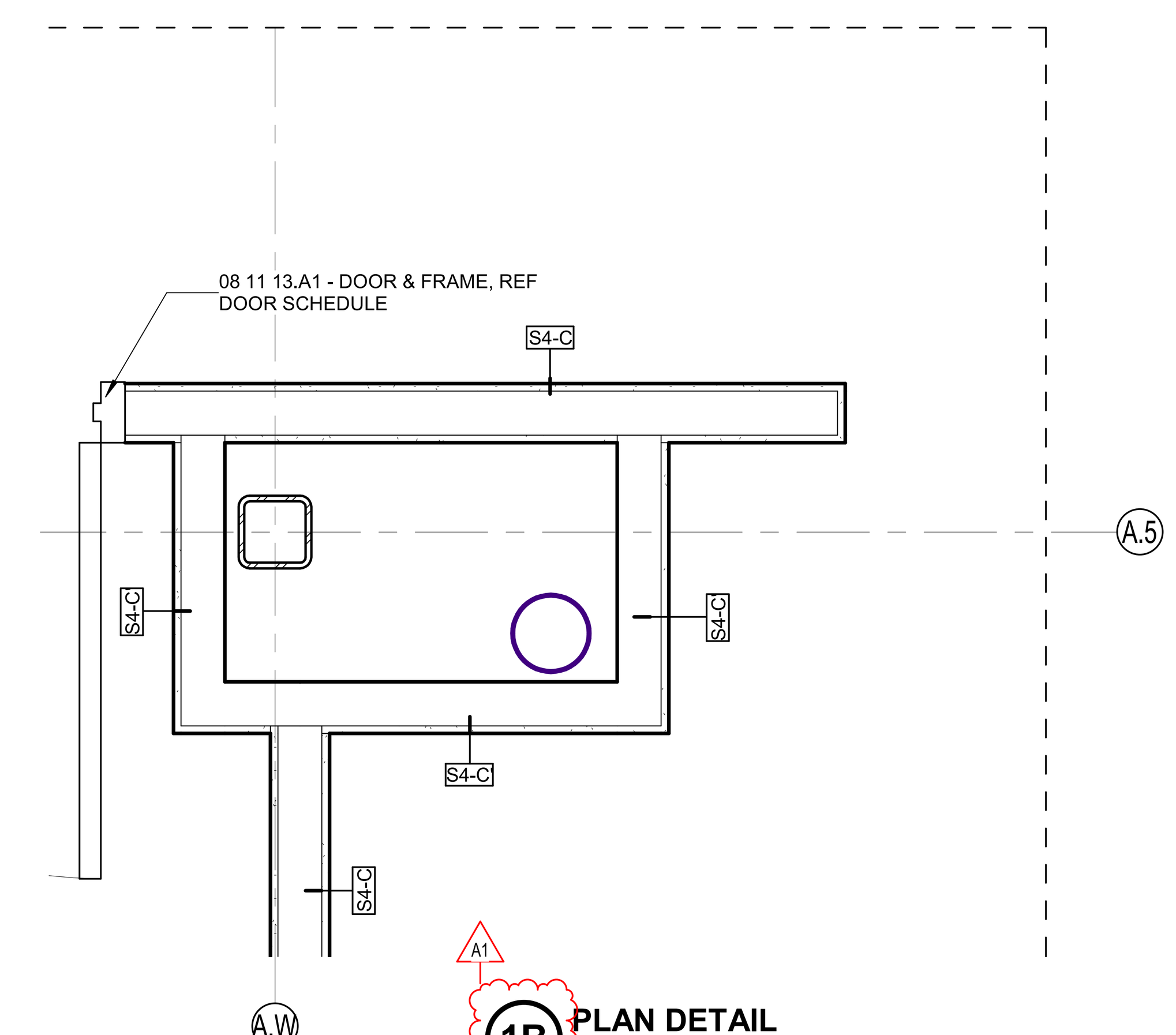
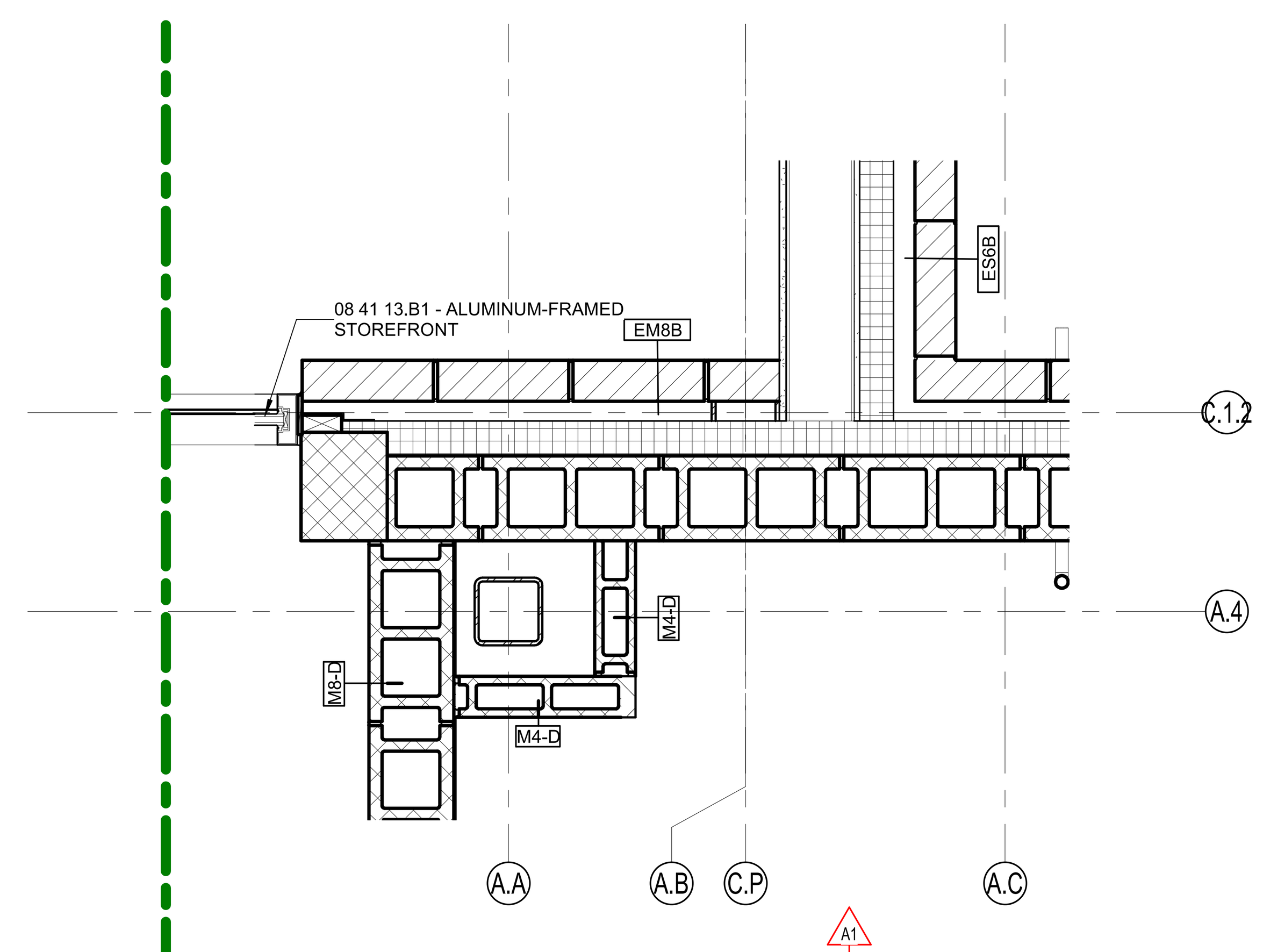
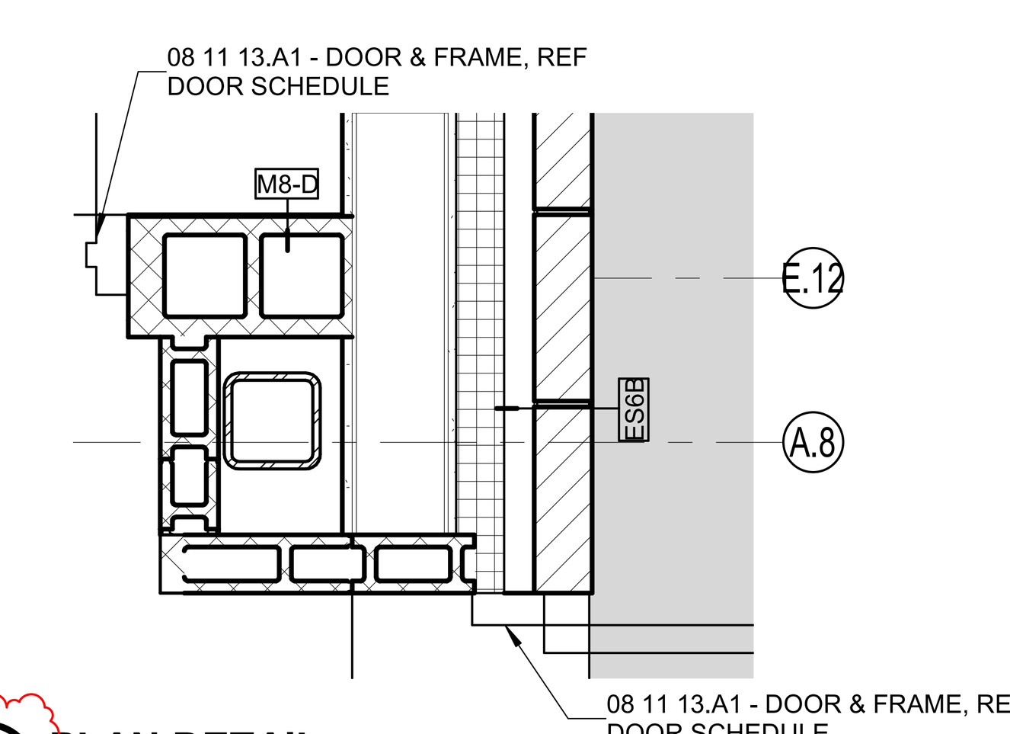


1B PLAN DETAIL
1" = 1'-0"



2A PLAN DETAIL
1" = 1'-0"



1A PLAN DETAIL
1" = 1'-0"

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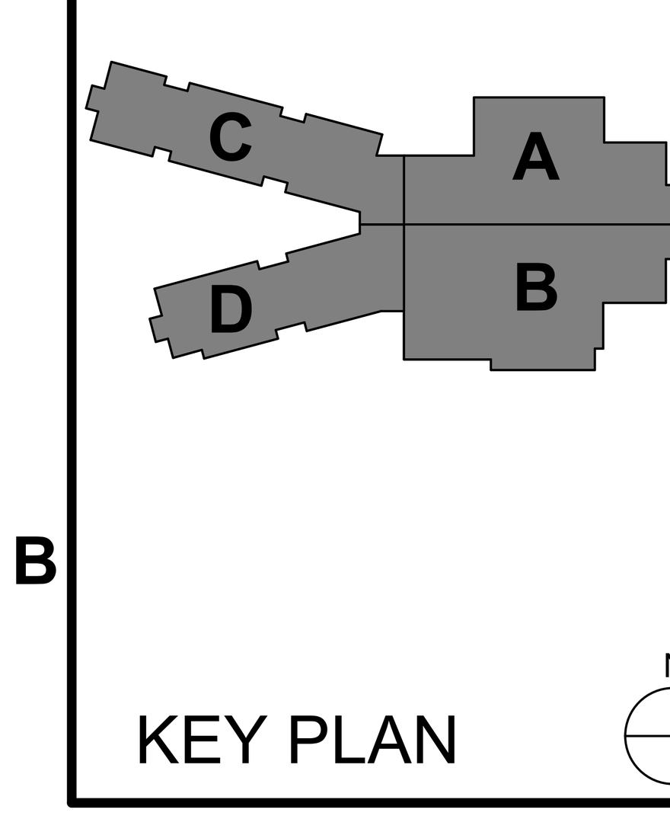


KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

PLAN DETAILS

A-512

INTERIOR FLOOR PLAN NOTES

#	NOTE
1	12 24 13 - MANUAL ROLLER SHADES; 3% OPENESS.
2	10 14 00 - INTERIOR PANEL SIGN TYPE A.
3	10 14 00 - INTERIOR PANEL SIGN TYPE B.
4	10 14 00 - INTERIOR PANEL SIGN TYPE C.
5	FINISHES TO BE: FLOOR: CFC-1, BASE: VWB-1, WALLS: P-1.
6	10 21 23 - CUBICLE CURTAIN AND TRACK.
7	09 30 00 - PROVIDE CERAMIC WALL TILE (CWT-1) AT ALL WALLS 52 INCHES ABOVE FINISHED FLOOR. TOP TILE SHALLHAVE BULLNOSE TOP EDGE. PROVIDE SCHLUTER METAL EDGE AT TOP OF RESINOUS FLOORING COVE BASE. REMAINDER OF WALL SHALL RECEIVE HIGH PERFORMANCE COATING AS INDICATED.
8	09 65 13 - PROVIDE RUBBER STAIR LANDING (RSL) AT INTERMEDIATE LANDING AND RUBBER STAIR TREADS AT STEPS.
9	PAINT ELECTRIC PANEL DOORS TO MATCH ADJACENT WALL. COORDINATE PAINTING WITH DIVISION 26 CONTRACTOR.
10	09 65 16 - PROVIDE SHEET VINYL IN FREEZER AND COOLER.
11	09 91 23.99 - EXTENT OF WALL TO RECEIVE PAINT HP-2 (DARK NEUTRAL) TO CEILING.
12	09 91 23.99 - EXTENT OF WALL TO RECEIVE PAINT P-4 (DARK BLUE) TO CEILING.
13	09 91 23.99 - EXTENT OF WALL TO RECEIVE PAINT P-5 (BRIGHT BLUE) TO CEILING.
14	REFERENCE INTERIOR ELEVATIONS FOR WALL PAINT CONFIGURATIONS.
15	10 26 00 - SURFACE-MOUNTED CORNER GUARD WITH CAP.
16	09 91 23.99 - EXTENT OF WALL TO RECEIVE PAINT P-2 (DARK NEUTRAL) TO CEILING.
17	PLASTIC LAMINATE DOOR WITH UNDERCUT. PROVIDE WIRE PULL AND LOCK. REFERENCE INTERIOR DETAILS.
18	09 91 23 .99 - EXTENT OF WALL TO BE PAINTED P-6 (BLUE).

INTERIOR FLOOR PLAN NOTES

#	NOTE
19	06 40 23 - EXTENT OF WALL TO RECEIVE WOOD WALL PANEL, WP-1. PROVIDE MANUFACTURER'S STANDARD TRIM FOR EXPOSED EDGES.
20	PERFORATED WINDOW FILM WITH CLOUD GRAPHIC, WF-1. REFERENCE INTERIOR ELEVATIONS.
21	LOCKERS. REFERENCE "A" SERIES DRAWINGS.
22	MOBILE BOOK CASES BY OWNER.
23	11 51 23 - SINGLE SIDED BOOK CASE: STARTER - 30"HEIGHT, 36" WIDTH. (BS-1)
24	11 51 23 - SINGLE SIDED BOOK CASE: STARTER - 60 "HEIGHT, 36" WIDTH. (BS-2)
25	12 00 50.99 - MOBILE TRASH RECEPTACLE. PLASTIC LAMINATE WITH LOGO ON FRONT DOOR MATCHING DISTRICT STANDARD. BASIS-OF-DESIGN: MANUFACTURER-SICO.
26	MOTORIZE ROLLER SHADES; 3% OPENESS. PROVIDE AT UPPER AND LOWER WINDOWS. TERMINATE LENGTH AT DOOR AND ADJACENT SIDELIGHTS.
27	10 14 00 - INTERIOR PANEL SIGN TYPE D.
28	10 14 00 - INTERIOR PANEL SIGN TYPE E.
29	12 24 13 - MANUAL ROLLER SHADES; 1% OPENESS.
30	09 91 23.99 - EXTENT OF WALL TO RECEIVE PAINT P-4 (DARK BLUE) STARTING AT 7'-4" AFF TO CEILING. REFERENCE PAINT CONFIRGURATION AT LAVATORY ELEVATION.
31	09 91 23.99 - EXTENT OF WALL TO RECEIVE PAINT P-5 (BRIGHT BLUE) STARTING AT 7'-4" AFF TO CEILING. REFERENCE PAINT CONFIRGURATION AT LAVATORY ELEVATION.
32	09 91 23.99 - EXTENT OF WALL TO RECEIVE PAINT P-6 (NAVY BLUE) STARTING AT 7'-4" AFF TO CEILING. REFERENCE PAINT CONFIRGURATION AT LAVATORY ELEVATION.

A1

Interior General Notes

Reference A-001 for general plan notes. All notes may not apply to this sheet.

A. Furniture is not provided in this contract. Layouts and final design will need to be determined by the owner.

B. Reference architectural ceilings plans for ceiling heights and bulkhead color designations. Paint all bulkheads P-1 unless specifically noted otherwise. Bulkheads that are flush with walls provide color to match adjacent wall color.

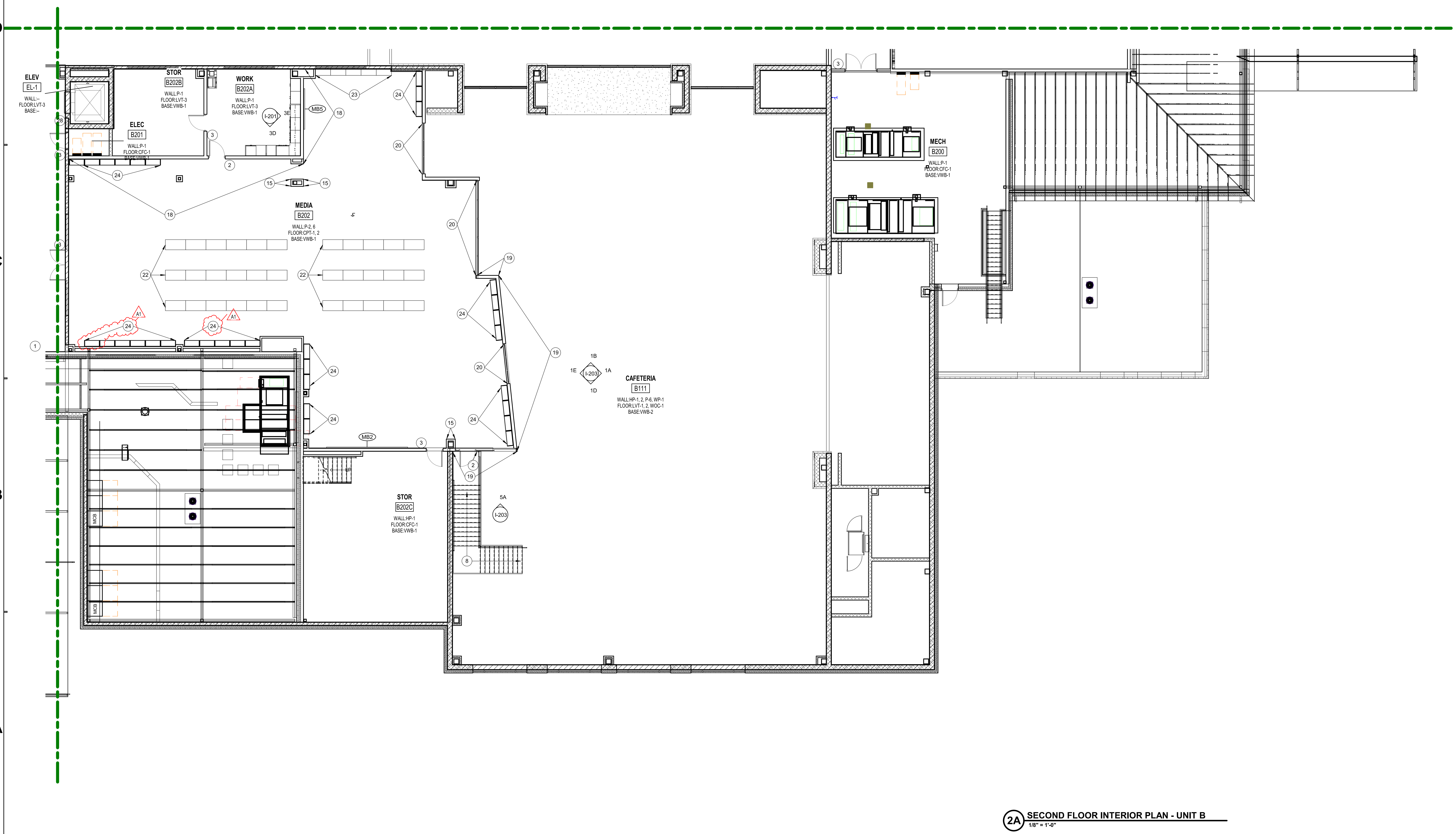
C. Paint interior hollow metal door frames and all stair assembly HP-3.

D. Paint general walls HP-1 or P-1 (Neutral) unless specifically noted otherwise.

E. Appliances and vending equipment are not provided in this contract.

F. Do not install vinyl wall base on interior brick unless specifically noted othwerwise. Provide a caulk joint at floor level.

G. Provide vinyl wall base around all casework unless specificlaly noted otherwise.



2A SECOND FLOOR INTERIOR PLAN - UNIT B
1/8" = 1'-0"

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5120 SENOUR ROAD
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KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR INTERIOR PLAN - UNIT B

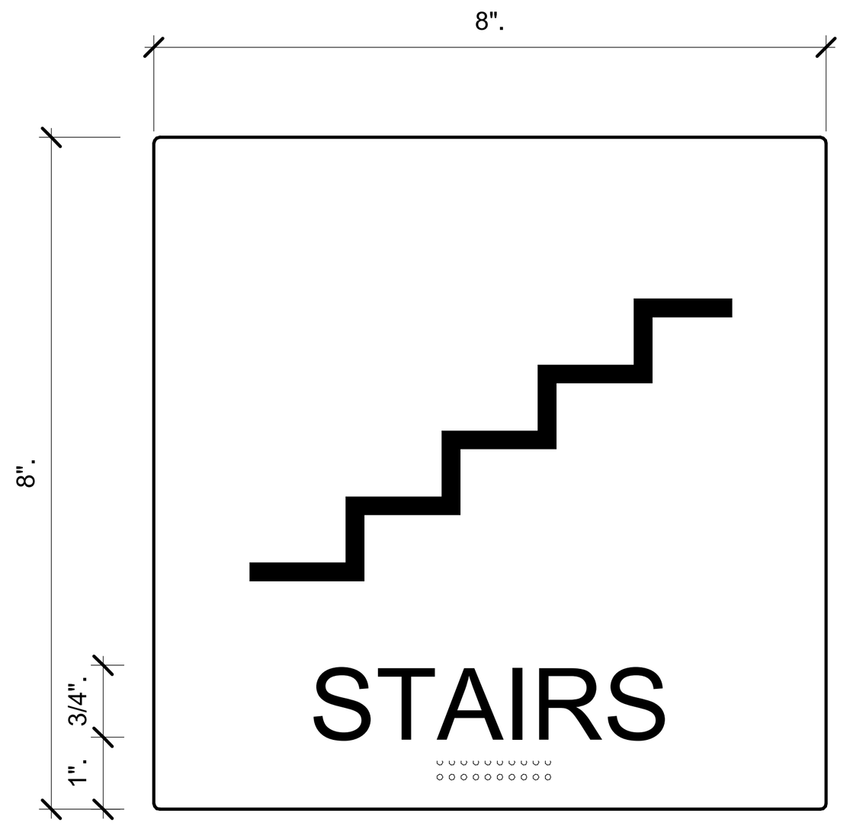
IN1B2

INTERIOR COLOR FINISH LEGEND						
ID	DESCRIPTION	BASIS OF DESIGN MANUFACTURER	PATTERN/STYLE	COLOR	SPEC.	COMMENTS
PL-1	PLASTIC LAMINATE	WILSONART	--	4946-38 NATURAL COTTON	06 40 23	MILLWORK
PL-2	PLASTIC LAMINATE	WILSONART	--	PEWTER MESH 4878-38	06 40 23	MILLWORK
PL-3	PLASTIC LAMINATE	FORMICA	--	CITADEL WARP 5882-58	06 40 23	MILLWORK
CWT-1	CERAMIC WALL TILE	AMERICAN OLEAN	COLOR STORY	0035 CALM	09 30 00	3" X 6"
VB-1	VENTED BASE	TARKETT	--	BLACK	09 64 66	--
WAF-1	WOOD ATHLETIC FLOORING	ROBBINS SPORT SURFACES	BIO CHANNEL STAR	TO BE SELECTED	09 64 66	--
RSL-1	RUBBER STAIR LANDINGS	TARKETT	--	29 MOONROCK	09 65 13	--
RST-1	RUBBER STAIR TREADS	TARKETT	RAISED RIBS WITH ABRASIVE STRIP	29 MOONROCK	09 65 13	--
VWB-1	VINYL WALL BASE	TARKETT	--	29 MOONROCK	09 65 13	4" HEIGHT
VWB-2	VINYL WALL BASE	TARKETT	--	29 MOONROCK	10 65 13	6" HEIGHT
LVT-1	LUXURY VINYL TILE	INTERFACE FLOORING	NATURAL WOODGRAINS	A00210 TEAK	09 65 19	--
LVT-2	LUXURY VINYL TILE	INTERFACE FLOORING	NATURAL STONES	A00101 JET MIST	09 65 19	--
LVT-3	LUXURY VINYL TILE	INTERFACE FLOORING	SCORPIO	A01713 PEBBLE	09 65 19	--
LVT-4	LUXURY VINYL TILE	INTERFACE FLOORING	SCORPIO	A01709 SILVERLIGHT	09 65 19	--
LVT-5	LUXURY VINYL TILE	INTERFACE FLOORING	SCORPIO	A01718 SLATE	09 65 19	--
LVT-6	LUXURY VINYL TILE	INTERFACE FLOORING	SCORPIO	A01708 ELECTRIC BLUE	09 65 19	--
CFC-1	RESINOUS FLOORING	SHERWIN WILLIAMS	3746 HIGH PERFORMANCE EPOXY	TO BE SELECTED	09 67 23.13	SUPPORT ROOMS
RSF-2	RESINOUS FLOORING	SHERWIN WILLIAMS	RESUFLOR DECO FLAKE	PYRITE	09 67 23.15	WET AREAS
RSFB-2	RESINOUS FLOORING COVE BASE	SHERWIN WILLIAMS	RESUFLOR DECO FLAKE	PYRITE	09 67 23.15	WET AREAS
RSF-1	RESINOUS FLOORING	SHERWIN WILLIAMS	RESUFLOR DECO FLAKE	PYRITE	09 67 23.17	KITCHEN AREA
RSFB-1	RESINOUS FLOORING COVE BASE	SHERWIN WILLIAMS	RESUFLOR DECO FLAKE	PYRITE	09 67 23.17	KITCHEN AREA
CPT-1	CARPET TILE	INTERFACE FLOORING	DRIFTWOOD	104861 ELM	09 68 13	FIELD
CPT-2	CARPET TILE	INTERFACE FLOORING	DRIFTWOOD	104859 SWEETGUM	09 68 13	BLUE ACCENT
WOC-1	WALK-OFF CARPET	INTERFACE FLOORING	STEP REPEAT	TO BE SELECTED	09 68 13	VESTIBULES
P-1	PAINT	SHERWIN WILLIAMS	--	SW7100 ARCADE	09 91 23.99	WHITE
P-2	PAINT	SHERWIN WILLIAMS	--	SW7029 AGREEABLE GRAY	09 91 23.99	LIGHT NEUTRAL
P-3	PAINT	SHERWIN WILLIAMS	--	SW7018 DOVETAIL	09 91 23.99	DARK NEUTRAL
P-4	PAINT	SHERWIN WILLIAMS	--	SW7604 SMOKY BLUE	09 91 23.99	DARK BLUE
P-5	PAINT	SHERWIN WILLIAMS	--	SW6797 JAY BLUE	09 91 23.99	BRIGHT BLUE
P-6	PAINT	SHERWIN WILLIAMS	--	SW9177 SALTY DOG	09 91 23.99	NAVY BLUE
HP-1	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	--	SW7100 ARCADE	09 96 00.99	WHITE
HP-2	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	--	SW7029 AGREEABLE GRAY	09 96 00.99	LIGHT NEUTRAL
HP-3	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	--	SW7018 DOVETAIL	09 96 00.99	DARK NEUTRAL
HP-4	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	--	SW9177 SALTY DOG	09 96 00.99	NAVY BLUE
SV-1	SHEET VINYL	ARMSTRONG	MEDINTECH	TO BE SELECTED	09 65 16	CLINIC; COVE TO TO 4" HIGH.
SV-2	SHEET VINYL	ALTRO	STRONGHOLD 30	K30500 TUNDRA	09 65 16	FREEZER
PL-2	PLASTIC LAMINATE	WILSONART	--	PEWTER MESH 4878-38	12 32 00	CASEWORK
SS-1	SOLID SURFACE	WILSONART	--	9200CS MYSTIQUE	12 36 61.16	WINDOW STOOLS, COUNTERTOPS
SS-2	SOLID SURFACE	WILSONART	--	9203CE DUSK ICE	12 36 61.16	TRANSACTION TOPS
WP-1	WOOD WALL PANELS	STIKWOOD	--	VERTICAL GRAIN ARABICA	06 40 23	WOOD ACCENT WALL
WD	WOOD DOOR	ASSA ABLOY	PLAIN SLICED RED OAK	#250	08 14 16	COLOR REFERENCE ONLY
CC-1	CUBICLE CURTAIN	ARCHITEX	RX_1008	TRANQUIL	10 21 23	--
WF-1	WINDOW FILM	MDC	IMAGEVUE	CLOUD GRAPHIC	08 80 00	PERFORATED ONE-WAY VISION FILM AT MEDIA CENTER WINDOWS.

A1

5.5.601 - VISUAL DISPLAY SCHEDULE

MARK	DESCRIPTION	W	H	QTY:	MOUNTING HEIGHT
MB2	MARKER BOARD	16' - 0"	4' - 0"	26	30" A.F.F.
MB3	MARKER BOARD	12' - 0"	4' - 0"	4	30" A.F.F.
MB4	MARKER BOARD	6' - 0"	4' - 0"	1	36" A.F.F.
MB5	MARKER BOARD	8' - 0"	4' - 0"	5	36" A.F.F.
MB6	MARKER BOARD	16' - 0"	4' - 0"	1	30" A.F.F. - MUSIC STAFF
TB1	TACKBOARD	4' - 0"	4' - 0"	42	24" A.F.F.
TB3	TACKBOARD	20' - 0"	1' - 0"	1	ABOVE ASSEMBLY
TB4	TACK BOARD	6' - 0"	5' - 0"	46	30" A.F.F.
TB5	TACK BOARD	4' - 0"	4' - 0"	54	30" A.F.F.
TB7	TACKBOARD	24' - 0"	1' - 0"	4	ABOVE ASSEMBLY

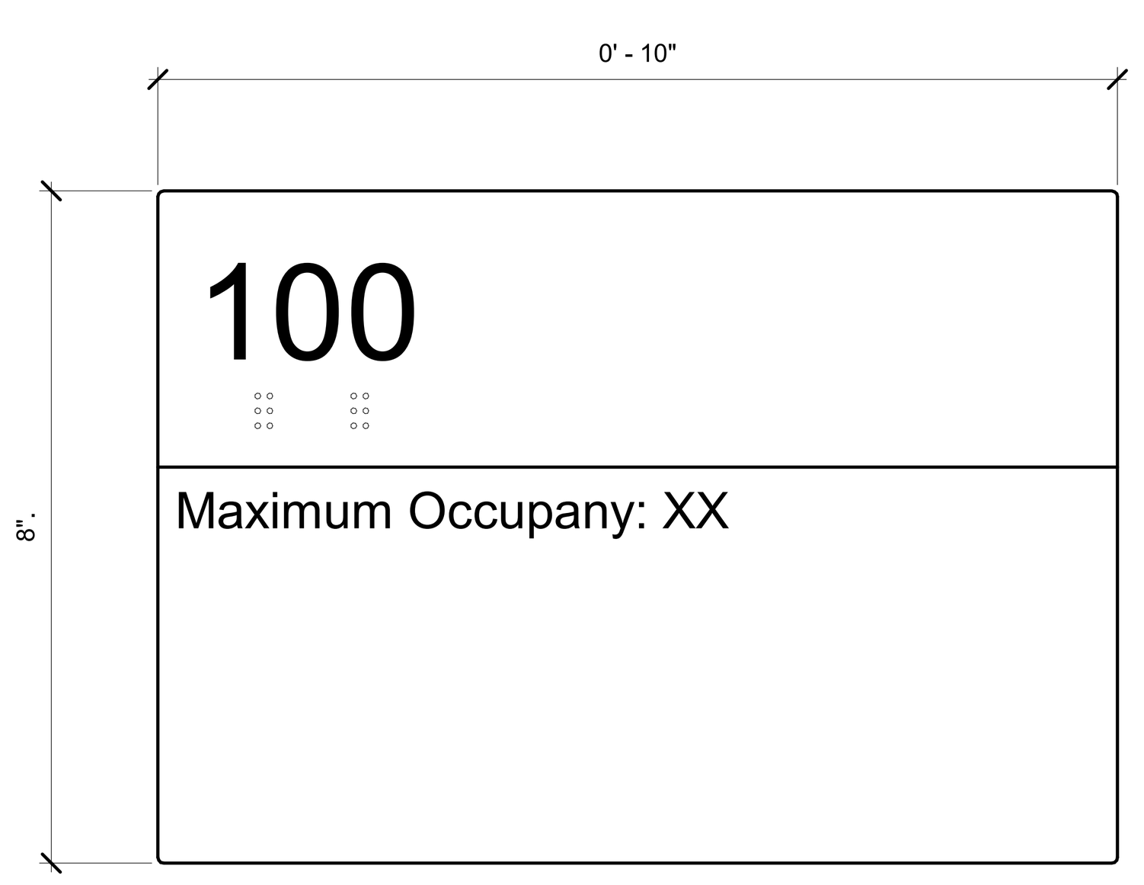


SIGN TYPE "D"

5C SIGN TYPE "D"
6" = 1'-0"

SIGN TYPE "C2"

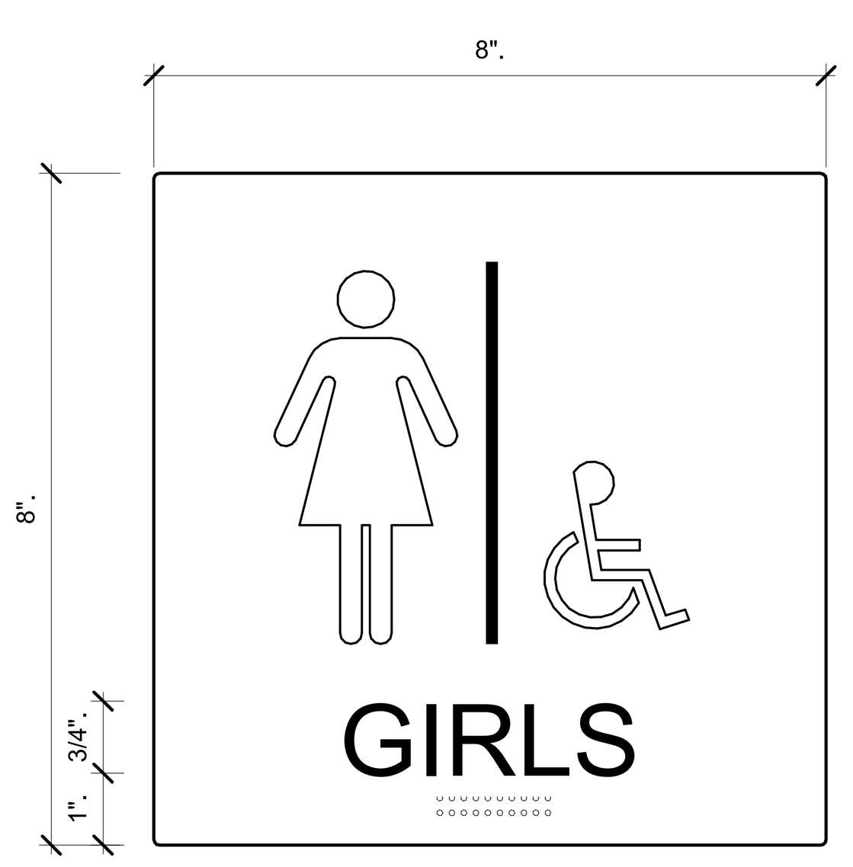
4C SIGN TYPE "C2"
6" = 1'-0"



SIGN TYPE "F"

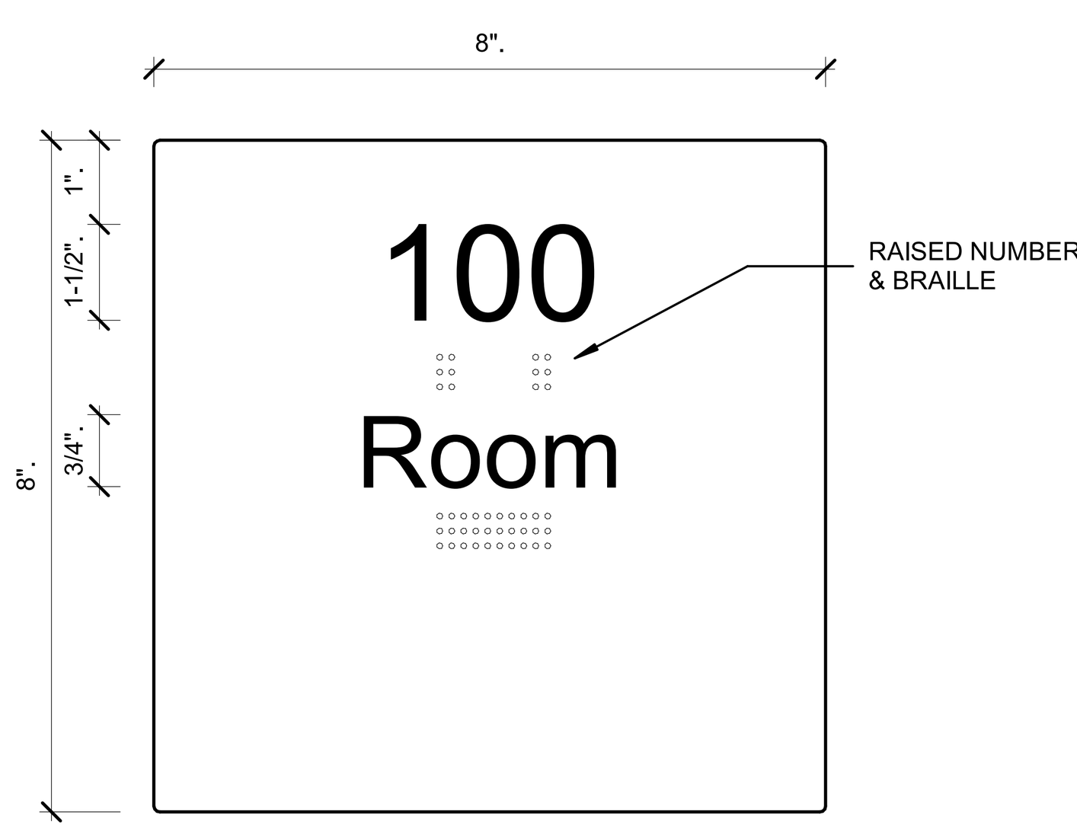
6B SIGN TYPE "F"
6" = 1'-0"

NOTE: PROVIDE THIS SIGN TYPE AY GYMNASIUM, MEDIA CENTER AND CAFETERIA.



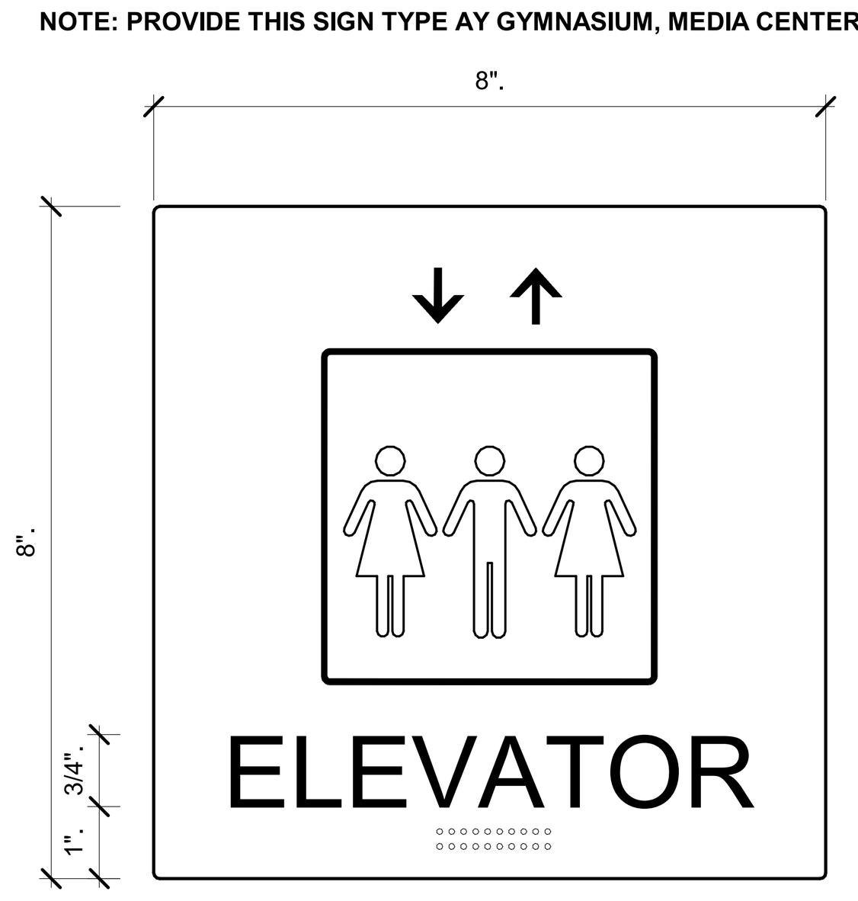
SIGN TYPE "C4"

5B SIGN TYPE "C4"
6" = 1'-0"



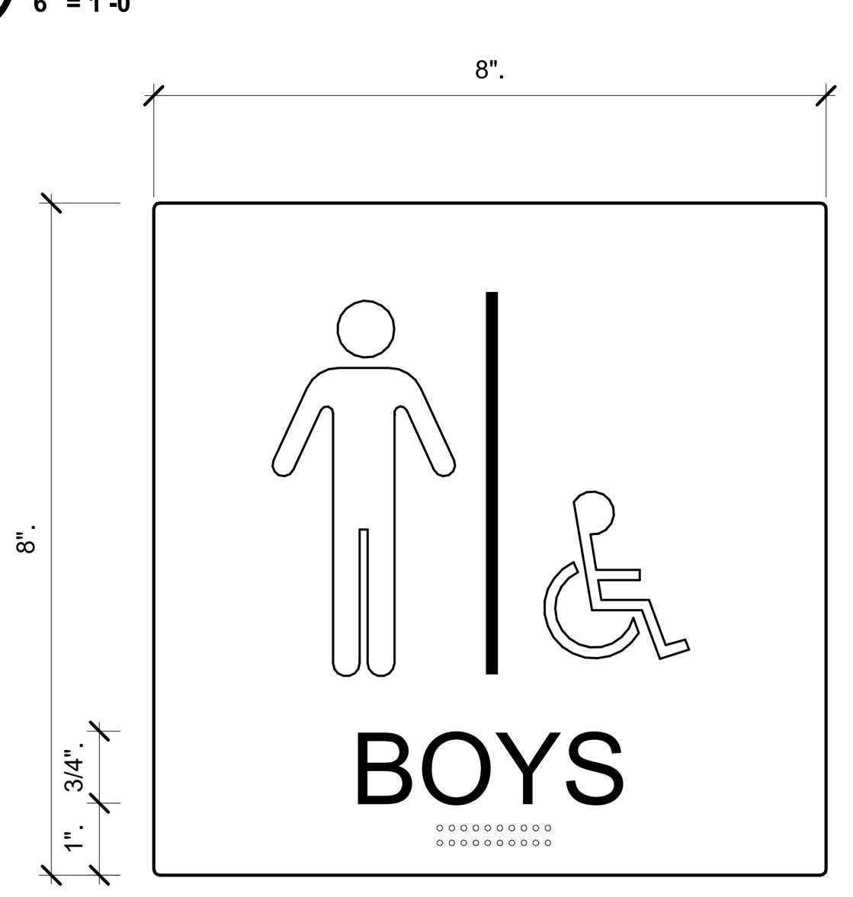
SIGN TYPE "B"

4B SIGN TYPE "B"
6" = 1'-0"



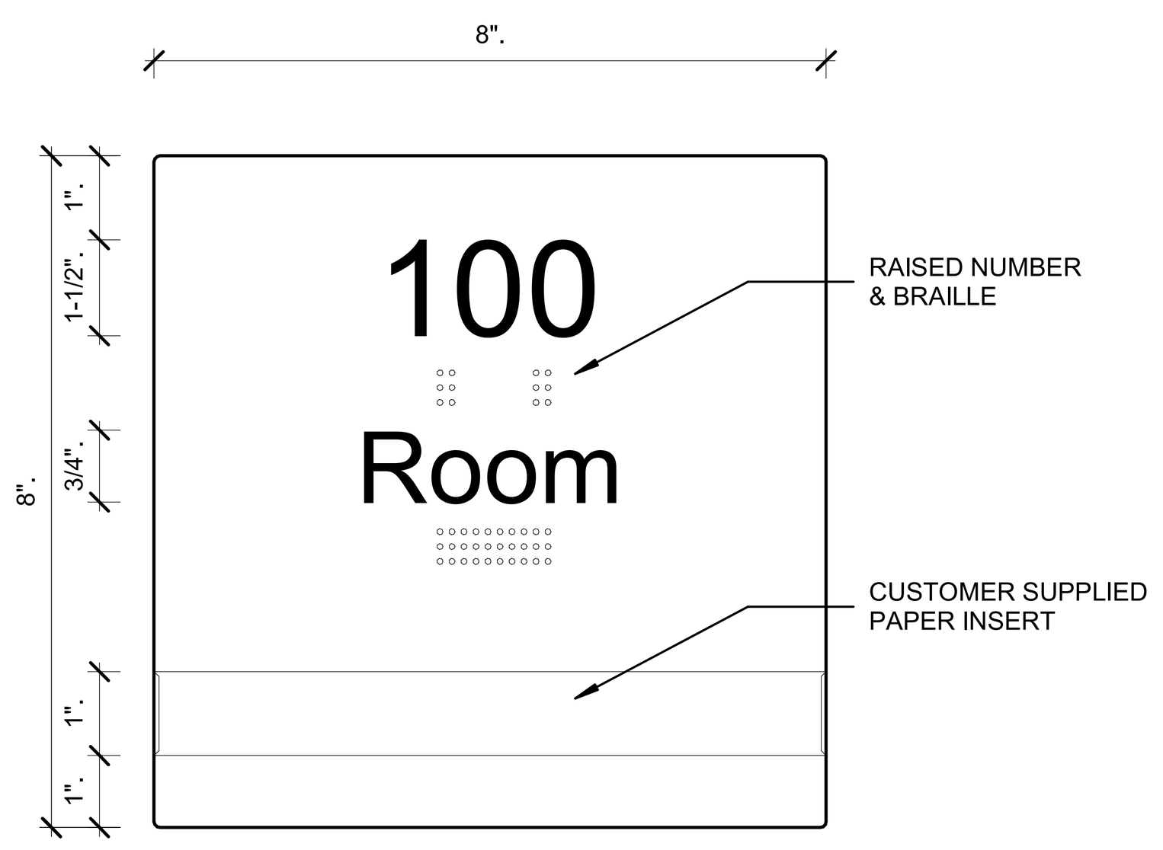
SIGN TYPE "E"

6A SIGN TYPE "E"
6" = 1'-0"



SIGN TYPE "C3"

5A SIGN TYPE "C3"
6" = 1'-0"



SIGN TYPE "A", WINDOW SIGN

4A SIGN TYPE "A"
6" = 1'-0"

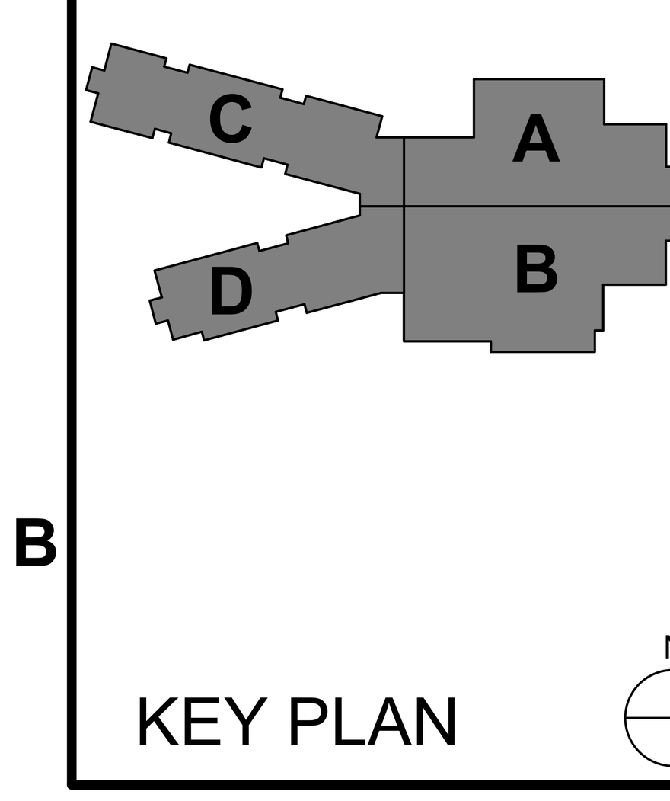
SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-141.NES
Project Date 05.11.2022
Produced AEC

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1	Addendum 1	05.31.2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

INTERIOR FINISH LEGEND, ROOM FINISH SCHEDULE, & VISUAL DISPLAY

I-601

MECHANICAL HVAC PLAN NOTES

#	NOTE
1	6" ROUND EXHAUST UP.
2	CUT-OUT OPENING IN LOUVER BACKER PANEL FOR REAR PLENUM ASSEMBLY. SEE M-504 FOR SIZE OF CUT-OUT, SEAL WEATHER TIGHT AROUND PLENUM ASSEMBLY AND BACKER PANEL.
3	MOUNT 8" AFF. HEATER TO BE RECESSED IN WALL UNLESS CMU. SEE ARCHITECTURAL PLANS FOR DETAILS.
4	TRANSITION TO FABRIC DUCT. SEE DETAIL ON M-504.
5	18"x18" EXHAUST DUCT UP TO EF-A2 ON ROOF. TRANSITION AS REQUIRED.
6	12"x12" EXHAUST DUCT UP TO EF-B2 ON ROOF. TRANSITION AS REQUIRED.
7	ROUTE DUCT UP AND OVER DUCT AND THROUGH STRUCTURAL TRUSS.
8	MOUNT DRYER BOOSTER FAN NO FURTHER THAN 8'-0" FROM DRYER CONNECTION. LED NOTIFICATION WALL PLATE TO BE MOUNTED ABOVE DRYER, NEXT TO TJERNLUND MODEL LT4 SECONDARY LINT TRAP AND BE VISIBLE TO USERS.
9	12"x10" EXHAUST UP TO EF-B1 ON ROOF. TRANSITION AS REQUIRED.
10	24"x16" SUPPLY AND 16"x12" RETURN DUCT UP TO AHU-1 ON MEZZANINE.
11	12"x8" EXHAUST DUCT UP TO EF-A1 ON ROOF. TRANSITION AS REQUIRED.
12	35"x40" RETURN DUCT UP.
13	10" DUCT UP TO EF-A3/EF-A4 ON ROOF. TRANSITION AS REQUIRED.
14	12"x12" EXHAUST DUCT UP TO EF-C1 ON ROOF. TRANSITION AS REQUIRED.
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17	12"x12" EXHAUST DUCT UP TO EF-C4 ON ROOF. TRANSITION AS REQUIRED.
18	12"x12" EXHAUST DUCT UP TO EF-C5 ON ROOF. TRANSITION AS REQUIRED.
19	INSTALL TEE AND TURN DOWN 45° FOR BOILER EXHAUST FLUE. INSTALL METAL MESH SCREEN. AC29-4C FLUE MATERIAL.
20	INSTALL TEE AND TURN DOWN 45° FOR BOILER COMBUSTION AIR. INSTALL METAL MESH SCREEN. SCH. 40 PVC MATERIAL.
21	BOTTOM OF GRILLE TO BE 0'-8" AFF.
22	66"x36" UP TO GV-1 ON ROOF. HORIZONTAL DUCT STUB SHALL BE 36"x20" WITH TWO 28"x20" OPENINGS CUT OUT ON TOP OF THE DUCT. COVER OPENINGS WITH 1/2" GALVENIZED MESH. EXPOSED DUCT SHALL HAVE PAINT GRIP FINISH PAINT COLOR TO BE DETERMINED BY ARCHITECT.
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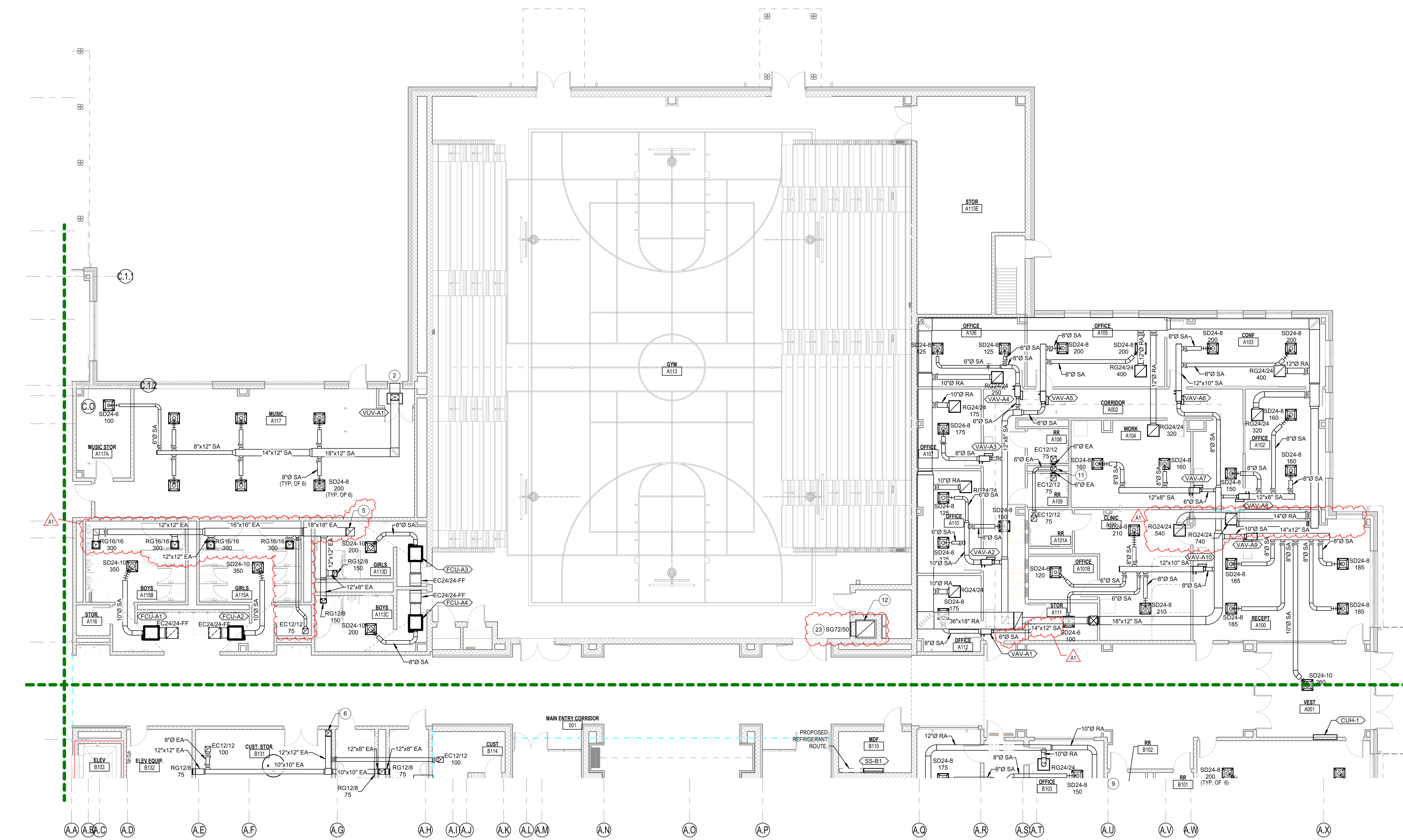
26	18"x32" SUPPLY DUCT UP TO RTU-1.
27	12"x12" EXHAUST DUCT UP TO EF-A5 ON ROOF. TRANSITION AS REQUIRED. FAN TO BE CONTROLLED BY TIMER SWITCH LOCATED NEXT TO TEMP SENSOR, PROVIDED BY TCC.
28	12"x12" EXHAUST DUCT UP TO EF-A6 ON ROOF. TRANSITION AS REQUIRED.FAN TO BE CONTROLLED BY TIMER SWITCH LOCATED NEXT TO TEMP SENSOR, PROVIDED BY TCC.



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

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
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Project No. 2021-141.NES
Project Date 05.11.2022
Produced CSM

SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT NO. AR10400134 STATE OF INDIANA

#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239

KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

FIRST FLOOR HVAC PLAN - UNIT A

MH1A1

MECHANICAL HVAC PLAN NOTES

#	NOTE
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7	ROUTE DUCT UP AND OVER DUCT AND THROUGH STRUCTURAL TRUSS.
8	MOUNT DRYER BOOSTER FAN NO FURTHER THAN 8'-0" FROM DRYER CONNECTION. LED NOTIFICATION WALL PLATE TO BE MOUNTED ABOVE DRYER, NEXT TO TJERNLUND MODEL LT4 SECONDARY LINT TRAP AND BE VISIBLE TO USERS.
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18	12"x12" EXHAUST DUCT UP TO EF-C5 ON ROOF. TRANSITION AS REQUIRED.
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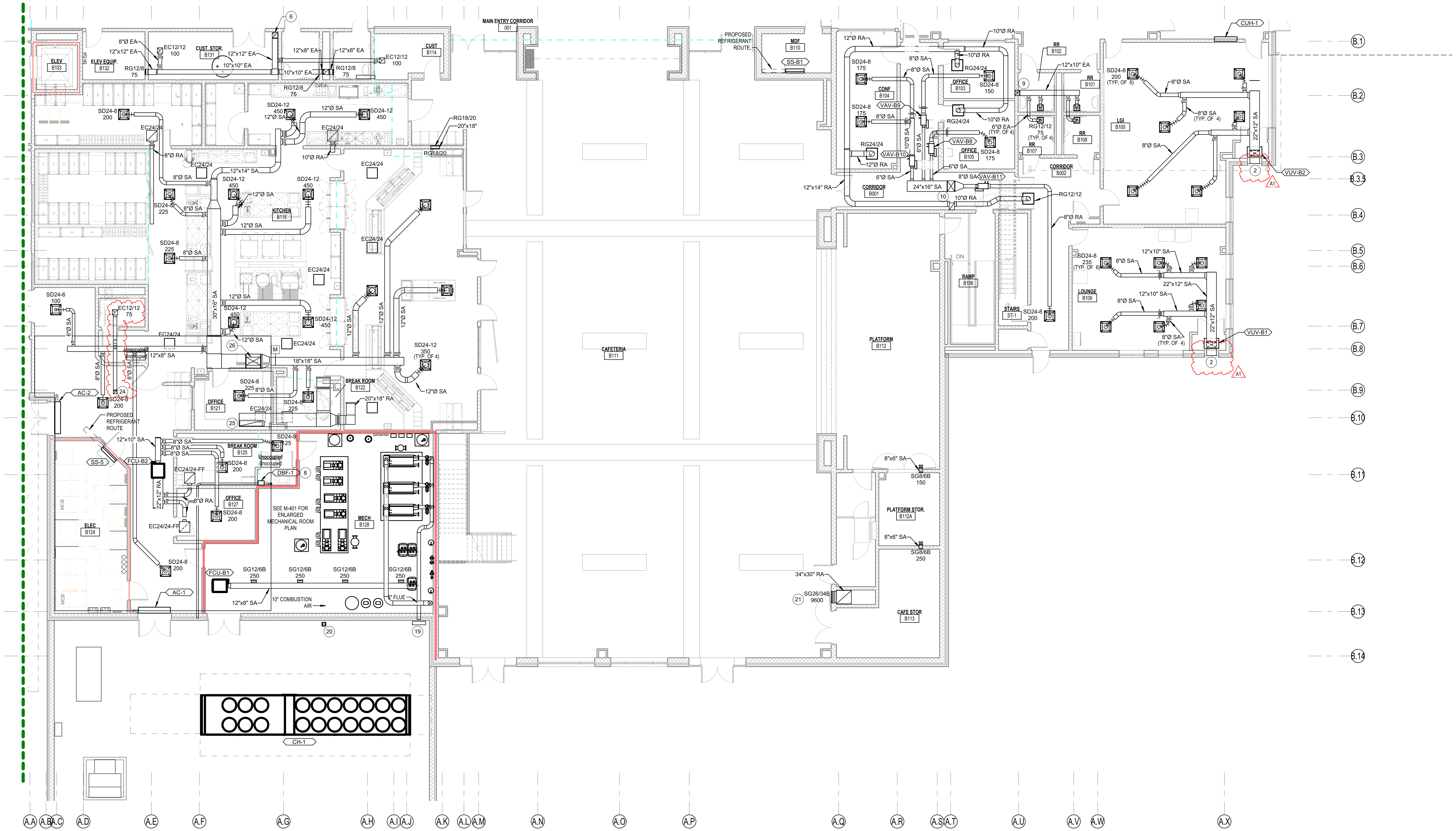

1 FIRST FLOOR - HVAC PLAN - UNIT B
1/8" = 1'-0"

SCHMIDT ASSOCIATES
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Indianapolis, IN 46204
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Project No. 2021-141.NES
Project Date 05.11.2022
Produced CSM

SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT NO. AR10400134 STATE OF INDIANA

#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239

KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR HVAC PLAN -UNIT B

MH1B1

MECHANICAL HVAC PLAN NOTES

#	NOTE
1	6" ROUND EXHAUST UP.
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13	10" DUCT UP TO EF-A3/EF-A4 ON ROOF. TRANSITION AS REQUIRED.
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17	12"x12" EXHAUST DUCT UP TO EF-C4 ON ROOF. TRANSITION AS REQUIRED.
18	12"x12" EXHAUST DUCT UP TO EF-C5 ON ROOF. TRANSITION AS REQUIRED.
19	INSTALL TEE AND TURN DOWN 45° FOR BOILER EXHAUST FLUE. INSTALL METAL MESH SCREEN. AC29-4C FLUE MATERIAL.
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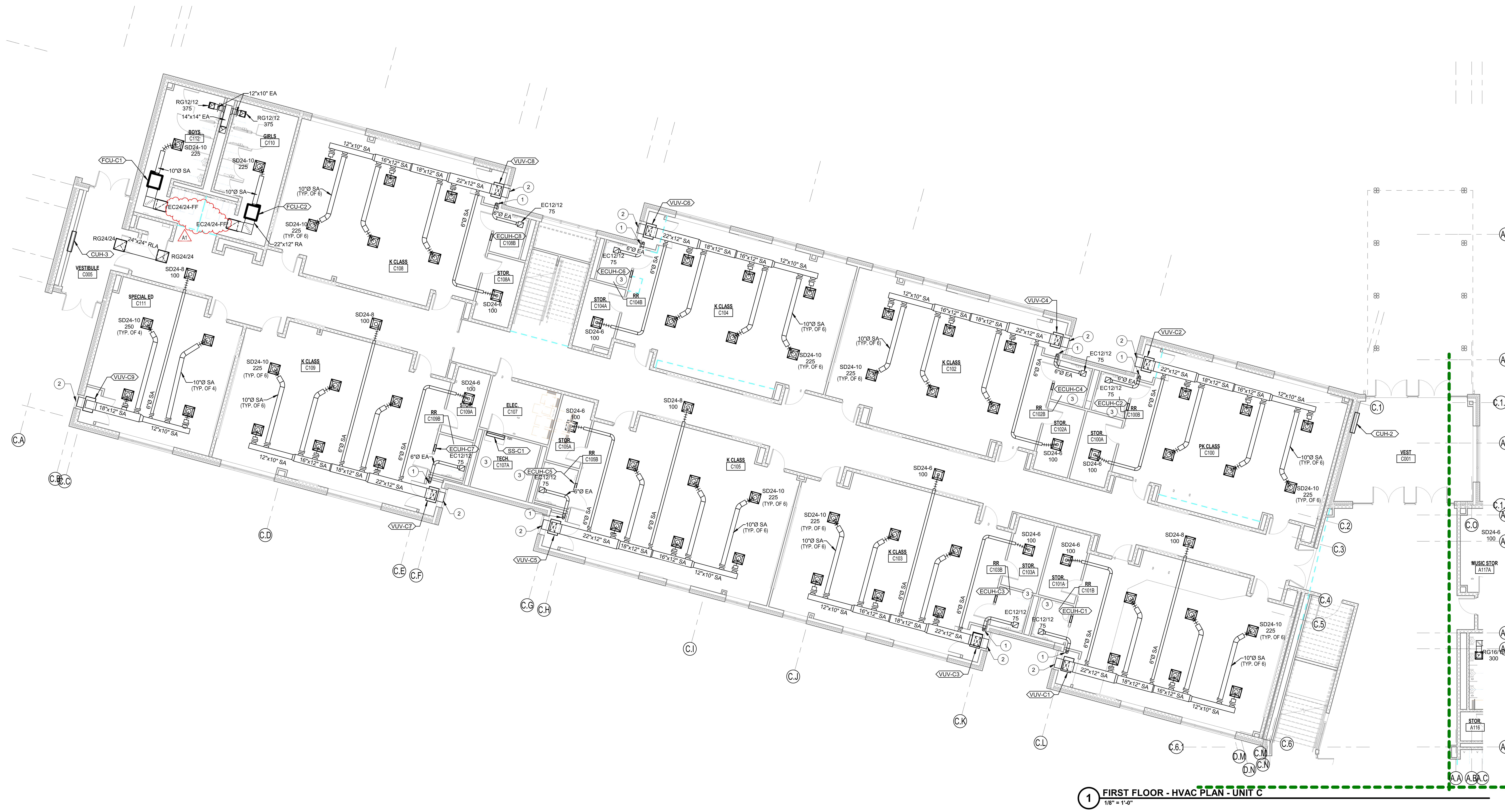


1 FIRST FLOOR - HVAC PLAN - UNIT C
1/8" = 1'-0"

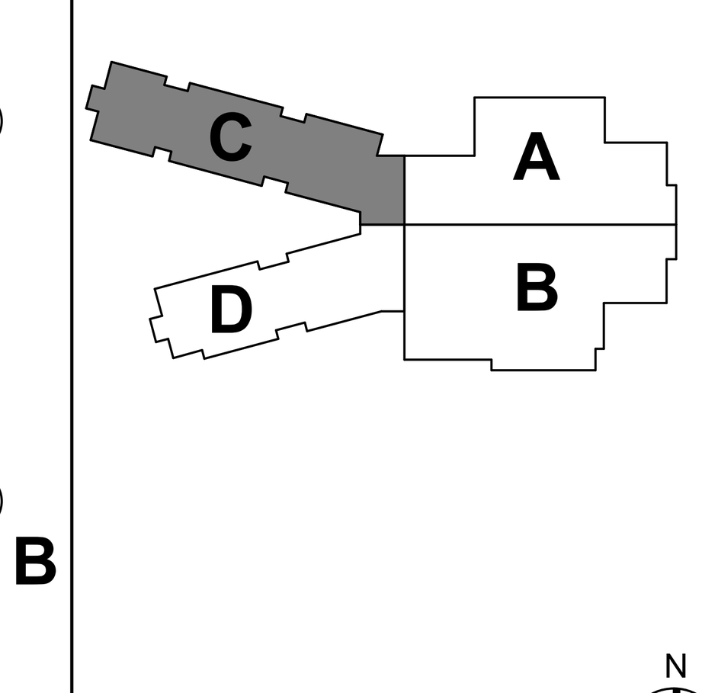
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-141.NES
Project Date 05.11.2022
Produced CSM

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR HVAC PLAN - UNIT C

MH1C1

MECHANICAL HVAC PLAN NOTES

#	NOTE
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19	INSTALL TEE AND TURN DOWN 45° FOR BOILER EXHAUST FLUE. INSTALL METAL MESH SCREEN. AC29-4C FLUE MATERIAL.
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1 FIRST FLOOR - HVAC PLAN - UNIT D
1/8" = 1'-0"

SCHMIDT ASSOCIATES
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Project No. 2021-141.NES
Project Date 05.11.2022
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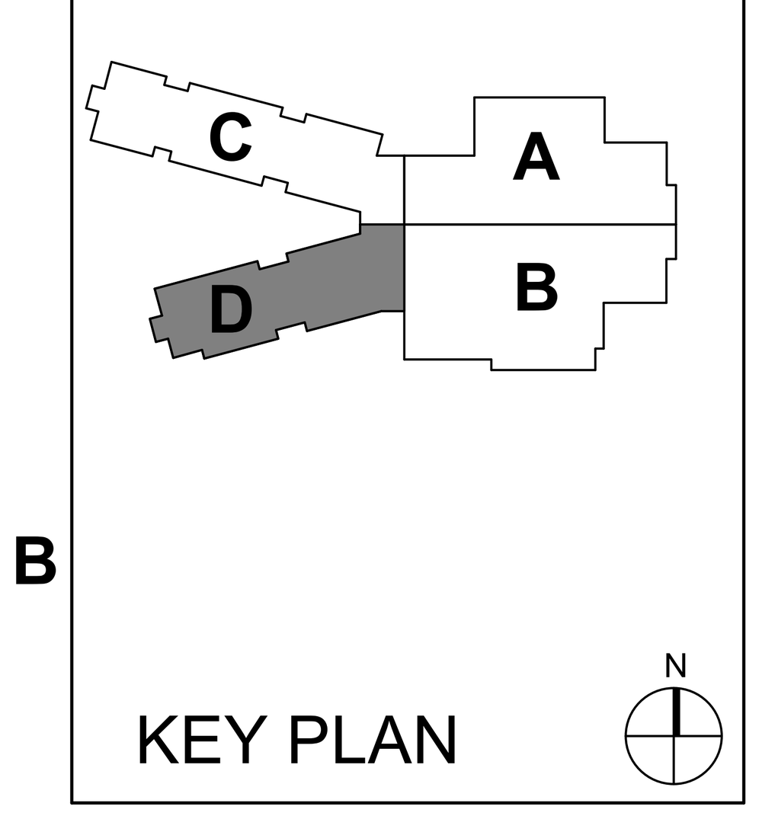
SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT NO. AR10400134 STATE OF INDIANA

#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



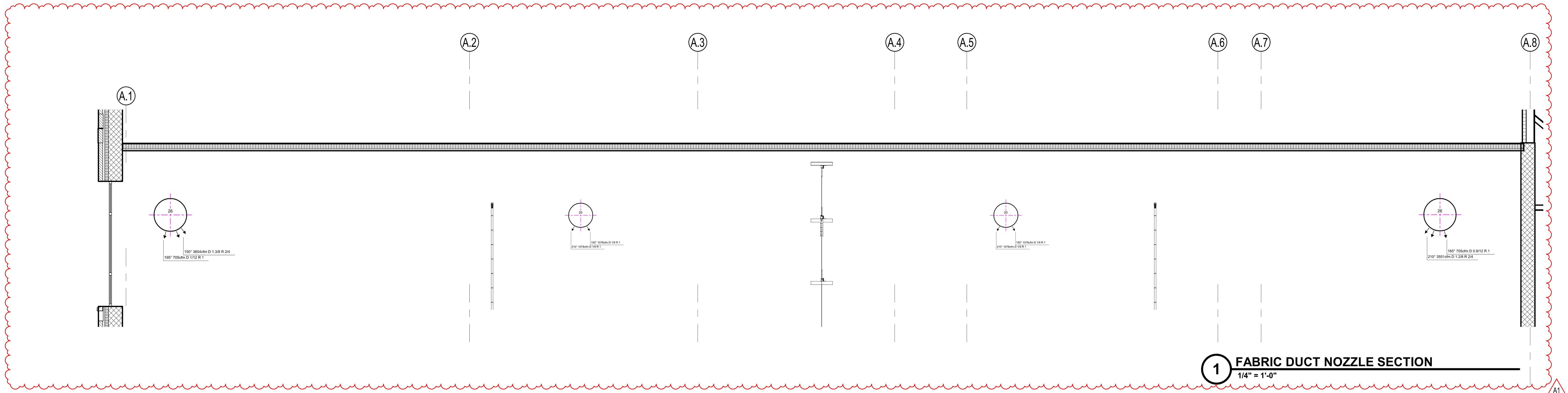
KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR HVAC PLAN - UNIT D

MH1D1



1 FABRIC DUCT NOZZLE SECTION
1/4" = 1'-0"

MECHANICAL HVAC PLAN NOTES

#	NOTE
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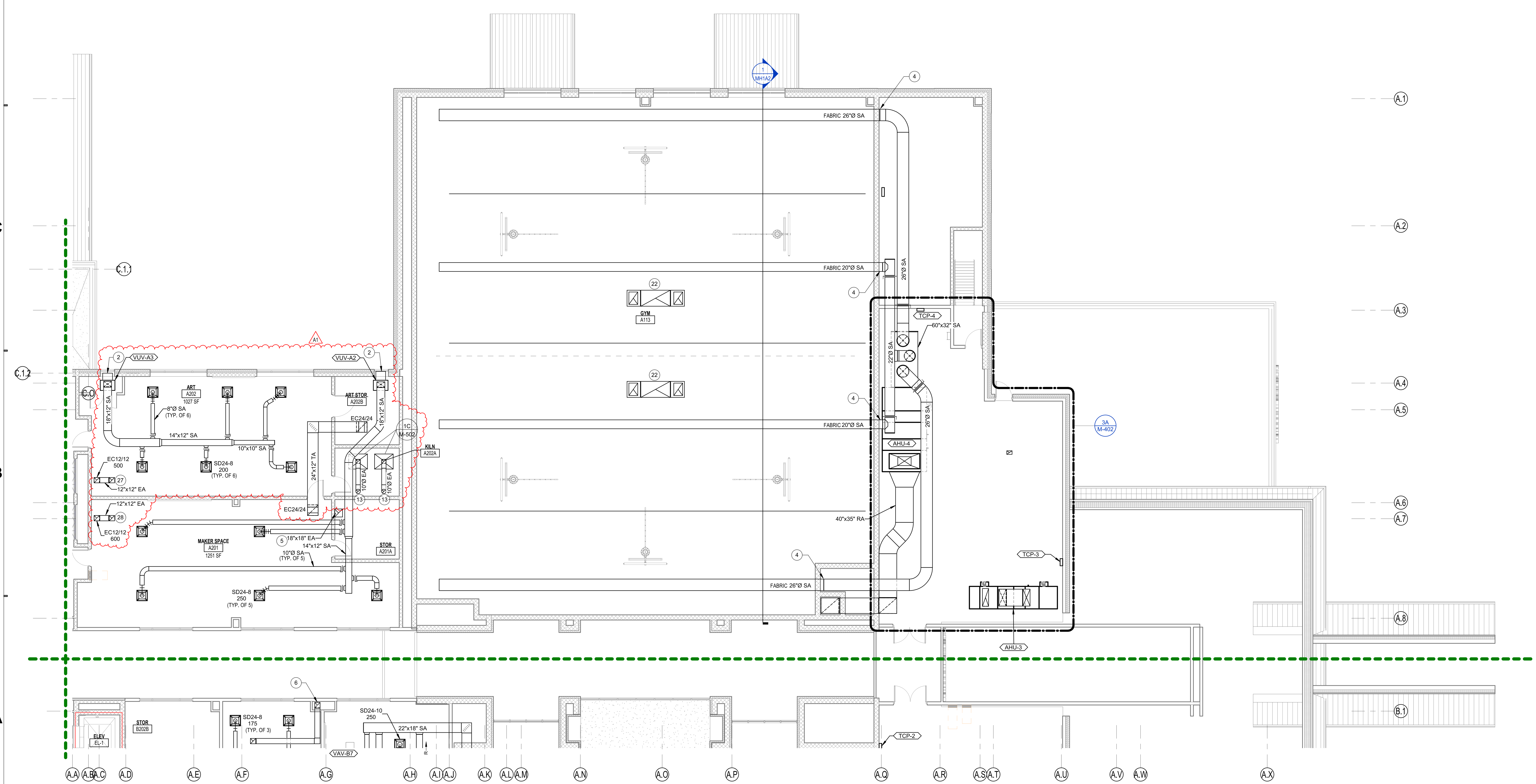
25	12"x50" RETURN DUCT UP TO RTU-1.
26	18"x32" SUPPLY DUCT UP TO RTU-1.
27	12"x12" EXHAUST DUCT UP TO EF-A5 ON ROOF. TRANSITION AS REQUIRED. FAN TO BE CONTROLLED BY TIMER SWITCH LOCATED NEXT TO TEMP SENSOR, PROVIDED BY TCC.
28	12"x12" EXHAUST DUCT UP TO EF-A6 ON ROOF. TRANSITION AS REQUIRED.FAN TO BE CONTROLLED BY TIMER SWITCH LOCATED NEXT TO TEMP SENSOR, PROVIDED BY TCC.



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

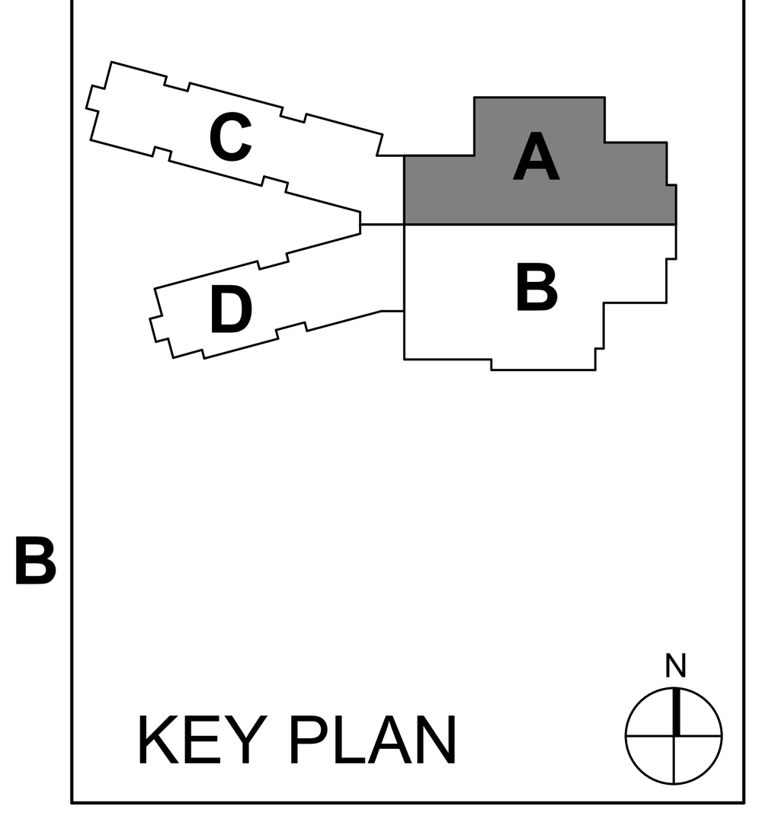
SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-141.NES
Project Date 05.11.2022
Produced

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

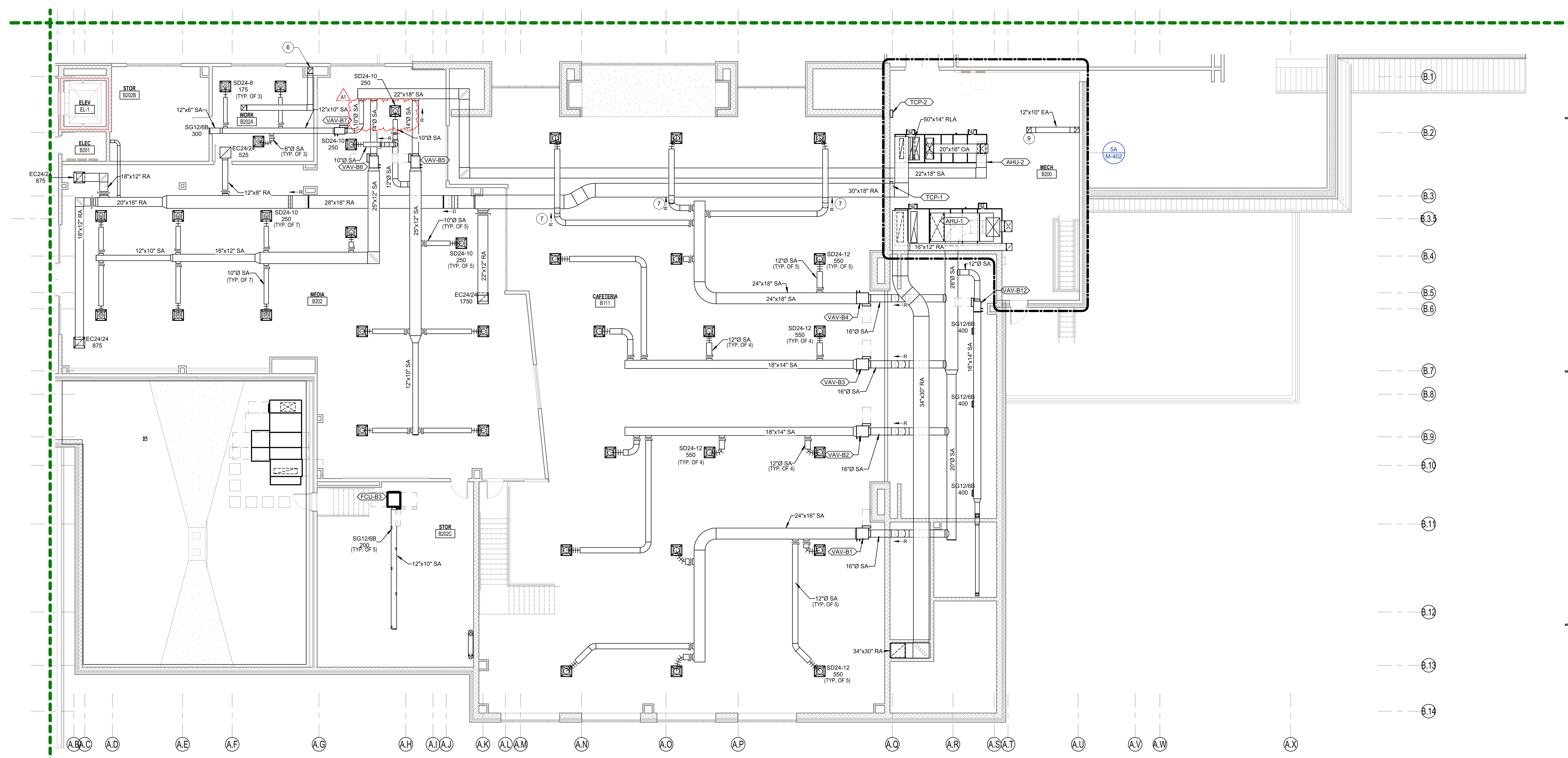
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR HVAC PLAN - UNIT A

MH1A2



1 SECOND FLOOR - HVAC PLAN - UNIT B

1/8" = 1'-0"

MECHANICAL HVAC PLAN NOTES

#	NOTE
1	6" ROUND EXHAUST UP.
2	CUT-OUT OPENING IN LOUVER BACKER PANEL FOR REAR PLENUM ASSEMBLY. SEE M-504 FOR SIZE OF CUT-OUT, SEAL WEATHER TIGHT AROUND PLENUM ASSEMBLY AND BACKER PANEL.
3	MOUNT 8" AFF. HEATER TO BE RECESSED IN WALL UNLESS CMU. SEE ARCHITECTURAL PLANS FOR DETAILS.
4	TRANSITION TO FABRIC DUCT. SEE DETAIL ON M-504.
5	18"x18" EXHAUST DUCT UP TO EF-A2 ON ROOF. TRANSITION AS REQUIRED.
6	12"x12" EXHAUST DUCT UP TO EF-B2 ON ROOF. TRANSITION AS REQUIRED.
7	ROUTE DUCT UP AND OVER DUCT AND THROUGH STRUCTURAL TRUSS.
8	MOUNT DRYER BOOSTER FAN NO FURTHER THAN 8'-0" FROM DRYER CONNECTION. LED NOTIFICATION WALL PLATE TO BE MOUNTED ABOVE DRYER, NEXT TO TJERNLUND MODEL LT4 SECONDARY LINT TRAP AND BE VISIBLE TO USERS.
9	12"x10" EXHAUST UP TO EF-B1 ON ROOF. TRANSITION AS REQUIRED.
10	24"x16" SUPPLY AND 16"x12" RETURN DUCT UP TO AHU-1 ON MEZZANINE.
11	12"x8" EXHAUST DUCT UP TO EF-A1 ON ROOF. TRANSITION AS REQUIRED.
12	35"x40" RETURN DUCT UP.
13	10" DUCT UP TO EF-A3/EF-A4 ON ROOF. TRANSITION AS REQUIRED.
14	12"x12" EXHAUST DUCT UP TO EF-C1 ON ROOF. TRANSITION AS REQUIRED.
15	12"x12" EXHAUST DUCT UP TO EF-C2 ON ROOF. TRANSITION AS REQUIRED.
16	14"x14" EXHAUST DUCT UP TO EF-C3 ON ROOF. TRANSITION AS REQUIRED.
17	12"x12" EXHAUST DUCT UP TO EF-C4 ON ROOF. TRANSITION AS REQUIRED.
18	12"x12" EXHAUST DUCT UP TO EF-C5 ON ROOF. TRANSITION AS REQUIRED.
19	INSTALL TEE AND TURN DOWN 45° FOR BOILER EXHAUST FLUE. INSTALL METAL MESH SCREEN. AC29-4C FLUE MATERIAL.
20	INSTALL TEE AND TURN DOWN 45° FOR BOILER COMBUSTION AIR. INSTALL METAL MESH SCREEN. SCH. 40 PVC MATERIAL.
21	BOTTOM OF GRILLE TO BE 0'-8" AFF.
22	66"x36" UP TO GV-1 ON ROOF. HORIZONTAL DUCT STUB SHALL BE 36"x20" WITH TWO 28"x20" OPENINGS CUT OUT ON TOP OF THE DUCT. COVER OPENINGS WITH 1/2" GALVENIZED MESH. EXPOSED DUCT SHALL HAVE PAINT GRIP FINISH PAINT COLOR TO BE DETERMINED BY ARCHITECT.
23	BOTTOM OF GRILL TO BE 0'-8" AFF.
24	8"x8" EXHAUST DUCT UP TO EF-B3.TRANSITION AS REQUIRED.
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26	18"x32" SUPPLY DUCT UP TO RTU-1.
27	12"x12" EXHAUST DUCT UP TO EF-A5 ON ROOF. TRANSITION AS REQUIRED. FAN TO BE CONTROLLED BY TIMER SWITCH LOCATED NEXT TO TEMP SENSOR, PROVIDED BY TCC.
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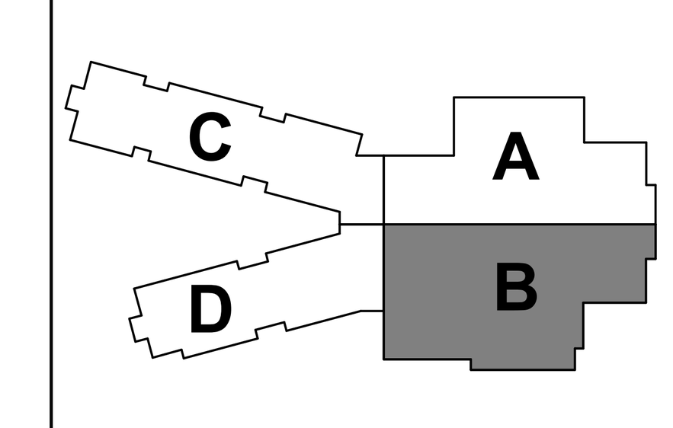
#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR HVAC PLAN - UNIT B

MH1B2

MECHANICAL HVAC PLAN NOTES

#	NOTE
1	6" ROUND EXHAUST UP.
2	CUT-OUT OPENING IN LOUVER BACKER PANEL FOR REAR PLENUM ASSEMBLY. SEE M-504 FOR SIZE OF CUT-OUT, SEAL WEATHER TIGHT AROUND PLENUM ASSEMBLY AND BACKER PANEL.
3	MOUNT 8" AFF. HEATER TO BE RECESSED IN WALL UNLESS CMU. SEE ARCHITECTURAL PLANS FOR DETAILS.
4	TRANSITION TO FABRIC DUCT. SEE DETAIL ON M-504.
5	18"x18" EXHAUST DUCT UP TO EF-A2 ON ROOF. TRANSITION AS REQUIRED.
6	12"x12" EXHAUST DUCT UP TO EF-B2 ON ROOF. TRANSITION AS REQUIRED.
7	ROUTE DUCT UP AND OVER DUCT AND THROUGH STRUCTURAL TRUSS.
8	MOUNT DRYER BOOSTER FAN NO FURTHER THAN 8'-0" FROM DRYER CONNECTION. LED NOTIFICATION WALL PLATE TO BE MOUNTED ABOVE DRYER, NEXT TO TJERNLUND MODEL LT4 SECONDARY LINT TRAP AND BE VISIBLE TO USERS.
9	12"x10" EXHAUST UP TO EF-B1 ON ROOF. TRANSITION AS REQUIRED.
10	24"x16" SUPPLY AND 16"x12" RETURN DUCT UP TO AHU-1 ON MEZZANINE.
11	12"x8" EXHAUST DUCT UP TO EF-A1 ON ROOF. TRANSITION AS REQUIRED.
12	35"x40" RETURN DUCT UP.
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17	12"x12" EXHAUST DUCT UP TO EF-C4 ON ROOF. TRANSITION AS REQUIRED.
18	12"x12" EXHAUST DUCT UP TO EF-C5 ON ROOF. TRANSITION AS REQUIRED.
19	INSTALL TEE AND TURN DOWN 45° FOR BOILER EXHAUST FLUE. INSTALL METAL MESH SCREEN. AC29-4C FLUE MATERIAL.
20	INSTALL TEE AND TURN DOWN 45° FOR BOILER COMBUSTION AIR. INSTALL METAL MESH SCREEN. SCH. 40 PVC MATERIAL.
21	BOTTOM OF GRILLE TO BE 0'-8" AFF.
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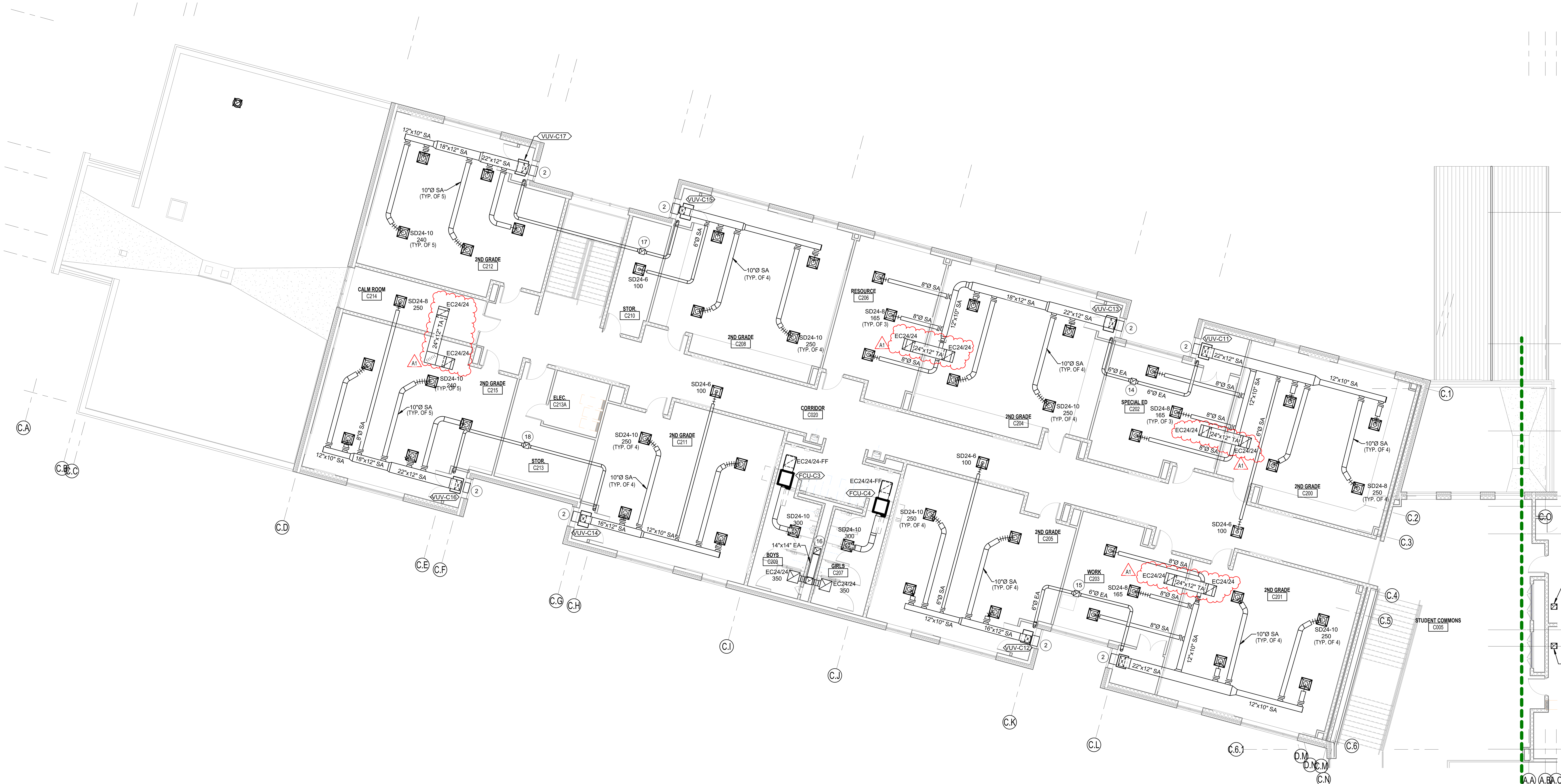

1 SECOND FLOOR - HVAC PLAN - UNIT C
1/8" = 1'-0"

SCHMIDT ASSOCIATES
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Project Date 05.11.2022
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REGISTERED
NO. AR10400134
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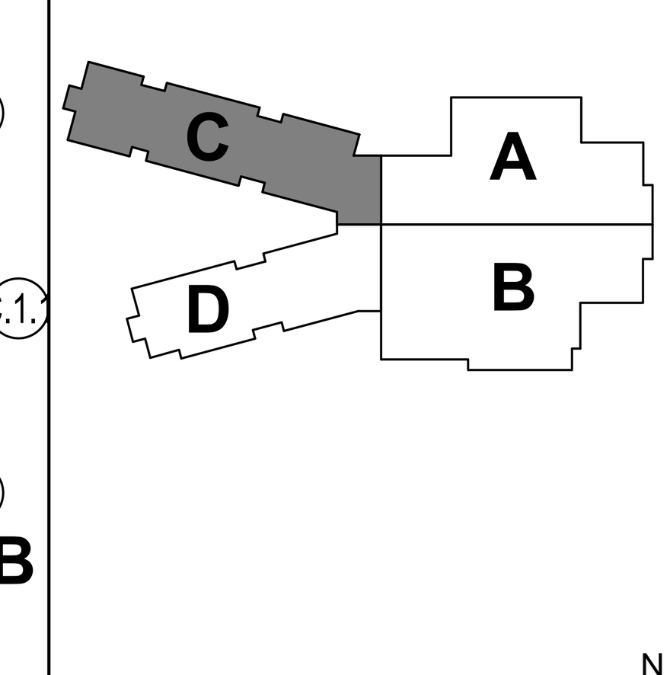
ARCHITECT

#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR HVAC PLAN - UNIT C

MH1C2

MECHANICAL HVAC PLAN NOTES

#	NOTE
1	6" ROUND EXHAUST UP.
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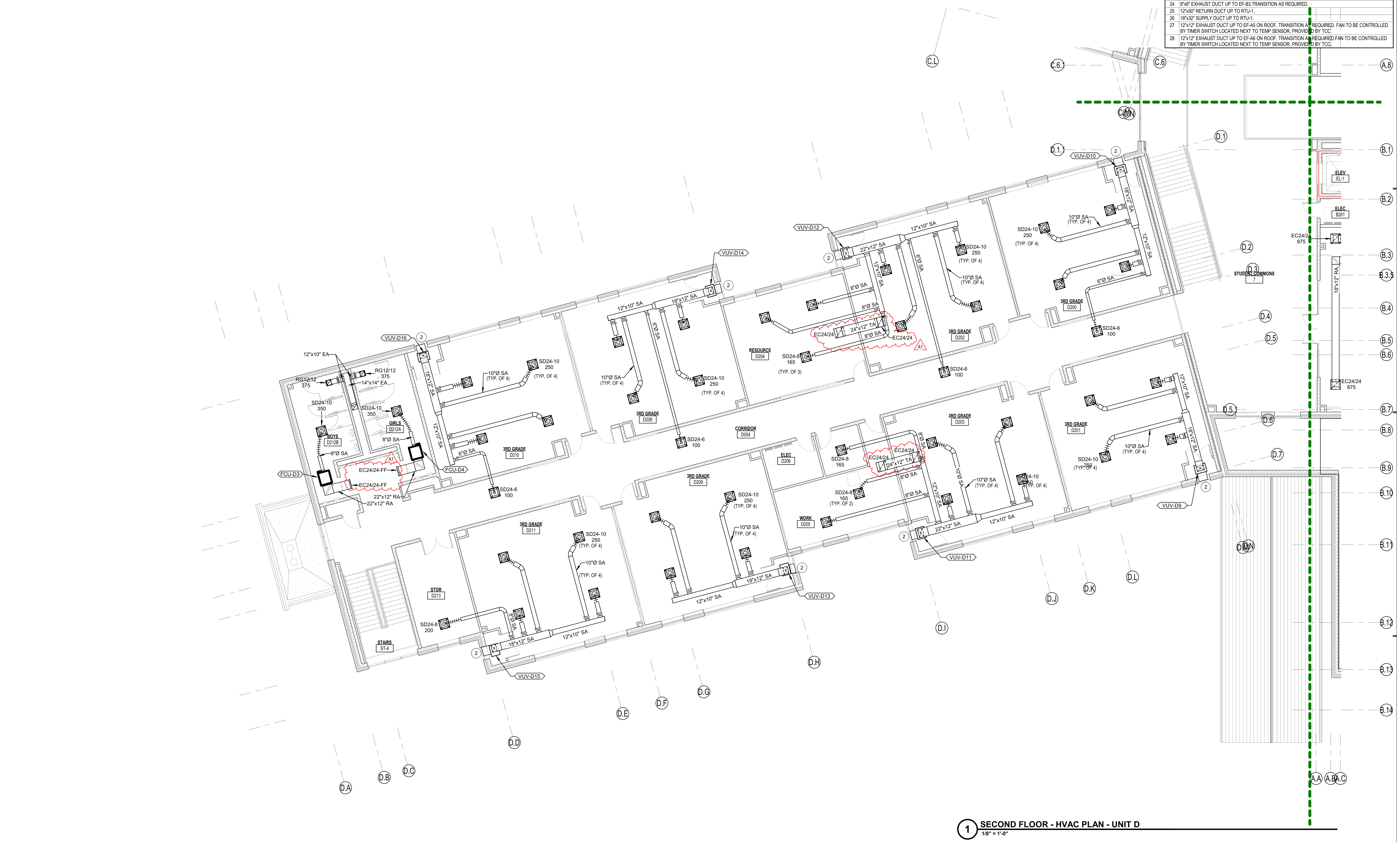

1 SECOND FLOOR - HVAC PLAN - UNIT D
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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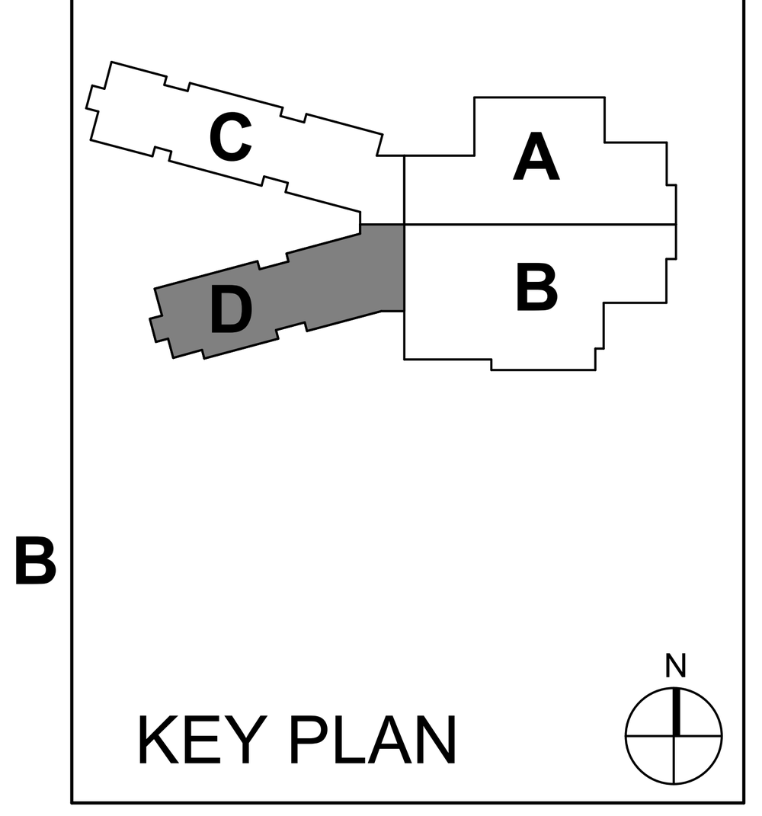
SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

SECOND FLOOR HVAC PLAN - UNIT D

MH1D2

GENERAL PIPING NOTES

A. ALL THERMOSTATS TO BE NON-DISPLAY SLIDER TYPE.

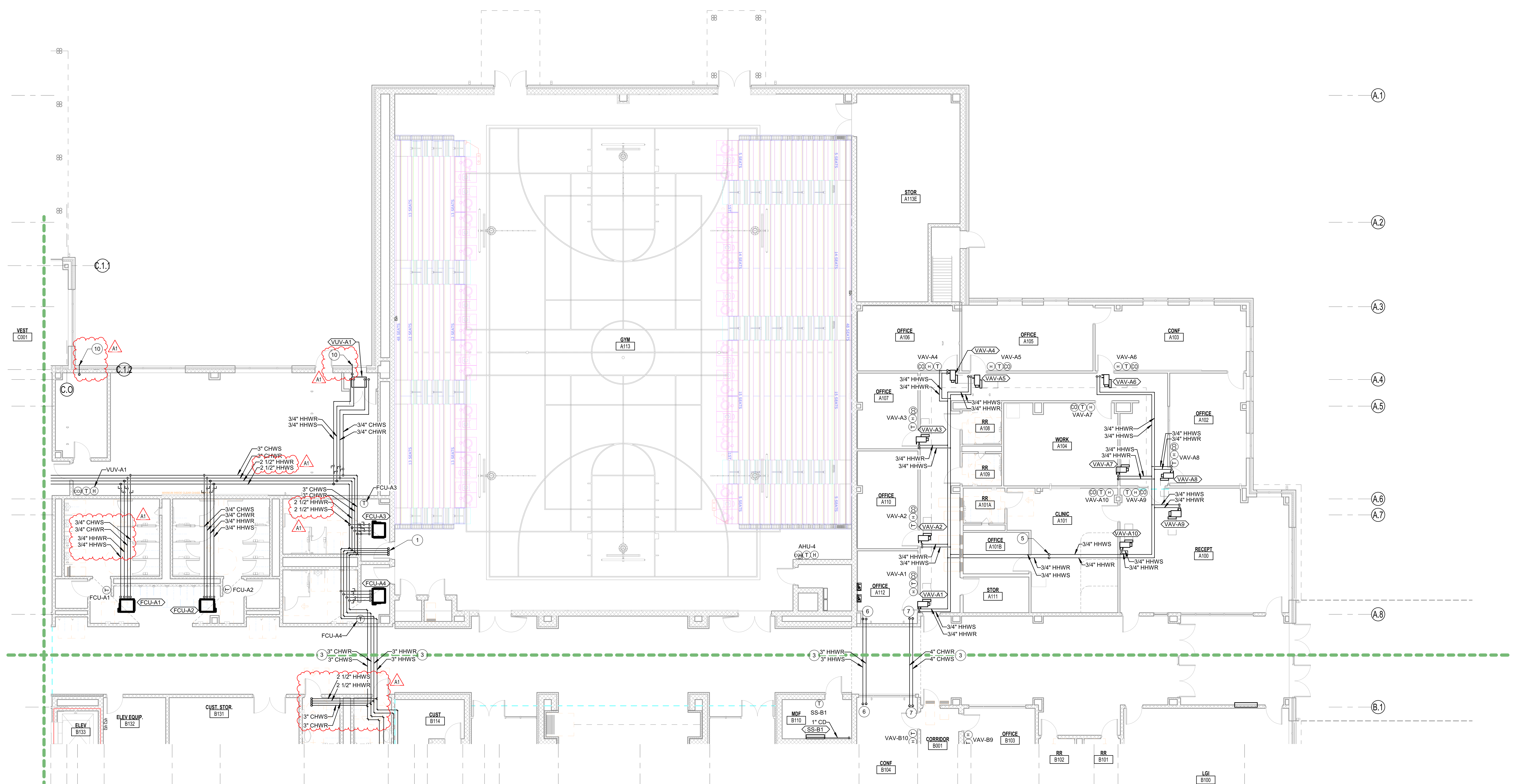
B. ALL VALVES ON PIPING OVER 2 1/2" SHALL BE GATE VALVES.

C. PROVIDE SHUTOFF VALVES AT EVERY BRANCH CONNECTION TO A MAIN.

D. PROVIDE LABELS ON CEILING GRID AT LOCATION OF ALL MECHANICAL EQUIPMENT AND VALVES THAT ARE LOCATED ABOVE CEILING TILES.

MECHANICAL PIPING PLAN NOTES

#	NOTE
1	3" CHWS & CHWR, 2-1/2" HHWS & HHWR UP TO SECOND FLOOR.
2	2-1/2" CHWS & CHWR, 1-1/2" HHWS & HHWR UP TO RTU-1 ON ROOF.
3	PIPING TO BE ROUTED INSIDE PIPE BRIDGE.
4	THERMOSTAT TO CONTROL SERVING AREA MECHANICAL DAMPER. SEE CONTROL DRAWINGS FOR DETAILS.
5	1" HHWS & HHWR UP TO MEZZANINE ABOVE.
6	3" HHWS & HHWR UP TO MEZZANINE ABOVE.
7	4" CHWS & CHWR UP TO MEZZANINE ABOVE.
8	1" CONDENSATE DOWN TO MOP BASIN.
9	1" CONDENSATE DOWN.
10	1" CONDENSATE COPPER, ROUTE OUTSIDE OF BUILDING TO DRAIN TO MOW STRIP.
11	1" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK ON ROOF.
12	3/4" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK.



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

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5120 SENOUR ROAD
INDIANAPOLIS, IN 46239

KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR PIPING PLAN - AREA A

MP1A1

GENERAL PIPING NOTES

A. ALL THERMOSTATS TO BE NON-DISPLAY SLIDER TYPE.

B. ALL VALVES ON PIPING OVER 2 1/2" SHALL BE GATE VALVES.

C. PROVIDE SHUTOFF VALVES AT EVERY BRANCH CONNECTION TO A MAIN.

D. PROVIDE LABELS ON CEILING GRID AT LOCATION OF ALL MECHANICAL EQUIPMENT AND VALVES THAT ARE LOCATED ABOVE CEILING TILES.

MECHANICAL PIPING PLAN NOTES

#	NOTE
1	3" CHWS & CHWR, 2-1/2" HHWS & HHWR UP TO SECOND FLOOR.
2	2-1/2" CHWS & CHWR, 1-1/2" HHWS & HHWR UP TO RTU-1 ON ROOF.
3	PIPING TO BE ROUTED INSIDE PIPE BRIDGE.
4	THERMOSTAT TO CONTROL SERVING AREA MECHANICAL DAMPER. SEE CONTROL DRAWINGS FOR DETAILS.
5	1" HHWS & HHWR UP TO MEZZANINE ABOVE.
6	3" HHWS & HHWR UP TO MEZZANINE ABOVE.
7	4" CHWS & CHWR UP TO MEZZANINE ABOVE.
8	1" CONDENSATE DOWN TO MOP BASIN.
9	1" CONDENSATE DOWN.
10	1" CONDENSATE COPPER, ROUTE OUTSIDE OF BUILDING TO DRAIN TO MOW STRIP.
11	1" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK ON ROOF.
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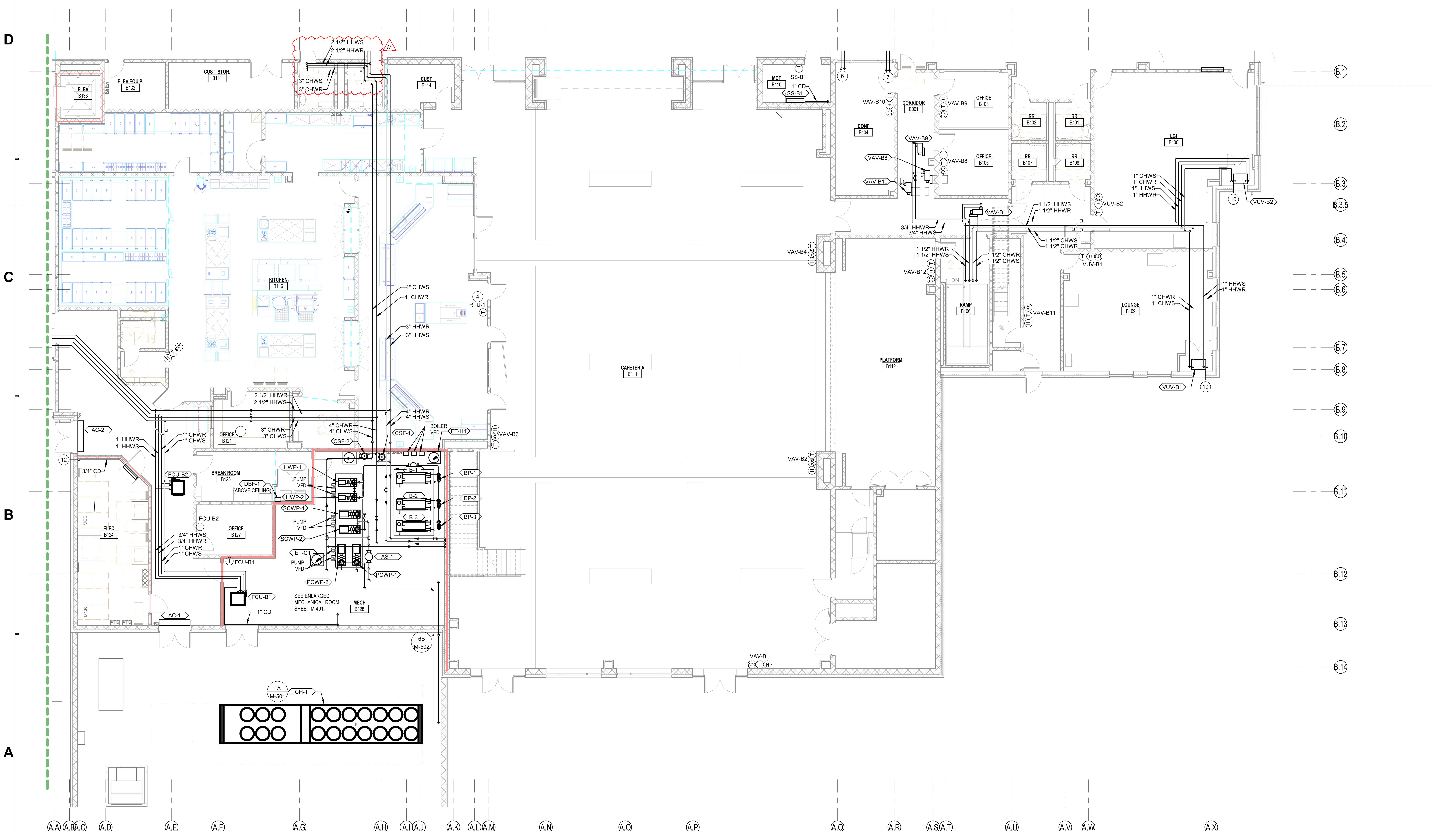

1 FIRST FLOOR - PIPING PLAN - UNIT B
1/8" = 1'-0"

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KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR PIPING PLAN - AREA B

MP1B1

GENERAL PIPING NOTES

A. ALL THERMOSTATS TO BE NON-DISPLAY SLIDER TYPE.

B. ALL VALVES ON PIPING OVER 2 1/2" SHALL BE GATE VALVES.

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MECHANICAL PIPING PLAN NOTES

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1	3" CHWS & CHWR, 2-1/2" HHWS & HHWR UP TO SECOND FLOOR.
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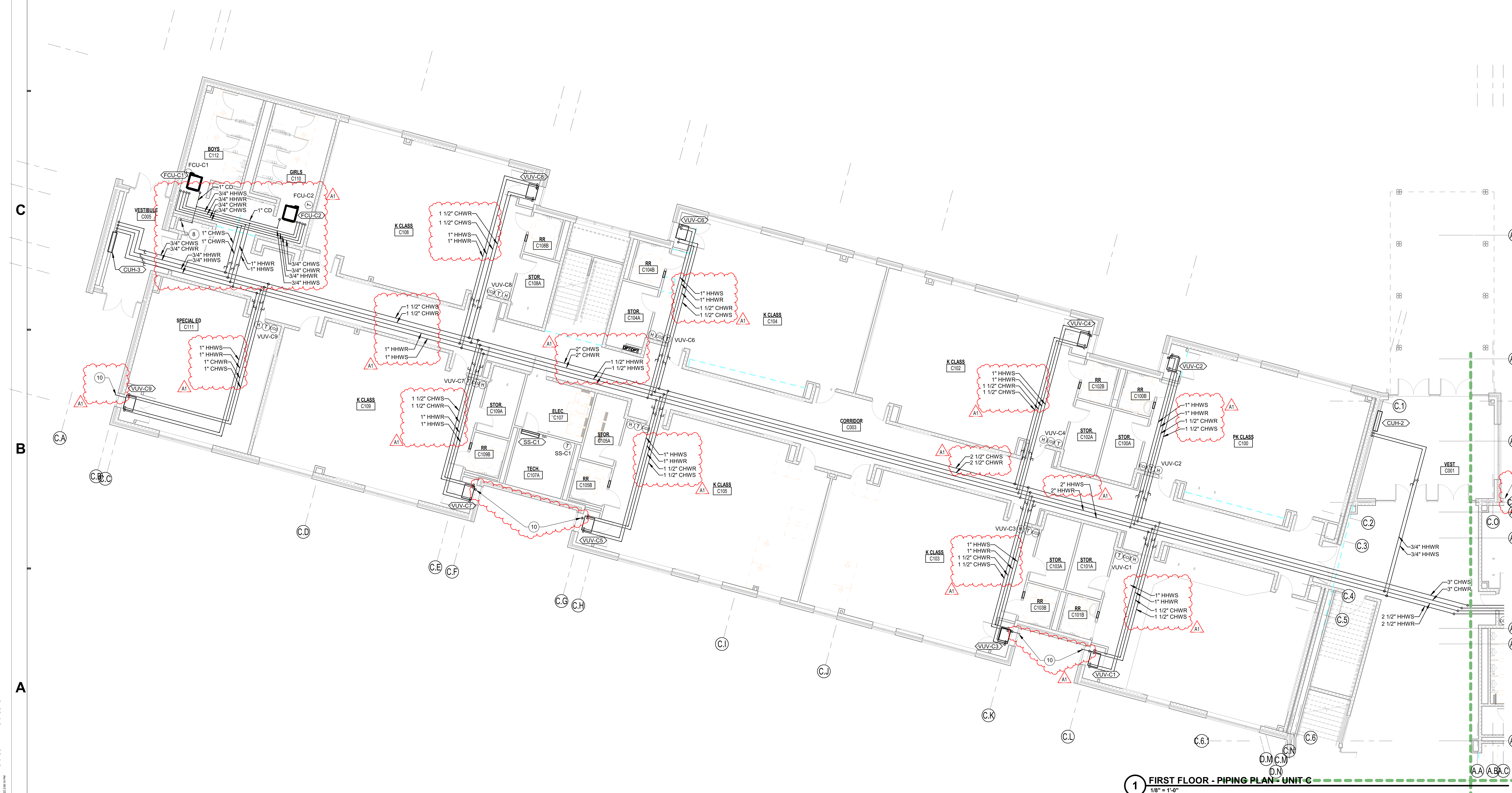

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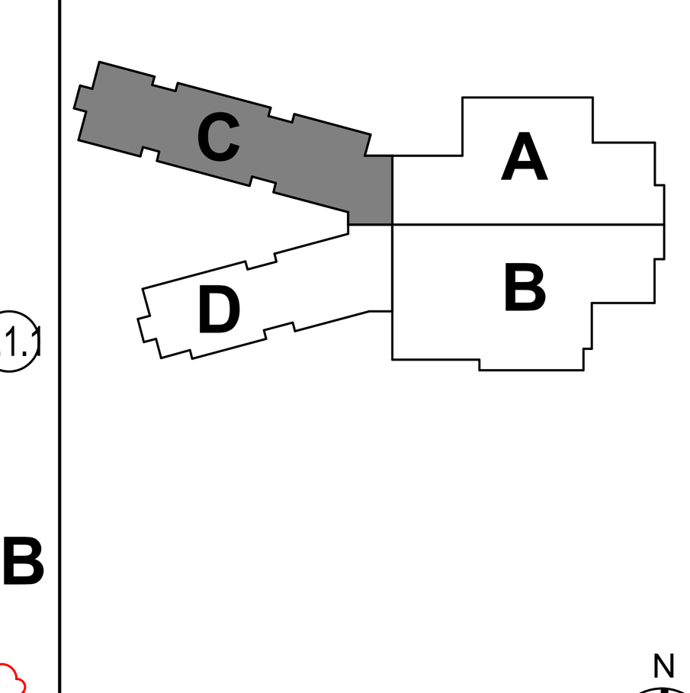

KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

FIRST FLOOR PIPING PLAN - AREA C

MP1C1

GENERAL PIPING NOTES

A. ALL THERMOSTATS TO BE NON-DISPLAY SLIDER TYPE.

B. ALL VALVES ON PIPING OVER 2 1/2" SHALL BE GATE VALVES.

C. PROVIDE SHUTOFF VALVES AT EVERY BRANCH CONNECTION TO A MAIN.

D. PROVIDE LABELS ON CEILING GRID AT LOCATION OF ALL MECHANICAL EQUIPMENT AND VALVES THAT ARE LOCATED ABOVE CEILING TILES.

MECHANICAL PIPING PLAN NOTES

#	NOTE
1	3" CHWS & CHWR, 2-1/2" HHWS & HHWR UP TO SECOND FLOOR.
2	2-1/2" CHWS & CHWR, 1-1/2" HHWS & HHWR UP TO RTU-1 ON ROOF.
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11	1" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK ON ROOF.
12	3/4" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK.

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

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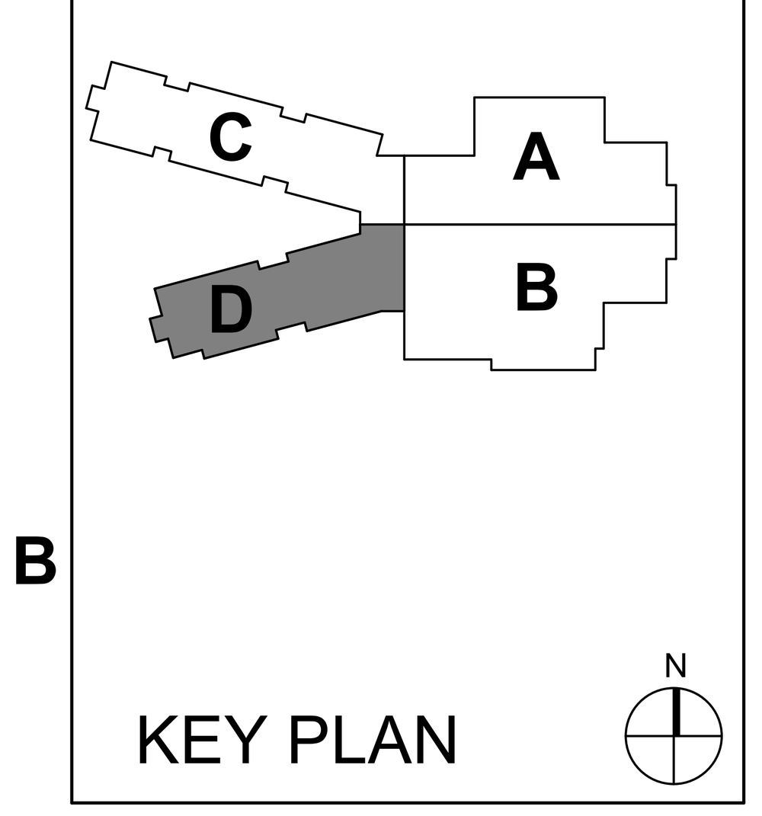


KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR PIPING PLAN - AREA D

MP1D1

GENERAL PIPING NOTES

A. ALL THERMOSTATS TO BE NON-DISPLAY SLIDER TYPE.

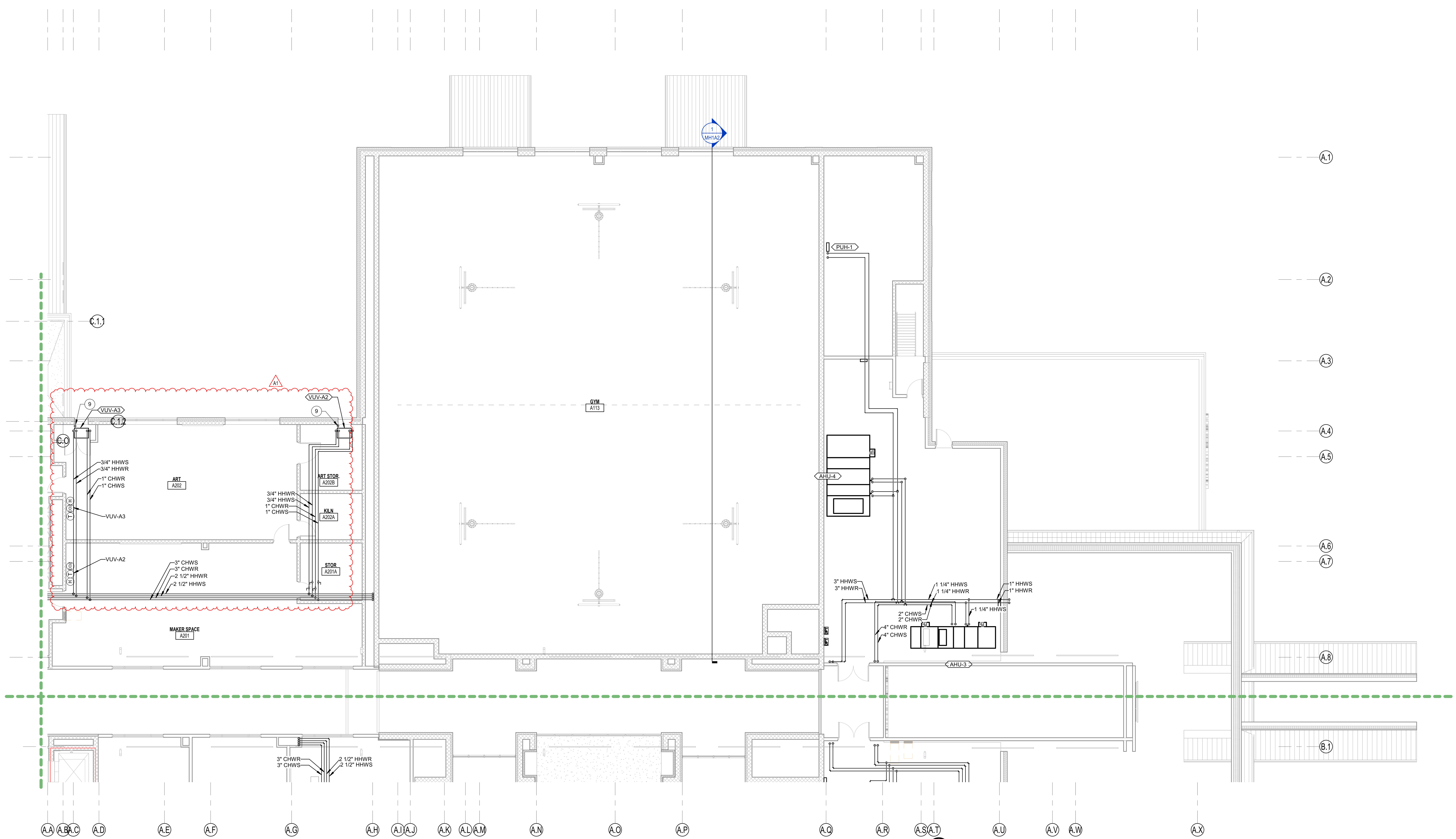
B. ALL VALVES ON PIPING OVER 2 1/2" SHALL BE GATE VALVES.

C. PROVIDE SHUTOFF VALVES AT EVERY BRANCH CONNECTION TO A MAIN.

D. PROVIDE LABELS ON CEILING GRID AT LOCATION OF ALL MECHANICAL EQUIPMENT AND VALVES THAT ARE LOCATED ABOVE CEILING TILES.

MECHANICAL PIPING PLAN NOTES

#	NOTE
1	3" CHWS & CHWR, 2-1/2" HHWS & HHWR UP TO SECOND FLOOR.
2	2-1/2" CHWS & CHWR, 1-1/2" HHWS & HHWR UP TO RTU-1 ON ROOF.
3	PIPING TO BE ROUTED INSIDE PIPE BRIDGE.
4	THERMOSTAT TO CONTROL SERVING AREA MECHANICAL DAMPER. SEE CONTROL DRAWINGS FOR DETAILS.
5	1" HHWS & HHWR UP TO MEZZANINE ABOVE.
6	3" HHWS & HHWR UP TO MEZZANINE ABOVE.
7	4" CHWS & CHWR UP TO MEZZANINE ABOVE.
8	1" CONDENSATE DOWN TO MOP BASIN.
9	1" CONDENSATE DOWN.
10	1" CONDENSATE COPPER, ROUTE OUTSIDE OF BUILDING TO DRAIN TO MOW STRIP.
11	1" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK ON ROOF.
12	3/4" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK.



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

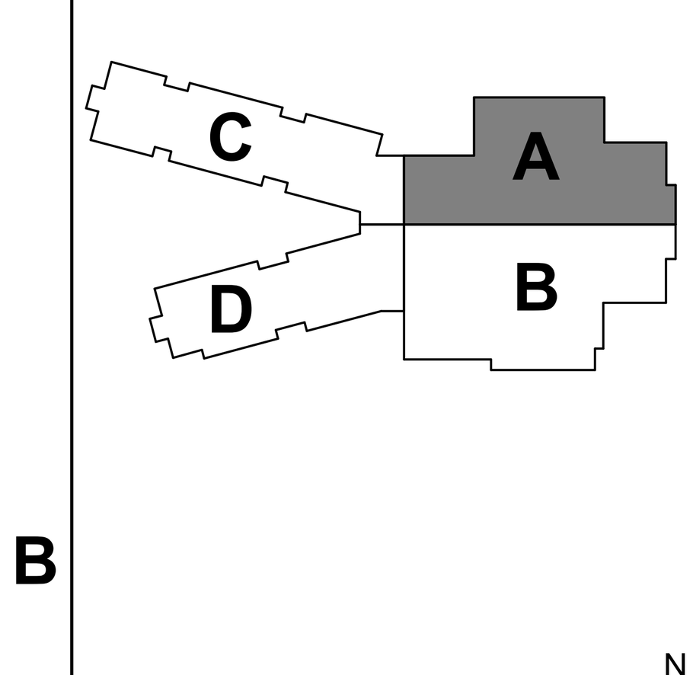
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-141.NES
Project Date 05.11.2022
Produced CSM

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR PIPING PLAN - AREA A

MP1A2

GENERAL PIPING NOTES

A. ALL THERMOSTATS TO BE NON-DISPLAY SLIDER TYPE.

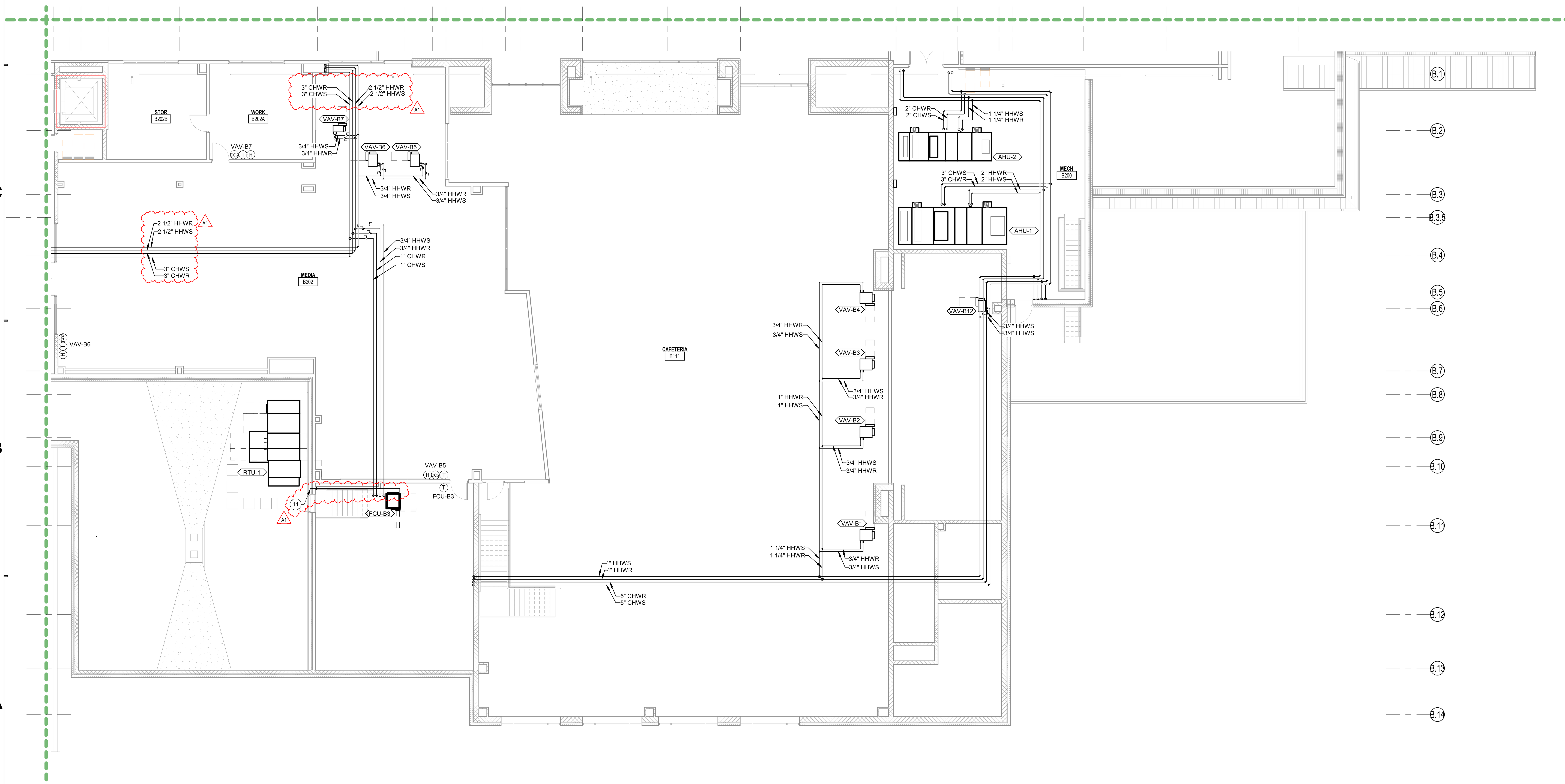
B. ALL VALVES ON PIPING OVER 2 1/2" SHALL BE GATE VALVES.

C. PROVIDE SHUTOFF VALVES AT EVERY BRANCH CONNECTION TO A MAIN.

D. PROVIDE LABELS ON CEILING GRID AT LOCATION OF ALL MECHANICAL EQUIPMENT AND VALVES THAT ARE LOCATED ABOVE CEILING TILES.

MECHANICAL PIPING PLAN NOTES

#	NOTE
1	3" CHWS & CHWR, 2-1/2" HHWS & HHWR UP TO SECOND FLOOR.
2	2-1/2" CHWS & CHWR, 1-1/2" HHWS & HHWR UP TO RTU-1 ON ROOF.
3	PIPING TO BE ROUTED INSIDE PIPE BRIDGE.
4	THERMOSTAT TO CONTROL SERVING AREA MECHANICAL DAMPER. SEE CONTROL DRAWINGS FOR DETAILS.
5	1" HHWS & HHWR UP TO MEZZANINE ABOVE.
6	3" HHWS & HHWR UP TO MEZZANINE ABOVE.
7	4" CHWS & CHWR UP TO MEZZANINE ABOVE.
8	1" CONDENSATE DOWN TO MOP BASIN.
9	1" CONDENSATE DOWN.
10	1" CONDENSATE COPPER, ROUTE OUTSIDE OF BUILDING TO DRAIN TO MOW STRIP.
11	1" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK ON ROOF.
12	3/4" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK.



1 SECOND FLOOR - PIPING PLAN UNIT B

1/8" = 1'-0"

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ARCHITECT

#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239

KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR PIPING PLAN - AREA B

MP1B2

GENERAL PIPING NOTES

A. ALL THERMOSTATS TO BE NON-DISPLAY SLIDER TYPE.

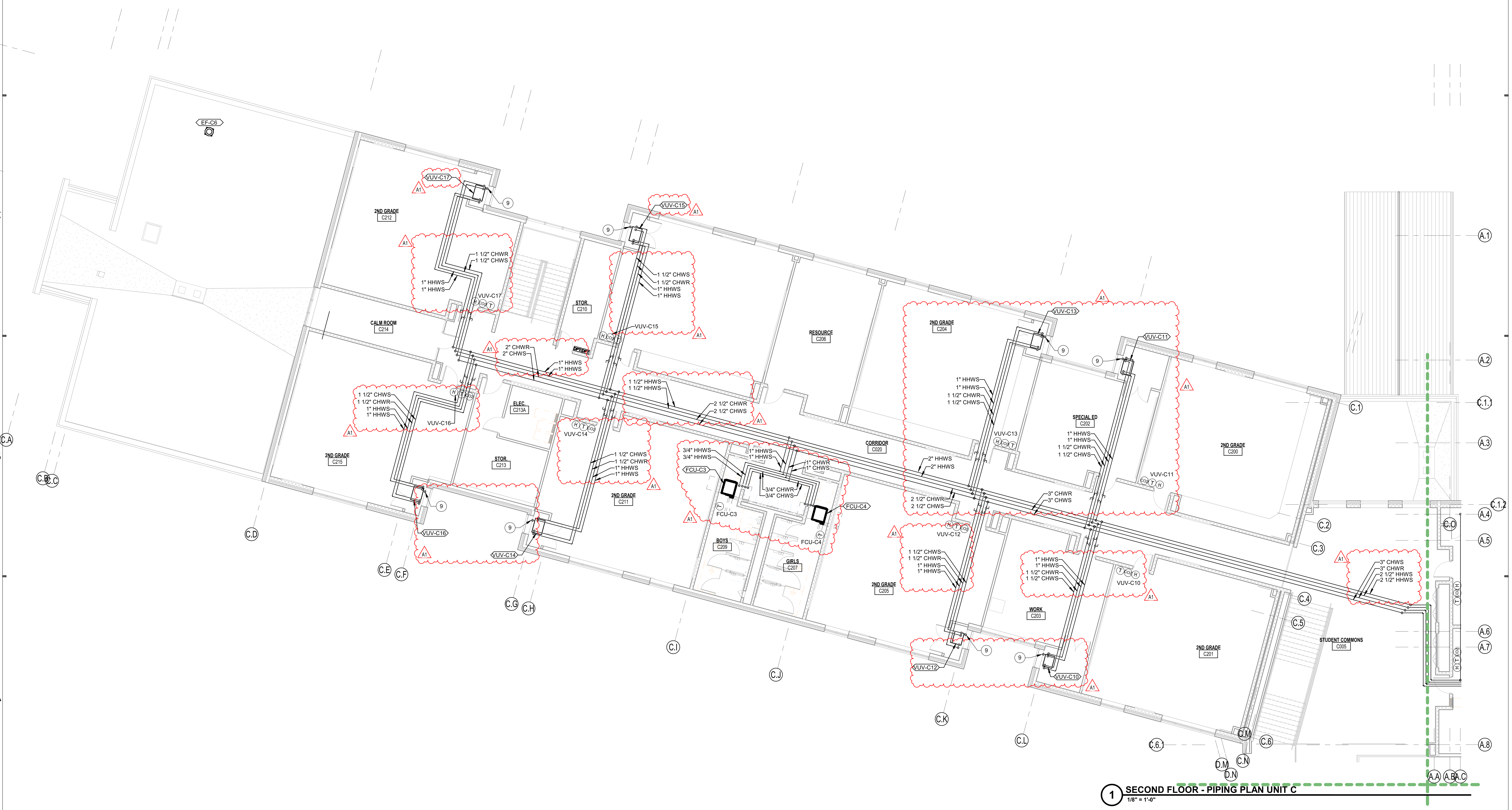
B. ALL VALVES ON PIPING OVER 2 1/2" SHALL BE GATE VALVES.

C. PROVIDE SHUTOFF VALVES AT EVERY BRANCH CONNECTION TO A MAIN.

D. PROVIDE LABELS ON CEILING GRID AT LOCATION OF ALL MECHANICAL EQUIPMENT AND VALVES THAT ARE LOCATED ABOVE CEILING TILES.

MECHANICAL PIPING PLAN NOTES

#	NOTE
1	3" CHWS & CHWR, 2-1/2" HHWS & HHWR UP TO SECOND FLOOR.
2	2-1/2" CHWS & CHWR, 1-1/2" HHWS & HHWR UP TO RTU-1 ON ROOF.
3	PIPING TO BE ROUTED INSIDE PIPE BRIDGE.
4	THERMOSTAT TO CONTROL SERVING AREA MECHANICAL DAMPER. SEE CONTROL DRAWINGS FOR DETAILS.
5	1" HHWS & HHWR UP TO MEZZANINE ABOVE.
6	3" HHWS & HHWR UP TO MEZZANINE ABOVE.
7	4" CHWS & CHWR UP TO MEZZANINE ABOVE.
8	1" CONDENSATE DOWN TO MOP BASIN.
9	1" CONDENSATE DOWN.
10	1" CONDENSATE COPPER, ROUTE OUTSIDE OF BUILDING TO DRAIN TO MOW STRIP.
11	1" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK ON ROOF.
12	3/4" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK.



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

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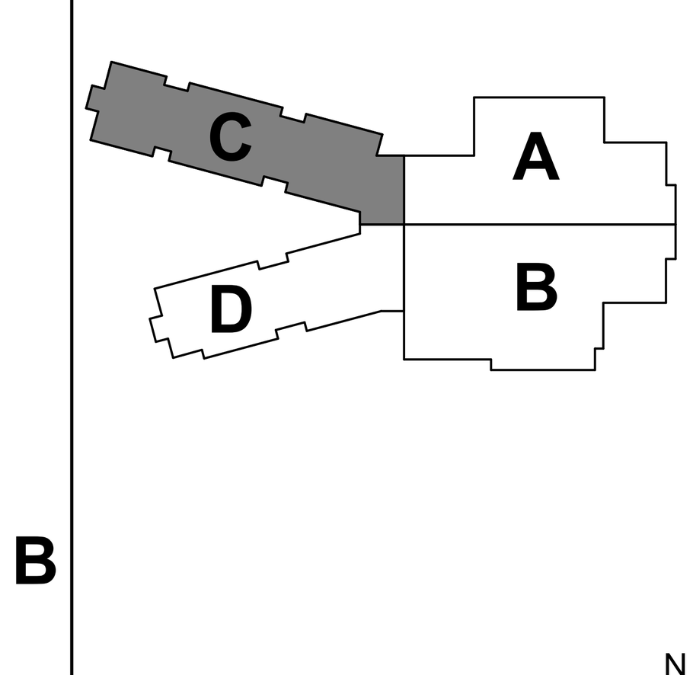


KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR PIPING PLAN - AREA C

MP1C2

GENERAL PIPING NOTES

A. ALL THERMOSTATS TO BE NON-DISPLAY SLIDER TYPE.

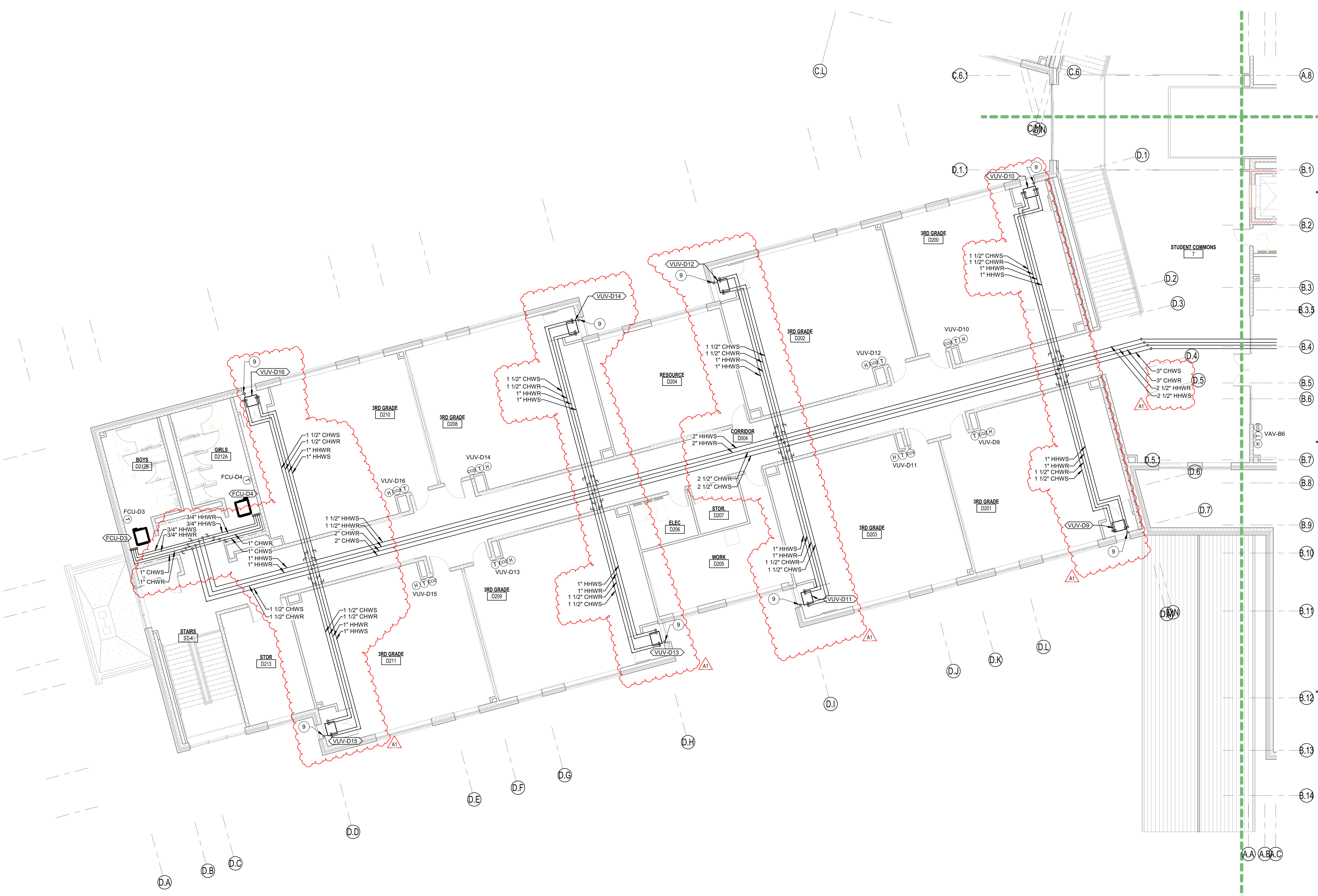
B. ALL VALVES ON PIPING OVER 2 1/2" SHALL BE GATE VALVES.

C. PROVIDE SHUTOFF VALVES AT EVERY BRANCH CONNECTION TO A MAIN.

D. PROVIDE LABELS ON CEILING GRID AT LOCATION OF ALL MECHANICAL EQUIPMENT AND VALVES THAT ARE LOCATED ABOVE CEILING TILES.

MECHANICAL PIPING PLAN NOTES

#	NOTE
1	3" CHWS & CHWR, 2-1/2" HHWS & HHWR UP TO SECOND FLOOR.
2	2-1/2" CHWS & CHWR, 1-1/2" HHWS & HHWR UP TO RTU-1 ON ROOF.
3	PIPING TO BE ROUTED INSIDE PIPE BRIDGE.
4	THERMOSTAT TO CONTROL SERVING AREA MECHANICAL DAMPER. SEE CONTROL DRAWINGS FOR DETAILS.
5	1" HHWS & HHWR UP TO MEZZANINE ABOVE.
6	3" HHWS & HHWR UP TO MEZZANINE ABOVE.
7	4" CHWS & CHWR UP TO MEZZANINE ABOVE.
8	1" CONDENSATE DOWN TO MOP BASIN.
9	1" CONDENSATE DOWN.
10	1" CONDENSATE COPPER, ROUTE OUTSIDE OF BUILDING TO DRAIN TO MOW STRIP.
11	1" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK ON ROOF.
12	3/4" CONDENSATE COPPER, ROUTE OUTSIDE TO SPLASHBLOCK.



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

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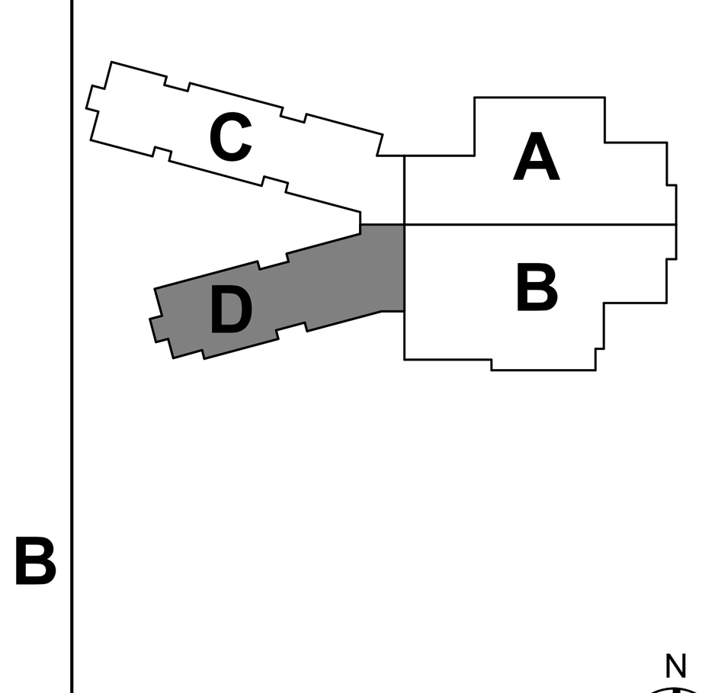
INDIANAPOLIS, IN 46239



KEY PLAN

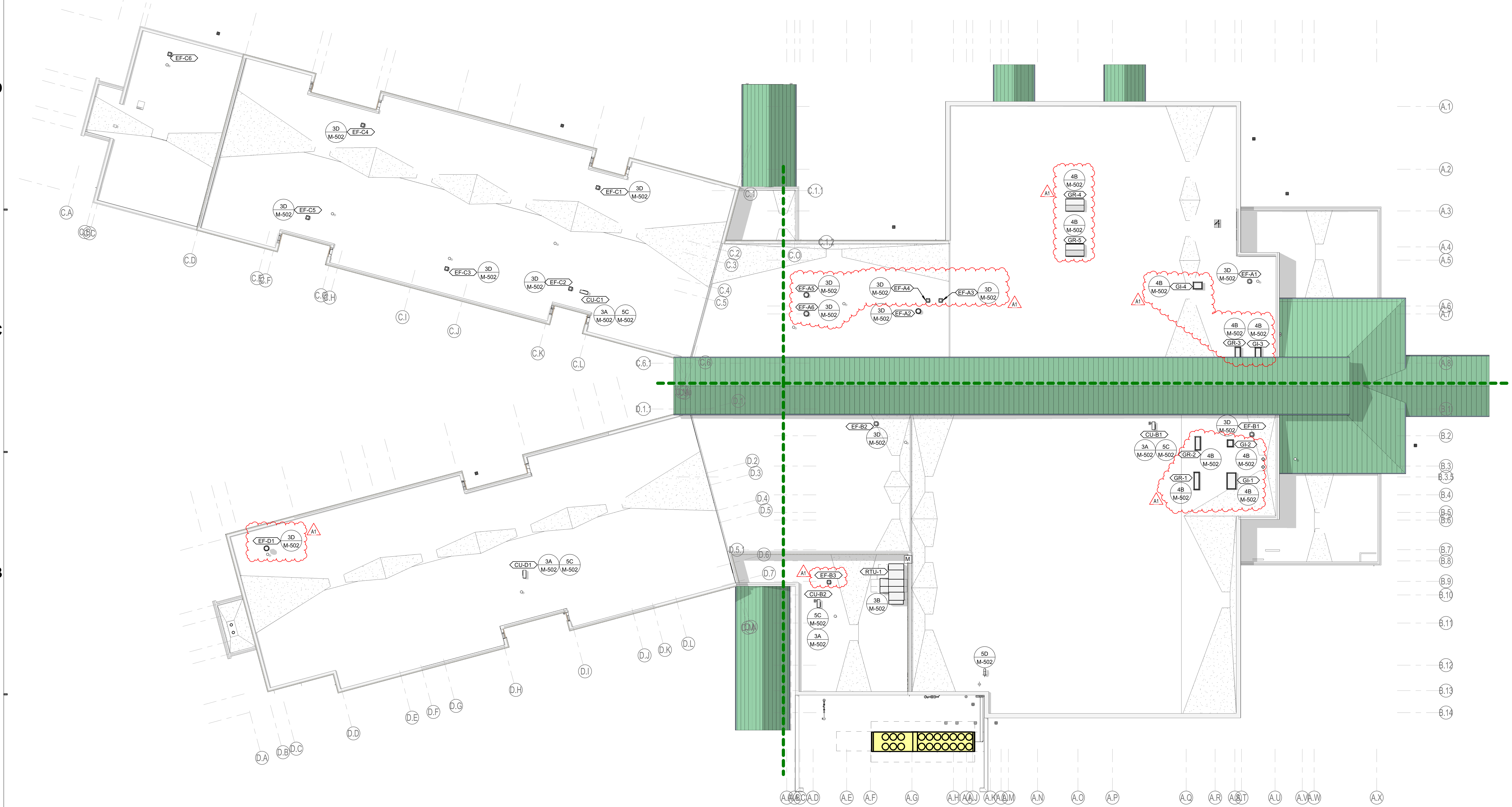
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR PIPING PLAN - AREA D

MP1D2



1 MECHANICAL HVAC ROOF PLAN
1/16" = 1'-0"

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ARCHITECT

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A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239

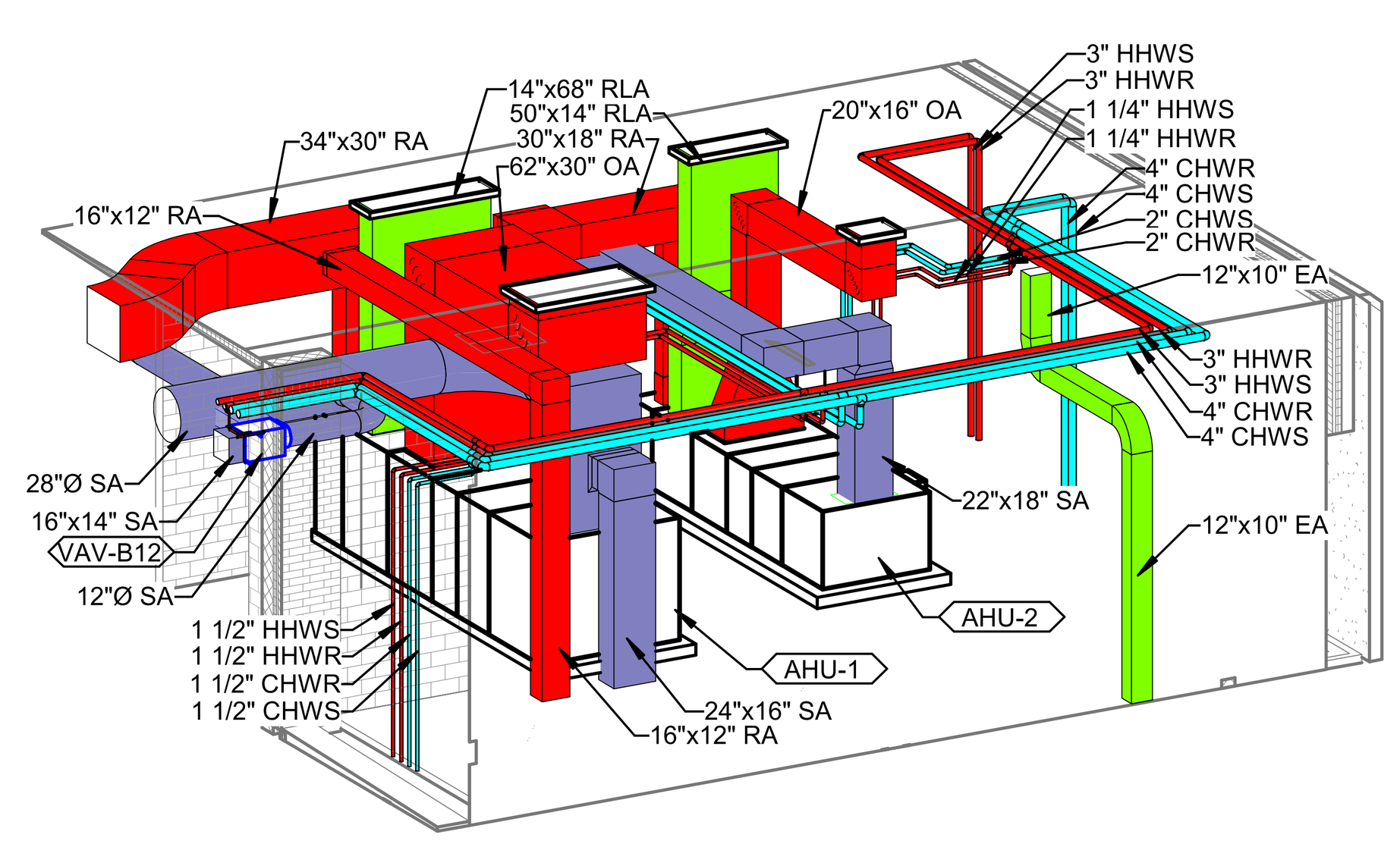
KEY PLAN

FRANKLIN TOWNSHIP CSC

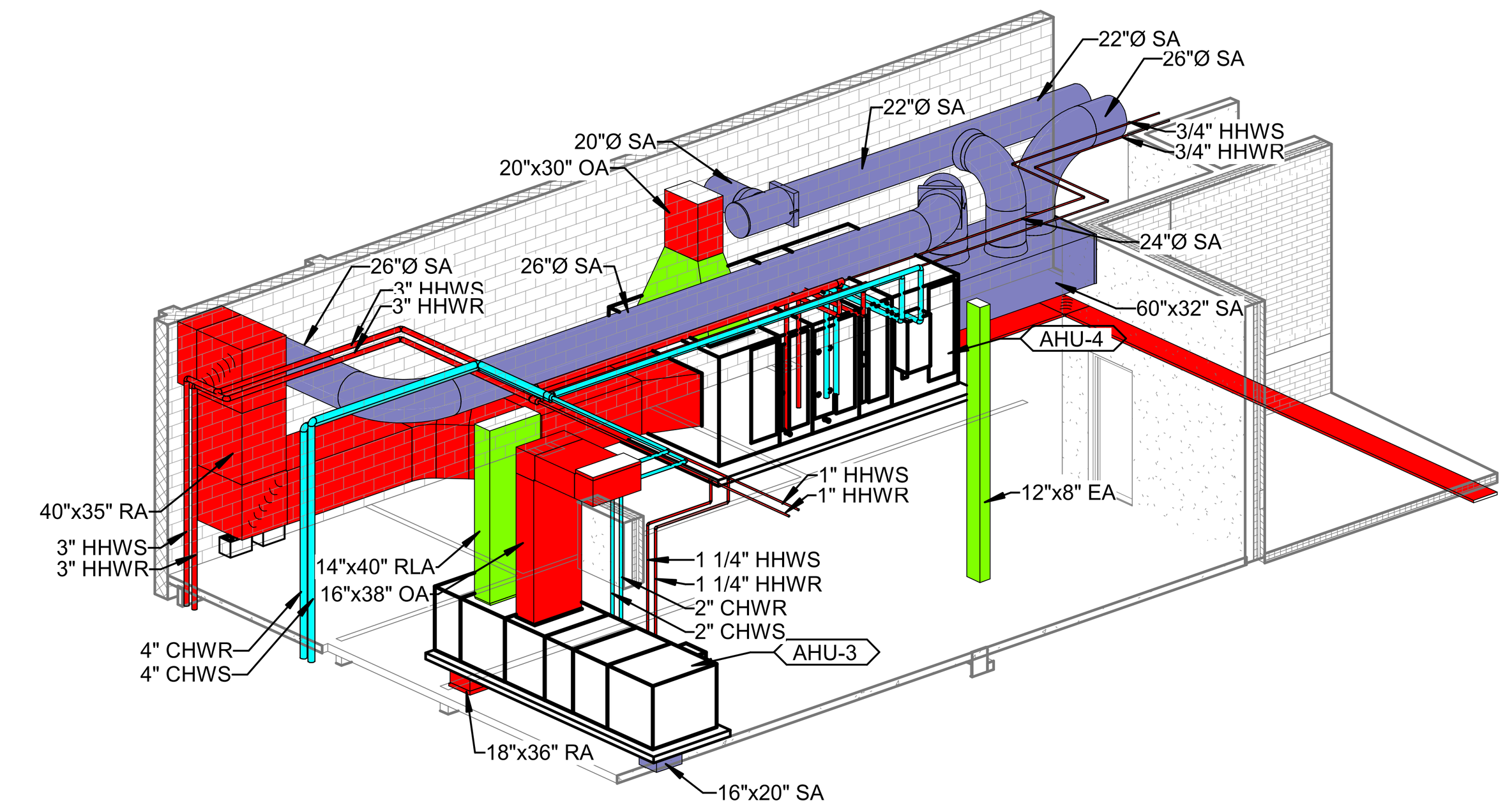
NEW ELEMENTARY SCHOOL

MECHANICAL ROOF PLAN

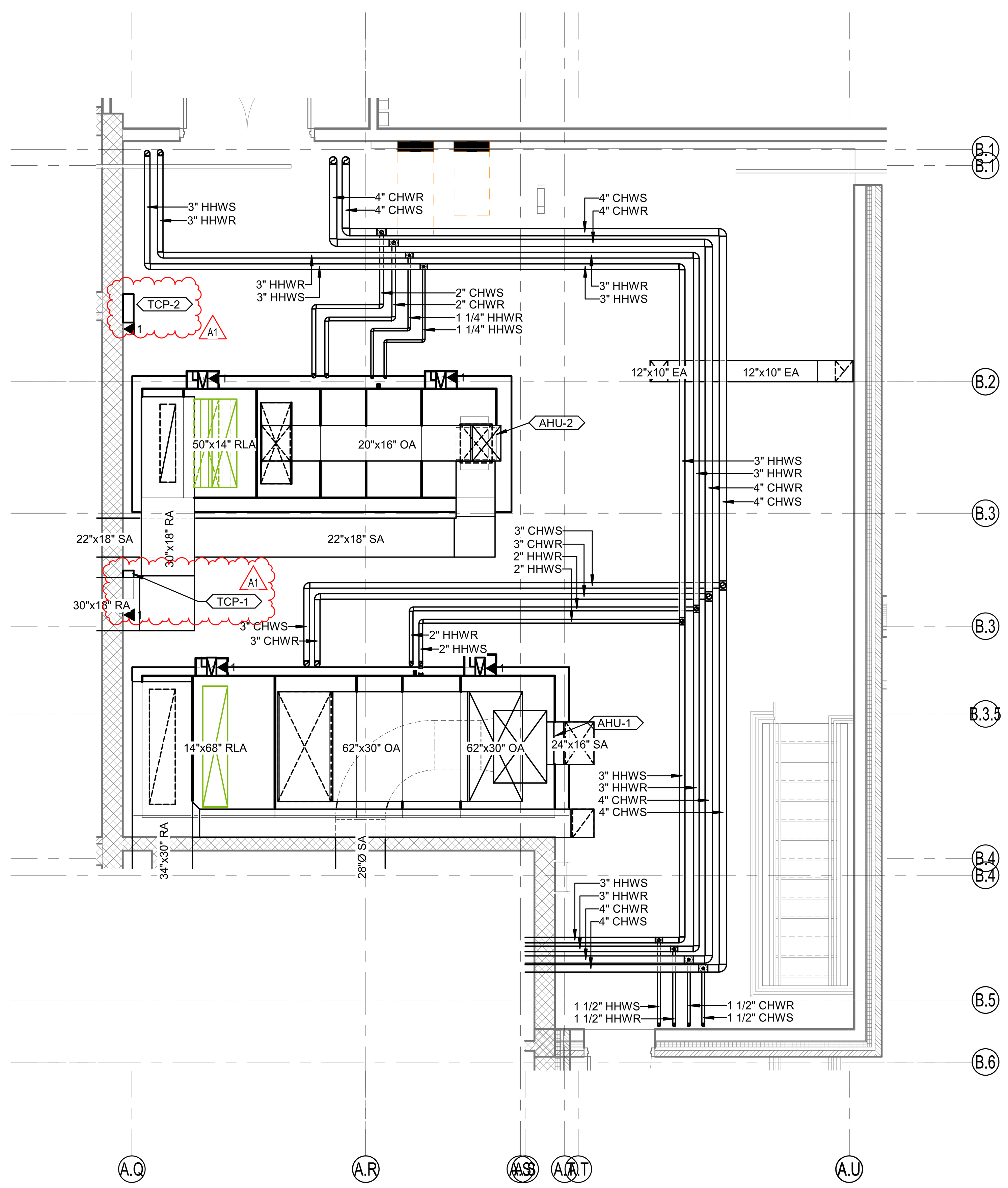
MR101



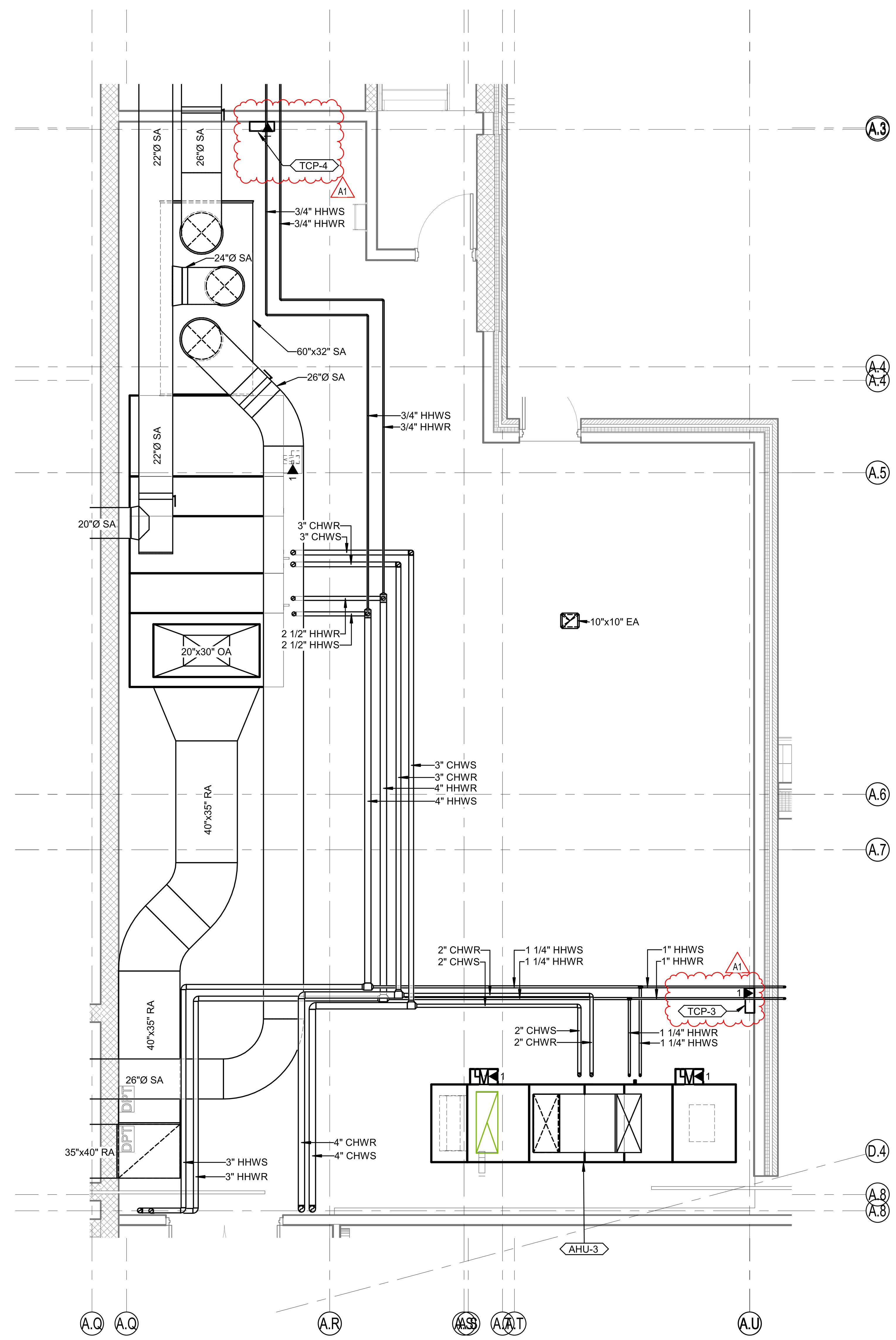
5D UNIT B MEZZANINE ISOMETRIC VIEW



3D UNIT A MEZZANINE ISOMETRIC VIEW



5A ENLARGED UNIT B MEZZANINE PLAN
1/4" = 1'-0"



3A ENLARGED UNIT A MEZZANINE PLAN
1/4" = 1'-0"

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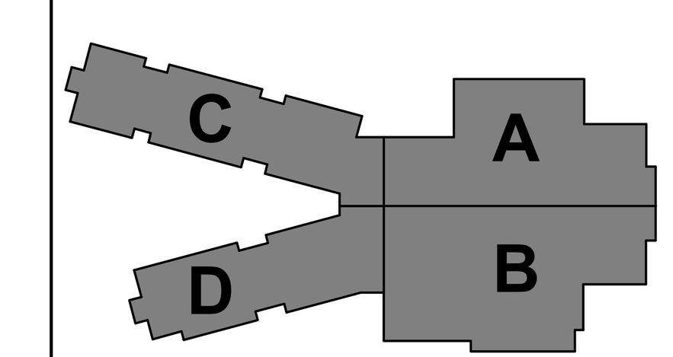
5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

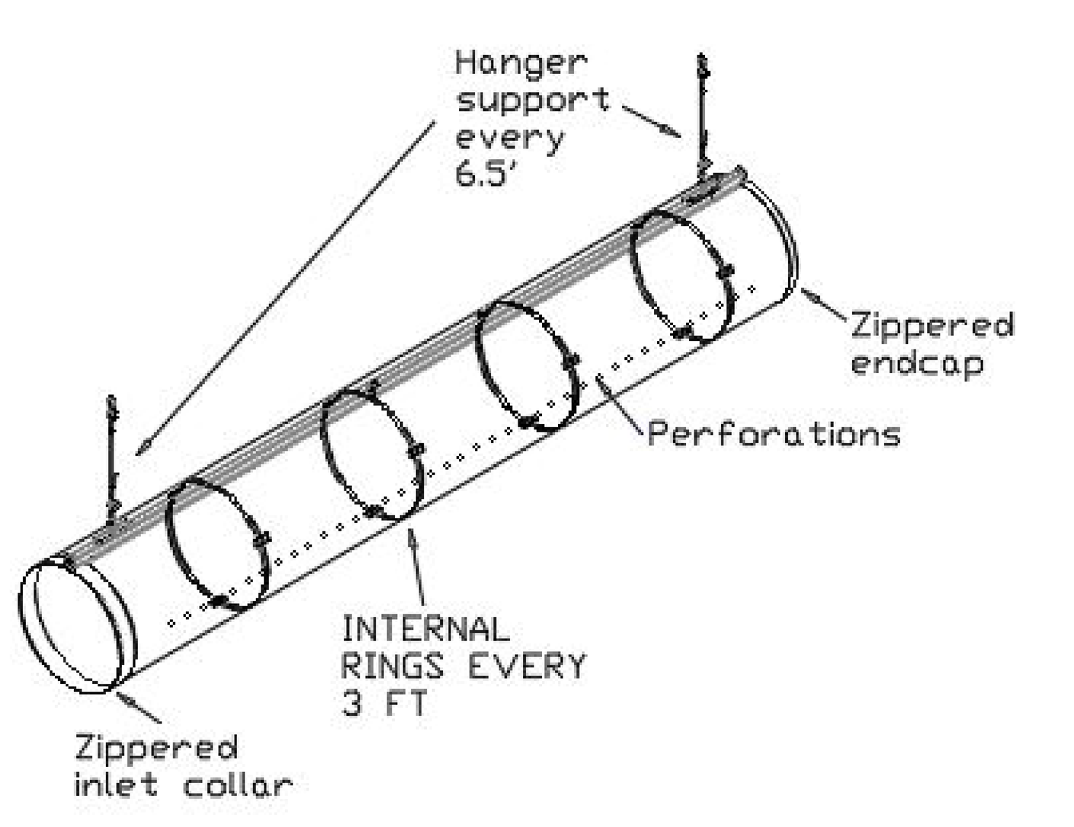
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

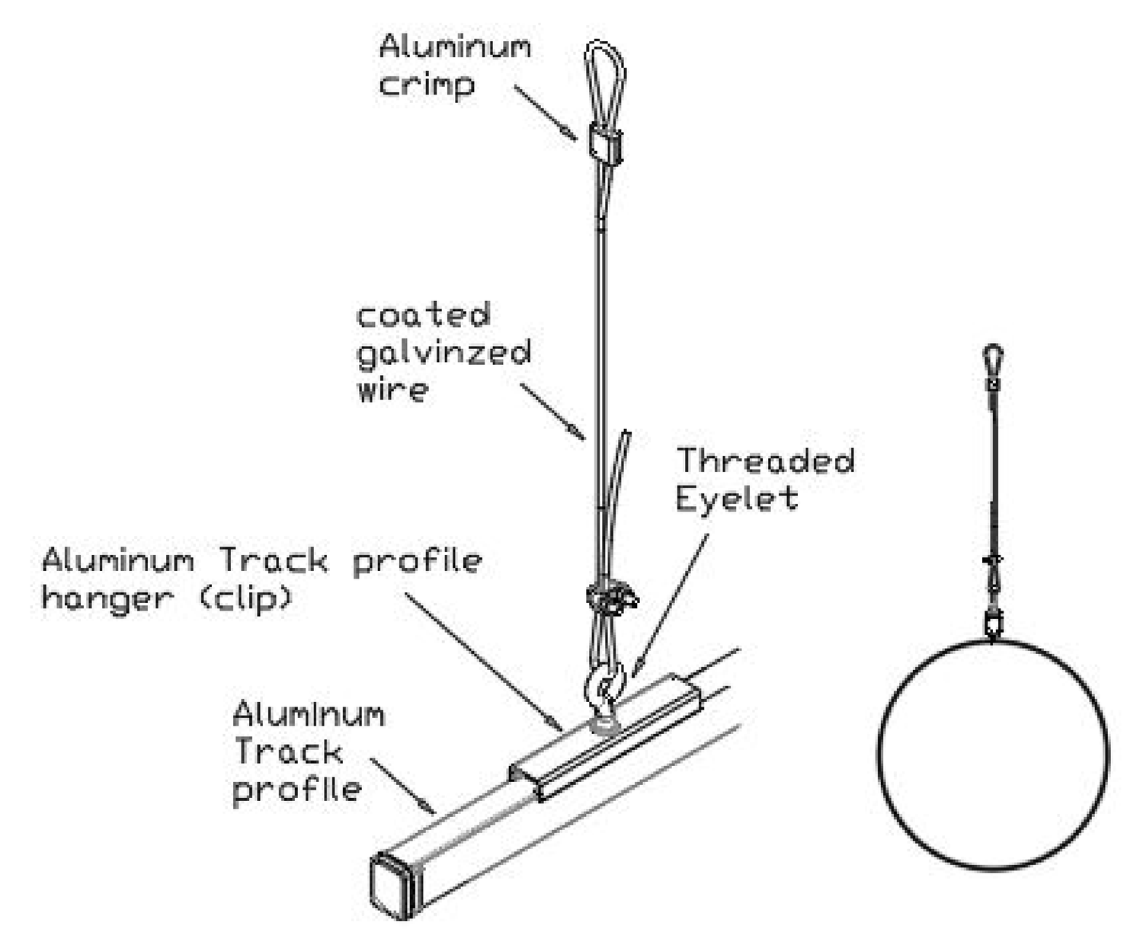
NEW ELEMENTARY SCHOOL

ENLARGED MEZZANINE PLANS

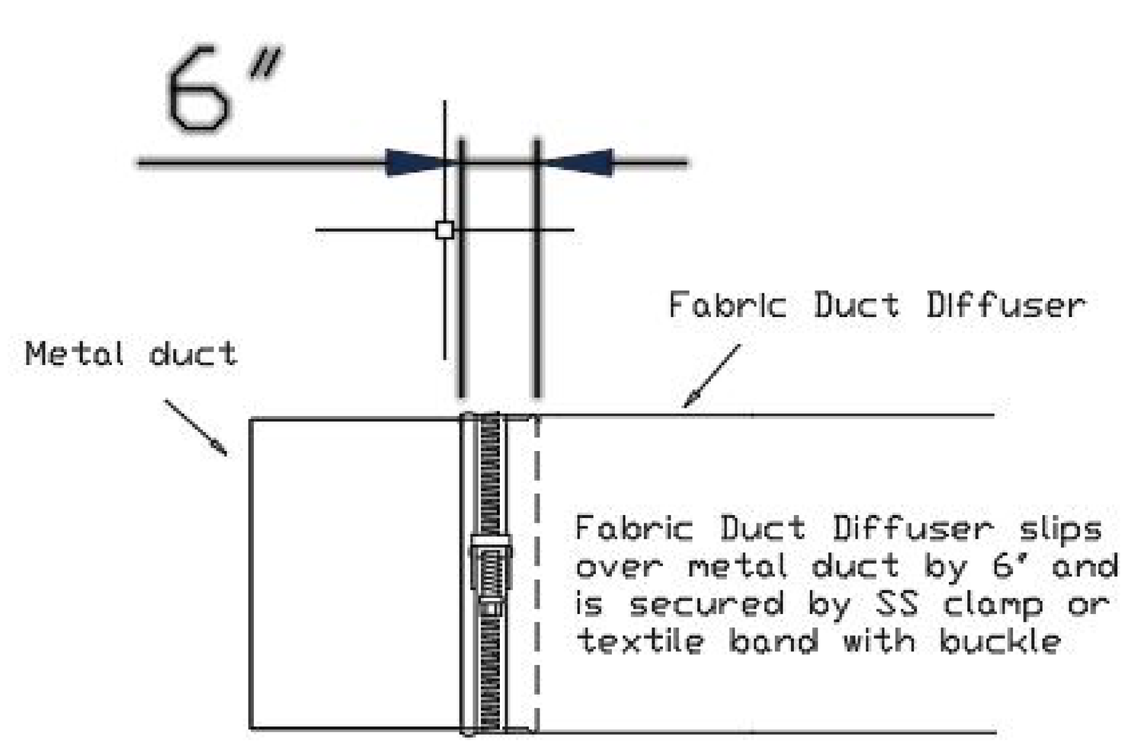
M-402



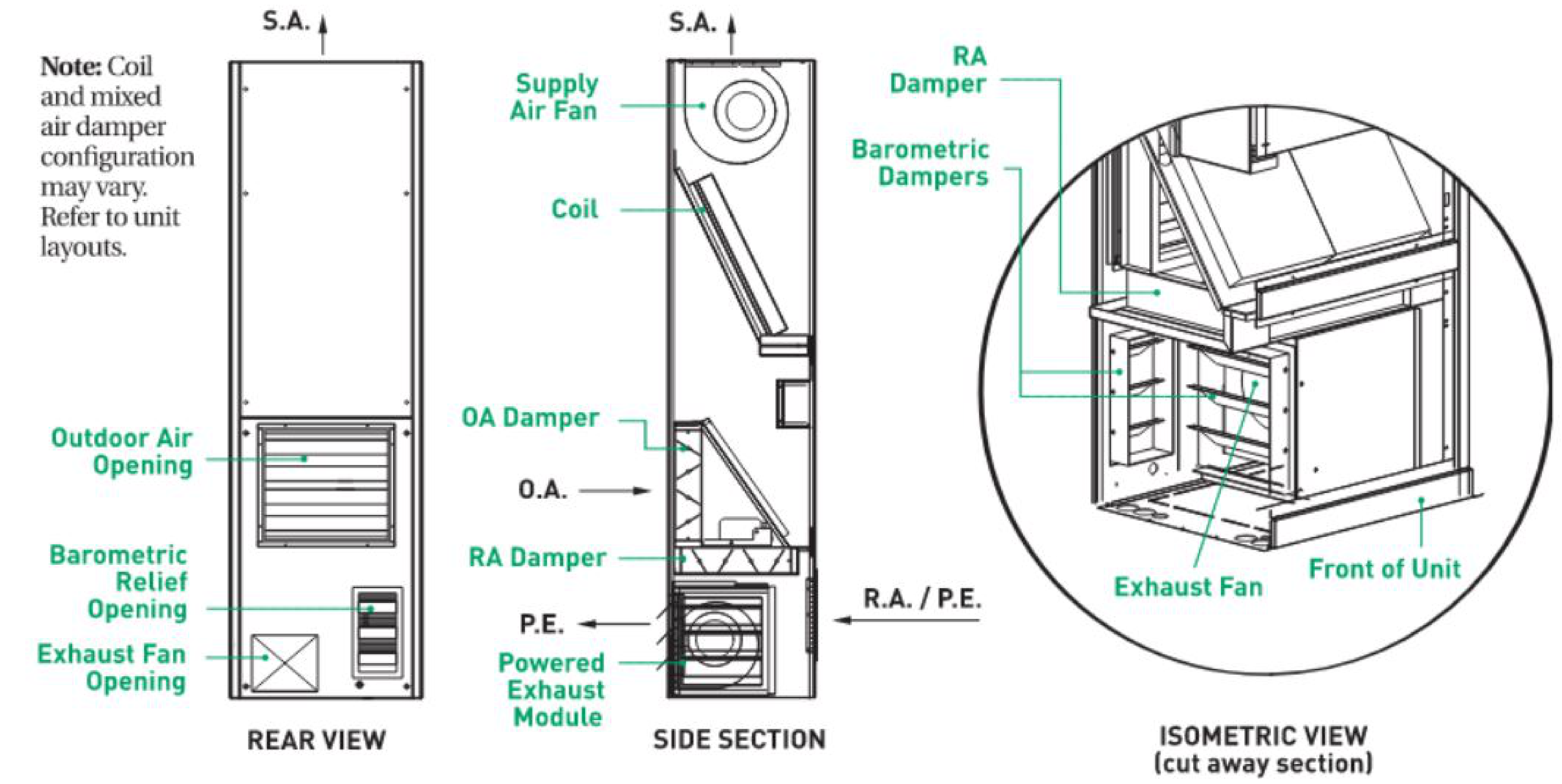
6D FABRIC DUCT INSTALLATION DETAIL
NOT TO SCALE



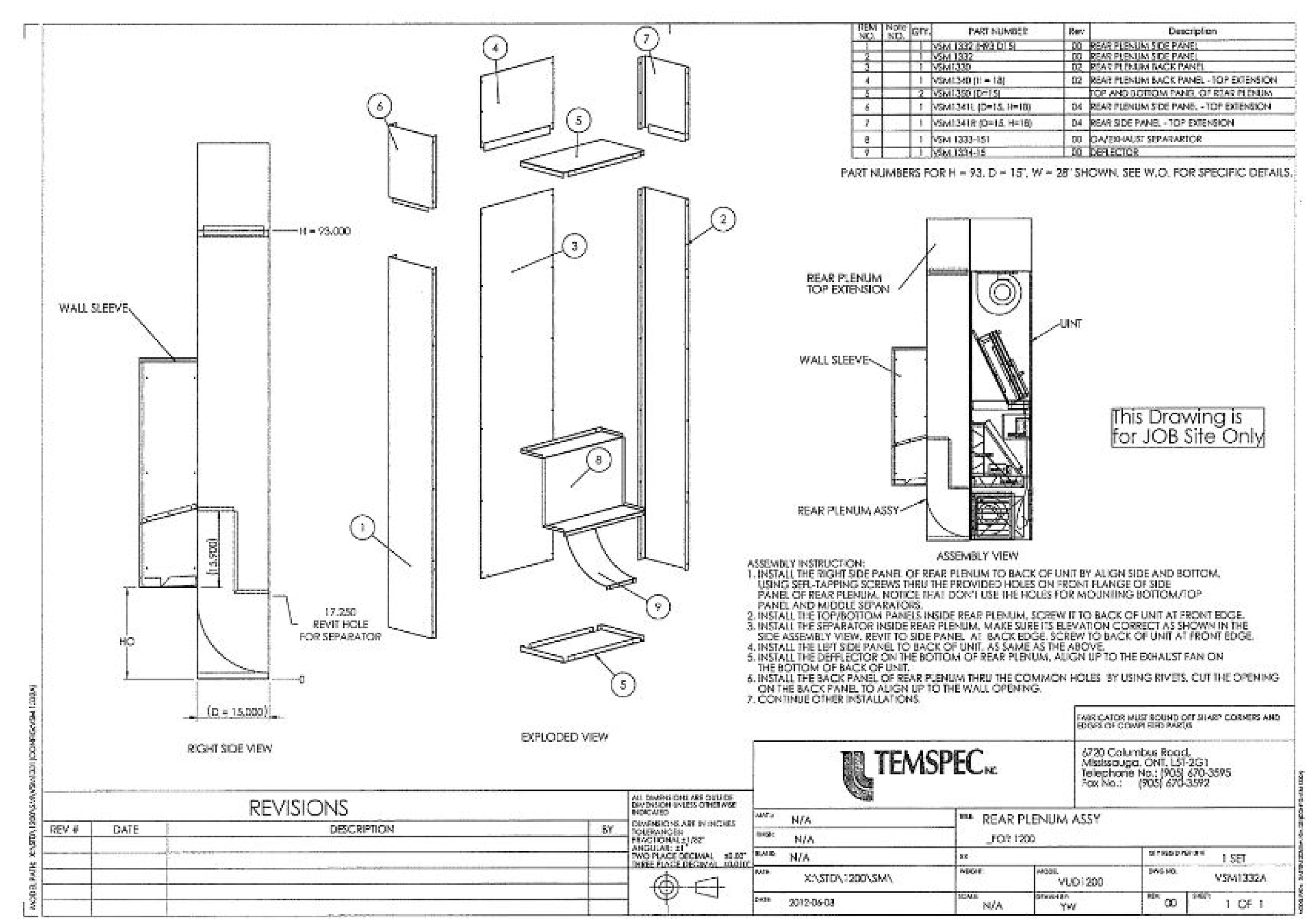
6C FABRIC DUCT HANGER DETAIL
NOT TO SCALE



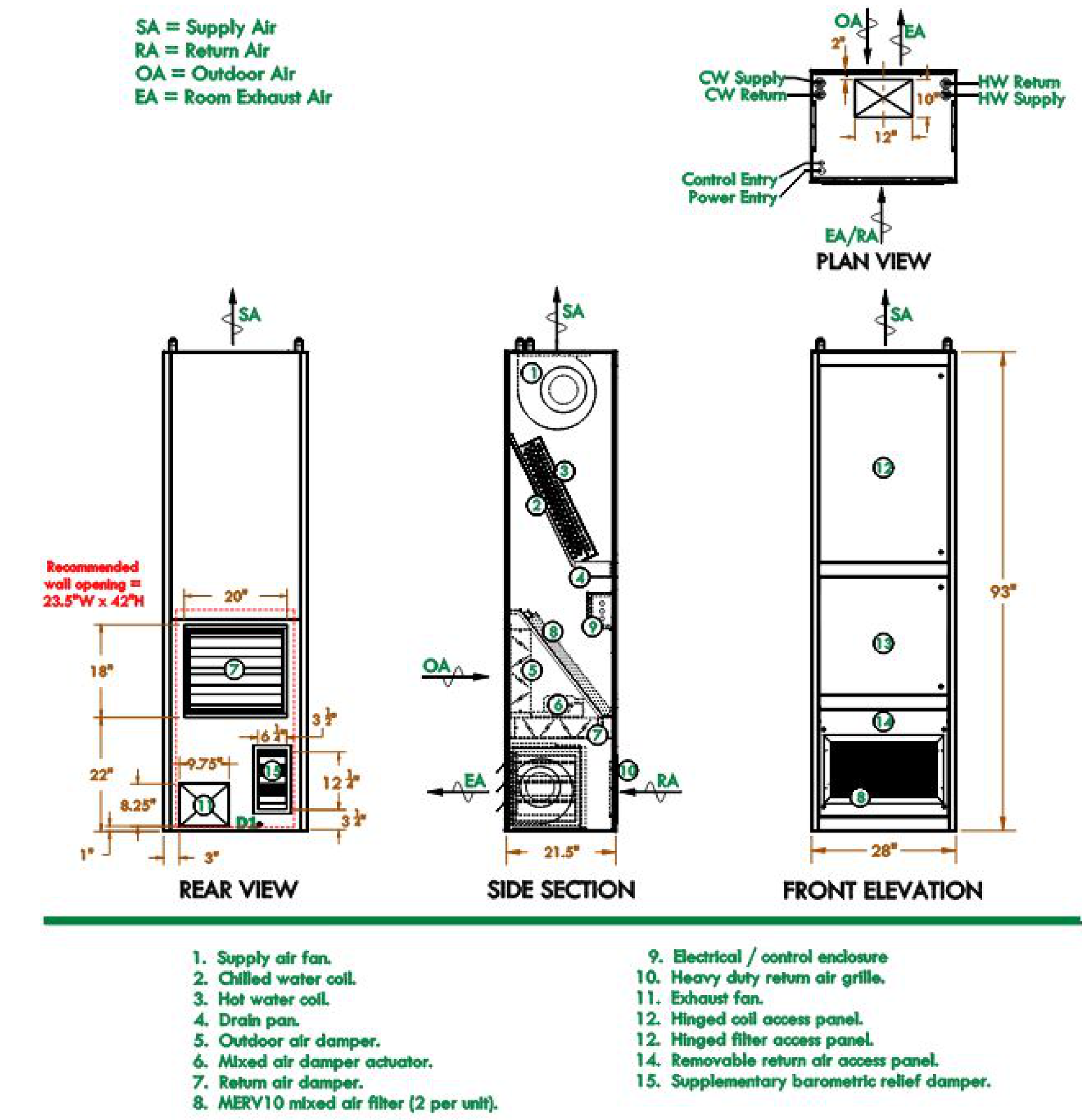
6B FABRIC DUCT INLET CONNECTION DETAIL
NOT TO SCALE



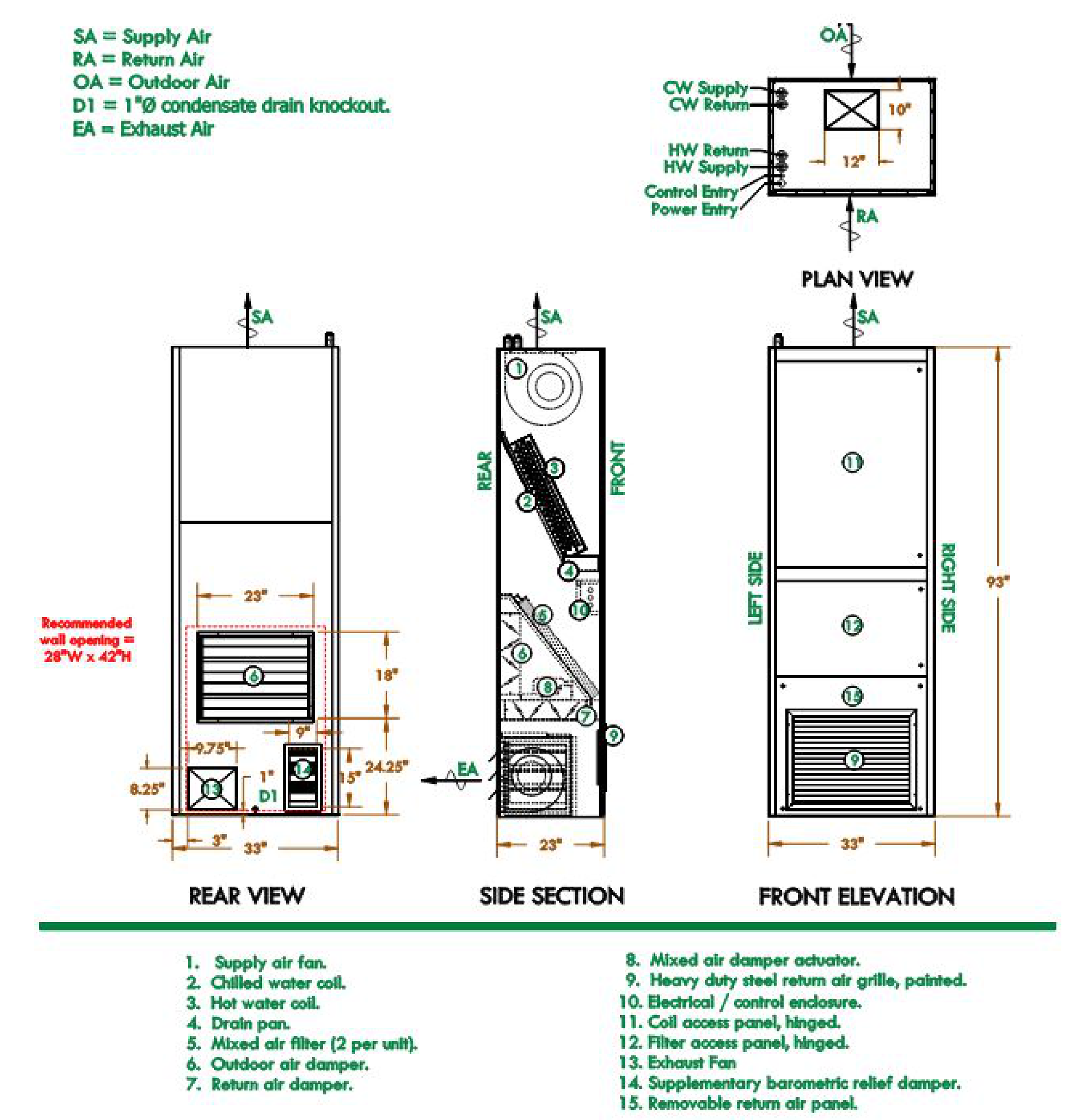
3D VUV POWERED EXHAUST DETAIL
NOT TO SCALE



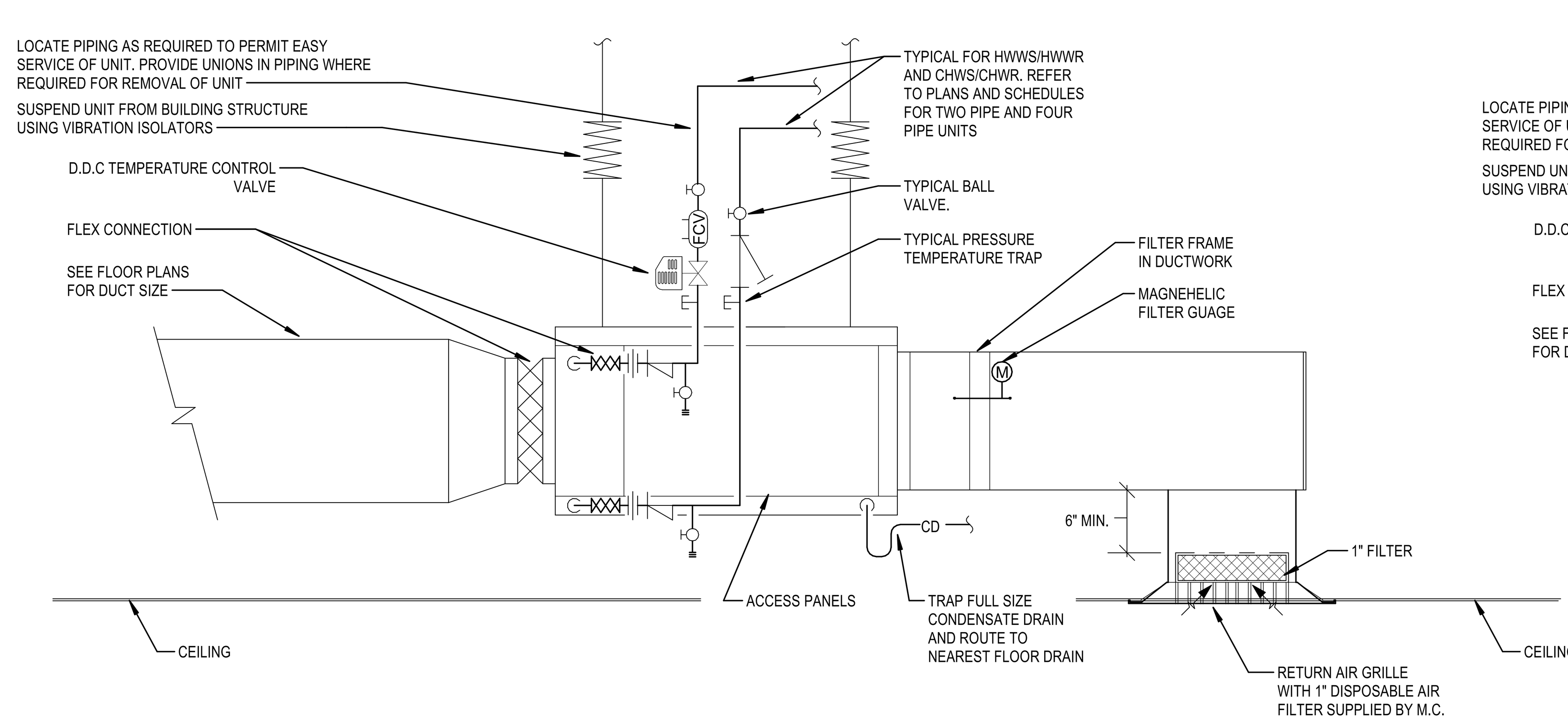
3B VUV INSTALLATION DETAIL
NOT TO SCALE



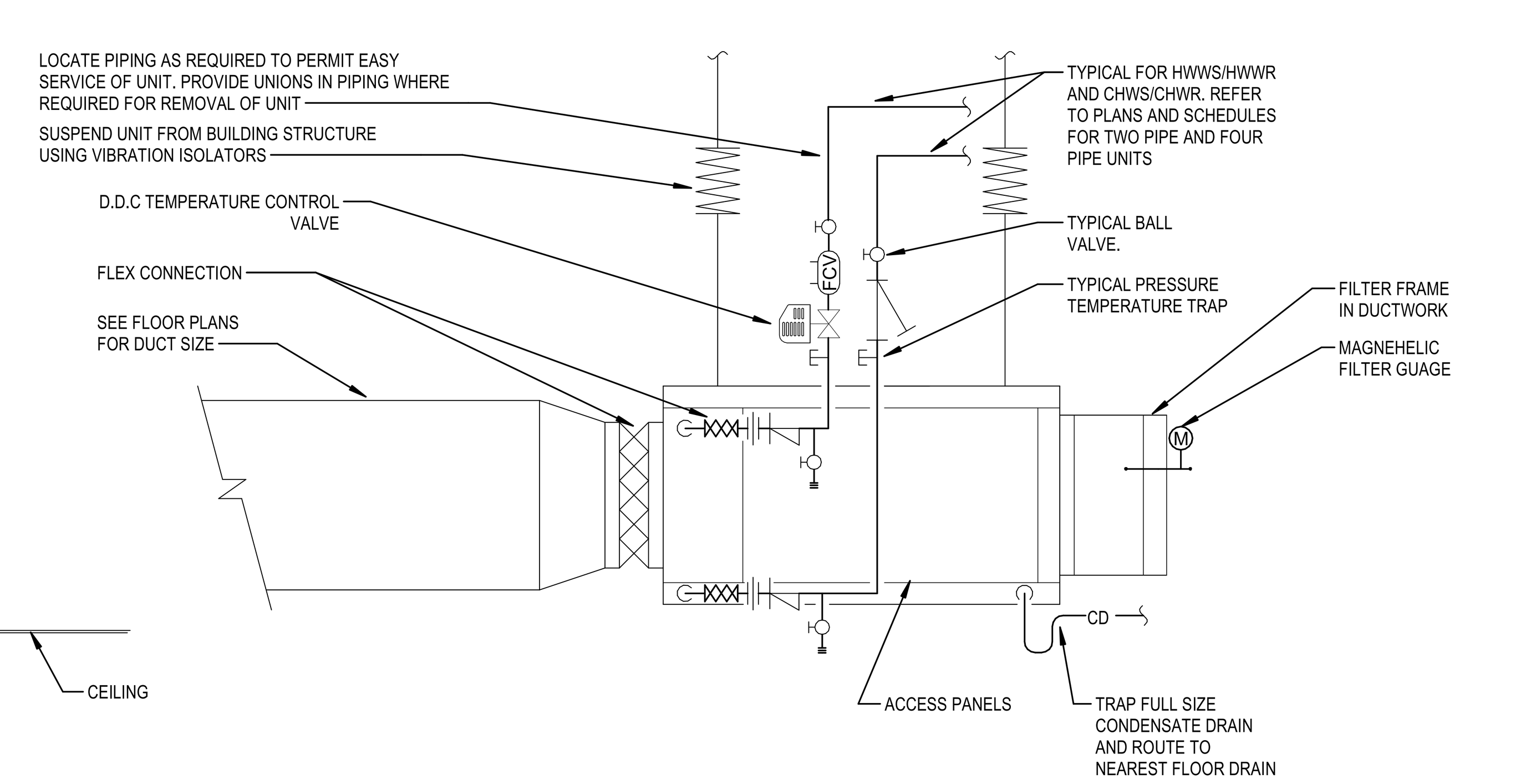
1D VUV 1200 DETAIL
NOT TO SCALE



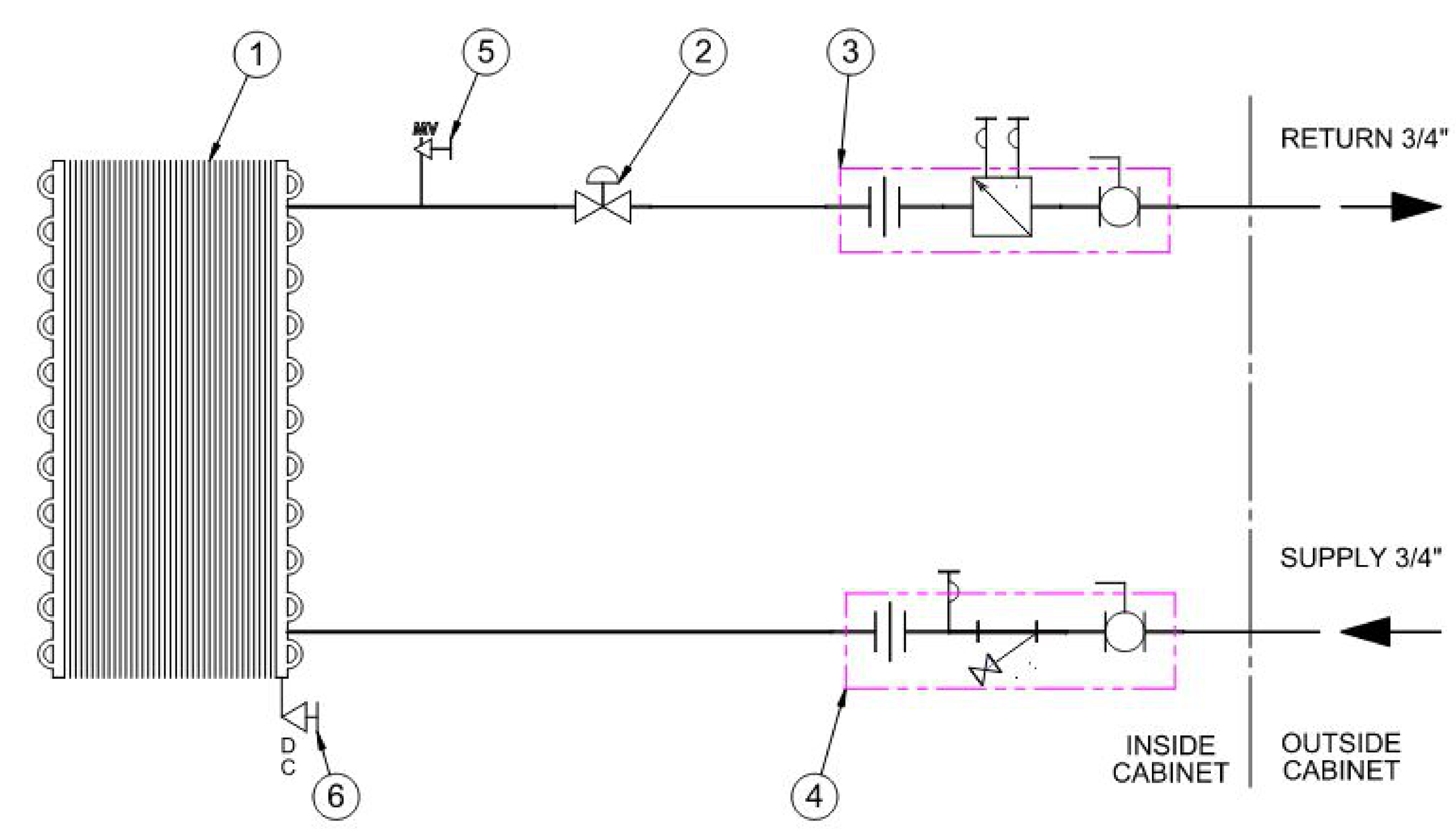
1B VUV 1600 DETAIL
NOT TO SCALE



5A HORIZONTAL FAN COIL UNIT ABOVE CEILING DETAIL
NOT TO SCALE



3A HORIZONTAL FAN COIL UNIT NO CEILING DETAIL
NOT TO SCALE



1A VUV COIL PIPING DETAIL
NOT TO SCALE

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A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239

KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

MECHANICAL DETAILS

M-504

VERTICAL UNIT VENTILATOR SCHEDULE - 23 82 23.98

IDENTITY DATA			DIMENSIONS			SUPPLY FAN DATA			COOLING COIL DATA										HEATING COIL DATA														MIN. OA (CFM)	OVERALL UNIT ELECTRICAL DATA					
																			HEATING DATA							REHEATING DATA													
MARK	MANUFACTURER	MODEL	D	W	H	AIRFLOW (CFM)	ESP (IN-WG)	MOTOR HP	TOTAL (BTUH)	SENSIBLE (BTUH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	EWT (°F)	LWT (°F)	GPM	WPD (FT-WG)	CAPACITY (BTUH)	EDB (°F)	LDB (°F)	EWT (°F)	LWT (°F)	GPM	WPD (FT-WG)	CAPACITY (BTUH)	EDB (°F)	LDB (°F)	EWT (°F)	LWT (°F)	GPM	WPD (FT-WG)		VOLTS (V)	PH	FREQ (HZ)	MCA (A)	MOP (A)	NOTES
VUV-A1	TEMSPEC	VUD-1600D	16"	33"	93"	1,300	0.50	0.75	44,800	31,700	80	67	57.9	57.4	45	54	11.0	11.6	91,200	55.0	105	160	130	6.5	5.10	32,000	55.0	77	120	93	2.5	0.80	325	120	1	60	9.6	15	1-5
VUV-A2	TEMSPEC	VUD-1200D	16"	28"	93"	1,200	0.50	0.50	40,900	29,400	80	67	57.8	57.5	45	54	10.0	13.3	76,000	40.0	98	160	131	5.5	9.00	28,100	55.0	76	120	90	2.0	3.20	300	120	1	60	7.7	15	1-5
VUV-A3	TEMSPEC	VUD-1600D	16"	33"	93"	1,250	0.50	0.75	44,100	3,100	80	67	57.6	57.1	45	54	11.0	11.6	88,300	40.0	105	160	129	6.0	4.40	28,200	55.0	76	120	90	2.5	0.40	313	120	1	60	9.6	15	1-5
VUV-B1	TEMSPEC	VUD-1600D	16"	33"	93"	1,450	0.50	0.75	46,100	33,200	80	67	58.5	33.2	45	54	11.0	11.6	96,900	40.0	103	160	131	7.0	5.90	32,700	55.0	76	120	93	2.5	0.80	363	120	1	60	9.6	15	1-5
VUV-B2	TEMSPEC	VUD-1200D	16"	28"	93"	1,200	0.50	0.50	40,900	29,400	80	67	57.8	57.5	45	54	10.0	13.3	76,000	40.0	98	160	131	5.5	9.00	28,100	55.0	76	120	90	2.0	3.20	300	120	1	60	7.7	15	1-5
VUV-C1	TEMSPEC	VUD-1600D	16"	33"	93"	1,550	0.50	0.75	50,800	36,600	80	67	59.0	58.0	45	54	12.0	13.3	103,200	40.0	101	160	131	7.5	6.40	37,000	55.0	77	120	94	3.0	1.20	388	120	1	60	9.6	15	1-5
VUV-C2	TEMSPEC	VUD-1600D	16"	33"	93"	1,450	0.50	0.75	48,200	34,600	80	67	58.0	58.0	45	54	11.0	11.0	98,400	40.0	102	160	130	7.0	2.90	32,900	55.0	76	92	92	2.5	0.80	363	120	1	60	9.6	15	1-5
VUV-C3	TEMSPEC	VUD-1600D	16"	33"	93"	1,550	0.50	0.75	50,800	36,600	80	67	59.0	58.0	45	54	12.0	13.3	103,200	40.0	101	160	131	7.5	6.40	37,000	55.0	77	120	94	3.0	1.20	388	120	1	60	9.6	15	1-5
VUV-C4	TEMSPEC	VUD-1600D	16"	33"	93"	1,450	0.50	0.75	48,200	34,600	80	67	58.0	58.0	45	54	11.0	11.0	98,400	40.0	102	160	130	7.0	2.90	32,900	55.0	76	92	92	2.5	0.80	363	120	1	60	9.6	15	1-5
VUV-C5	TEMSPEC	VUD-1600D	16"	33"	93"	1,550	0.50	0.75	50,800	36,600	80	67	59.0	58.0	45	54	12.0	13.3	103,200	40.0	101	160	131	7.5	6.40	37,000	55.0	77	120	94	3.0	1.20	388	120	1	60	9.6	15	1-5
VUV-C6	TEMSPEC	VUD-1600D	16"	33"	93"	1,450	0.50	0.75	48,200	34,600	80	67	58.0	58.0	45	54	11.0	11.0	98,400	40.0	102	160	130	7.0	2.90	32,900	55.0	76	92	92	2.5	0.80	363	120	1	60	9.6	15	1-5
VUV-C7	TEMSPEC	VUD-1600D	16"	33"	93"	1,550	0.50	0.75	50,800	36,600	80	67	59.0	58.0	45	54	12.0	13.3	103,200	40.0	101	160	131	7.5	6.40	37,000	55.0	77	120	94	3.0	1.20	388	120	1	60	9.6	15	1-5
VUV-C8	TEMSPEC	VUD-1600D	16"	33"	93"	1,450	0.50	0.75	48,200	34,600	80	67	58.0	58.0	45	54	11.0	11.0	98,400	40.0	102	160	130	7.0	2.90	32,900	55.0	76	92	92	2.5	0.80	363	120	1	60	9.6	15	1-5
VUV-C9	TEMSPEC	VUD-1200D	16"	28"	93"	1,100	0.50	0.50	38,800	27,600	80	67	57.0	57.0	45	54	9.5	11.4	70,800	40.0	99	160	130	5.0	8.30	27,600	55.0	78	120	91	2.0	3.20	275	120	1	60	7.7	15	1-5
VUV-C10	TEMSPEC	VUD-1600D	16"	33"	93"	1,495	0.50	0.75	50,200	35,800	80	67	58.0	58.0	45	54	12.0	13.3	101,600	40.0	102	160	132	7.5	6.40	36,700	55.0	77	120	94	3.0	1.20	374	120	1	60	9.6	15	1-5
VUV-C11	TEMSPEC	VUD-1600D	16"	33"	93"	1,595	0.50	0.75	51,400	37,300	80	67	59.0	58.0	45	54	12.0	13.3	104,500	40.0	100	160	131	7.5	12.00	37,300	55.0	76	120	94	3.0	1.20	399	120	1	60	12.0	10	1-5
VUV-C12	TEMSPEC	VUD-1200D	16"	28"	93"	1,100	0.50	0.50	38,800	27,600	80	67	57.0	57.0	45	54	9.5	11.4	70,800	40.0	99	160	130	5.0	8.30	27,600	55.0	78	120	91	2.0	3.20	275	120	1	60	7.7	15	1-5
VUV-C13	TEMSPEC	VUD-1600D	16"	33"	93"	1,495	0.50	0.75	50,200	35,800	80	67	58.0	58.0	45	54	12.0	13.3	101,600	40.0	102	160	132	7.5	6.40	36,700	55.0	77	120	94	3.0	1.20	374	120	1	60	9.6	15	1-5
VUV-C14	TEMSPEC	VUD-1200D	16"	28"	93"	1,100	0.50	0.50	38,800	27,600	80	67	57.0	57.0	45	54	9.5	11.4	70,800	40.0	99	160	130	5.0	8.30	27,600	55.0	78	120	91	2.0	3.20	275	120	1	60	7.7	15	1-5
VUV-C15	TEMSPEC	VUD-1200D	16"	28"	93"	1,100	0.50	0.50	38,800	27,600	80	67	57.0	57.0	45	54	9.5	11.4	70,800	40.0	99	160	130	5.0	8.30	27,600	55.0	78	120	91	2.0	3.20	275	120	1	60	7.7	15	1-5
VUV-C16	TEMSPEC	VUD-1600D	16"	33"	93"	1,450	0.50	0.75	48,200	34,600	80	67	58.0	58.0	45	54	11.0	11.0	98,400	40.0	102	160	130	7.0	2.90	32,900	55.0	76	92	92	2.5	0.80	363	120	1	60	9.6	15	1-5
VUV-C17	TEMSPEC	VUD-1200D	16"	28"	93"	1,200	0.50	0.50	40,900	29,400	80	67	58.0	58.0	45	54	10.0	13.3	76,000	40.0	98	160	131	5.5	9.00	28,100	55.0	76	120	90	2.0	3.20	300	120	1	60	7.7	15	1-5
VUV-D1	TEMSPEC	VUD-1200D	16"	28"	93"	1,000	0.50	0.50	36,600	25,700	80	67	57.0	57.0	45	54	9.0	10.1	66,500	40.0	101	160	129	4.5	7.50	23,400	55.0	76	120	87	1.5	1.80	250	120	1	60	9.6	15	1-5
VUV-D2	TEMSPEC	VUD-1200D	16"	28"	93"	1,100	0.50	0.50	38,800	27,600	80	67	57.0	57.0	45	54	9.5	11.4	70,800	40.0	99	160	130	5.0	8.30	27,600	55.0	78	120	91	2.0	3.20	275	120	1	60	7.7	15	1-5
VUV-D3	TEMSPEC	VUD-1600D	16"	33"	93"	1,495	0.50	0.75	50,200	35,800	80	67	58.0	58.0	45	54	12.0	13.3	101,600	40.0	102	160	132	7.5	6.40	36,700	55.0	77	120	94	3.0	1.20	374	120	1	60	9.6	15	1-5
VUV-D4	TEMSPEC	VUD-1600D	16"	33"	93"	1,595	0.50	0.75	51,400	37,300	80	67	59.0	58.0	45	54	12.0	13.3	104,500	40.0	100	160	131	7.5	12.00	37,300	55.0	76	120	94	3.0	1.20	399	120	1	60	12.0	10	1-5
VUV-D5	TEMSPEC	VUD-1200D	16"	28"	93"	1,000	0.50	0.50	36,600	25,700	80	67	57.0	57.0	45	54	9.0	10.1	66,500	40.0	101	160	129	4.5	7.50	23,400	55.0	76	120	87	1.5	1.80	250	120	1	60	9.6	15	1-5
VUV-D6	TEMSPEC	VUD-1200D	16"	28"	93"	1,100	0.50	0.50	38,800	27,600	80	67	57.0	57.0	45	54	9.5	11.4	70,800	40.0	99	160	130	5.0	8.30	27,600	55.0	78	120	91	2.0	3.20	275	120	1	60	7.7	15	1-5
VUV-D7	TEMSPEC	VUD-1200D	16"	28"	93"	1,200	0.50	0.50	40,900	29,400	80	67	58.0	58.0	45	54	10.0	13.3	76,000	40.0	98	160	131	5.5	9.00	28,100	55.0	76	120	90	2.0	3.20	300	120	1	60	7.7	15	1-5
VUV-D8	TEMSPEC	VUD-1200D	16"	28"	93"	1,100	0.50	0.50	38,800	27,600	80	67	57.0	57.0	45	54	9.5	11.4	70,800	40.0	99	160	130	5.0	8.30	27,600	55.0	78	120	91	2.0	3.20	275	120	1	60	7.7	15	1-5
VUV-D9	TEMSPEC	VUD-1200D	16"	28"	93"	1,000	0.50	0.50	36,600	25,700	80	67	57.0	57.0	45	54	9.0	10.1	66,500	40.0	101	160	129	4.5	7.50	23,400	55.0	76	120	87	1.5	1.80	250	120	1	60	9.6	15	1-5
VUV-D10	TEMSPEC	VUD-1200D	16"	28"	93"	1,100	0.50	0.50	38,800	27,600	80	67	57.0	57.0	45	54	9.5	11.4	70,800	40.0	99	160	130	5.0	8.30	27,600	55.0	78	120	91	2.0	3.20	275	120	1	60	7.7	15	1-5
VUV-D11	TEMSPEC	VUD-1600D	16"	33"	93"	1,495	0.50	0.75	50,200	35,800	80	67	58.0	58.0	45	54	12.0	13.3	101,600	40.0	102	160	132	7.5	6.40	36,700	55.0	77	120	94	3.0	1.20	374	120	1	60	9.6	15	1-5
VUV-D12	TEMSPEC	VUD-1600D	16"	33"	93"	1,595	0.50	0.75	51,400	37,300	80	67	59.0	58.0	45	54	12.0	13.3	104,500	40.0	100	160	131	7.5	12.00	37,300	55.0	76	120	94	3.0	1.20	399	120	1	60	12.0	10	1-5
VUV-D13	TEMSPEC	VUD-1200D	16"	28"	93"	1,000	0.50	0.50	36,600	25,700	80	67	57.0	57.0	45	54	9.0	10.1	66,500	40.0	101	160	129	4.5	7.50	23,400	55.0	76	120	87	1.5	1.80	250	120	1	60	9.6	15	1-5
VUV-D14	TEMSPEC	VUD-1200D	16"	28"	93"	1,100	0.50	0.50	38,800	27,600	80	67	57.0	57.0	45	54	9.5	11.4	70,800	40.0	99	160	130	5.0	8.30	27,600	55.0	78	120	91	2.0	3.20	275	120	1	60	7.7	15	1-5
VUV-D15	TEMSPEC	VUD-1200D	16"	28"	93"	1,200	0.50	0.50	40,900	29,400	80	67	58.0	58.0	45	54	10.0	13.3	76,000	40.0	98	160	131	5.5	9.00	28,100	55.0	76	120	90	2.0	3.20	300	120	1	60	7.7	15	1-5
VUV-D16	TEMSPEC	VUD-1200D	16"	28"	93"	1,100	0.50	0.50	38,800	27,600	80	67	57.0	57.0	45	54	9.5	11.4	70,800	40.0	99	160	130	5.0	8.30	27,600	55.0	78	120	91	2.0	3.20	275	120	1	60	7.7	15	1-5

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VERTICAL UNIT VENTILATOR SCHEDULE NOTES:

1. DISCONNECT BY MANUFACTURER. SINGLE POINT POWER.
2. SEE M-701 FOR UNIT CONTROL DEVICES AND SEQUENCES.
3. 2" MERV-11 FILTER. PROVIDE THREE (3) SETS OF EXTRA FILTERS.
4. STANDARD COLOR SELECTED BY ARCHITECT.
5. UNIT TO BE CONNECTED TO OA & EXHAUST/RELIEF DAMPER. MC TO BLANK OFF UNUSED PORTION OF LOUVER WITH RIDGID INSULATION AND MAKE WEATHERTIGHT.

AHU SCHEDULE

IDENTITY DATA					WEIGHT (LBS)	DIMENSIONS			SUPPLY FAN DATA							SUPPLY FAN ELECTRICAL DATA						RETURN FAN DATA							RETURN FAN ELECTRICAL DATA					
													MOTOR													MOTOR								
MARK	MANUFACTURER	MODEL	LOCATION	AREA SERVED		L	W	H	AIRFLOW (CFM)	ESP (IN-WG)	TSP (IN-WG)	RPM	QTY	HP EACH	BHP EACH	VOLTS (V)	PH	FREQ (HZ)	FLA (A)	MCA (A)	MOCP (A)	AIRFLOW (CFM)	ESP (IN-WG)	TSP (IN-WG)	RPM	QTY	HP EACH	BHP EACH	VOLTS (V)	PH	FREQ (HZ)	FLA (A)	MCA (A)	MOCP (A)
AHU-1	TRANE	CSAA025	MEZZANINE AREA B	CAFETERIA	5,119	233"	80"	65"	12,825	1.50	3.5	1,736	1	15.0	11.1	460	3	60	21.0	26.3	45	12,825	1.00	2.13	1,611	1	10.0	8.1	460	3	60	14.0	17.5	30.0
AHU-2	TRANE	CSAA010	MEZZANINE AREA B	MEDIA ROOM	2,620	200"	61.5"	41.3"	4,425	1.50	3.2	1,877	1	5.0	3.5	460	3	60	8.2	10.3	15	4,425	1.00	1.26	1,628	1	2.0	1.7	460	3	60	3.4	4.3	15.0
AHU-3	TRANE	CSAA008	MEZZANINE AREA A	OFFICES AREA A	2,346	198"	50.5"	41.3"	3,970	1.50	3.5	2,182	1	5.0	3.5	460	3	60	8.2	10.3	15	3,070	1.00	1.35	1,778	1	2.0	1.8	460	3	60	3.4	4.3	15.0
AHU-4	TRANE	CSAA035	MEZZANINE AREA A	GYM	5,625	189.4"	100"	70.8"	14,400	1.50	3.0	1,536	2	5.0	4.5	460	3	60	21.0	26.3	45	-	-	-	-	-	-	-	-	-	-	-	-	-
RTU-1	TRANE	CSAA012	ROOF	KITCHEN	3,094	163.5"	66.4"	47.7"	5,700	2.00	4.0	1,792	1	7.5	5.6	460	3	60	11.0	13.8	20	-	-	-	-	-	-	-	-	-	-	-	-	-

AHU SCHEDULE (CONTINUED)

	PREHEAT COIL DATA													COOLING COIL DATA													REHEAT COIL DATA												MIN OA (CFM)	NOTES
MARK	AIRFLOW (CFM)	CAPACITY (BTUH)	FLOW (GPM)	EDB (°F)	LDB (°F)	EWT (°F)	LWT (°F)	WPD (FT-WG)	FACE VEL. (FPM)	APD (IN-WG)	ROWS	FINS PER IN	FLUID TYPE	TOTAL CAP. (BTUH)	SENSIBLE CAP. (BTUH)	FLOW (GPM)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	EWT (°F)	LWT (°F)	WPD (FT-WG)	FACE VEL. (FPM)	APD (IN-WG)	ROWS	FLUID TYPE	CAPACITY (BTUH)	FLOW (GPM)	EDB (°F)	LDB (°F)	EWT (°F)	LWT (°F)	WPD (FT-WG)	FACE VEL. (FPM)	APD (IN-WG)	ROWS	FINS PER IN	FLUID TYPE		
AHU-1	11,860	266,150	28	41.0	65.0	160	140	1.62	413	0.05	1	6.6	30% PG	512,640	365,780	111	81.0	67.0	54.0	54.0	44	54	11	498	0.82	8	30% PG	-	-	-	-	-	-	-	-	-	-	-	-	3,500	1-6
AHU-2	3,450	112,490	11.85	40.7	70.0	160	140	0.52	385	0.05	1	8.6	30% PG	171,980	124,840	37	80.6	67.0	55.0	54.4	44	54	14	443	0.55	6	30% PG	-	-	-	-	-	-	-	-	-	-	-	-	1,250	1-6
AHU-3	3,176	83,700	8.81	40.7	65.0	160	140	0.28	434	0.07	1	8.6	30% PG	152,380	112,000	33	80.6	67.0	55.0	54.6	44	54	9	497	0.70	6	30% PG	-	-	-	-	-	-	-	-	-	-	-	-	1,100	1-6
AHU-4	11,520	387,300	40.8	39.0	70.0	160	140	3.4	353	0.04	1	7,3	30% PG	600,250	423,490	130	81.0	67.3	54.3	53.7	44	54	5	429	0.50	8	30% PG	328,730	35	55.0	76.0	120.0	100.0	1.3	441	0.10	2	7.0	30% PG	4,300	1-6
RTU-1	4,560	148,360	15.62	40.0	70.0	160	140	0.83	405	0.06	1	8.8	30% PG	272,820	16,140	59	80.6	69.7	55.0	54.8	44	54	5	463	0.79	8	30% PG	-	-	-	-	-	-	-	-	-	-	-	-	1,620	1,2,4-7

AIR HANDLING UNIT SCHEDULE NOTES

1. VFD PROVIDED BY TCC.
2. PROVIDE WITH 2" MERV 11 FILTERS.
3. PLACE ON 6" HOUSEKEEPING PAD.
4. PROVIDE WITH 2" SPRING ISOLATORS.
5. TO BE CONSTRUCTED OF 2" SOLID DOUBLE WALL CONSTRUCTION.
6. TO BE 65kA SCCR RATING.
7. PROVIDE WITH 14" TALL CURB.

EXHAUST FAN SCHEDULE - 23 34 23

IDENTITY DATA				WEIGHT (LBS)	FAN DATA							SOUND CRITERIA		ELECTRICAL DATA			UNIT CONTROL	NOTES
MARK	MANUFACTURER	MODEL	SERVICES		FAN TYPE	DRIVE TYPE	AIRFLOW (CFM)	ESP (IN-WG)	RPM	HP	BHP	SONES	DBA	VOLTS (V)	PH	FREQ (HZ)		
EF-A1	GREENHECK	G-080-VG	RESTROOM	22	CENTRIFUGAL ROOF	DIRECT	225	0.50	1551	0.10	0.05	7.6	55	120	1	60	OCC SENSOR	1-3
EF-A2	GREENHECK	CUE-120-VG	RESTROOM	53	CENTRIFUGAL ROOF	DIRECT	1575	1.00	1725	0.50	0.46	18.7	71	120	1	60	OCC SENSOR	1-3
EF-A3	GREENHECK	G-080-VG	KILN	22	CENTRIFUGAL ROOF	DIRECT	300	0.25	1680	0.10	0.07	8.4	57	120	1	60	TIMER SWITCH	1-3
EF-A4	GREENHECK	G-080-VG	KILN	22	CENTRIFUGAL ROOF	DIRECT	300	0.25	1680	0.10	0.07	8.4	57	120	1	60	TIMER SWITCH	1-3
EF-A5	GREENHECK	G-120-VG	ART ROOM	46	CENTRIFUGAL ROOF	DIRECT	500	0.25	1200	0.25	0.04	4.5	47	120	1	60	TIMER SWITCH	1-3
EF-A6	GREENHECK	G-120-VG	MAKERSPACE	46	CENTRIFUGAL ROOF	DIRECT	600	0.25	1200	0.25	0.05	4.8	48	120	1	60	TIMER SWITCH	1-3
EF-B1	GREENHECK	G-080-VG	RESTROOM	22	CENTRIFUGAL ROOF	DIRECT	300	0.25	1680	0.10	0.07	8.4	57	120	1	60	OCC SENSOR	1-3
EF-B2	GREENHECK	G-090-VG	RESTROOM	23	CENTRIFUGAL ROOF	DIRECT	425	0.50	1725	0.10	0.07	7.1	53	120	1	60	OCC SENSOR	1-3
EF-B3	GREENHECK	G-060-VG	RESTROOM	22	CENTRIFUGAL ROOF	DIRECT	75	0.20	1372	0.10	0.01	2.9	42	120	1	60	OCC SENSOR	1-3
EF-C1	GREENHECK	G-070-VG	RESTROOM	22	CENTRIFUGAL ROOF	DIRECT	150	0.50	1725	0.07	0.03	5.7	51	120	1	60	OCC SENSOR	1-3
EF-C2	GREENHECK	G-070-VG	RESTROOM	22	CENTRIFUGAL ROOF	DIRECT	150	0.50	1725	0.07	0.03	5.7	51	120	1	60	OCC SENSOR	1-3
EF-C3	GREENHECK	G-100-VG	RESTROOM	33	CENTRIFUGAL ROOF	DIRECT	700	0.75	1438	0.25	0.16	6.7	53	120	1	60	ALWAYS ON	1-3
EF-C4	GREENHECK	G-070-VG	RESTROOM	22	CENTRIFUGAL ROOF	DIRECT	150	0.50	1725	0.07	0.03	5.7	51	120	1	60	OCC SENSOR	1-3
EF-C5	GREENHECK	G-070-VG	RESTROOM	22	CENTRIFUGAL ROOF	DIRECT	150	0.50	1725	0.07	0.03	5.7	51	120	1	60	OCC SENSOR	1-3
EF-C6	GREENHECK	G-100-VG	RESTROOM	33	CENTRIFUGAL ROOF	DIRECT	700	0.75	1438	0.25	0.16	6.7	53	120	1	60	ALWAYS ON	1-3
EF-D1	GREENHECK	CUE-120-VG	RESTROOM	53	CENTRIFUGAL ROOF	DIRECT	1500	1.00	1725	0.50	0.46	18.7	71	120	1	60	OCC SENSOR	1-3
DBF-1	TJERLUND	LB2	DRYER VENT	10	INLINE BOOSER FAN	DIRECT	160	0.15	-	-	-	-	-	120	1	60	MANUFACTURER PROVIDED	4,5

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EXHAUST FAN SCHEDULE NOTES:

1. DISCONNECT BY MANUFACTURER.
2. SEE M-700 SERIES SHEETS FOR TEMPERATURE CONTROL INFORMATION.
3. FAN SPEED CONTROLLER FOR BALANCING.
4. TJERNLUND DRYER BOOSER FAN. 50 WATTS, 0.5 AMPS.
5. PROVIDE MATCHING TJERLUND LED INDICATOR PANEL. MOUNT IN VISIBLE VIEW OF DRYER.

ELECTRIC CABINET UNIT HEATER SCHEDULE - 23 82 39

IDENTITY DATA			WEIGHT (LBS)	HEATING DATA		FAN DATA						ELECTRICAL DATA				NOTES
MARK	MANUFACTURER	MODEL		CAPACITY (KW)	STAGES	AIRFLOW (CFM)	ESP (IN-WG)	FAN TYPE	DRIVE	RPM	SPEEDS	VOLTS (V)	PH	FREQ (HZ)	MOCP (A)	
ECUH-C1	MARKEL	3320	26	0.8	1	175	0.00	FORCED AIR	DIRECT	600	1	120	1	60	6.3	1-4
ECUH-C2	MARKEL	3320	26	0.8	1	175	0.00	FORCED AIR	DIRECT	600	1	120	1	60	6.3	1-4
ECUH-C3	MARKEL	3320	26	0.8	1	175	0.00	FORCED AIR	DIRECT	600	1	120	1	60	6.3	1-4
ECUH-C4	MARKEL	3320	26	0.8	1	175	0.00	FORCED AIR	DIRECT	600	1	120	1	60	6.3	1-4
ECUH-C5	MARKEL	3320	26	0.8	1	175	0.00	FORCED AIR	DIRECT	600	1	120	1	60	6.3	1-4
ECUH-C6	MARKEL	3320	26	0.8	1	175	0.00	FORCED AIR	DIRECT	600	1	120	1	60	6.3	1-4
ECUH-C7	MARKEL	3320	26	0.8	1	175	0.00	FORCED AIR	DIRECT	600	1	120	1	60	6.3	1-4
ECUH-C8	MARKEL	3320	26	0.8	1	175	0.00	FORCED AIR	DIRECT	600	1	120	1	60	6.3	1-4

ELECTRIC CABINET UNIT HEATER SCHEDULE NOTES:

1. DISCONNECT SWITCH BY MANUFACTURER. DISCONNECT SWITCH AND ALL INTERLOCK RELAYS TO BE INSTALLED WITHIN HEATER ENCLOSURE.
2. PROVIDE INTEGRAL FACTORY INSTALLED THERMOSTAT.
3. PROVIDE AUTOMATIC THERMAL RESET.
4. SEE PLAN FOR MOUNTING (RECESSED VS. SURFACE).

VAV BOX WITH HOT WATER REHEAT SCHEDULE - 23 36 00

IDENTITY DATA				AIRFLOW DATA				NOISE DATA		REHEAT COIL DATA										NOTES
MARK	MANUFACTURER	MODEL	INLET DIAMETER	COOLING MAX (CFM)	HEATING MAX (CFM)	OCCUPIED MINIMUM (CFM)	STATIC INLET (IN-WG)	MAX DISCH.	MAX RAD.	CAPACITY (BTUH)	EAT (°F)	LAT (°F)	APD (IN-WG)	FLOW (GPM)	EWT (°F)	LWT (°F)	WPD (FT-WG)	ROWS	VALVE TYPE	
VAV-A1	PRICE	SDV	6	175	88	53	1.0	31 (2)	21 (2)	3900	55	95	0.3	0.50	160	144.50	0.16	1	2-WAY	1-2
VAV-A2	PRICE	SDV	6	400	200	120	1.0	28 (2)	20 (3)	8700	55	95	0.3	0.40	160	115.90	0.03	2	2-WAY	1-2
VAV-A3	PRICE	SDV	6	175	88	53	1.0	22 (2)	--	3900	55	95	0.3	0.50	160	144.50	0.16	1	2-WAY	1-2
VAV-A4	PRICE	SDV	6	250	125	75	1.0	26 (2)	--	5500	55	95	0.3	0.21	160	108.50	0.01	2	2-WAY	1-2
VAV-A5	PRICE	SDV	6	400	200	120	1.0	28 (2)	20 (3)	8700	55	95	0.3	0.40	160	115.90	0.03	2	2-WAY	1-2
VAV-A6	PRICE	SDV	6	400	200	120	1.0	28 (2)	20 (3)	8700	55	95	0.3	0.40	160	115.90	0.03	2	2-WAY	1-2
VAV-A7	PRICE	SDV	6	320	160	96	1.0	25 (2)	--	7000	55	95	0.3	0.29	160	111.30	0.01	2	2-WAY	1-2
VAV-A8	PRICE	SDV	6	470	235	141	1.0	29 (2)	21 (3)	10300	55	95	0.3	0.51	160	119.40	0.05	2	2-WAY	1-2
VAV-A9	PRICE	SDV	10	1000	500	300	1.0	--	--	19000	55	95	0.4	1.27	160	130.00	0.13	2	2-WAY	1-2
VAV-A10	PRICE	SDV	10	640	320	192	1.0	--	--	14100	55	95	0.3	0.59	160	111.30	0.10	2	2-WAY	1-2
VAV-B1	PRICE	SDV	16	2750	1375	825	1.0	--	--	59600	55	95	0.3	3.08	160	120.50	1.08	2	2-WAY	1-2
VAV-B2	PRICE	SDV	16	2200	1100	660	1.0	--	--	47700	55	95	0.3	2.17	160	115.10	0.58	2	2-WAY	1-2
VAV-B3	PRICE	SDV	16	2200	1100	660	1.0	--	--	47700	55	95	0.3	2.17	160	115.10	0.58	2	2-WAY	1-2
VAV-B4	PRICE	SDV	16	2750	1375	825	1.0	--	--	59600	55	95	0.3	3.08	160	120.50	1.08	2	2-WAY	1-2
VAV-B5	PRICE	SDV	14	1750	875	525	1.0	--	--	38000	55	95	0.3	1.72	160	115.00	0.36	2	2-WAY	1-2
VAV-B6	PRICE	SDV	14	1750	875	525	1.0	--	--	38000	55	95	0.3	1.72	160	115.00	0.36	2	2-WAY	1-2
VAV-B7	PRICE	SDV	10	825	413	248	1.0	--	--	18000	55	95	0.3	0.83	160	115.80	0.18	2	2-WAY	1-2
VAV-B8	PRICE	SDV	6	175	88	53	1.0	22 (2)	--	39000	55	95	0.3	0.50	160	144.50	0.16	1	2-WAY	1-2
VAV-B9	PRICE	SDV	6	150	75	45	1.0	29 (2)	--	34000	55	95	0.3	0.37	160	142.10	0.09	1	2-WAY	1-2
VAV-B10	PRICE	SDV	6	350	175	105	1.0	26 (2)	--	76000	55	95	0.3	0.33	160	112.90	0.01	2	2-WAY	1-2
VAV-B11	PRICE	SDV	6	200	100	60	1.0	24 (2)	--	44000	55	95	0.3	0.69	160	147.10	0.28	1	2-WAY	1-2
VAV-B12	PRICE	SDV	12	1600	800	480	1.0	--	27	30500	55	95	0.7	1.27	160	130.30	0.54	2	2-WAY	1-2

A1

A1

A1

VAV BOX WITH HOT WATER REHEAT SCHEDULE NOTES:

1. COORDINATE LOCATION OF BOX A BOVE CEILING WITH LIGHT FIXTURES, FIRE PROTECTION, HEATING AND COOLING SYSTEM PIPING, PLUMBING SYSTEMS, AND WIRE TRAYS.
2. SEE M-700 SERIES DRAWINGS FOR TEMPERATURE CONTROLS INFORMATION.

SCHMIDT
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Project No. 2021-141.NES
Project Date 05.11.2022
Produced CSM

SARAH KATHLEEN HEMPSTEAD
NO. AR10400134

Sarah K Hempstead

#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239

KEY PLAN

FRANKLIN
TOWNSHIP CSC

NEW ELEMENTARY
SCHOOL

MECHANICAL
SCHEDULES

M-601

A1

GRAVITY VENTILATOR SCHEDULE - 23 37 23												
IDENTITY DATA					HOOD DATA			THROAT DATA				
									DIMENSIONS			
MARK	MANUFACTURER	MODEL	SYSTEM SERVED	WEIGHT (LBS)	AIRFLOW (CFM)	TSP (IN-WG)	VELOCITY (FPM)	VELOCITY (FPM)	L	W	DIA	NOTES
GI-1	GREENHECK	WIH	AHU-1	115	3,500	0.05	100	100	62"	30"	-	1,3
GI-2	GREENHECK	WIH	AHU-2	30	1,250	0.05	100	100	20"	16"	-	1,3
GI-3	GREENHECK	WIH	AHU-3	42	1,100	0.05	100	100	38"	16"	-	1,3
GI-4	GREENHECK	WIH	AHU-4	40	4300	0.05	100	100	30"	20"	-	1,3
GR-1	GREENHECK	WRH	AHU-1	73	12425	0.05	100	100	68"	14"	-	1,2
GR-2	GREENHECK	WRH	AHU-2	48	4425	0.05	100	100	50"	14"	-	1,2
GR-3	GREENHECK	WRH	AHU-3	42	3070	0.05	100	100	40"	14"	-	1,2
GR-4	GREENHECK	FGR	GYM	178	7000	0.05	100	100	66"	36"	-	1,2
GR-5	GREENHECK	FGR	GYM	178	7000	0.05	100	100	66"	36"	-	1,2

GRAVITY VENTILATOR SCHEDULE NOTES:

1. SEE DETAIL 4B ON M-502.
2. PROVIDE WITH 12" ROOF CURB.
3. PROVIDE WITH 36" ROOF CURB.

233713 DIFFUSERS, REGISTERS, AND GRILLES								
IDENTITY DATA				NECK SIZE (IN)	MODULE SIZE			
MARK	DESCRIPTION	MANUFACTURER	MODEL	Ø	W	L	MATERIAL	NOTES
EC12/12	EGG CRATE FACE RETURN	PRICE	80		12"	12"		
~~EC24/24~~	~~EGG CRATE FACE RETURN~~	~~PRICE~~	~~80~~		~~24"~~	~~24"~~		
EC24/24-FF	EGG CRATE FACE RETURN	PRICE	80FF		24"	24"		PROVIDE WITH 1" MERV 11 FILTER
RG12/8	LOUVER FACE RETURN GRILLE	PRICE	630		12"	8"		
RG12/12	LOUVER FACE RETURN GRILLE	PRICE	630		12"	12"		
RG16/16	LOUVER FACE RETURN GRILLE	PRICE	630		16"	16"		
RG18/20	LOUVER FACE RETURN GRILLE	PRICE	630		20"	18"		
RG12/12	LOUVER FACE RETURN GRILLE	PRICE	630		24"	24"		
RG24/24	LOUVER FACE RETURN GRILLE	PRICE	630		24"	24"		
SD24-6	SQUARE CONE DIFFUSER	PRICE	ASCDA	6"	24"	24"		
SD24-8	SQUARE CONE DIFFUSER	PRICE	ASCDA	8"	24"	24"		
SD24-10	SQUARE CONE DIFFUSER	PRICE	ASCDA	10"	24"	24"		
SD24-12	SQUARE CONE DIFFUSER	PRICE	ASCDA	12"	24"	24"		
SG8/6B	LOUVER FACE GRILLE SUPPLY	PRICE	21DAL		6"	8"		WITH INTEGRAL BALANCE DAMPER
SG12/6B	LOUVER FACE GRILLE SUPPLY	PRICE	21DAL		6"	12"		WITH INTEGRAL BALANCE DAMPER
SG26/34B	LOUVER FACE GRILLE SUPPLY	PRICE	21DAL		26"	34"		
SG72/50	LOUVER FACE GRILLE SUPPLY	PRICE	91		30"	72"		

A1

A1

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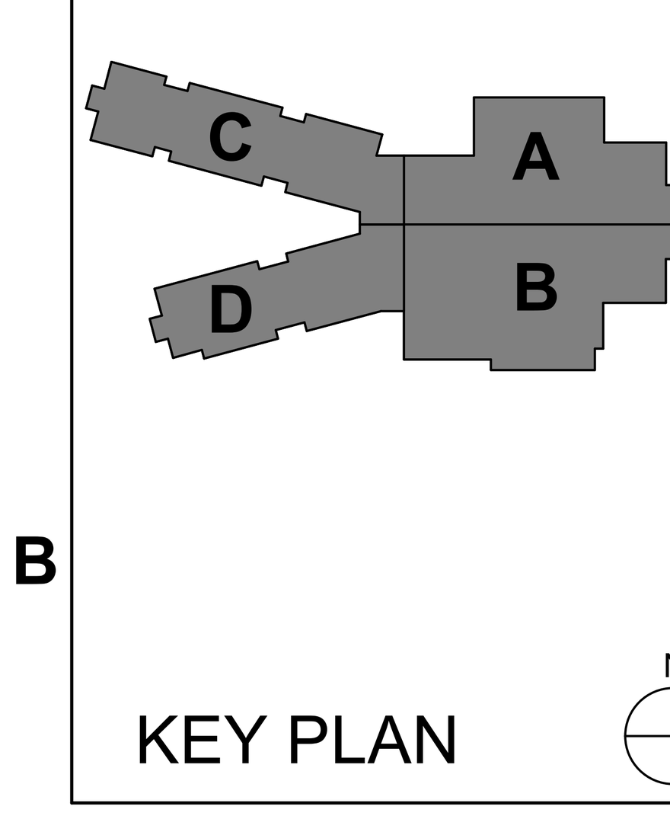
#	Revision	Date
A1	ADDENDUM #001	05/20/2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

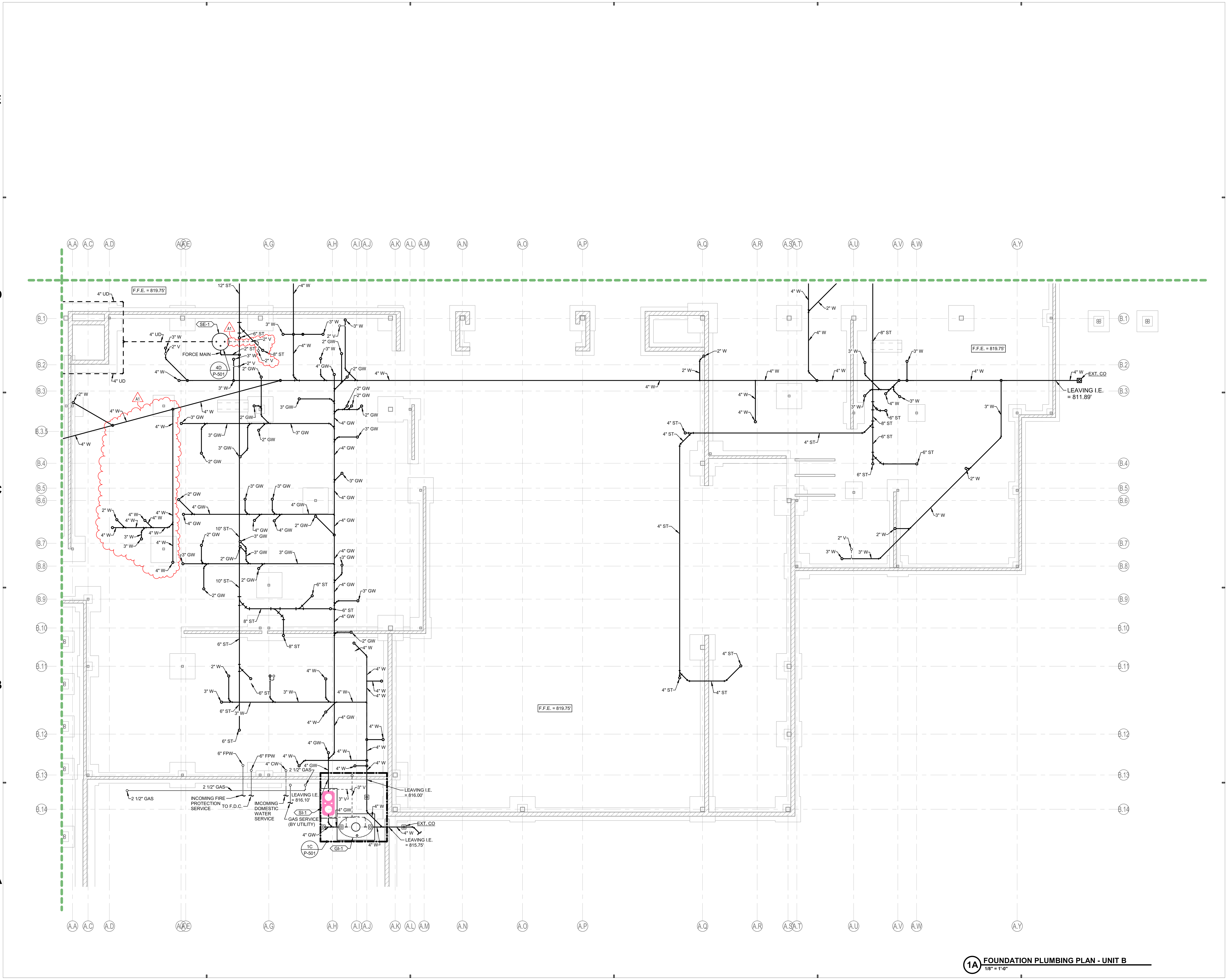
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

MECHANICAL SCHEDULES

M-603



1A FOUNDATION PLUMBING PLAN - UNIT B
1/8" = 1'-0"

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SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1	ADDENDUM #1	05.31.2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239

KEY PLAN

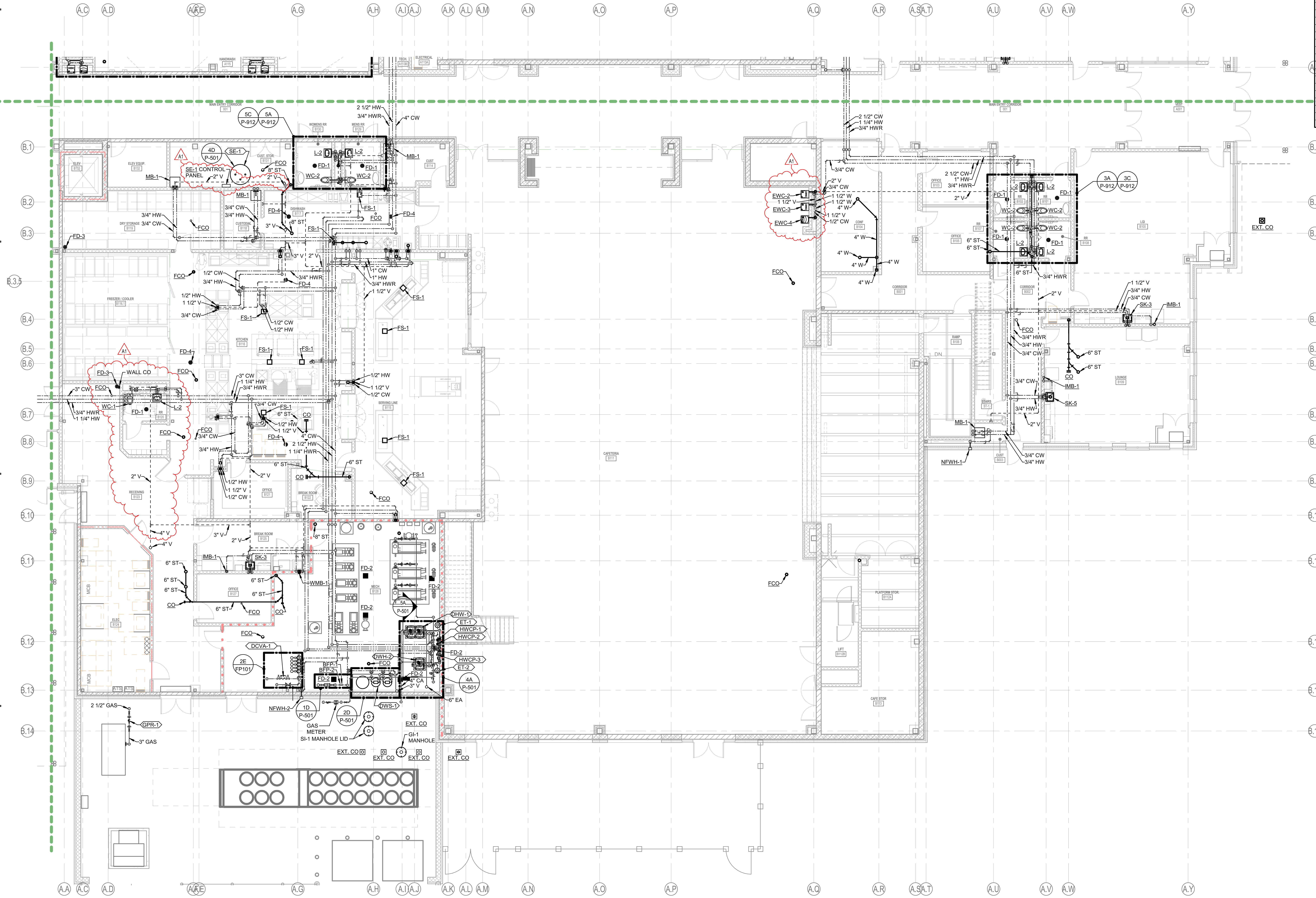
FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FOUNDATION PLUMBING PLAN - UNIT B

PF1B1

PLUMBING FIXTURE ROUGH-IN LEGEND				
	FIXTURE CONNECTION			
MARK	CW	HW	W	V
EWC-1	1/2"		1 1/2"	1 1/2"
EWC-2	3/4"		1 1/2"	1 1/2"
EWC-3	3/4"		1 1/2"	1 1/2"
EWC-4	1/2"		1 1/2"	1 1/2"
FD-1			3"	
FD-2			4"	
FD-3			2"	
FD-4			2"	
FS-1			4"	
SI-2				
L-1	1/2"	1/2"	1 1/2"	1 1/2"
L-2	1/2"	1/2"	1 1/2"	1 1/2"
L-3	1/2"	1/2"	1 1/2"	1 1/2"
L-4	1/2"	1/2"	1 1/2"	1 1/2"
HB-1	3/4"			
HB-2	3/4"			
IMB-1	1/2"			
NFWH-1	3/4"			
NFWH-2	3/4"	3/4"		
WMB-1	3/4"	3/4"	2"	1 1/2"
OFD-1			4"	
OFD-2			6"	
OFD-3			8"	
RD-1			4"	
RD-2			6"	
RD-3			8"	
MB-1	3/4"	3/4"	3"	1 1/2"
SK-1	1/2"	1/2"	1 1/2"	1 1/2"
SK-2	1/2"	1/2"	1 1/2"	1 1/2"
SK-3	1/2"	1/2"	1 1/2"	1 1/2"
SK-4	1/2"	1/2"	1 1/2"	1 1/2"
SK-5	1/2"	1/2"	1 1/2"	1 1/2"
UR-1	3/4"		2"	1 1/2"
WC-1	1"		4"	2"
WC-2	1"		4"	2"



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

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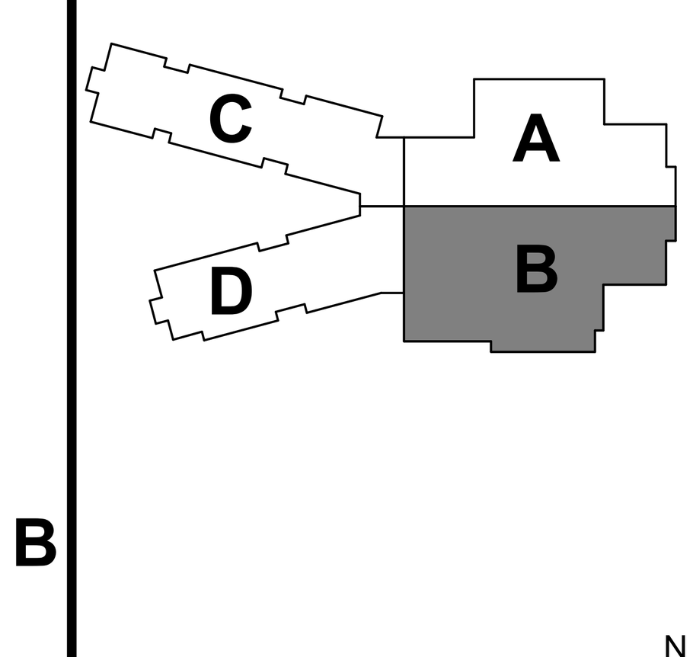

KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR PLUMBING PLAN - UNIT B

PP1B1

FUEL-FIRED, DOMESTIC WATER HEATERS										
IDENTITY DATA				PLUMBING (EACH HEATER)				ELECTRICAL (EACH HEATER)		
MARK	MANUFACTURER	MODEL	DESCRIPTION	GPH RECOVERY (GAL)	INTAKE	EXHAUST	NATURAL GAS INPUT (BTU/H)	VOLTAGE	PHASE	NOTES
DHW-1	RINNAI	#TRS04CU	(4) INSTANTANEOUS GAS-FIRED DOMESTIC WATER HEATERS (#CU199), RACK MOUNTED, PRE-PIPED HEADERS	4	2"	2"	199000	120	1	EACH HEATER TO BE CAPABLE OF INTERNAL RECIRCULATION. PROVIDE CONTROLS FOR CONNECTION TO BUILDING MANAGEMENT SYSTEM
DWH-2	RINNAI	#TRS02ILCU	(2) INSTANTANEOUS GAS-FIRED DOMESTIC WATER HEATERS (#CU199), RACK MOUNTED, PRE-PIPED HEADERS	4	2"	2"	199000	120	1	EACH HEATER TO BE CAPABLE OF INTERNAL RECIRCULATION. PROVIDE CONTROLS FOR CONNECTION TO BUILDING MANAGEMENT SYSTEM

DOMESTIC WATER SOFTENERS (223100)										
SOFTENER				BRINE TANK	CONTINUOUS (EACH)		PEAK (EACH)		ELECTRICAL	
MARK	MANUFACTURER	MODEL	DESCRIPTION	DESCRIPTION	FLOW RATE	PRESSURE DROP	FLOW RATE	PRESSURE DROP	VOLTAGE	PHASE
DWS-1	AQUASYSTEMS	(2) #500	DUAL DOMESTIC WATER SOFTENER WITH BRINE TANK	24" x 50"	53 GPM	15.00 psi	69 GPM	25.00 psi	120	1

TANK SCHEDULE					
IDENTITY DATA					
MARK	MANUFACTURER	MODEL	DESCRIPTION	CAPACITY	NOTES
ET-1	AMTROL	#ST-12-C	DOMESTIC HOT WATER EXPANSION TANK	4.4 GAL. VOLUME; .73 MAX. ACCEPTANCE VOLUME	
ET-2	AMTROL	#ST-12-C	DOMESTIC HOT WATER EXPANSION TANK	4.4 GAL. VOLUME; .73 MAX. ACCEPTANCE VOLUME	

PLUMBING EQUIPMENT SCHEDULE					
IDENTITY DATA					
MARK	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	CAPACITY
GI-1	SCHIER	#GB-500	PROCEPTOR GREASE INTERCEPTOR		
SI-1	STRIEM	#PS-275-S	SCREEN STYLE SOLIDS INTERCEPTOR		

CIRCULATION AND SUMP PUMPS									
IDENTITY DATA				PLUMBING		ELECTRICAL			
MARK	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE (GPM)	PUMP HEAD (TDH)	VOLTAGE	PHASE	RPM	HP
HWCP-1	BELL AND GOSSETT	ECOCIRC #XL 20-140	120° DOMESTIC HOT WATER CIRCULATION PUMP, STAINLESS STEEL	22	18	208	1	VARIABLE	1/2
HWCP-2	BELL AND GOSSETT	ECOCIRC #XL 20-140	120° DOMESTIC HOT WATER CIRCULATION PUMP, STAINLESS STEEL	22	18	208	1	VARIABLE	1/2
HWCP-3	BELL AND GOSSETT	ECOCIRC #XL 20-35	140° DOMESTIC HOT WATER CIRCULATION PUMP, STAINLESS STEEL	3	10	115	1	VARIABLE	1/12

EJECTOR AND WASTEWATER PITS										
	IDENTITY DATA			BASIN	PLUMBING		ELECTRICAL			
MARK	MANUFACTURER	MODEL	DESCRIPTION	ACCESSORIES	FLOW RATE (GPM)	PUMP HEAD (TDH)	VOLTAGE	PHASE	RPM	HP
SE-1	ZOELLER	MODEL #55	DUPLEX SUMP PUMP WITH CONTROL PANEL, 4'-0" (DIA.) X 10'-0" (D) FIBERGLASS BASIN	REMOVAL RAIL SYSTEM	25	13	120	1	1550	3/10

WET-PIPE SPRINKLER SYSTEMS (211313)						
IDENTITY DATA						
MARK	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	FLOW RATE	PRESSURE DROP
DCVA-1	ZURN WILKINS	#350 ADA - 6"	DOUBLE DETECTOR CHECK VALVE ASSEMBLY		1000 GPM	4.80 psi

MIXING, METERING, AND PRESSURE REDUCING VALVES (221119)					
IDENTITY DATA					
MARK	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE	PRESSURE DROP
BFP-1	ZURN WILKINS	#975XLS2 - 2"	REDUCED PRESSURE BACKFLOW PREVENTER	160 GPM	15.20 psi
BFP-2	ZURN WILKINS	#975XLS2 - 2"	REDUCED PRESSURE BACKFLOW PREVENTER	160 GPM	15.20 psi

CIRCULATION AND SUMP PUMPS									
IDENTITY DATA				PLUMBING		ELECTRICAL			
MARK	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE (GPM)	PUMP HEAD (TDH)	VOLTAGE	PHASE	RPM	HP
HWCP-1	BELL AND GOSSETT	ECOCIRC #XL 20-140	120° DOMESTIC HOT WATER CIRCULATION PUMP, STAINLESS STEEL	22	18	208	1	VARIABLE	1/2
HWCP-2	BELL AND GOSSETT	ECOCIRC #XL 20-140	120° DOMESTIC HOT WATER CIRCULATION PUMP, STAINLESS STEEL	22	18	208	1	VARIABLE	1/2
HWCP-3	BELL AND GOSSETT	ECOCIRC #XL 20-35	140° DOMESTIC HOT WATER CIRCULATION PUMP, STAINLESS STEEL	3	10	115	1	VARIABLE	1/12

DOMESTIC WATER PIPING SPECIALTIES SCHEDULE (221119)									
IDENTITY DATA				FIXTURE CONNECTION				MOUNTING	
MARK	MANUFACTURER	MODEL	DESCRIPTION	CW	HW	W	V	(FLOOR TO OUTLET)	NOTES
HB-1	ZURN	#Z1330-XL	HOSE BIB WITH RECESSED BOX	3/4"				18" A.F.F.	
HB-2	ZURN	#Z1341XL	HOSE BIBB	3/4"				24" A.F.F.	
IMB-1	GUY GRAY	#SSIB2AB	ICEMAKER OUTLET BOX	1/2"				24" A.F.F.	
NFWH-1	ZURN	#Z1320-C	NONFREEZE WALL HYDRANT WITH RECESSED BOX	3/4"				26" A.F.F	
NFWH-2	ZURN	#Z1325-VB	VARI-TEMP NONFREEZE WALL HYDRANT WITH RECESSED BOX	3/4"	3/4"			26" A.F.F	
WMB-1	IPS CORPORATION	#SSWB2	CLOTHES WASHER OUTLET BOX	3/4"	3/4"	2"	1 1/2"	42" A.F.F.	

SANITARY WASTE PIPING SPECIALTIES SCHEDULE (221319)					
IDENTITY DATA				W	
MARK	MANUFACTURER	MODEL	DESCRIPTION	CONNECTION	NOTES
FD-1	ZURN	#Z415B-ZB	DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE ROUND STRAINER HEAD, POLISHED BRONZE STRAINER	3"	TRAPGUARD BY PROSET, NO SUBSTITUTIONS
FD-2	ZURN	#Z662-DG	DUCO CAST IRON BODY WITH FLASHING COLLAR AND CAST IRON GRATE, SQUARE GRATE AND SEDIMENT BUCKET	4"	
FD-3	ZURN	#ZB415-NH WITH #ZI400I-5I STRAINER	DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE ROUND STRAINER HEAD, POLISHED BRONZE STRAINER. FLUSH WITH FLOOR FUNNEL WITH ANTI-SPLASH RIM AND GRATE	2"	TRAPGUARD BY PROSET, NO SUBSTITUTIONS
FD-4	ZURN	#Z415B-ZB	DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE ROUND STRAINER HEAD, POLISHED BRONZE STRAINER	2"	TRAPGUARD BY PROSET, NO SUBSTITUTIONS
FS-1	ZURN	#Z1901-NH-2	CAST IRON BODY, PORCELAIN ENAMELED, 1/2 GRATE AND DOME STRAINER	4"	
SI-2	STRIEM	SIDEKICK	POINT OF USE SOLIDS INTERCEPTOR		

STORM DRAINAGE PIPING SPECIALTIES SCHEDULE (221423)					
IDENTITY DATA				W	
MARK	MANUFACTURER	MODEL	DESCRIPTION	CONNECTION	NOTES
OFD-1	ZURN	#ZC100-C-EA-R-89	DUCO CAST IRON BODY, FLASHING CLAMP AND CAST IRON WATER DAM	4"	
OFD-2	ZURN	#ZC100-C-EA-R-89	DUCO CAST IRON BODY, FLASHING CLAMP AND CAST IRON WATER DAM	6"	
OFD-3	ZURN	#ZC100-C-EA-R-89	DUCO CAST IRON BODY, FLASHING CLAMP AND CAST IRON WATER DAM	8"	
RD-1	ZURN	#ZC100-C-EA-R	DUCO CAST IRON BODY WITH FLASHING CLAMP AND CAST IRON DOME	4"	
RD-2	ZURN	#ZC100-C-EA-R	DUCO CAST IRON BODY WITH FLASHING CLAMP AND CAST IRON DOME	6"	
RD-3	ZURN	#ZC100-C-EA-R	DUCO CAST IRON BODY WITH FLASHING CLAMP AND CAST IRON DOME	8"	

COMMERCIAL WATER CLOSET SCHEDULE (224213.13)														
IDENTITY DATA				FLUSHOMETER					FIXTURE CONNECTION			MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	GPF	TOILET SEAT	CW	W	V	(FLOOR TO RIM)	COMPLIANT	NOTES
WC-1	AMERICAN STANDARD	#2257.101	WALL-MOUNTED, TOP SPUD, ACCESSIBLE WATER CLOSET			MANUAL	1.6	CLOSED BACK, OPEN FRONT	1"	4"	2"	14"	Yes	
WC-2	AMERICAN STANDARD	#2257.101	WALL-MOUNTED, TOP SPUD, ACCESSIBLE WATER CLOSET	SLOAN	REGAL #111-1.6	MANUAL	1.6	CLOSED BACK, OPEN FRONT	1"	4"	2"	17"	Yes	

COMMERCIAL URINAL SCHEDULE (224213.16)													
FIXTURE				FLUSHOMETER				FIXTURE CONNECTION			MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	GPF	CW	W	V	(FLOOR TO RIM)	COMPLIANT	NOTES
UR-1	AMERICAN STANDARD	#6590.001	WALL-HUNG, BACK OUTLET, WASHOUT, ACCESSIBLE	SLOAN	REGAL #186-0.5	MANUAL	0.5	3/4"	2"	1 1/2"	14"	Yes	

COMMERCIAL LAVATORY SCHEDULE (224216.13)														
FIXTURE				FAUCET				FIXTURE CONNECTION				MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	GPM	CW	HW	W	V	(FLOOR TO RIM)	COMPLIANT	NOTES
L-1	N/A	N/A	SOLID SURFACE COUNTER WITH BOWL BY INTERIORS	CHICAGO FAUCET	#404-HZE70ABCP	MANUAL	0.5	1/2"	1/2"	1 1/2"	1 1/2"	COUNTER MOUNTED		
L-2	AMERICAN STANDARD	#0356.015	VITREOUS CHINA, WALL MOUNTED, WITH BACK					1/2"	1/2"	1 1/2"	1 1/2"	34"	Yes	
L-3	AMERICAN STANDARD	#0356.015	VITREOUS CHINA, WALL MOUNTED, WITH BACK	CHICAGO FAUCET	#404-HZE70ABCP	MANUAL	0.5	1/2"	1/2"	1 1/2"	1 1/2"	30"	Yes	
L-4	AMERICAN STANDARD	#0356.015	VITREOUS CHINA, WALL MOUNTED, WITH BACK	CHICAGO FAUCET	#404-HZE70ABCP	MANUAL	0.5	1/2"	1/2"	1 1/2"	1 1/2"	24"	Yes	

COMMERCIAL SINK SCHEDULE (224216.16)														
IDENTITY DATA				TRIM				FIXTURE CONNECTION					ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	GPM	CW	HW	W	V	MOUNTING	COMPLIANT	NOTES
MB-1	ZURN	#Z1996-24	MOLDED STONE, FLOOR MOUNTED (RECESSED) MOP BASIN	CHICAGO FAUCET	#540-LD897SCP	MANUAL	2.2	3/4"	3/4"	3"	1 1/2"	FLOOR MOUNTED		
SK-1	ELKAY	#LRAD221955	STAINLESS STEEL, ONE BOWL, COUNTER MOUNTED SINK	CHICAGO FAUCET	#786-HR8AE3V317XKAB	MANUAL	2.2	1/2"	1/2"	1 1/2"	1 1/2"	COUNTER MOUNTED	Yes	
SK-2	ELKAY	#LR2219	STAINLESS STEEL, ONE BOWL, COUNTER MOUNTED SINK	CHICAGO FAUCET	#201-AHA8XKABCP	MANUAL	2.2	1/2"	1/2"	1 1/2"	1 1/2"	COUNTER MOUNTED	No	
SK-3	ELKAY	#LR2219	STAINLESS STEEL, ONE BOWL, COUNTER MOUNTED SINK	CHICAGO FAUCET	#201-AHA8XKABCP	MANUAL	2.2	1/2"	1/2"	1 1/2"	1 1/2"	COUNTER MOUNTED	No	
SK-4	ELKAY	#DLR312210	STAINLESS STEEL, ONE BOWL, COUNTER MOUNTED SINK	CHICAGO FAUCET	#786-HR8AE3V317XKAB	MANUAL	2.2	1/2"	1/2"	1 1/2"	1 1/2"	COUNTER MOUNTED	No	
SK-5	ELKAY	#LR2219	STAINLESS STEEL, ONE BOWL, COUNTER MOUNTED SINK	CHICAGO FAUCET	#200-AHA8ABCP	MANUAL	2.2	1/2"	1/2"	1 1/2"	1 1/2"	COUNTER MOUNTED	Yes	PROVIDE GARBAGE DISPOSER EQUAL TO INSINKERATOR #BADGER 1

PRESSURE WATER COOLER SCHEDULE (224716)									
IDENTITY DATA				FIXTURE CONNECTION			MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	CW	W	V	(FLOOR TO BUBBLER)	COMPLIANT	NOTES
EWC-1	HALSEY TAYLOR	#HVR-WF LR	ELECTRIC WATER COOLER, WALL-MOUNTED	1/2"	1 1/2"	1 1/2"	41" A.F.F.	No	
EWC-2	HALSEY TAYLOR	#HTHB-HVRGRN8-WF	ELECTRIC WATER COOLER WITH BOTTLE FILLER (FILTERED), STAINLESS STEEL, VANDAL RESISTANT	3/4"	1 1/2"	1 1/2"	34" A.F.F.	Yes	
EWC-3	HALSEY TAYLOR	#HTHB-HVRGRN8-WF	ELECTRIC WATER COOLER WITH BOTTLE FILLER (FILTERED), STAINLESS STEEL, VANDAL RESISTANT	3/4"	1 1/2"	1 1/2"	26" A.F.F	Yes	
EWC-4	HALSEY TAYLOR	#HVR-WF LR	ELECTRIC WATER COOLER, WALL-MOUNTED, STAINLESS STEEL, VANDAL RESISTANT	1/2"	1 1/2"	1 1/2"	26" A.F.F.	No	

WATER HAMMER ARRESTER (221119)						
MARK	IPS	F.U. RATING	J.R. SMITH NO.	WADE NO.	ZURN NO.	REMARKS
A	3/4"	1-11	5005	W-5	100	P.D.I. CERTIFIED
B	1"	12-32	5010	W-10	200	P.D.I. CERTIFIED
C	1"	33-60	5020	W-20	300	P.D.I. CERTIFIED
D	1"	61-113	5030	W-50	400	P.D.I. CERTIFIED
E	1"	114-154	5040	W-75	500	P.D.I. CERTIFIED

SCHMIDT ASSOCIATES
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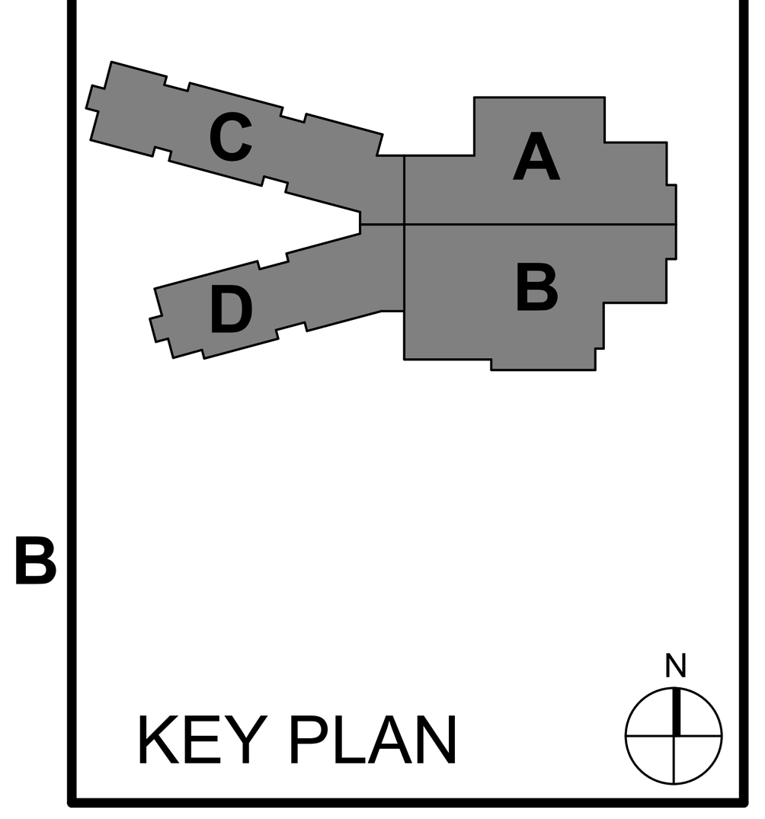
Project No. 2021-141.NES
Project Date 05.11.2022
Produced JH / EP / KAV

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	ADDENDUM #1	05.31.2022

5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

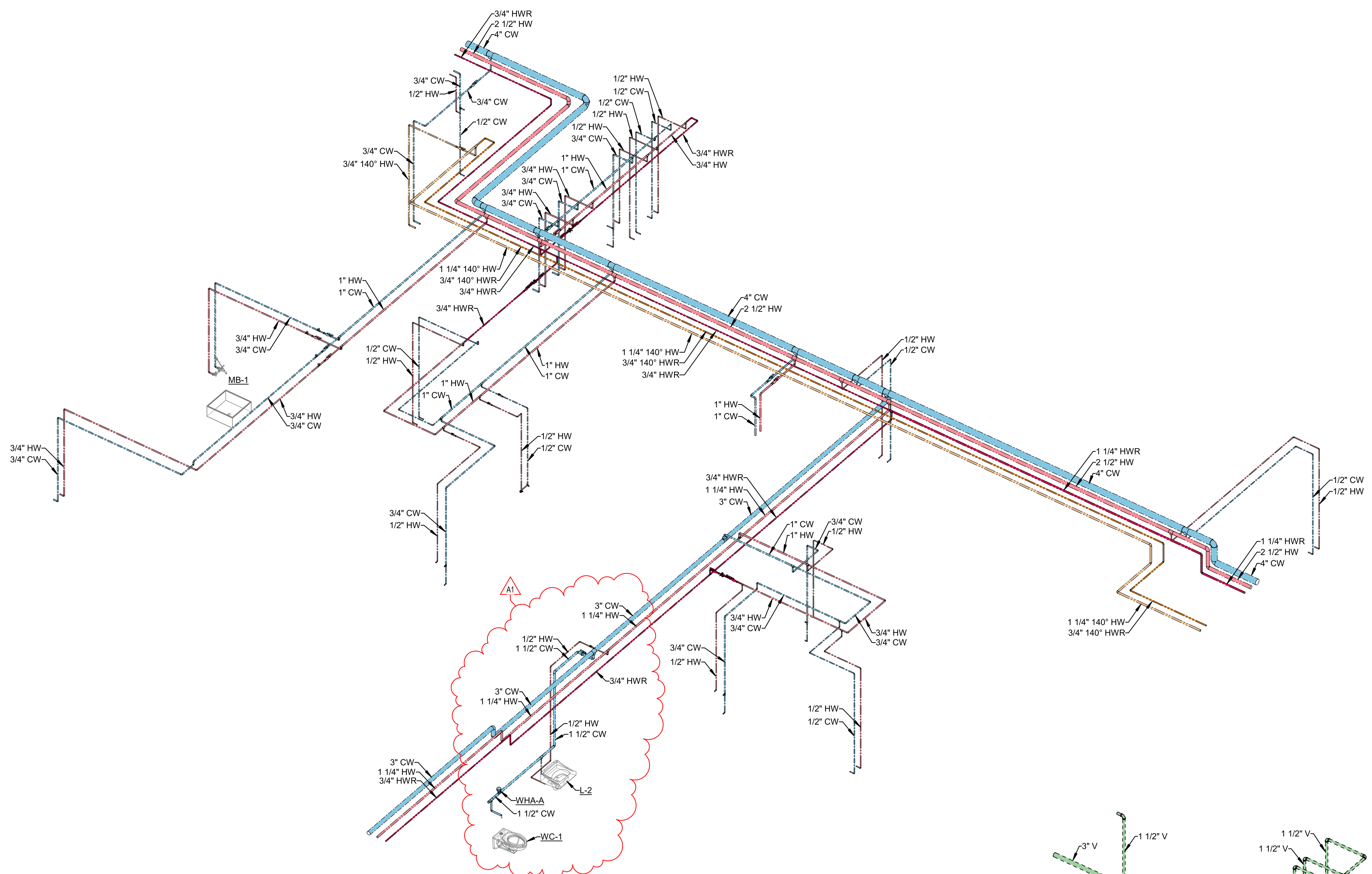
Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

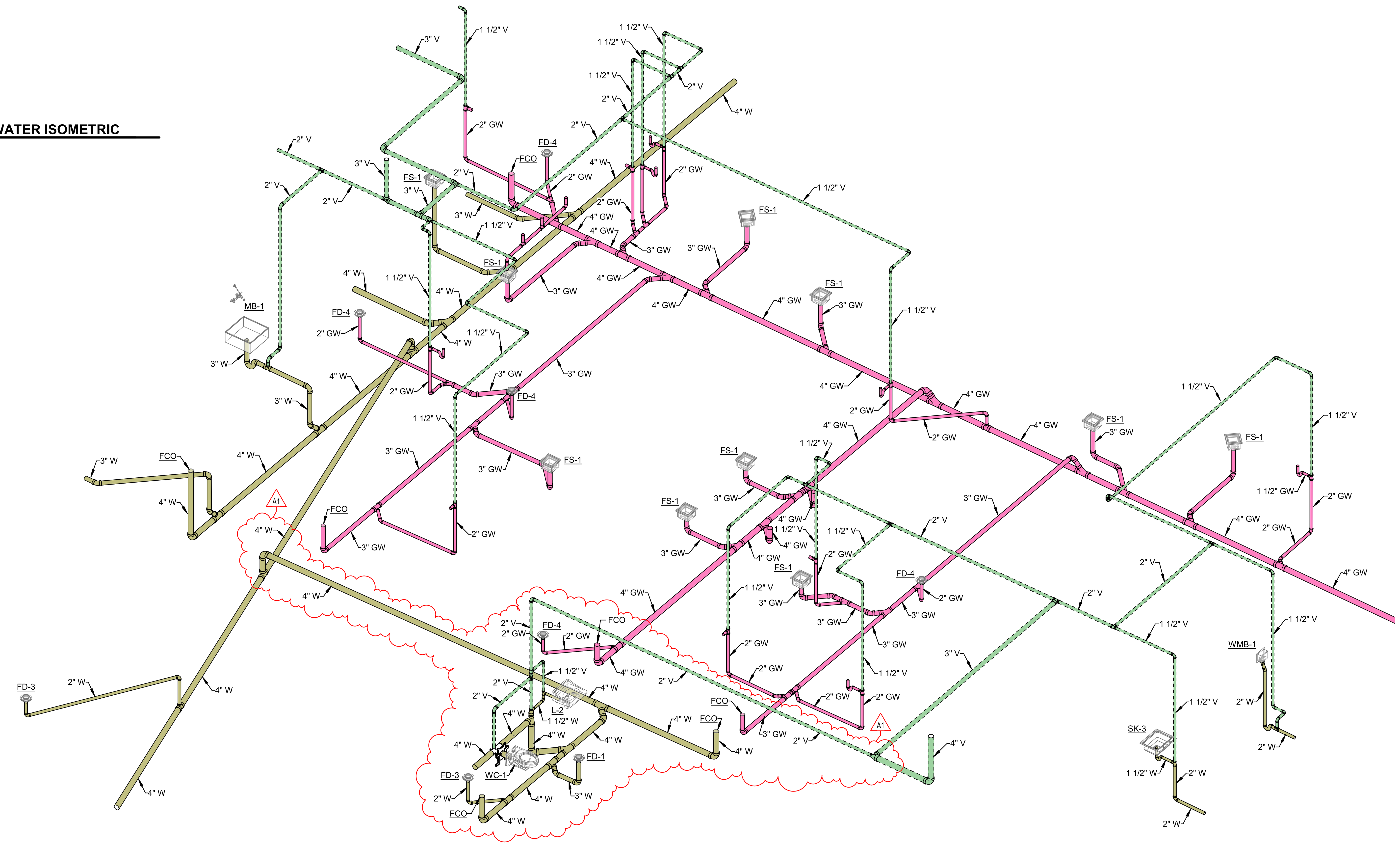
PLUMBING SCHEDULES

P-601

PLUMBING FIXTURE ROUGH-IN LEGEND				
	FIXTURE CONNECTION			
MARK	CW	HW	W	V
EWC-1	1/2"		1 1/2"	1 1/2"
EWC-2	3/4"		1 1/2"	1 1/2"
EWC-3	3/4"		1 1/2"	1 1/2"
EWC-4	1/2"		1 1/2"	1 1/2"
FD-1			3"	
FD-2			4"	
FD-3			2"	
FD-4			2"	
FS-1			4"	
SI-2				
L-1	1/2"	1/2"	1 1/2"	1 1/2"
L-2	1/2"	1/2"	1 1/2"	1 1/2"
L-3	1/2"	1/2"	1 1/2"	1 1/2"
L-4	1/2"	1/2"	1 1/2"	1 1/2"
HB-1	3/4"			
HB-2	3/4"			
IMB-1	1/2"			
NFWH-1	3/4"			
NFWH-2	3/4"	3/4"		
WMB-1	3/4"	3/4"	2"	1 1/2"
OFD-1			4"	
OFD-2			6"	
OFD-3			8"	
RD-1			4"	
RD-2			6"	
RD-3			8"	
MB-1	3/4"	3/4"	3"	1 1/2"
SK-1	1/2"	1/2"	1 1/2"	1 1/2"
SK-2	1/2"	1/2"	1 1/2"	1 1/2"
SK-3	1/2"	1/2"	1 1/2"	1 1/2"
SK-4	1/2"	1/2"	1 1/2"	1 1/2"
SK-5	1/2"	1/2"	1 1/2"	1 1/2"
UR-1	3/4"		2"	1 1/2"
WC-1	1"		4"	2"
WC-2	1"		4"	2"



4D KITCHEN DOMESTIC WATER ISOMETRIC
NOT TO SCALE



2A KITCHEN WASTE AND VENT ISOMETRIC
NOT TO SCALE

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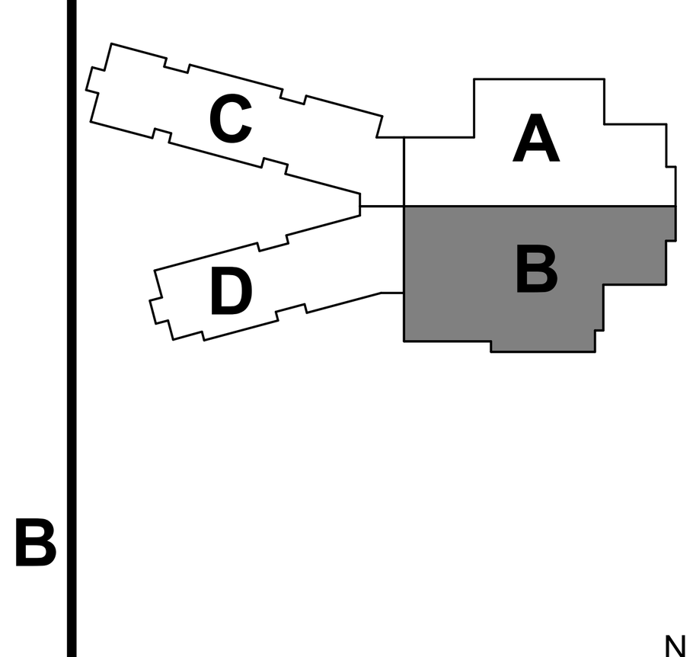
5120 SENOUR ROAD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

KITCHEN ISOMETRICS - UNIT B

P-913

LOCAL UTILITY CONTACT INFORMATION

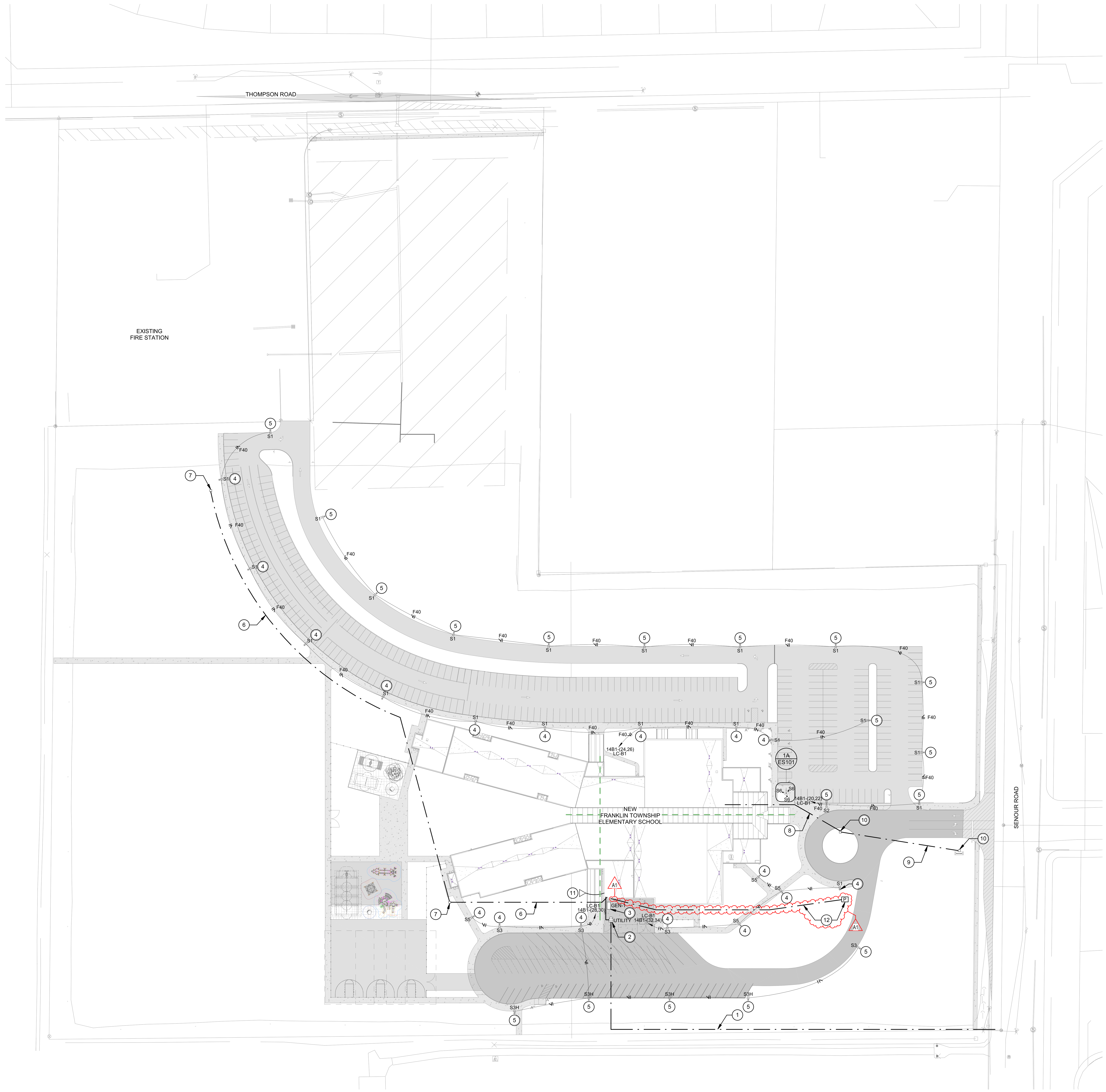
- AUSTIN McMILLAN
- austin.mcmillan@aes.com
- 317-261-8006
- AES INDIANA

GENERAL SITE NOTES

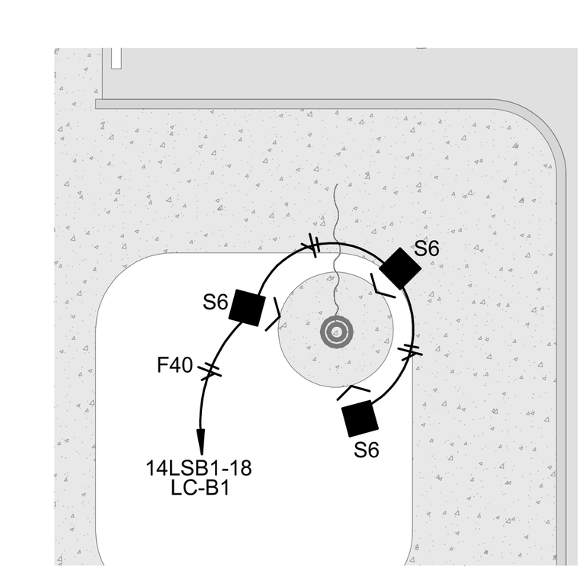
#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	REFER TO LOCAL UTILITIES GUIDE FOR DETAILS AND REQUIREMENTS. INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC. INCLUDE ALL UTILITY FEES REQUIRED IN BID.

SITE PLAN NOTES

#	NOTES
1	PRIMARY UNDERGROUND FEEDER BY AES INDIANA TO UTILITY TRANSFORMER BY AES INDIANA. ROUTING SHOWN IS DIAGRAMMATIC. COORDINATE FINAL ROUTING WITH SITE CONDITIONS.
2	UTILITY TRANSFORMER AND PAD BY AES INDIANA. PROVIDE SECONDARY FEEDER BETWEEN TRANSFORMER AND MAIN SWITCHBOARD IN BUILDING. COORDINATE LOCATION OF SECONDARY WITH AES INDIANA.
3	EMERGENCY BACK-UP GENERATOR AND PAD BY DIVISION 26. REFER TO ONE-LINE DIAGRAM AND POWER PLAN THIS AREA.
4	PROVIDE POLE BASE FOR FIXTURE 6" ABOVE FINISHED GRADE. REFER TO E-500 SERIES DRAWINGS FOR DETAIL.
5	PROVIDE POLE BASE FOR FIXTURE 42" ABOVE FINISHED GRADE. REFER TO E-500 SERIES DRAWINGS FOR DETAIL.
6	PROVIDE 4" PVC CONDUIT WITH PULL STRING FROM MAIN ELECTRICAL ROOM TO QUAZITE BOX AT NORTHWEST SIDE OF SITE FOR FUTURE POWER NEEDS. REFER TO POWER PLANS.
7	IN-GROUND QUAZITE BOX. STUB-UP UP CONDUIT AND PULL STRING FROM MAIN ELECTRICAL ROOM INSIDE QUAZITE BOX AND CAP CONDUIT BELOW GRADE.
8	PROVIDE 2 1/2" PVC CONDUIT WITH PULL STRING FROM UNIT A STORAGE ROOM TO QUAZITE BOX IN ISLAND OF TRAFFIC CIRCLE FOR FUTURE POWER NEEDS. REFER TO POWER PLANS.
9	PROVIDE 2 1/2" PVC CONDUIT WITH PULL STRING FROM UNIT A STORAGE ROOM TO QUAZITE BOX ON SOUTH SIDE OF SENOUR ROAD ENTRANCE FOR FUTURE POWER NEEDS. REFER TO POWER PLANS.
10	IN-GROUND QUAZITE BOX. STUB-UP UP CONDUIT AND PULL STRING FROM UNIT A STORAGE ROOM INSIDE QUAZITE BOX AND CAP CONDUIT BELOW GRADE.
11	GROUNDING TRIANGLE. REFER TO GROUNDING DETAILS ON E-500 LEVEL SHEETS FOR DETAILS.
12	INSTALL (1) 1" PVC CONDUIT FOR FIRE ALARM SYSTEM CONNECTION TO POST INDICATOR VALVE (PIV). LOCATE MONITORING MODULE IN MAIN ELECTRICAL ROOM B124. INSTALL WIRING FROM PIV TO MODULE. COORDINATE PIV LOCATION WITH C-SERIES DRAWINGS.



2A SITE PLAN
1" = 60'-0"



1A SITE PLAN - FLAG POLE LIGHTING DETAIL
1" = 10'-0"

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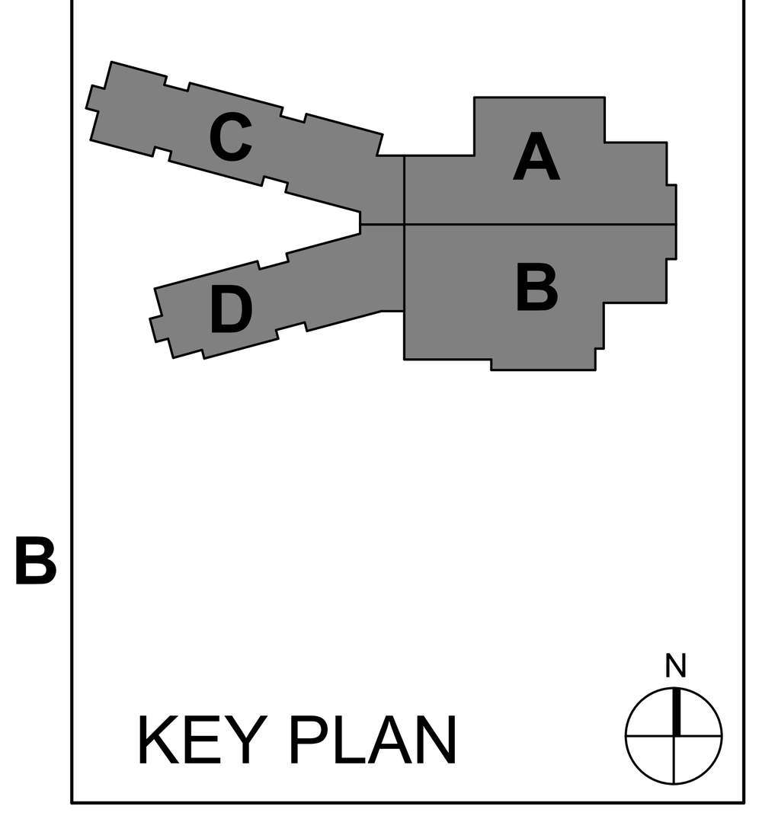
#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SITE PLAN

ES101

LOCAL UTILITY CONTACT INFORMATION
- AUSTIN McMILLAN
- austin.mcmillan@aes.com
- 317-261-8006
- AES INDIANA

GENERAL SITE NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	REFER TO LOCAL UTILITIES GUIDE FOR DETAILS AND REQUIREMENTS. INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC. INCLUDE ALL UTILITY FEES REQUIRED IN BID.

SITE PLAN NOTES

#	NOTES
1	PRIMARY UNDERGROUND FEEDER BY AES INDIANA TO UTILITY TRANSFORMER BY AES INDIANA. ROUTING SHOWN IS DIAGRAMMATIC. COORDINATE FINAL ROUTING WITH SITE CONDITIONS.
2	UTILITY TRANSFORMER AND PAD BY AES INDIANA. PROVIDE SECONDARY FEEDER BETWEEN TRANSFORMER AND MAIN SWITCHBOARD IN BUILDING. COORDINATE LOCATION OF SECONDARY WITH AES INDIANA.
3	EMERGENCY BACK-UP GENERATOR AND PAD BY DIVISION 26. REFER TO ONE-LINE DIAGRAM AND POWER PLAN THIS AREA.
4	PROVIDE POLE BASE FOR FIXTURE 6" ABOVE FINISHED GRADE. REFER TO E-500 SERIES DRAWINGS FOR DETAIL.
5	PROVIDE POLE BASE FOR FIXTURE 42" ABOVE FINISHED GRADE. REFER TO E-500 SERIES DRAWINGS FOR DETAIL.
6	PROVIDE 4" PVC CONDUIT WITH PULL STRING FROM MAIN ELECTRICAL ROOM TO QUAZITE BOX AT NORTHWEST SIDE OF SITE FOR FUTURE POWER NEEDS. REFER TO POWER PLANS.
7	IN-GROUND QUAZITE BOX. STUB-UP UP CONDUIT AND PULL STRING FROM MAIN ELECTRICAL ROOM INSIDE QUAZITE BOX AND CAP CONDUIT BELOW GRADE.
8	PROVIDE 2 1/2" PVC CONDUIT WITH PULL STRING FROM UNIT A STORAGE ROOM TO QUAZITE BOX IN ISLAND OF TRAFFIC CIRCLE FOR FUTURE POWER NEEDS. REFER TO POWER PLANS.
9	PROVIDE 2 1/2" PVC CONDUIT WITH PULL STRING FROM UNIT A STORAGE ROOM TO QUAZITE BOX ON SOUTH SIDE OF SENOUR ROAD ENTRANCE FOR FUTURE POWER NEEDS. REFER TO POWER PLANS.
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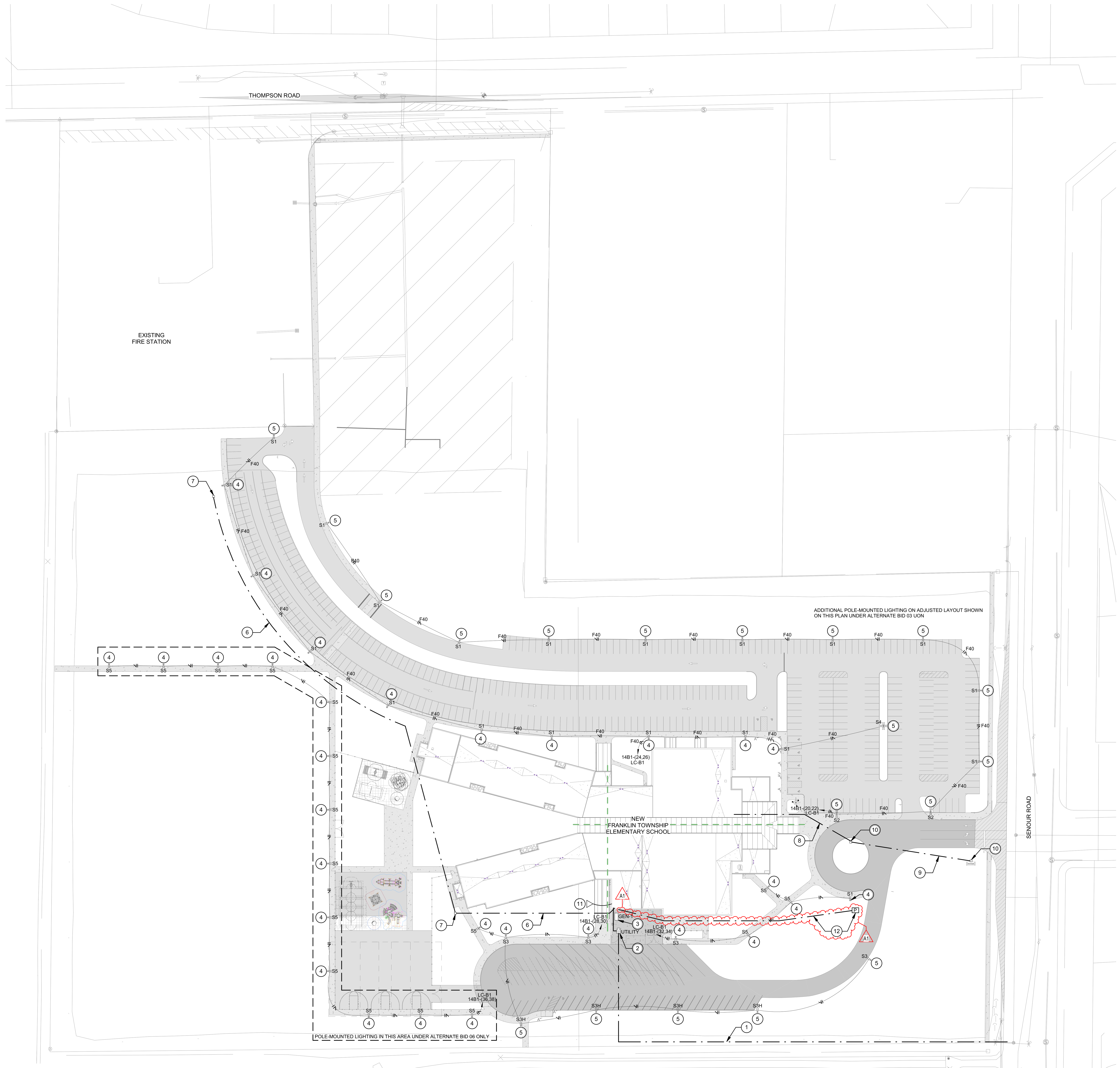
11	GROUNDING TRIANGLE. REFER TO GROUNDING DETAILS ON E-500 LEVEL SHEETS FOR DETAILS.
12	INSTALL (1) 1" PVC CONDUIT FOR FIRE ALARM SYSTEM CONNECTION TO POST INDICATOR VALVE (PIV). LOCATE MONITORING MODULE IN MAIN ELECTRICAL ROOM B124. INSTALL WIRING FROM PIV TO MODULE. COORDINATE PIV LOCATION WITH C-SERIES DRAWINGS.



2A SITE PLAN ALTERNATE
1" = 60'-0"

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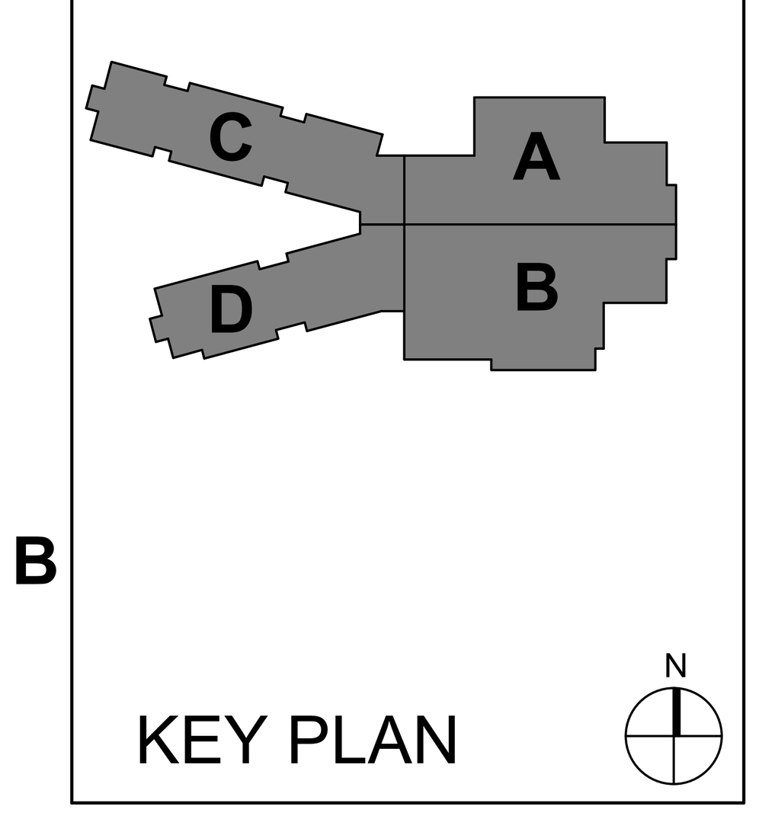

KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SITE PLAN ALTERNATE

ES102

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

GENERAL LIGHTING NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES

#	NOTES
1	INSTALL SUSPENDED FIXTURES +9'-0" A.F.F. TO BOTTOM OF FIXTURE IN THIS SPACE UON.
2	INSTALL SUSPENDED FIXTURES +10'-0" A.F.F. TO BOTTOM OF FIXTURE IN THIS SPACE UON.
3	INSTALL LIGHT FIXTURES WITH BOTTOM OF FIXTURE AT BOTTOM OF JOIST, FOLLOWING SLOPE OF JOIST.
4	INSTALL WALL-MOUNTED FIXTURES +7'-0" A.F.F. TO C.L. OF FIXTURE IN THIS SPACE UON.
5	INSTALL FIXTURE CENTERED VERTICALLY ON MULLION APPROXIMATELY AT +11'-1" TO C.L. ROUTE MC CABLE THROUGH THE MULLIONS TO THE FIXTURE.
6	PROVIDE LIGHT FIXTURES IN ELEVATOR PIT. COORDINATE LOCATIONS WITH ELEVATOR MANUFACTURER. LOCATE LIGHT SWITCH IN ELEVATOR HOISTWAY ADJACENT TO LADDER ON FIRST FLOOR.
7	INSTALL WALL-MOUNTED FIXTURE +10'-0" A.F.F. TO C.L. OF FIXTURE.
8	INSTALL FIXTURE UNDER STAIR LANDING.
9	REFER TO SECOND FLOOR LIGHTING PLAN IN THIS SPACE FOR CEILING LIGHT FIXTURES AND/OR OCCUPANCY SENSORS IN THIS SPACE.
10	REFER TO FIRST FLOOR LIGHTING PLAN IN THIS SPACE FOR WALL MOUNTED CONTROLS FOR LIGHTING IN THIS SPACE.
11	REFER TO FIRST FLOOR LIGHTING PLAN IN THIS SPACE FOR WALL MOUNTED LIGHT FIXTURES CONTROLLED BY HIGH BAY OCCUPANCY SENSORS SHOWN IN THIS SPACE.
12	INSTALL WALL-MOUNTED FIXTURES +14'-6" A.F.F. TO C.L. OF FIXTURE IN THIS SPACE UON, EXCLUDING EXIT SIGNS.

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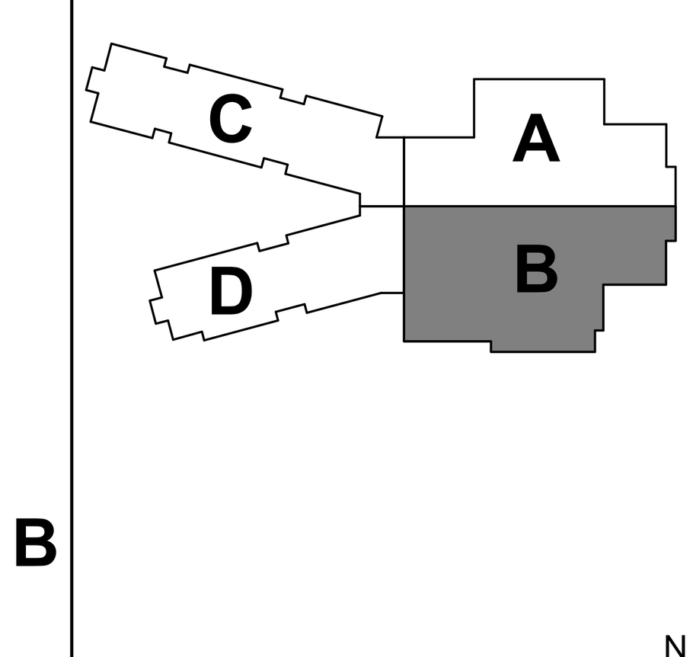


KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR LIGHTING PLAN - UNIT B

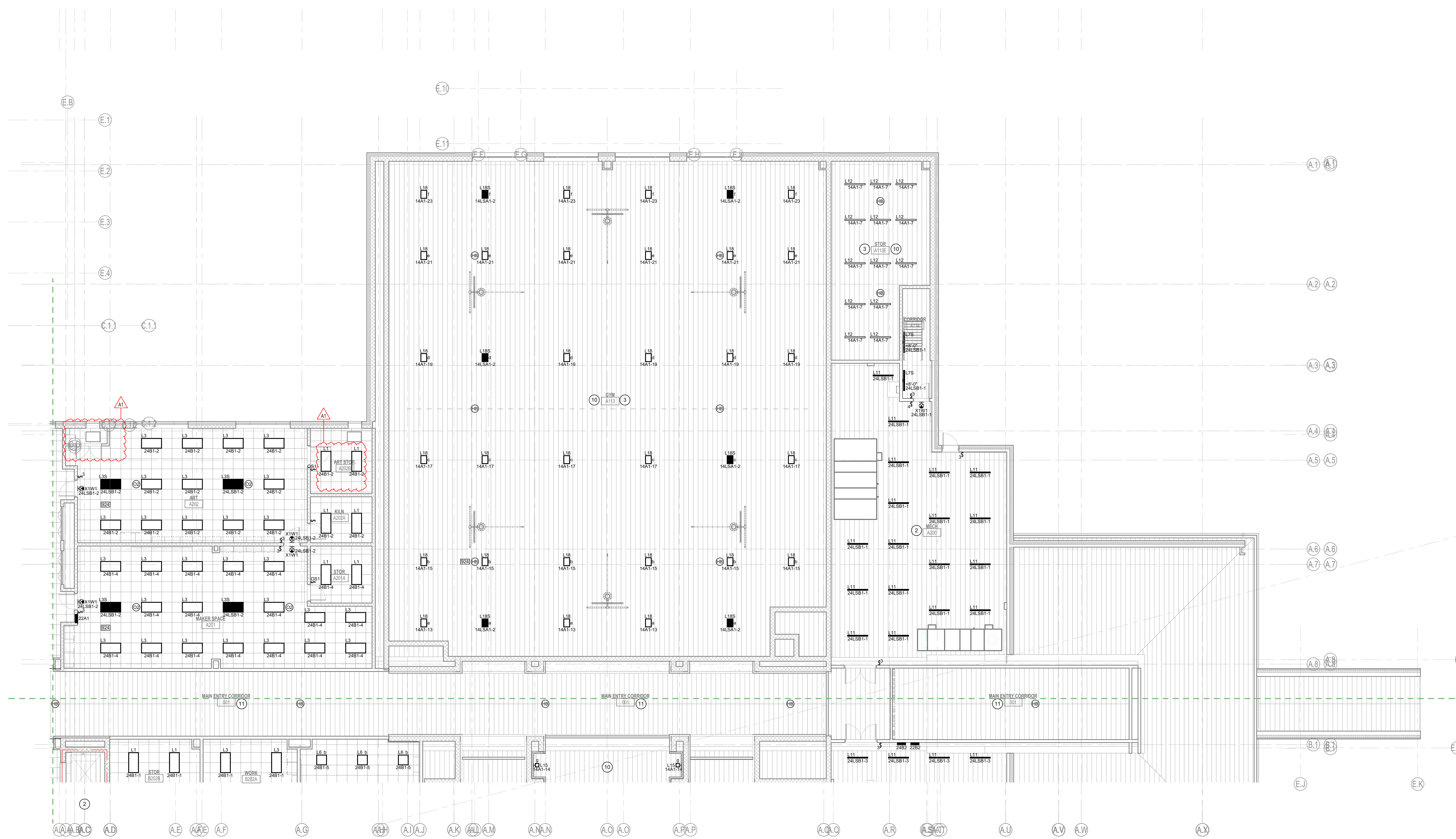
EL1B1

GENERAL LIGHTING NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES

#	NOTES
1	INSTALL SUSPENDED FIXTURES +9'-0" A.F.F. TO BOTTOM OF FIXTURE IN THIS SPACE UON.
2	INSTALL SUSPENDED FIXTURES +10'-0" A.F.F. TO BOTTOM OF FIXTURE IN THIS SPACE UON.
3	INSTALL LIGHT FIXTURES WITH BOTTOM OF FIXTURE AT BOTTOM OF JOIST, FOLLOWING SLOPE OF JOIST.
4	INSTALL WALL-MOUNTED FIXTURES +7'-0" A.F.F. TO C.L. OF FIXTURE IN THIS SPACE UON.
5	INSTALL FIXTURE CENTERED VERTICALLY ON MULLION APPROXIMATELY AT +11'-1" TO C.L. ROUTE MC CABLE THROUGH THE MULLIONS TO THE FIXTURE.
6	PROVIDE LIGHT FIXTURES IN ELEVATOR PIT. COORDINATE LOCATIONS WITH ELEVATOR MANUFACTURER. LOCATE LIGHT SWITCH IN ELEVATOR HOISTWAY ADJACENT TO LADDER ON FIRST FLOOR.
7	INSTALL WALL-MOUNTED FIXTURE +10'-0" A.F.F. TO C.L. OF FIXTURE.
8	INSTALL FIXTURE UNDER STAIR LANDING.
9	REFER TO SECOND FLOOR LIGHTING PLAN IN THIS SPACE FOR CEILING LIGHT FIXTURES AND/OR OCCUPANCY SENSORS IN THIS SPACE.
10	REFER TO FIRST FLOOR LIGHTING PLAN IN THIS SPACE FOR WALL MOUNTED CONTROLS FOR LIGHTING IN THIS SPACE.
11	REFER TO FIRST FLOOR LIGHTING PLAN IN THIS SPACE FOR WALL MOUNTED LIGHT FIXTURES CONTROLLED BY HIGH BAY OCCUPANCY SENSORS SHOWN IN THIS SPACE.
12	INSTALL WALL-MOUNTED FIXTURES +14'-6" A.F.F. TO C.L. OF FIXTURE IN THIS SPACE UON, EXCLUDING EXIT SIGNS.



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

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SARAH KATHLEEN HEMPSTEAD
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NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
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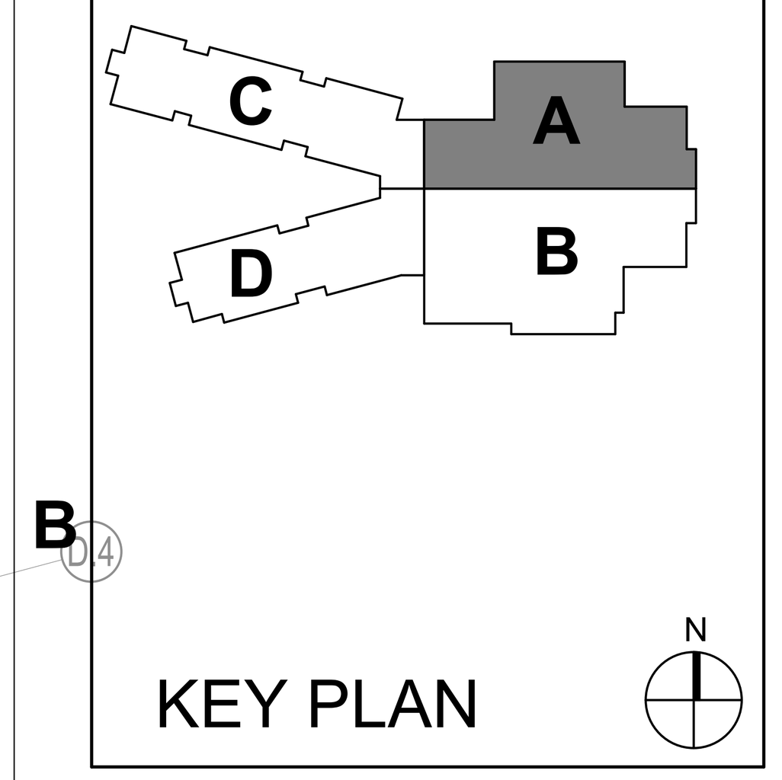
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

SECOND FLOOR LIGHTING PLAN - UNIT A

EL1A2

GENERAL LIGHTING NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES

#	NOTES
1	INSTALL SUSPENDED FIXTURES +9'-0" A.F.F. TO BOTTOM OF FIXTURE IN THIS SPACE UON.
2	INSTALL SUSPENDED FIXTURES +10'-0" A.F.F. TO BOTTOM OF FIXTURE IN THIS SPACE UON.
3	INSTALL LIGHT FIXTURES WITH BOTTOM OF FIXTURE AT BOTTOM OF JOIST, FOLLOWING SLOPE OF JOIST.
4	INSTALL WALL-MOUNTED FIXTURES +7'-0" A.F.F. TO C.L. OF FIXTURE IN THIS SPACE UON.
5	INSTALL FIXTURE CENTERED VERTICALLY ON MULLION APPROXIMATELY AT +11'-1" TO C.L. ROUTE MC CABLE THROUGH THE MULLIONS TO THE FIXTURE.
6	PROVIDE LIGHT FIXTURES IN ELEVATOR PIT. COORDINATE LOCATIONS WITH ELEVATOR MANUFACTURER. LOCATE LIGHT SWITCH IN ELEVATOR HOISTWAY ADJACENT TO LADDER ON FIRST FLOOR.
7	INSTALL WALL-MOUNTED FIXTURE +10'-0" A.F.F. TO C.L. OF FIXTURE.
8	INSTALL FIXTURE UNDER STAIR LANDING.
9	REFER TO SECOND FLOOR LIGHTING PLAN IN THIS SPACE FOR CEILING LIGHT FIXTURES AND/OR OCCUPANCY SENSORS IN THIS SPACE.
10	REFER TO FIRST FLOOR LIGHTING PLAN IN THIS SPACE FOR WALL MOUNTED CONTROLS FOR LIGHTING IN THIS SPACE.
11	REFER TO FIRST FLOOR LIGHTING PLAN IN THIS SPACE FOR WALL MOUNTED LIGHT FIXTURES CONTROLLED BY HIGH BAY OCCUPANCY SENSORS SHOWN IN THIS SPACE.
12	INSTALL WALL-MOUNTED FIXTURES +14'-6" A.F.F. TO C.L. OF FIXTURE IN THIS SPACE UON, EXCLUDING EXIT SIGNS.

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

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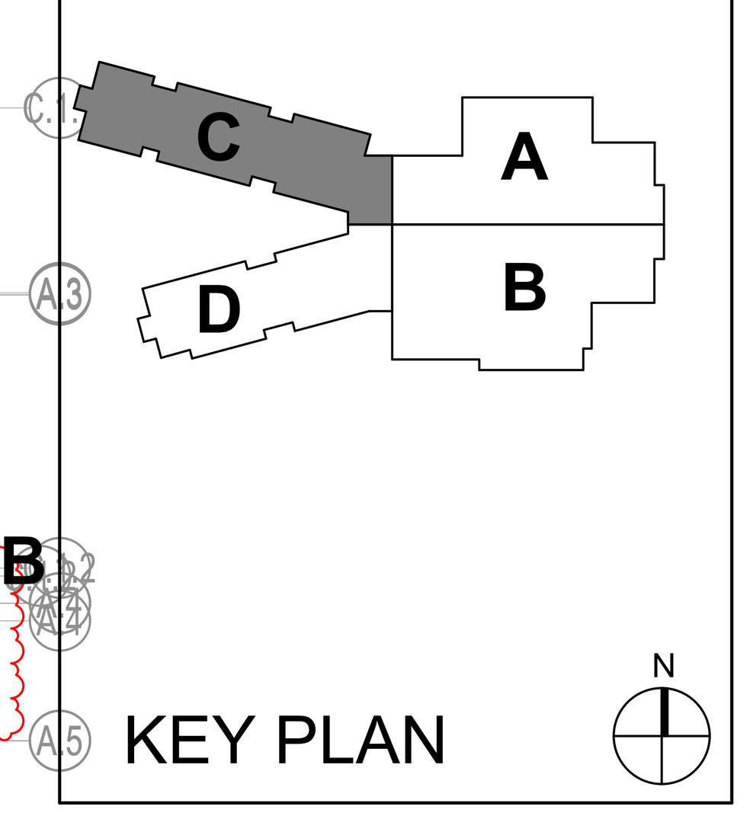
Project Date 05.11.2022
Produced EAG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

SECOND FLOOR LIGHTING PLAN - UNIT C

EL1C2

GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

POWER PLAN NOTES

#	NOTES
1	RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER PRIOR TO INSTALLATION. CIRCUIT PROTECTED BY GFCI BREAKER.
2	RECEPTACLE FOR REFRIGERATOR AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
3	RECEPTACLE FOR MICROWAVE OVEN. COORDINATE LOCATION WITH A-SERIES AND I-SERIES DRAWINGS.
4	RECEPTACLE FOR COPIER AT +36" A.F.F. TO C.L.
5	NEMA 6-20 RECEPTACLE FOR COPIER AT +36" A.F.F. TO C.L.
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7	RECEPTACLE FOR PROJECTOR LOCATED ON CEILING. COORDINATE LOCATION WITH T-SERIES DRAWINGS.
8	MANUFACTURER FURNISHED CONTROL SWITCH INSTALLED BY DIVISION 26. PROVIDE CIRCUIT. PROVIDE WIRING BETWEEN SWITCH AND PROJECTION SCREEN PER MANUFACTURER'S INSTRUCTIONS. REFER TO T-SERIES DRAWINGS FOR MORE INFORMATION.
9	RECEPTACLE FOR DISPLAY MONITOR ('TV'). COORDINATE LOCATION WITH T-SERIES DRAWINGS.
10	QUADRUPLEX RECEPTACLE FOR SOUND RACK. COORDINATE WITH T-SERIES DRAWINGS.
11	DISCONNECT SWITCH FOR BASKETBALL GOAL ELECTRIC HOIST. CONNECT COMPLETE TO HOIST RELAY BOX AND MOTOR. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION. REFER TO FIRST FLOOR PLAN FOR LOCATION OF RELAY BOX.
12	CIRCUIT CONNECTION FOR ADA DOOR OPERATOR. PROVIDE ALL CONDUIT AND WIRING FOR CONNECTION OF PUSH PADS TO MOTOR. COORDINATE PUSH PAD LOCATIONS WITH A-SERIES DRAWINGS.
13	PROVIDE CIRCUIT AND CONNECT TO MANUFACTURER PROVIDED DISCONNECT SWITCH.
14	PROVIDE CIRCUIT CONNECTION TO BOILER PUMP FROM BOILER.
15	NEMA 14-30R FOR DRYER AT +36" A.F.F. TO C.L.
16	RECEPTACLE FOR WASHER AT +36" A.F.F. TO C.L.
17	RECEPTACLE FOR WATER SOFTENER. COORDINATE LOCATION WITH P-SERIES DRAWINGS.
18	PROVIDE FLOOR-TO-CEILING SUPPORTED UNISTRUT RACK FOR THE MOUNTING OF ELECTRICAL EQUIPMENT SUPPORTING MECHANICAL EQUIPMENT.
19	MAIN ELECTRICAL GROUNDING BAR. REFER TO GROUNDING AND BONDING SCHEMATIC FOR ADDITIONAL INFORMATION.
20	PROVIDE (1) 4" PVC CONDUIT WITH PULL STRING FROM MAIN ELECTRICAL ROOM TO QUAZITE BOX AT NORTHWEST SIDE OF SITE FOR FUTURE POWER NEEDS. REFER TO SITE PLANS.
21	PROVIDE(1) 2-1/2" PVC CONDUIT WITH PULL STRING FROM UNIT A STORAGE ROOM TO QUAZITE BOX IN ISLAND OF TRAFFIC CIRCLE FOR FUTURE POWER NEEDS. REFER TO SITE PLANS.
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23	BASKETBALL GOAL HOIST KEYPAD AND RELAY BOX FURNISHED BY MANUFACTURER, INSTALLED BY DIV. 26. PROVIDE 120V, 30A/ 1P BRANCH CIRCUIT TO BASKETBALL HOIST RELAY BOX. PROVIDE WIRING BETWEEN CONTROLLER, KEYPAD, AND HOIST MOTOR PER MANUFACTURER'S INSTRUCTIONS. REFER TO DETAIL SHEET FOR MORE INFORMATION. REFER TO 2ND FLOOR PLAN FOR BRANCH CIRCUIT INFORMATION ON EACH HOIST MOTOR.
24	RECEPTACLE AND CONTROLS OUTLET FOR SCOREBOARD. INSTALL CONTROL WIRING TO LOCATION INDICATED ON BLEACHERS. COORDINATE MOUNTING HEIGHT WITH A-SEIES AND MANUFACTURER RECOMMENDATION.
25	12"X12"X6" JUNCTION BOX FOR MOTORIZED BLEACHERS. INSTALL BOX AT 5'-0" A.F.F. TO C.L. INSTALL IN LOCATION AS RECOMMENDED BY BLEACHER MANUFACTURER. CONTACTORS AND CONTROLLERS ARE PROVIDED, INSTALLED AND WIRED BY THE MANUFACTURER. INSTALL (1) 3/4"C BETWEEN JUNCTION BOX AND ADJACENT DISCONNECT SWITCH. CONNECT COMPLETE.
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31	MOUNT NEMA 6-30 RECEPTACLE ON TELECOM RACK AT +18" A.F.F. TO C.L.
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33	DISCONNECT SWITCH FOR SPLIT SYSTEM FAN COIL UNIT. REFER TO ROOF PLANS FOR LOCATION OF CORRESPONDING CONDENSING UNIT.
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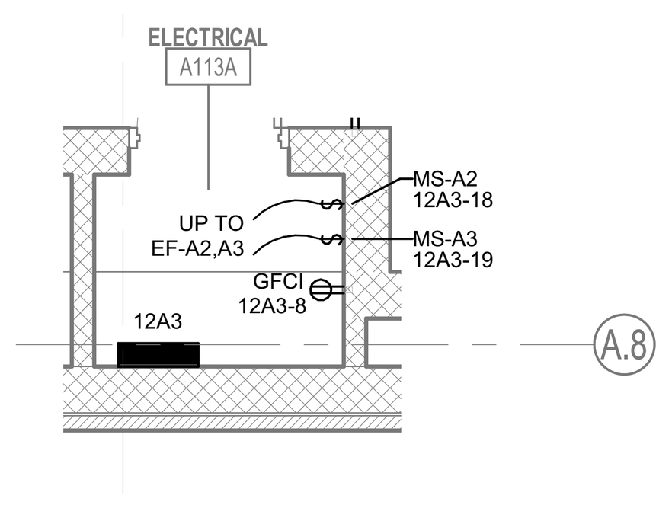
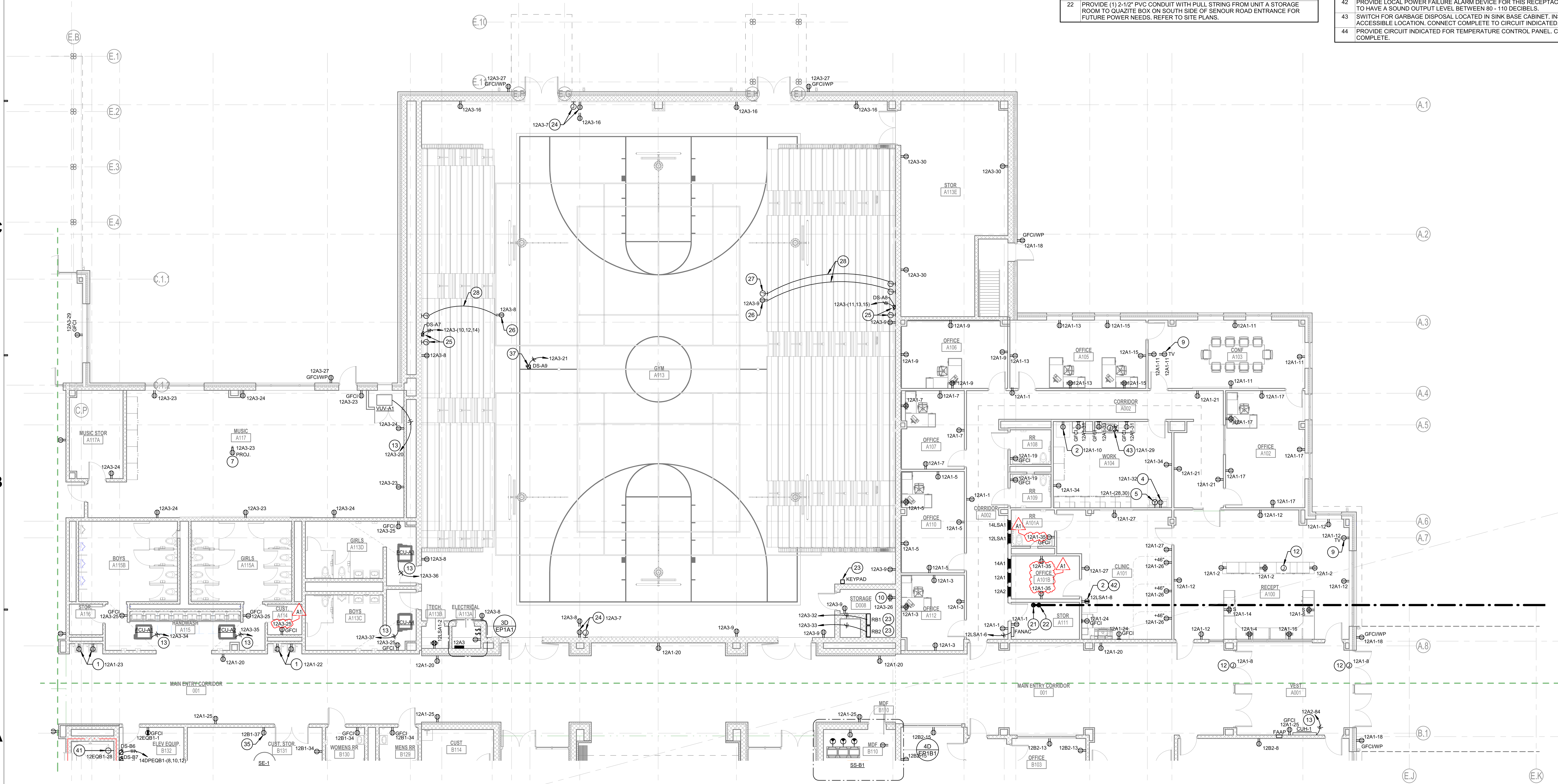


3D ENLARGED POWER PLAN - A113A ELEC
1/4" = 1'-0"



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

SCHMIDT
ASSOCIATES
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Indianapolis, IN 46204
www.schmidt-arch.com

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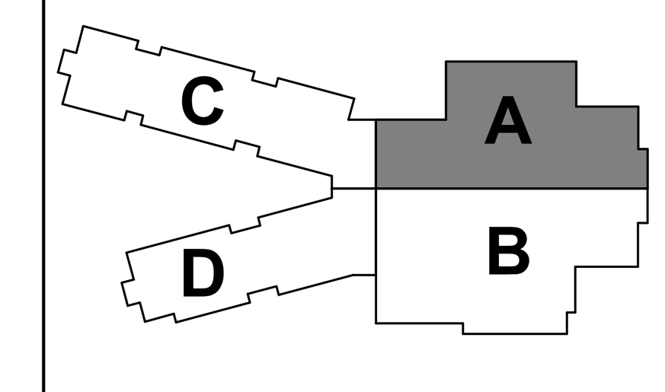


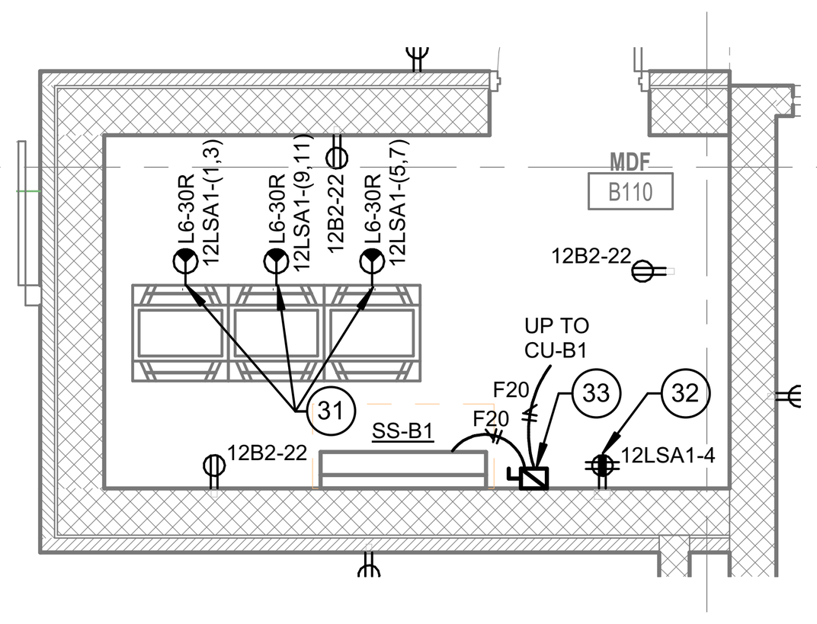
KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR POWER PLAN - UNIT A

EP1A1



4D ENLARGED POWER PLAN - MDF B110
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GENERAL POWER NOTES

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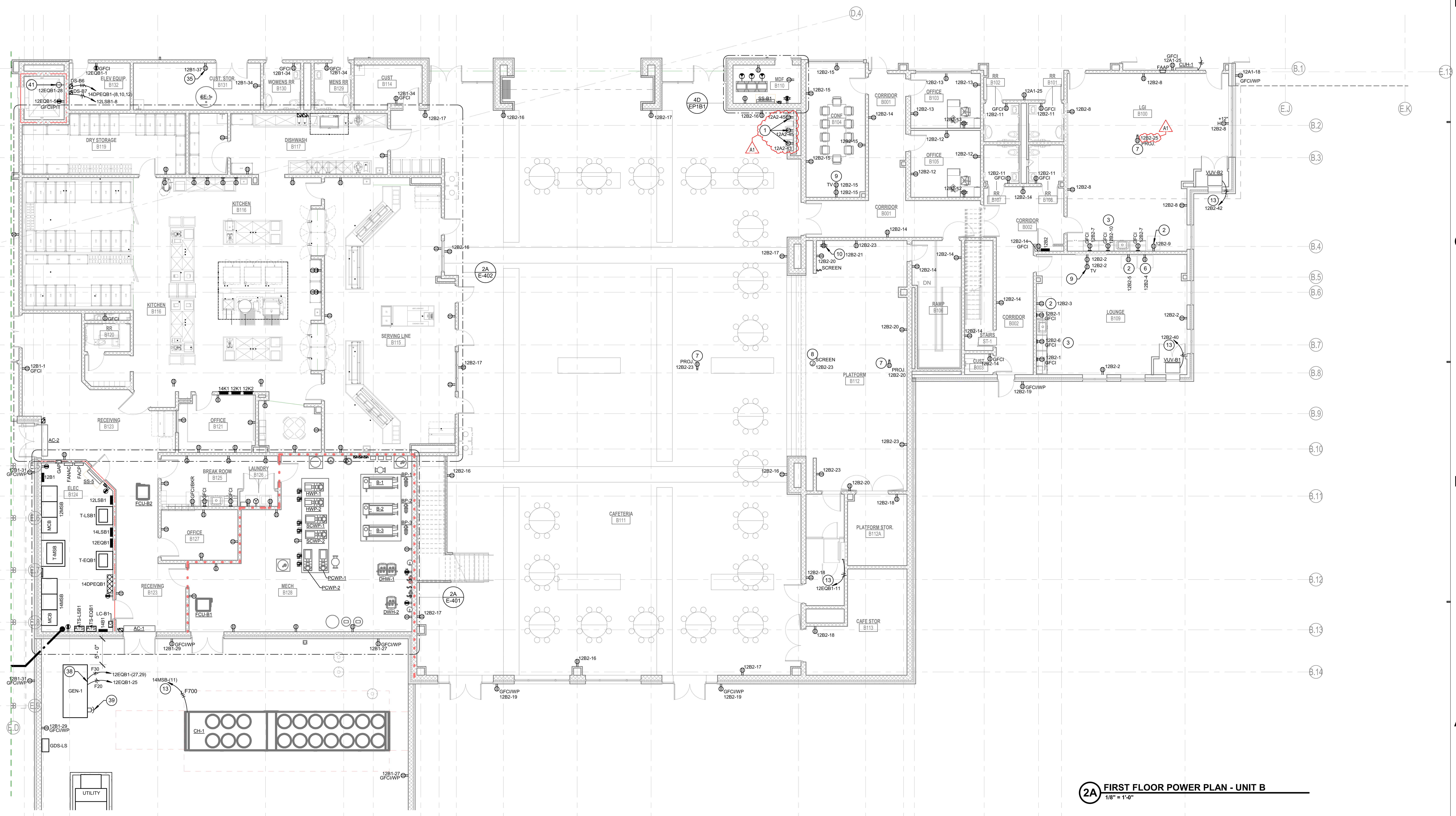

2A FIRST FLOOR POWER PLAN - UNIT B
1/8" = 1'-0"

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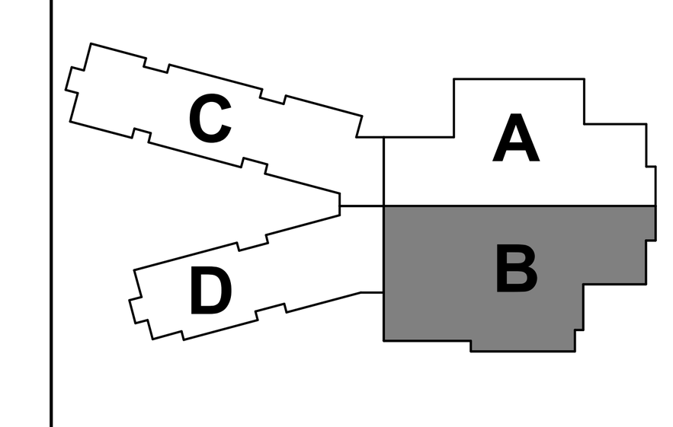


KEY PLAN

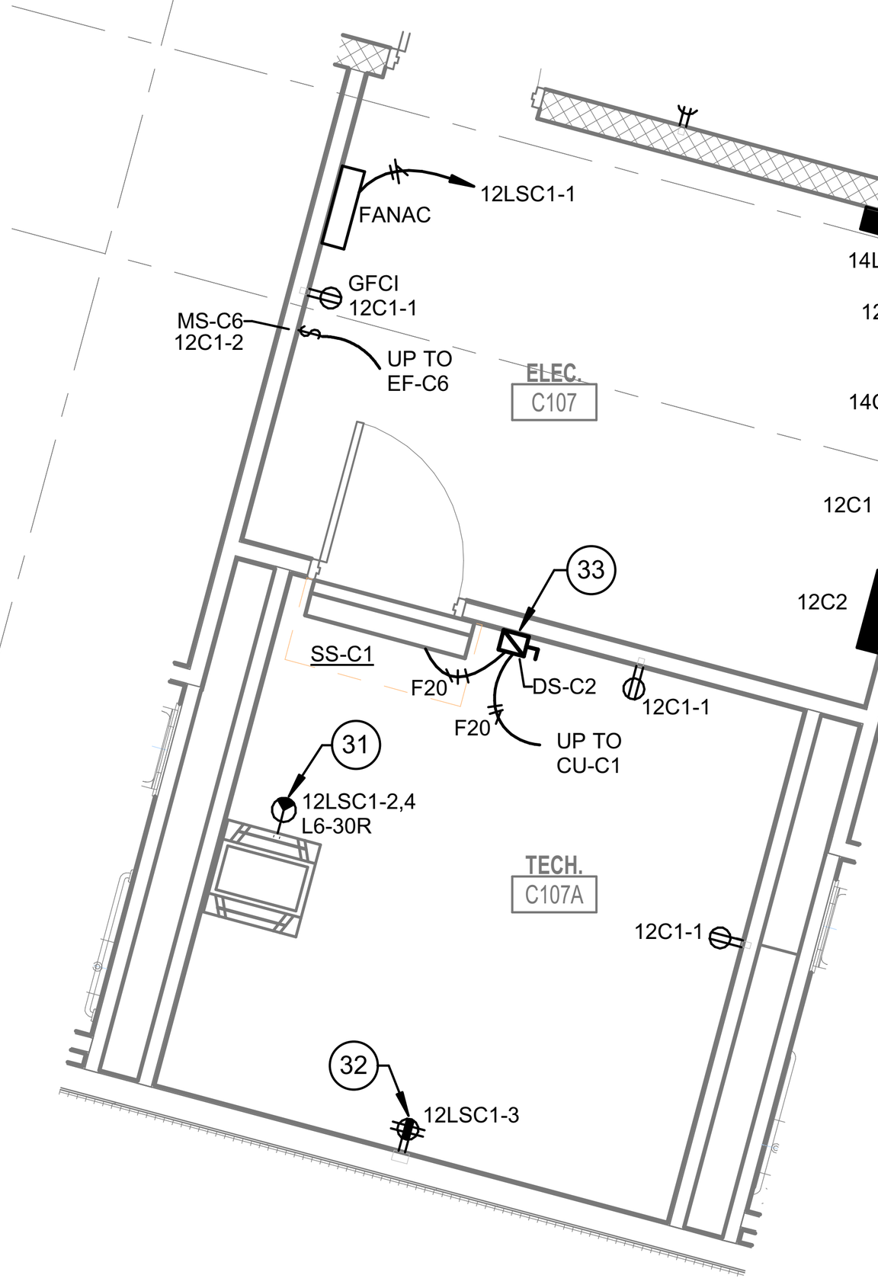
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

FIRST FLOOR POWER PLAN - UNIT B

EP1B1



3D ENLARGED POWER PLAN - C107/C107A ELEC/IDF
1/4" = 1'-0"

GENERAL POWER NOTES

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POWER PLAN NOTES

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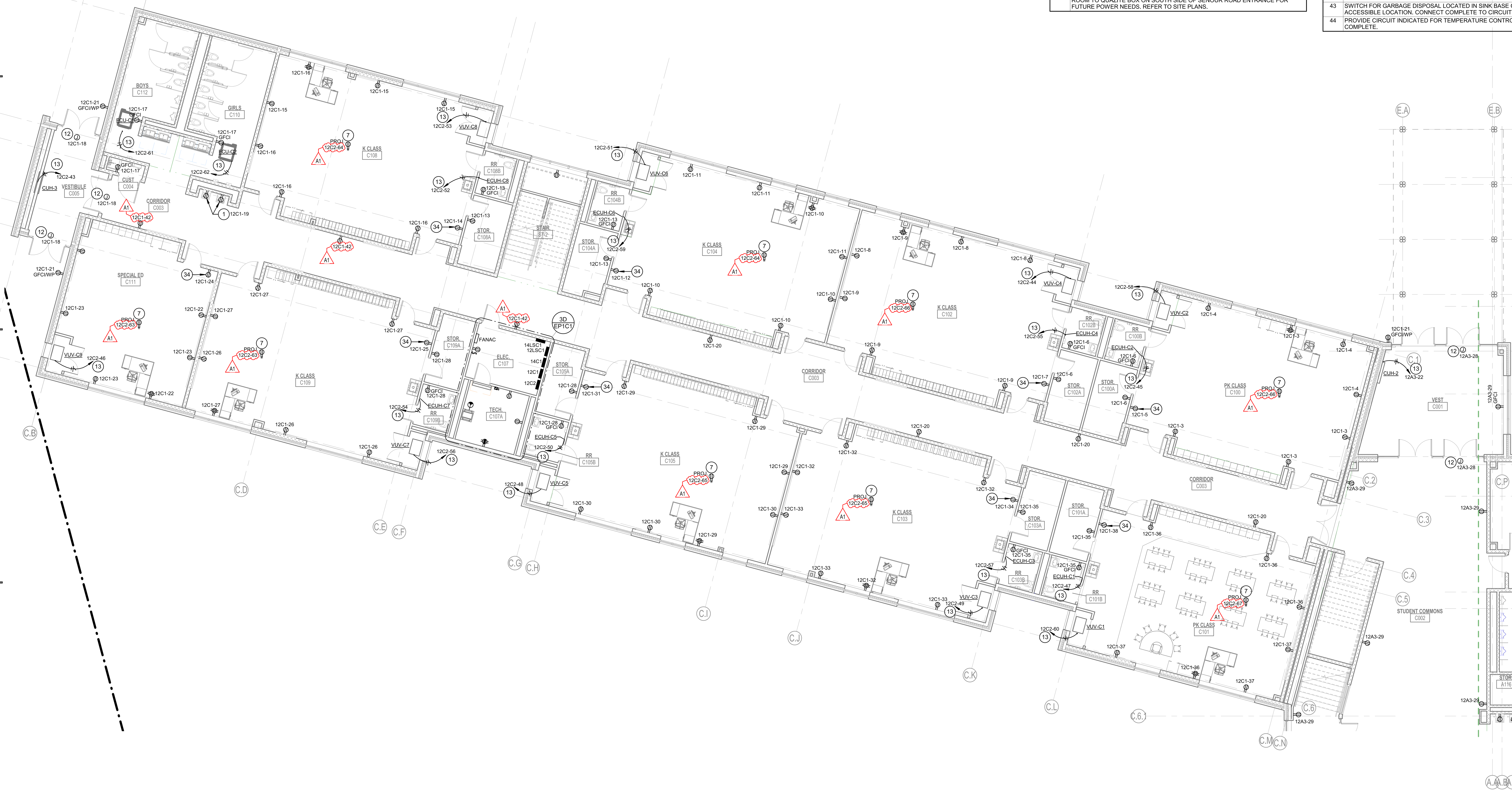

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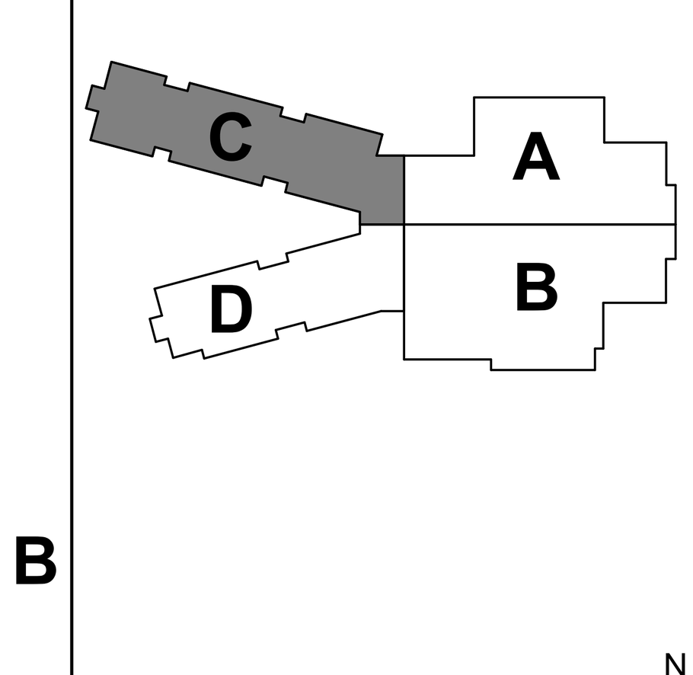
Project No. 2021-141.NES
Project Date 05.11.2022
Produced BLM

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
INDIANAPOLIS, IN 46239



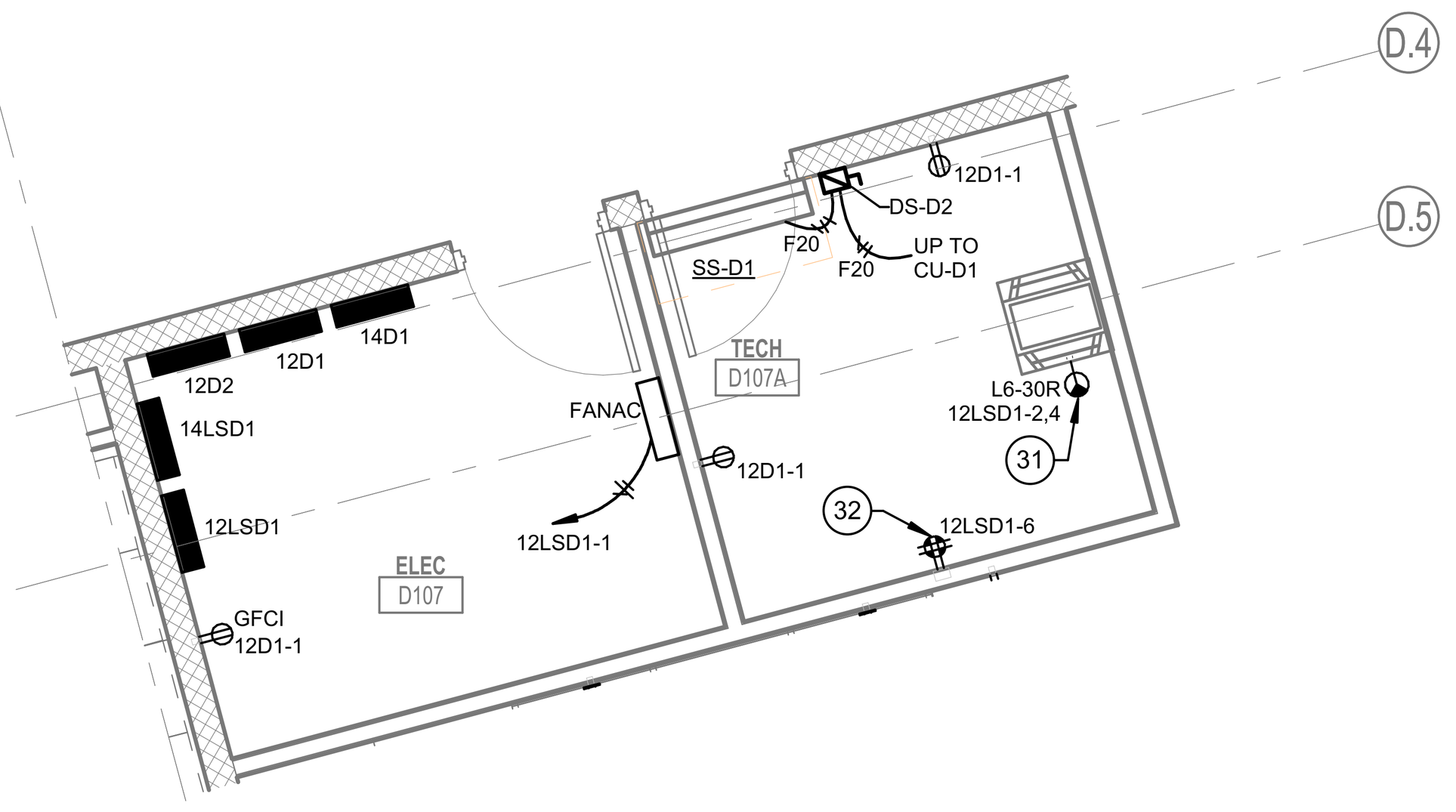
KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR POWER PLAN - UNIT C

EP1C1



2D ENLARGED POWER PLAN - D107/D107A ELEC/IDF
1/4" = 1'-0"

GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

POWER PLAN NOTES

#	NOTES
1	RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER PRIOR TO INSTALLATION. CIRCUIT PROTECTED BY GFCI BREAKER.
2	RECEPTACLE FOR REFRIGERATOR AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
3	RECEPTACLE FOR MICROWAVE OVEN. COORDINATE LOCATION WITH A-SERIES AND I-SERIES DRAWINGS.
4	RECEPTACLE FOR COPIER AT +36" A.F.F. TO C.L.
5	NEMA 6-20 RECEPTACLE FOR COPIER AT +36" A.F.F. TO C.L.
6	RECEPTACLE FOR VENDING MACHINE AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
7	RECEPTACLE FOR PROJECTOR LOCATED ON CEILING. COORDINATE LOCATION WITH T-SERIES DRAWINGS.
8	MANUFACTURER FURNISHED CONTROL SWITCH INSTALLED BY DIVISION 26. PROVIDE CIRCUIT. PROVIDE WIRING BETWEEN SWITCH AND PROJECTION SCREEN PER MANUFACTURER'S INSTRUCTIONS. REFER TO T-SERIES DRAWINGS FOR MORE INFORMATION.
9	RECEPTACLE FOR DISPLAY MONITOR ('TV'). COORDINATE LOCATION WITH T-SERIES DRAWINGS.
10	QUADRUPLEX RECEPTACLE FOR SOUND RACK. COORDINATE WITH T-SERIES DRAWINGS.
11	DISCONNECT SWITCH FOR BASKETBALL GOAL ELECTRIC HOIST. CONNECT COMPLETE TO HOIST RELAY BOX AND MOTOR. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION. REFER TO FIRST FLOOR PLAN FOR LOCATION OF RELAY BOX.
12	CIRCUIT CONNECTION FOR ADA DOOR OPERATOR. PROVIDE ALL CONDUIT AND WIRING FOR CONNECTION OF PUSH PADS TO MOTOR. COORDINATE PUSH PAD LOCATIONS WITH A-SERIES DRAWINGS.
13	PROVIDE CIRCUIT AND CONNECT TO MANUFACTURER PROVIDED DISCONNECT SWITCH.
14	PROVIDE CIRCUIT CONNECTION TO BOILER PUMP FROM BOILER.
15	NEMA 14-30R FOR DRYER AT +36" A.F.F. TO C.L.
16	RECEPTACLE FOR WASHER AT +36" A.F.F. TO C.L.
17	RECEPTACLE FOR WATER SOFTENER. COORDINATE LOCATION WITH P-SERIES DRAWINGS.
18	PROVIDE FLOOR-TO-CEILING SUPPORTED UNISTRUT RACK FOR THE MOUNTING OF ELECTRICAL EQUIPMENT SUPPORTING MECHANICAL EQUIPMENT.
19	MAIN ELECTRICAL GROUNDING BAR. REFER TO GROUNDING AND BONDING SCHEMATIC FOR ADDITIONAL INFORMATION.
20	PROVIDE (1) 4" PVC CONDUIT WITH PULL STRING FROM MAIN ELECTRICAL ROOM TO QUAZITE BOX AT NORTHWEST SIDE OF SITE FOR FUTURE POWER NEEDS. REFER TO SITE PLANS.
21	PROVIDE(1) 2-1/2" PVC CONDUIT WITH PULL STRING FROM UNIT A STORAGE ROOM TO QUAZITE BOX IN ISLAND OF TRAFFIC CIRCLE FOR FUTURE POWER NEEDS. REFER TO SITE PLANS.
22	PROVIDE (1) 2-1/2" PVC CONDUIT WITH PULL STRING FROM UNIT A STORAGE ROOM TO QUAZITE BOX ON SOUTH SIDE OF SENOUR ROAD ENTRANCE FOR FUTURE POWER NEEDS. REFER TO SITE PLANS.
23	BASKETBALL GOAL HOIST KEYPAD AND RELAY BOX FURNISHED BY MANUFACTURER, INSTALLED BY DIV. 26. PROVIDE 120V, 30A/ 1P BRANCH CIRCUIT TO BASKETBALL HOIST RELAY BOX. PROVIDE WIRING BETWEEN CONTROLLER, KEYPAD, AND HOIST MOTOR PER MANUFACTURER'S INSTRUCTIONS. REFER TO DETAIL SHEET FOR MORE INFORMATION. REFER TO 2ND FLOOR PLAN FOR BRANCH CIRCUIT INFORMATION ON EACH HOIST MOTOR.
24	RECEPTACLE AND CONTROLS OUTLET FOR SCOREBOARD. INSTALL CONTROL WIRING TO LOCATION INDICATED ON BLEACHERS. COORDINATE MOUNTING HEIGHT WITH A-SEIES AND MANUFACTURER RECOMMENDATION.
25	12"X12"X6" JUNCTION BOX FOR MOTORIZED BLEACHERS. INSTALL BOX AT 5'-0" A.F.F. TO C.L. INSTALL IN LOCATION AS RECOMMENDED BY BLEACHER MANUFACTURER. CONTACTORS AND CONTROLLERS ARE PROVIDED, INSTALLED AND WIRED BY THE MANUFACTURER. INSTALL (1) 3/4"C BETWEEN JUNCTION BOX AND ADJACENT DISCONNECT SWITCH. CONNECT COMPLETE.
26	INSTALL RECEPTACLE IN BOTTOM RISER OF BLEACHERS CONNECT TO FLEXIBLE CABLE FROM WALL OUTLET BOX. COORDINATE OPENING IN BLEACHER WITH MANUFACTURER.
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29	DISCONNECT SWITCH FOR KILN. PROVIDE INTERLOCK WITH EXHAUST FAN. REFER TO DETAIL/ WIRING SCHEMATIC FOR ADDITIONAL INFORMATION. COORDINATE NEMA CONFIGURATION OF KILN RECEPTACLE WITH OWNER FURNISHED KILN.
30	PROVIDE 120V POWER FOR GAS FIRED WATER HEATER.
31	MOUNT NEMA 6-30 RECEPTACLE ON TELECOM RACK AT +18" A.F.F. TO C.L.
32	QUAD RECEPTACLE FOR ACCESS CONTROL PANELS AT +48" A.F.F. TO C.L.
33	DISCONNECT SWITCH FOR SPLIT SYSTEM FAN COIL UNIT. REFER TO ROOF PLANS FOR LOCATION OF CORRESPONDING CONDENSING UNIT.
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37	PROVIDE POWER FOR DIVIDER CURTAIN. COORDINATE LOCATION WITH A-SERIES DRAWINGS. REFER TO DETAIL SHEET.
38	PROVIDE POWER TO BLOCK HEATER AND BATTERY CHARGER WITHIN GENERATOR ENCLOSURE. REFER TO ONELINE FOR MORE INFORMATION.
39	PROVIDE EMERGENCY OFF PUSHBUTTON. REFER TO GENERATOR SPECIFICATION FOR MORE INFORMATION.
40	PROVIDE CEILING MOUNTED TWIST LOCK RECEPTACLE (NEMA L5-20) WITH COMPATIBLE CORD AND PLUG SUSPENDED FROM LOCKING RECEPTACLE DOWN TO QUAD RECEPTACLE. REFER TO E-500 LEVEL SHEETS FOR DETAIL.
41	PROVIDE SIMPLEX RECEPTACLE FOR FUTURE SUMP PUMP.
42	PROVIDE LOCAL POWER FAILURE ALARM DEVICE FOR THIS RECEPTACLE. ALARM TO HAVE A SOUND OUTPUT LEVEL BETWEEN 80 - 110 DECIBELS.
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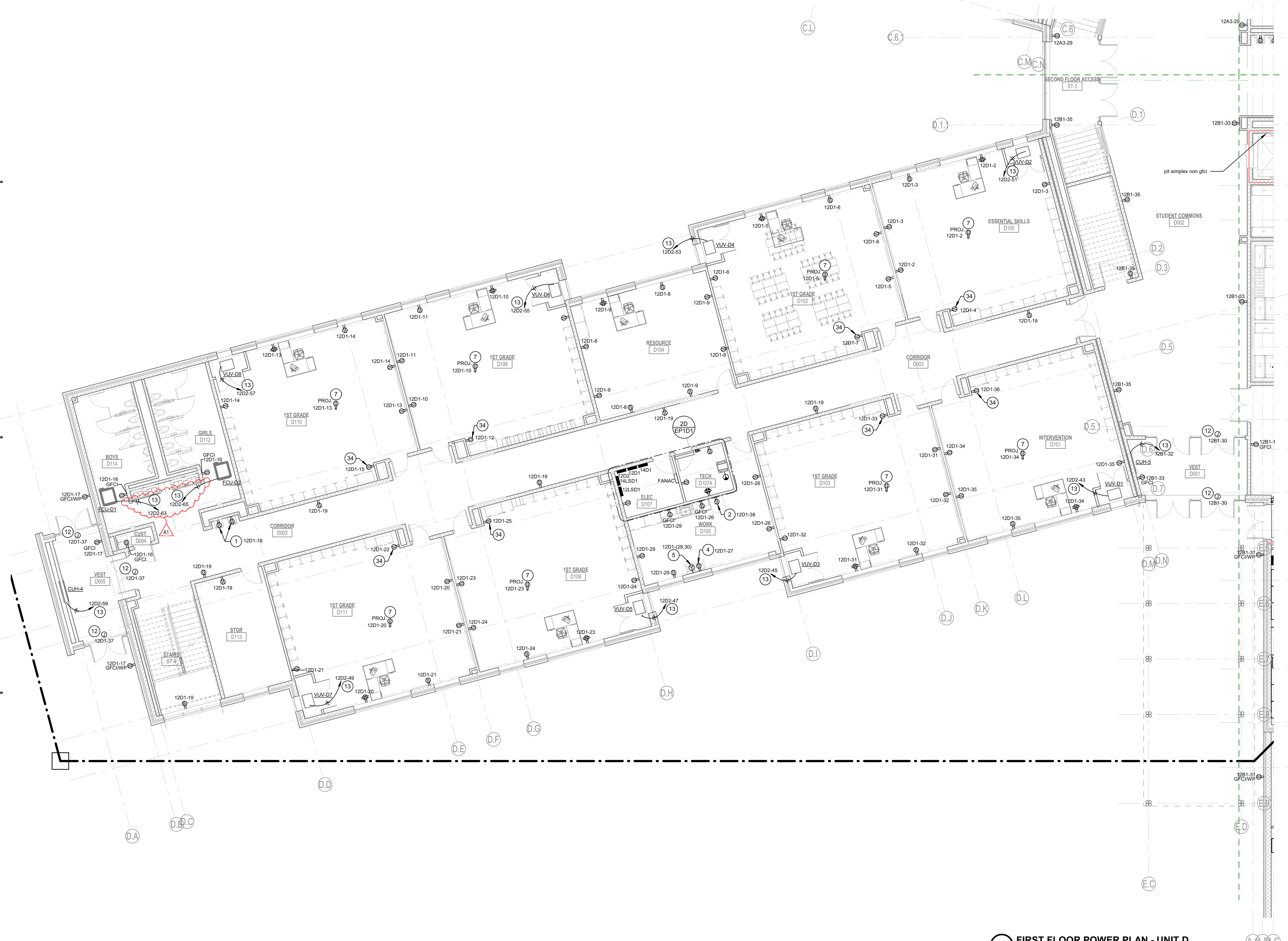

1D FIRST FLOOR POWER PLAN - UNIT D
1/8" = 1'-0"

SCHMIDT
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www.schmidt-arch.com

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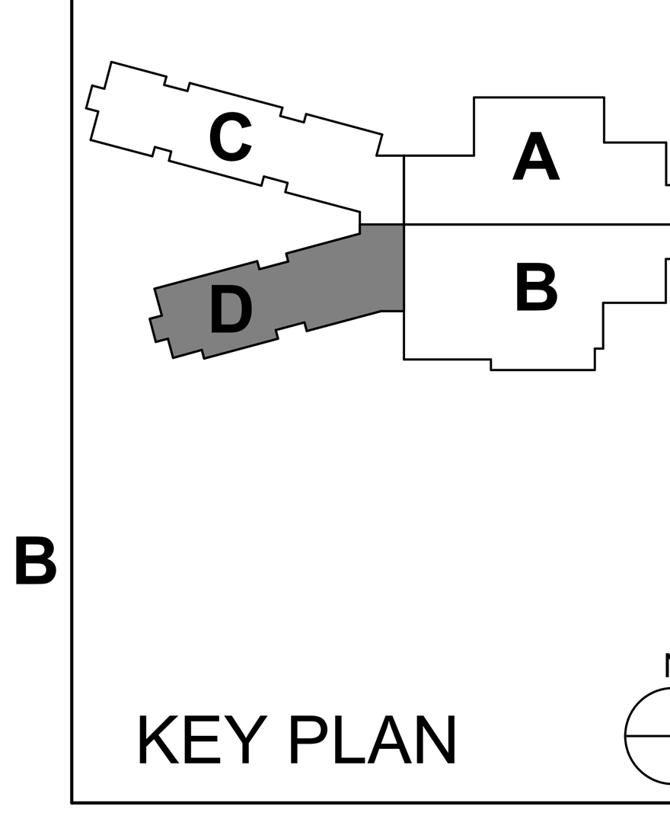

KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

FIRST FLOOR POWER PLAN - UNIT D

EP1D1

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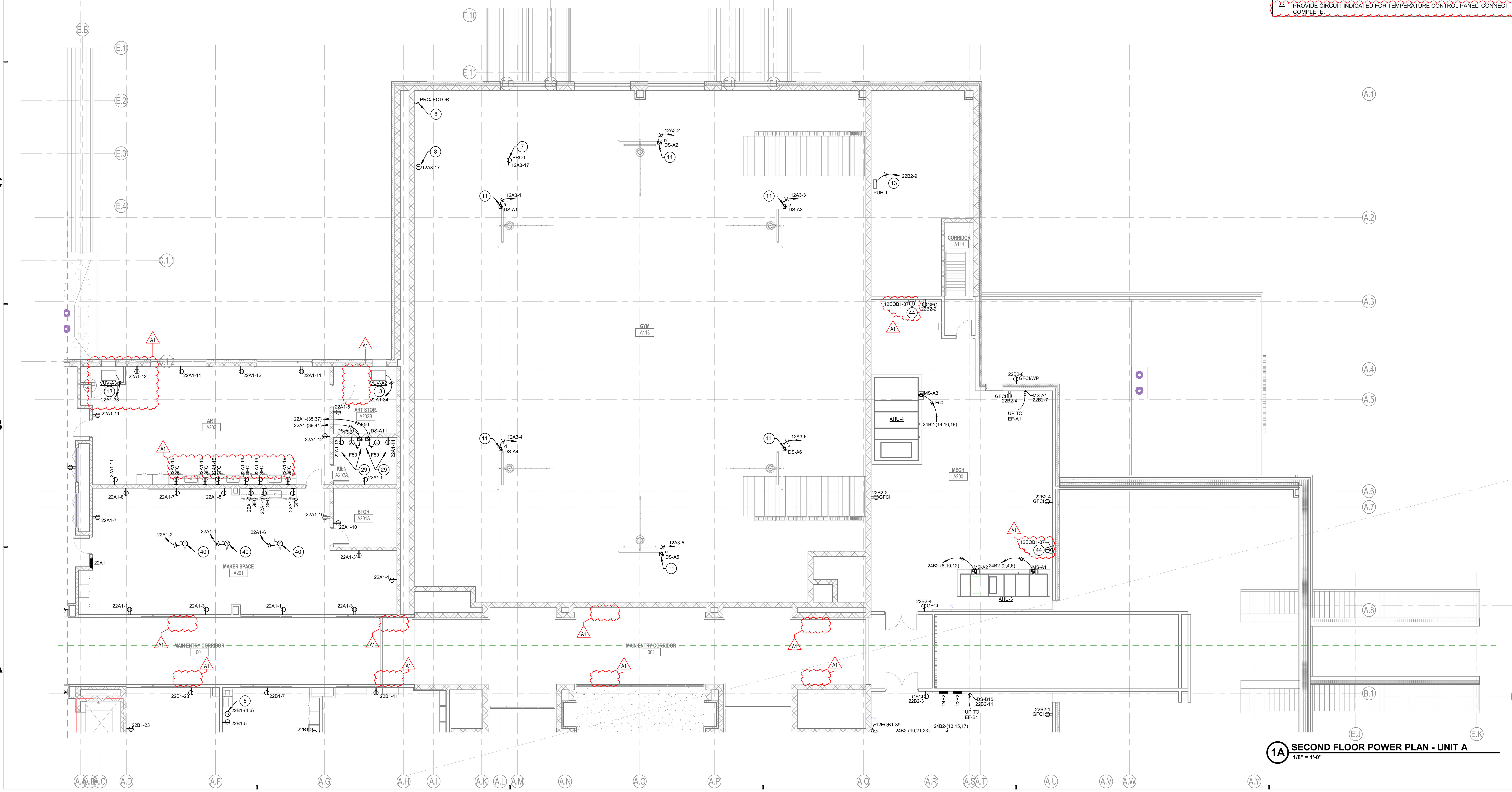
A1



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

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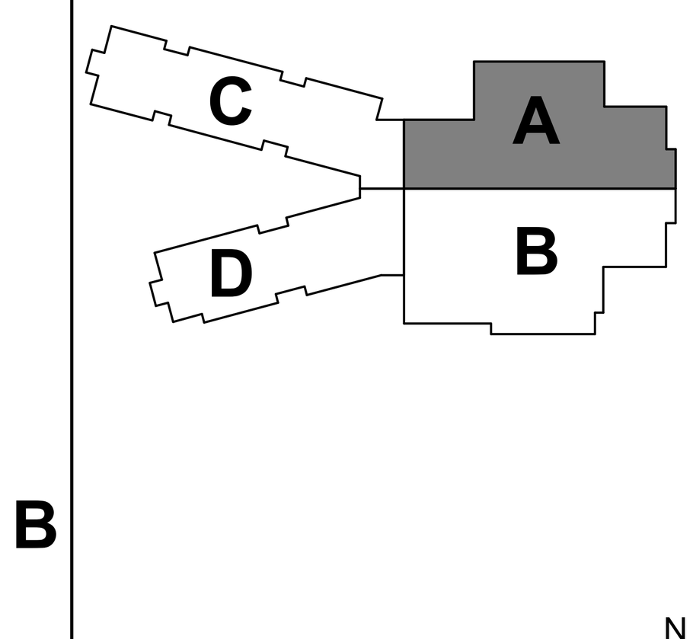

KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR POWER PLAN - UNIT A

EP1A2

GENERAL POWER NOTES

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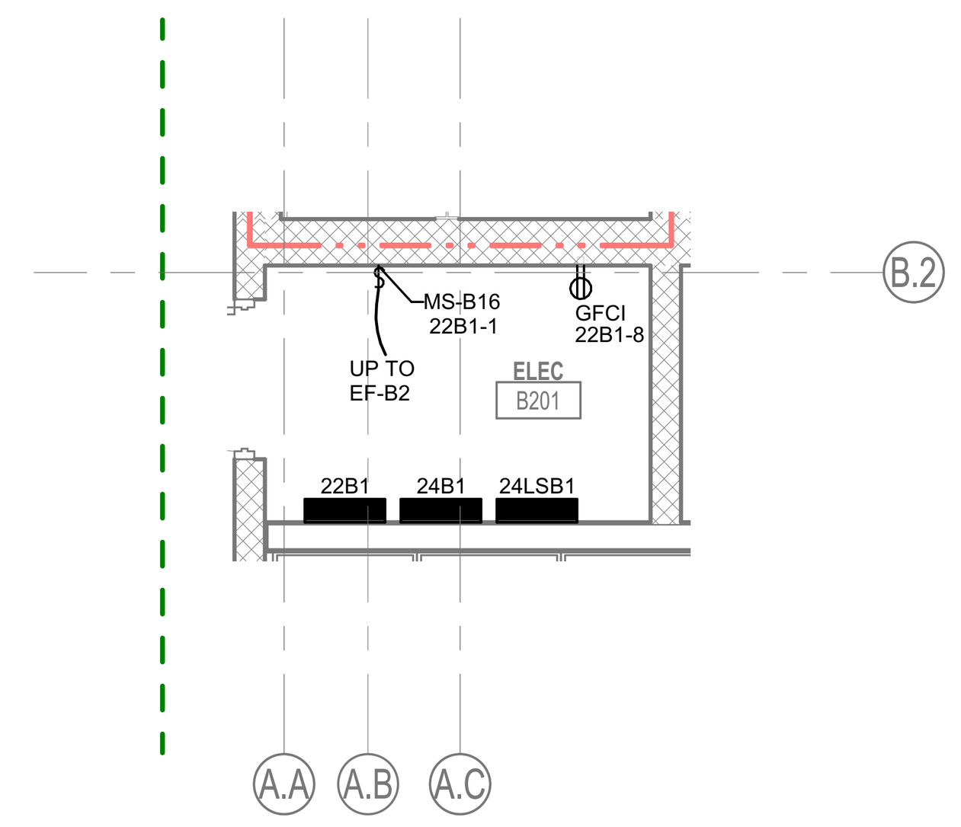
A1



4D ENLARGED POWER PLAN - B201 ELEC
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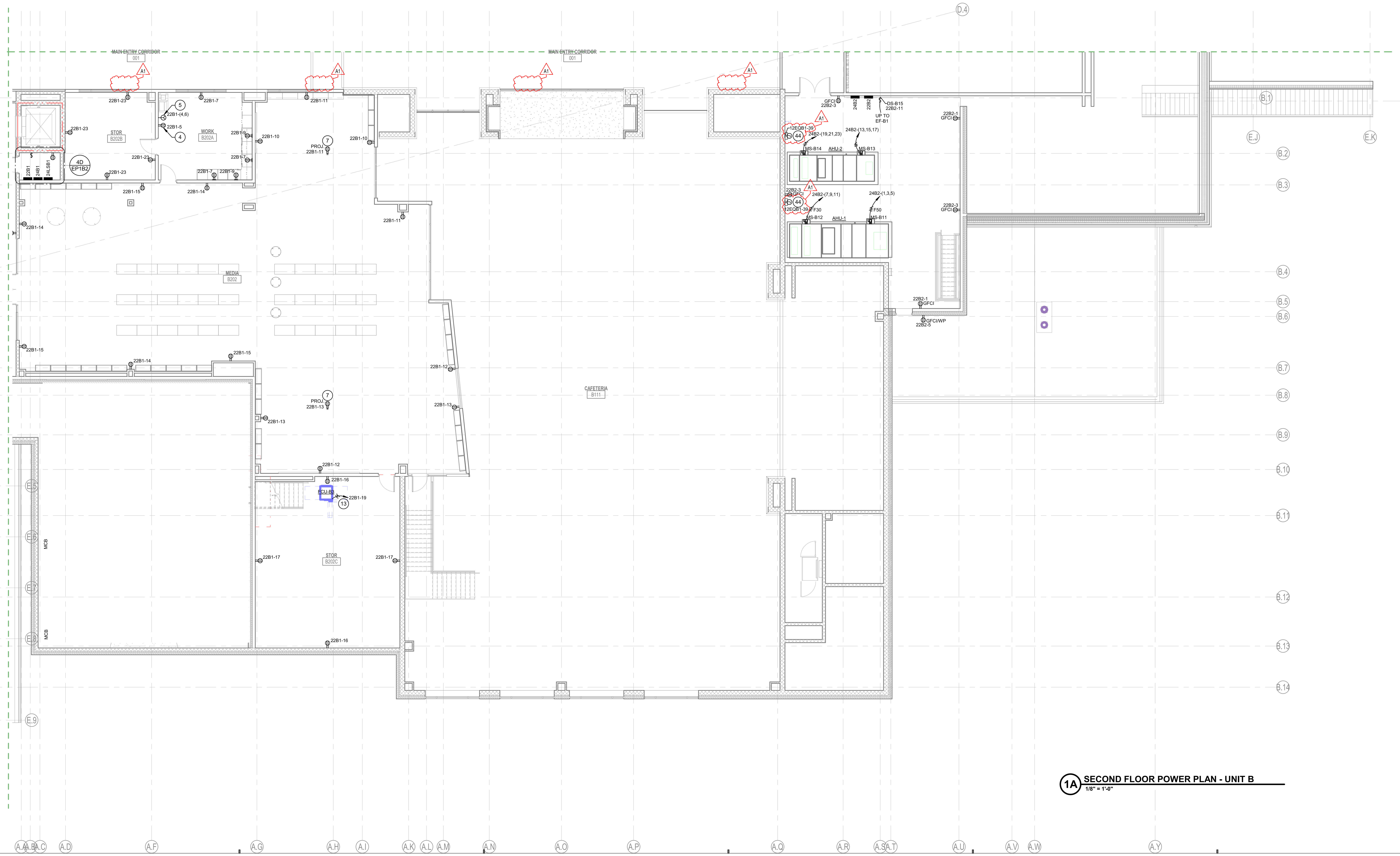

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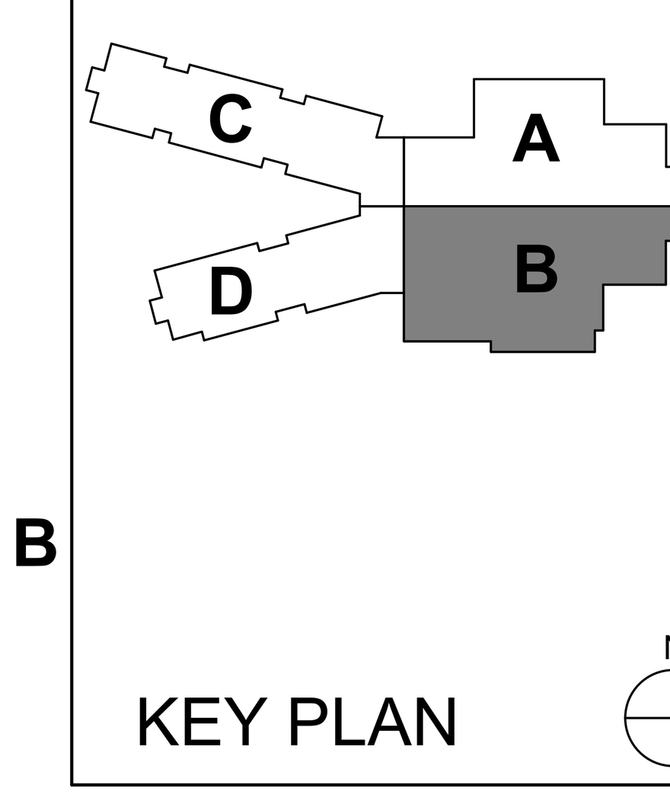

KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

SECOND FLOOR POWER PLAN - UNIT B

EP1B2

6	5	4	3	2	1

GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

POWER PLAN NOTES

#	NOTES
1	RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER PRIOR TO INSTALLATION. CIRCUIT PROTECTED BY GFCI BREAKER.
2	RECEPTACLE FOR REFRIGERATOR AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
3	RECEPTACLE FOR MICROWAVE OVEN. COORDINATE LOCATION WITH A-SERIES AND I-SERIES DRAWINGS.
4	RECEPTACLE FOR COPIER AT +36" A.F.F. TO C.L.
5	NEMA 6-20 RECEPTACLE FOR COPIER AT +36" A.F.F. TO C.L.
6	RECEPTACLE FOR VENDING MACHINE AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
7	RECEPTACLE FOR PROJECTOR LOCATED ON CEILING. COORDINATE LOCATION WITH T-SERIES DRAWINGS.
8	MANUFACTURER FURNISHED CONTROL SWITCH INSTALLED BY DIVISION 26. PROVIDE CIRCUIT. PROVIDE WIRING BETWEEN SWITCH AND PROJECTION SCREEN PER MANUFACTURER'S INSTRUCTIONS. REFER TO T-SERIES DRAWINGS FOR MORE INFORMATION.
9	RECEPTACLE FOR DISPLAY MONITOR ('TV'). COORDINATE LOCATION WITH T-SERIES DRAWINGS.
10	QUADRUPLEX RECEPTACLE FOR SOUND RACK. COORDINATE WITH T-SERIES DRAWINGS.
11	DISCONNECT SWITCH FOR BASKETBALL GOAL ELECTRIC HOIST. CONNECT COMPLETE TO HOIST RELAY BOX AND MOTOR. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION. REFER TO FIRST FLOOR PLAN FOR LOCATION OF RELAY BOX.
12	CIRCUIT CONNECTION FOR ADA DOOR OPERATOR. PROVIDE ALL CONDUIT AND WIRING FOR CONNECTION OF PUSH PADS TO MOTOR. COORDINATE PUSH PAD LOCATIONS WITH A-SERIES DRAWINGS.
13	PROVIDE CIRCUIT AND CONNECT TO MANUFACTURER PROVIDED DISCONNECT SWITCH.
14	PROVIDE CIRCUIT CONNECTION TO BOILER PUMP FROM BOILER.
15	NEMA 14-30R FOR DRYER AT +36" A.F.F. TO C.L.
16	RECEPTACLE FOR WASHER AT +36" A.F.F. TO C.L.
17	RECEPTACLE FOR WATER SOFTENER. COORDINATE LOCATION WITH P-SERIES DRAWINGS.
18	PROVIDE FLOOR-TO-CEILING SUPPORTED UNISTRUT RACK FOR THE MOUNTING OF ELECTRICAL EQUIPMENT SUPPORTING MECHANICAL EQUIPMENT.
19	MAIN ELECTRICAL GROUNDING BAR. REFER TO GROUNDING AND BONDING SCHEMATIC FOR ADDITIONAL INFORMATION.
20	PROVIDE (1) 4" PVC CONDUIT WITH PULL STRING FROM MAIN ELECTRICAL ROOM TO QUAZITE BOX AT NORTHWEST SIDE OF SITE FOR FUTURE POWER NEEDS. REFER TO SITE PLANS.
21	PROVIDE(1) 2-1/2" PVC CONDUIT WITH PULL STRING FROM UNIT A STORAGE ROOM TO QUAZITE BOX IN ISLAND OF TRAFFIC CIRCLE FOR FUTURE POWER NEEDS. REFER TO SITE PLANS.
22	PROVIDE (1) 2-1/2" PVC CONDUIT WITH PULL STRING FROM UNIT A STORAGE ROOM TO QUAZITE BOX ON SOUTH SIDE OF SENOUR ROAD ENTRANCE FOR FUTURE POWER NEEDS. REFER TO SITE PLANS.

POWER PLAN NOTES

#	NOTES
23	BASKETBALL GOAL HOIST KEYPAD AND RELAY BOX FURNISHED BY MANUFACTURER, INSTALLED BY DIV. 26. PROVIDE 120V, 30A/ 1P BRANCH CIRCUIT TO BASKETBALL HOIST RELAY BOX. PROVIDE WIRING BETWEEN CONTROLLER, KEYPAD, AND HOIST MOTOR PER MANUFACTURER'S INSTRUCTIONS. REFER TO DETAIL SHEET FOR MORE INFORMATION. REFER TO 2ND FLOOR PLAN FOR BRANCH CIRCUIT INFORMATION ON EACH HOIST MOTOR.
24	RECEPTACLE AND CONTROLS OUTLET FOR SCOREBOARD. INSTALL CONTROL WIRING TO LOCATION INDICATED ON BLEACHERS. COORDINATE MOUNTING HEIGHT WITH A-SEIES AND MANUFACTURER RECOMMENDATION.
25	12"X12"X6" JUNCTION BOX FOR MOTORIZED BLEACHERS. INSTALL BOX AT 5'-0" A.F.F. TO C.L. INSTALL IN LOCATION AS RECOMMENDED BY BLEACHER MANUFACTURER. CONTACTORS AND CONTROLLERS ARE PROVIDED, INSTALLED AND WIRED BY THE MANUFACTURER. INSTALL (1) 3/4"C BETWEEN JUNCTION BOX AND ADJACENT DISCONNECT SWITCH. CONNECT COMPLETE.
26	INSTALL RECEPTACLE IN BOTTOM RISER OF BLEACHERS CONNECT TO FLEXIBLE CABLE FROM WALL OUTLET BOX. COORDINATE OPENING IN BLEACHER WITH MANUFACTURER.
27	INSTALL SCOREBOARD CONTROL OUTLET IN BOTTOM RISER OF BLEACHERS. CONNECT TO FLEXIBLE CABLE FROM WALL OUTLET BOX. COORDINATE OPENING IN BLEACHER WITH MANUFACTURER.
28	PROVIDE FLEXIBLE WIRING FROM OUTLET BOX ON WALL TO DEVICE LOCATED ON BLEACHERS.
29	DISCONNECT SWITCH FOR KILN. PROVIDE INTERLOCK WITH EXHAUST FAN. REFER TO DETAIL/ WIRING SCHEMATIC FOR ADDITIONAL INFORMATION. COORDINATE NEMA CONFIGURATION OF KILN RECEPTACLE WITH OWNER FURNISHED KILN.
30	PROVIDE 120V POWER FOR GAS FIRED WATER HEATER.
31	MOUNT NEMA 6-30 RECEPTACLE ON TELECOM RACK AT +18" A.F.F. TO C.L.
32	QUAD RECEPTACLE FOR ACCESS CONTROL PANELS AT +48" A.F.F. TO C.L.
33	DISCONNECT SWITCH FOR SPLIT SYSTEM FAN COIL UNIT. REFER TO ROOF PLANS FOR LOCATION OF CORRESPONDING CONDENSING UNIT.
34	RECEPTACLE FOR CHARGING CART AT +18" A.F.F. TO C.L.
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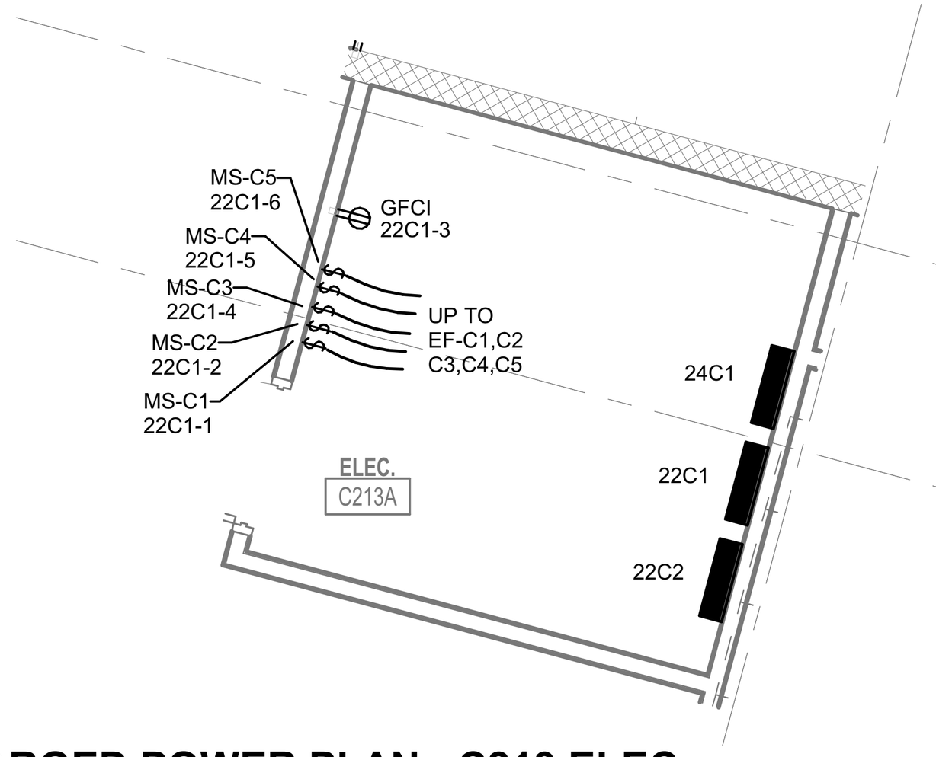
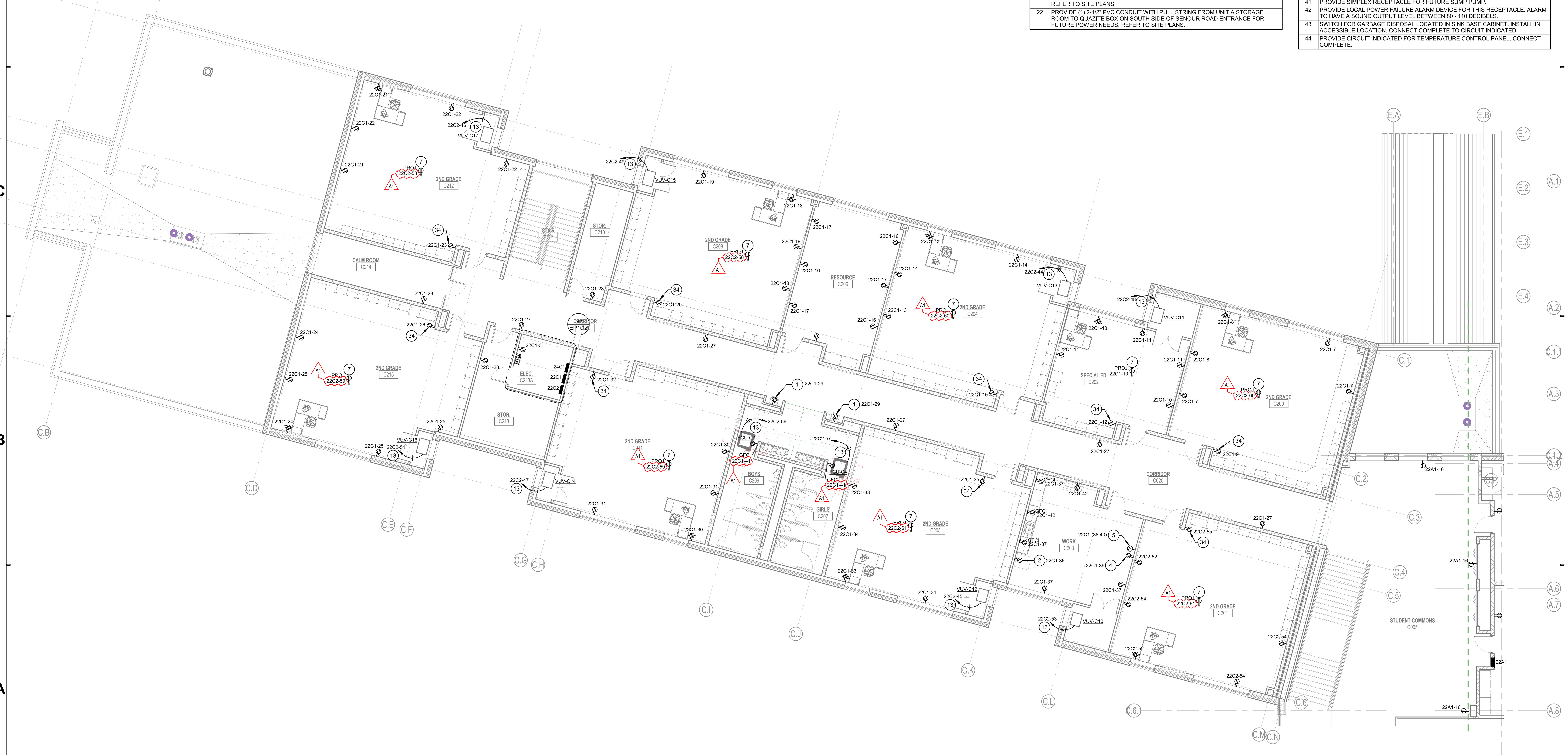
37	PROVIDE POWER FOR DIVIDER CURTAIN. COORDINATE LOCATION WITH A-SERIES DRAWINGS. REFER TO DETAIL SHEET.
38	PROVIDE POWER TO BLOCK HEATER AND BATTERY CHARGER WITHIN GENERATOR ENCLOSURE. REFER TO ONELINE FOR MORE INFORMATION.
39	PROVIDE EMERGENCY OFF PUSHBUTTON. REFER TO GENERATOR SPECIFICATION FOR MORE INFORMATION.
40	PROVIDE CEILING MOUNTED TWIST LOCK RECEPTACLE (NEMA L5-20) WITH COMPATIBLE CORD AND PLUG SUSPENDED FROM LOCKING RECEPTACLE DOWN TO QUAD RECEPTACLE. REFER TO E-500 LEVEL SHEETS FOR DETAIL.
41	PROVIDE SIMPLEX RECEPTACLE FOR FUTURE SUMP PUMP.
42	PROVIDE LOCAL POWER FAILURE ALARM DEVICE FOR THIS RECEPTACLE. ALARM TO HAVE A SOUND OUTPUT LEVEL BETWEEN 80 - 110 DECIBELS.
43	SWITCH FOR GARBAGE DISPOSAL LOCATED IN SINK BASE CABINET. INSTALL IN ACCESSIBLE LOCATION. CONNECT COMPLETE TO CIRCUIT INDICATED.
44	PROVIDE CIRCUIT INDICATED FOR TEMPERATURE CONTROL PANEL. CONNECT COMPLETE.



3D ENLARGED POWER PLAN - C213 ELEC
1/4" = 1'-0"



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

6	5	4	3	2	1

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ASSOCIATES
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Project No. 2021-141.NES
Project Date 05.11.2022
Produced BLM

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF
INDIANA
ARCHITECT

#	Revision	Date
A1	Addendum #1	05.31.2022

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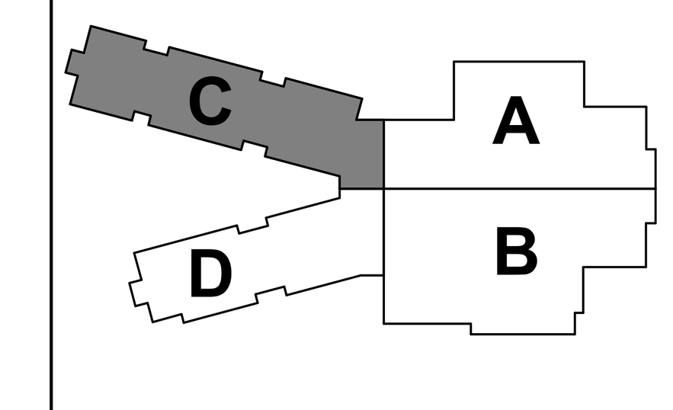


KEY PLAN

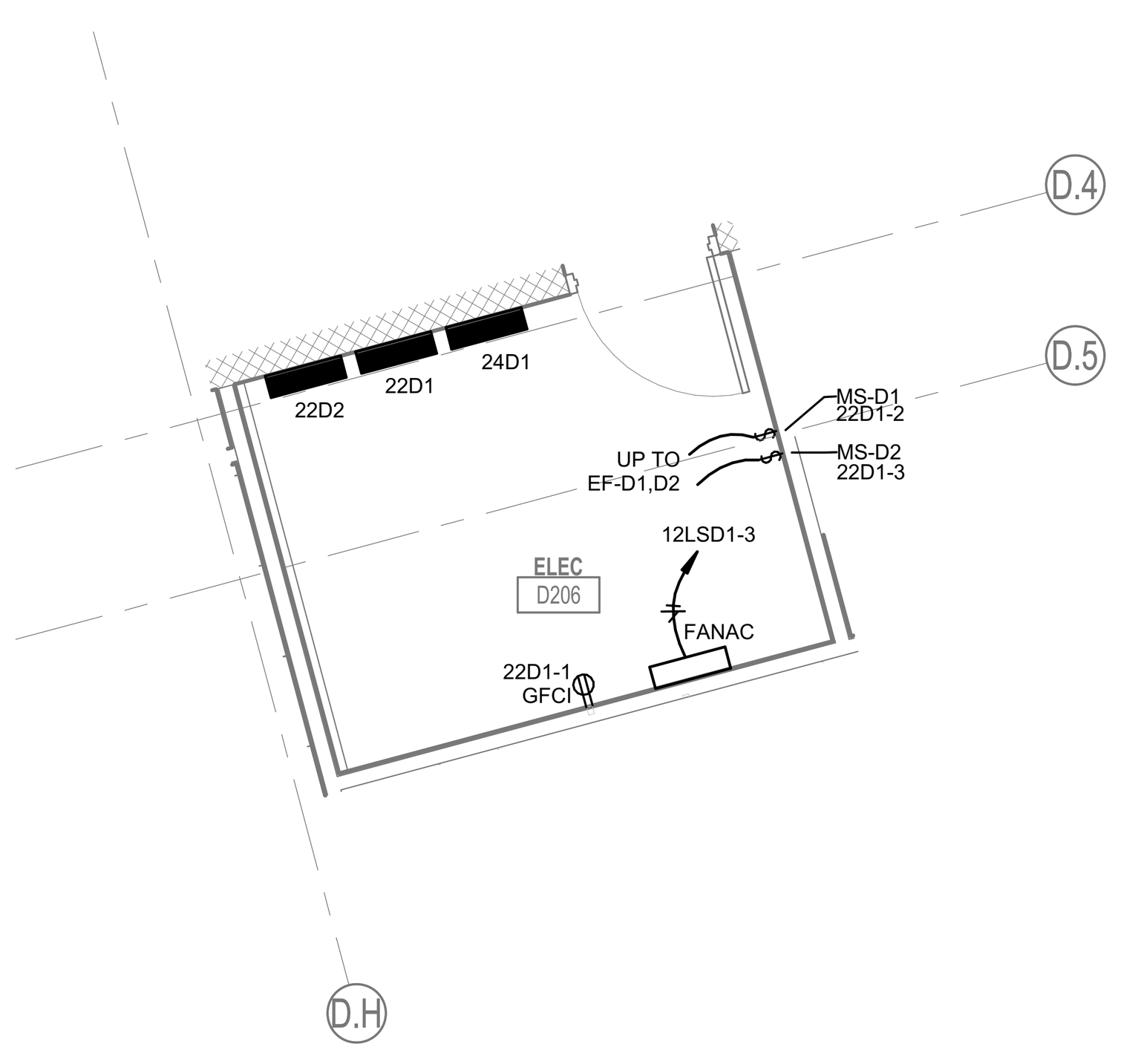
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

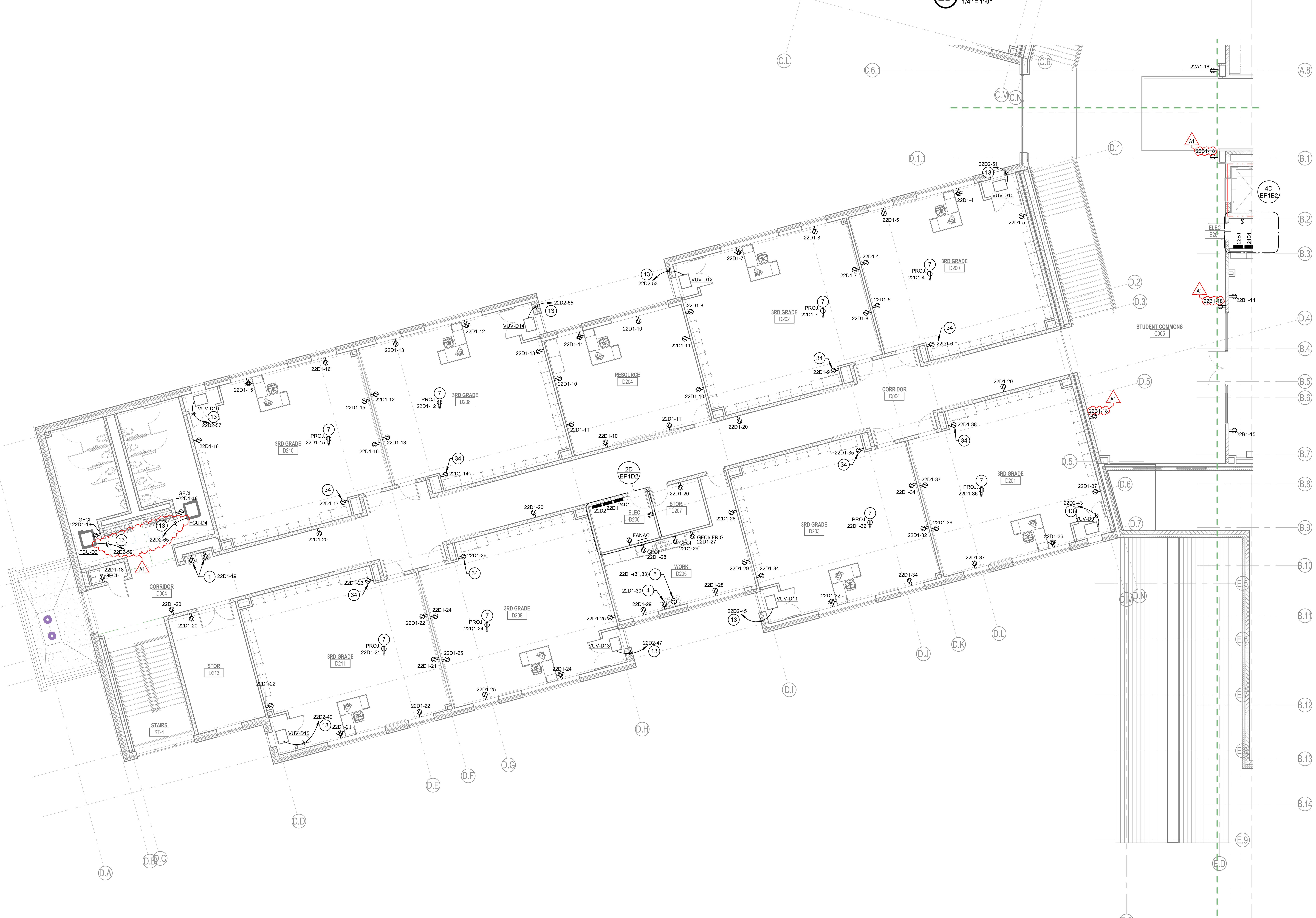
NEW ELEMENTARY SCHOOL

SECOND FLOOR POWER PLAN - UNIT C

EP1C2



2D ENLARGED POWER PLAN - D206 ELEC
1/4" = 1'-0"



1A SECOND FLOOR POWER PLAN - UNIT D
1/8" = 1'-0"

GENERAL POWER NOTES	
#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

POWER PLAN NOTES	
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44	PROVIDE CIRCUIT INDICATED FOR TEMPERATURE CONTROL PANEL. CONNECT COMPLETE.

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SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

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A1	Addendum #1	05.31.2022

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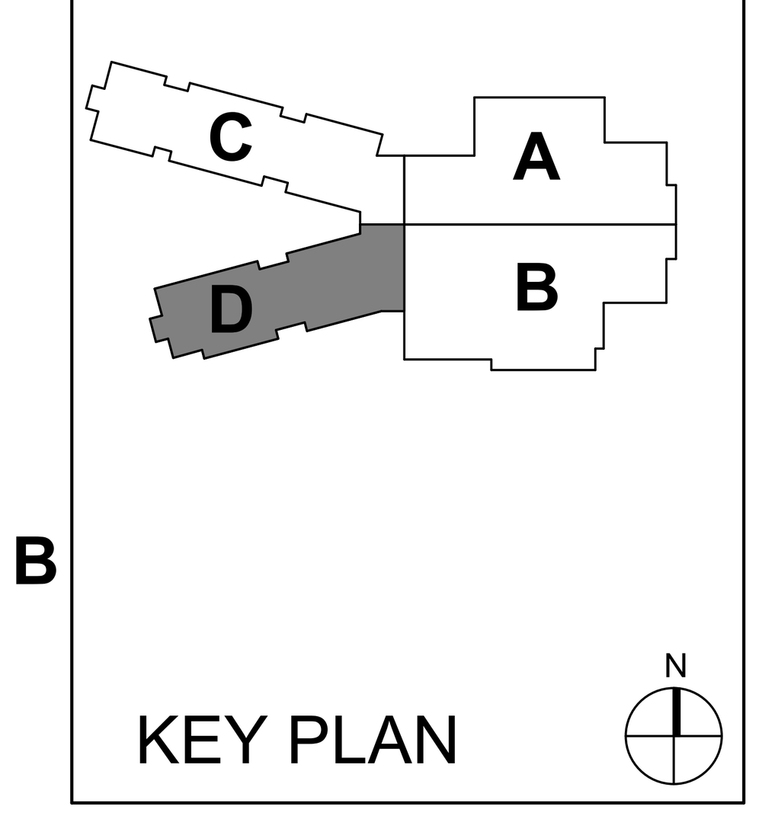


KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

SECOND FLOOR POWER PLAN - UNIT D

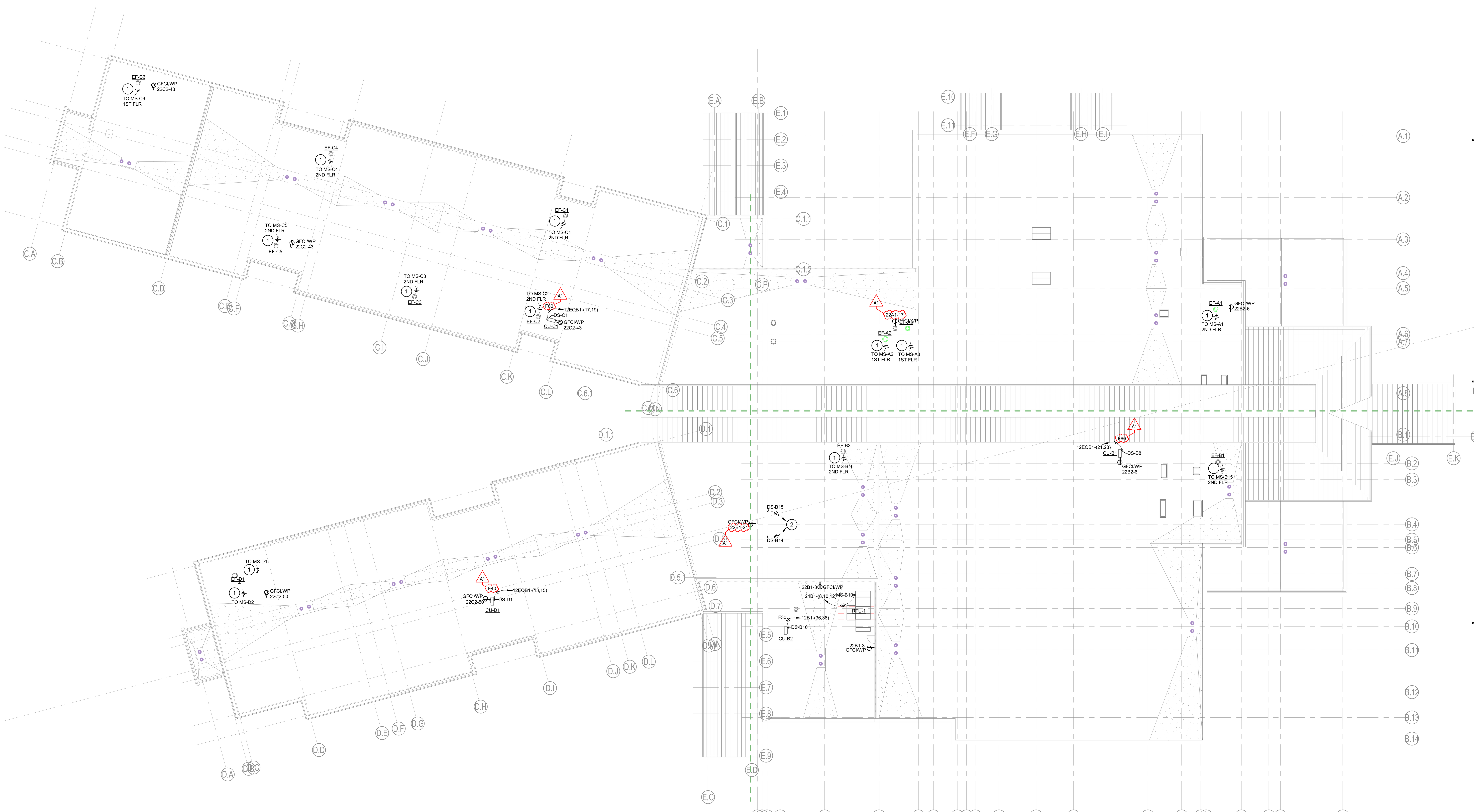
EP1D2

GENERAL ROOF NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

ROOF PLAN NOTES

#	NOTES
1	CONNECT MANUAL MOTOR STARTER LOCATED IN BUILDING TO UNIT PROVIDED DISCONNECT SWITCH IN EXHAUST FAN ON ROOF. REFER TO POWER PLANS AND MOTOR CONTROLLER/ STARTER/ VFD SCHEDULE FOR INFORMATION ON CORRESPONDING MANUAL MOTOR STARTER.
2	REFER TO KITCHEN POWER PLAN AND FOODSERVICE EQUIPMENT SCHEDULE FOR WIRE SIZE AND CIRCUIT INFORMATION. COORDINATE LOCATION WITH K-SERIES.



1A ROOF PLAN - OVERALL
1/16" = 1'-0"

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www.schmidt-arch.com

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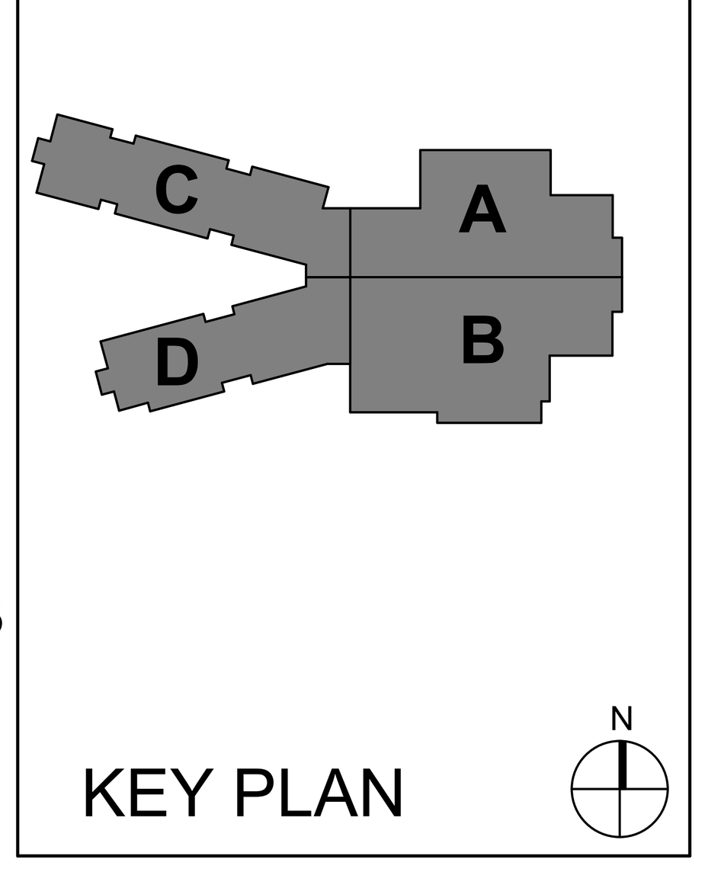


KEY PLAN

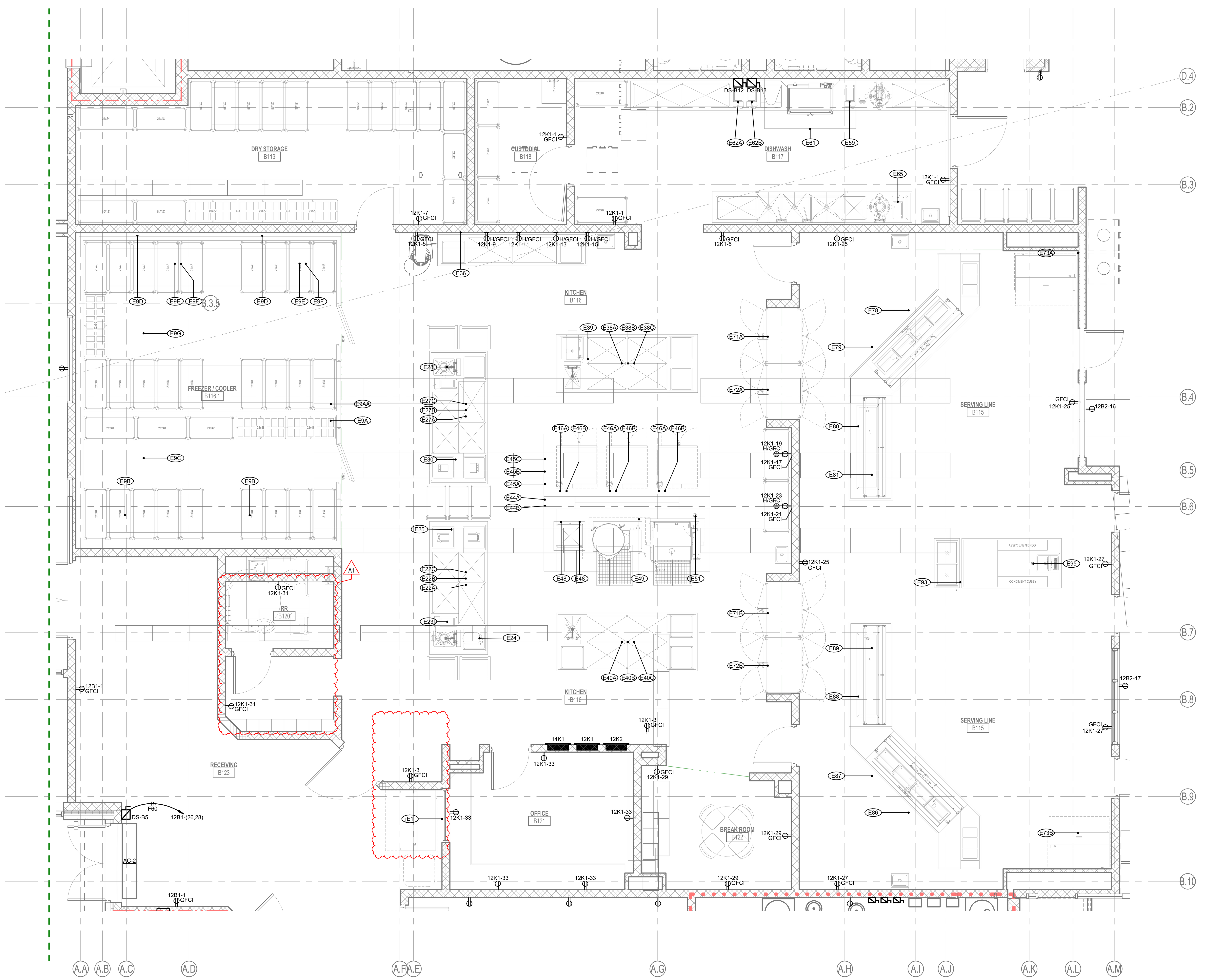
FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

ROOF PLAN

ER101



2A ENLARGED POWER PLAN - KITCHEN
1/4" = 1'-0"

REFER TO SHEET E-403 FOR FOODSERVICE EQUIPMENT SCHEDULE

SCHMIDT ASSOCIATES
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KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

ENLARGED PLAN - KITCHEN

E-402

114000.1 - FOODSERVICE EQUIPMENT SCHEDULE													
	LOCATION								FEEDER/BRANCH CIRCUIT				
										WIRE QTY			
LABEL	NUMBER	NAME	EQUIPMENT SERVED	VOLTAGE	PHASE	AMPERAGE	PANEL	CIRCUIT	SIZE	P	N	G	REMARKS
E1	B116	KITCHEN	SINGLE SIDED 16-CRATE MILK COOLER	120 V	1	2.70 A	12EQB1	2	F20	1	1	1	PLUG CONNECTION; +18" A.F.F. TO C.L.; NEMA 5-20 RECEPTACLE; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E9A	B116.1	FREEZER / COOLER	WALK-IN COOLER LIGHTS & DOOR OPTIONS	120 V	1	16.00 A	12EQB1	8	F20	1	1	1	DIRECT CONNECTION; DROP FROM ABOVE
E9AA	B116.1	FREEZER / COOLER	WALK-IN FREEZER LIGHTS & DOOR OPTIONS	120 V	1	16.00 A	12EQB1	24	F20	1	1	1	DIRECT CONNECTION; DROP FROM ABOVE
E9B	B116.1	FREEZER / COOLER	WALK-IN COOLER EVAPORATOR FANS	120 V	1	1.60 A	12EQB1	10	F20	1	1	1	DIRECT CONNECTION; DROP FROM ABOVE
E9C	B116.1	FREEZER / COOLER	WALK-IN COOLER CONDENSING UNIT	208 V	3	11.27 A	12EQB1	12,14,16	F20	3	0	1	EXTEND CIRCUIT THROUGH DISCONNECT SWITCH ON ROOF; COORDINATE LOCATION
E9D	B116.1	FREEZER / COOLER	WALK-IN FREEZER HEATED DRAIN TAPE	120 V	1	8.00 A	12EQB1	26	F20	1	1	1	DIRECT CONNECTION; DROP FROM ABOVE
E9E	B116.1	FREEZER / COOLER	WALK-IN FREEZER EVAPORATOR FANS	208 V	1	2.00 A			F20	2	0	1	DIRECT CONNECTION; DROP FROM ABOVE; POWER FED FROM FREEZER CONDENSING UNIT
E9F	B116.1	FREEZER / COOLER	WALK-IN FREEZER EVAPORATOR HEATER	208 V	1	17.60 A			F30	2	0	1	DIRECT CONNECTION; DROP FROM ABOVE; POWER FED FROM FREEZER CONDENSING UNIT
E9G	B116.1	FREEZER / COOLER	WALK-IN FREEZER CONDENSING UNIT	208 V	3	22.97 A	12EQB1	18,20,22	F40	3	0	1	EXTEND CIRCUIT THROUGH DISCONNECT SWITCH ON ROOF; COORDINATE LOCATION ON ROOF.
E22A	B116	KITCHEN	VEGETABLE PREP WORKTABLE	120 V	1	16.00 A	12K1	14	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E22B	B116	KITCHEN	VEGETABLE PREP WORKTABLE	120 V	1	16.00 A	12K1	16	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E22C	B116	KITCHEN	VEGETABLE PREP WORKTABLE	208 V	1	24.00 A	12K1	10,12	F30	2	0	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP
E23	B116	KITCHEN	GARBAGE DISPOSAL SYSTEM	480 V	3	2.20 A	14K1	1,3,5	F20	3	0	1	EXTEND DIRECT CONNECTION SERVICE THROUGH KEC FURNISHED CONTROL PANEL; STUB UP
E24	B116	KITCHEN	COUNTERTOP FOOD PROCESSOR	120 V	1	3.00 A			F20	1	1	1	SERVICE FROM RECEPTACLE ON WORKTABLE
E25	B116	KITCHEN	ELECTRIC CAN OPENER	120 V	1	1.50 A			F20	1	1	1	SERVICE FROM RECEPTACLE ON WORKTABLE
E27A	B116	KITCHEN	VEGETABLE PREP WORKTABLE	120 V	1	16.00 A	12K1	18	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E27B	B116	KITCHEN	VEGETABLE PREP WORKTABLE	120 V	1	16.00 A	12K1	20	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E27C	B116	KITCHEN	VEGETABLE PREP WORKTABLE	208 V	1	24.00 A	12K1	22,24	F30	2	0	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP
E28	B116	KITCHEN	GARBAGE DISPOSAL SYSTEM	480 V	3	2.20 A	14K1	2,4,6	F20	3	0	1	EXTEND DIRECT CONNECTION SERVICE THROUGH KEC FURNISHED CONTROL PANEL; STUB UP
E30	B116	KITCHEN	COUNTERTOP DIGITAL SCALE	120 V	1	1.50 A			F20	1	1	1	SERVICE FROM RECEPTACLE ON WORKTABLE
E36	B116	KITCHEN	40 QUART FLOOR MIXER	208 V	1	9.30 A			F20	2	0	1	PLUG CONNECTION; +46" A.F.F. TO C.L.; NEMA 6-15 RECEPTACLE
E38A	B116	KITCHEN	KITCHEN PREP WORKTABLE	120 V	1	16.00 A	12K2	43	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E38B	B116	KITCHEN	KITCHEN PREP WORKTABLE	120 V	1	16.00 A	12K2	45	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E38C	B116	KITCHEN	KITCHEN PREP WORKTABLE	208 V	1	24.00 A	12K2	47,49	F30	2	0	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP
E39	B116	KITCHEN	COUNTERTOP HOT WATER DISPENSER	208 V	1	24.00 A			F30	2	0	1	SERVICE FROM NEMA 6-30 RECEPTACLE ON WORKTABLE
E40A	B116	KITCHEN	KITCHEN PREP WORKTABLE	120 V	1	16.00 A	12K1	2	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E40B	B116	KITCHEN	KITCHEN PREP WORKTABLE	120 V	1	16.00 A	12K1	4	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E40C	B116	KITCHEN	KITCHEN PREP WORKTABLE	208 V	1	24.00 A	12K1	6,8	F30	2	0	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF WORKTABLE; STUB UP
E44A	B116	KITCHEN	UTILITY DISTRIBUTION SYSTEM - 120/208V, 3-PHASE	208 V	3	80.00 A	12K1	37,39,41	F100	3	1	1	EXTEND DIRECT CONNECTION THROUGH UTILITY DISTRIBUTION SYSTEM; STUB UP; INTERCONNECT SHUNT TRIP MAIN CIRCUIT BREAKER IN UTILITY DISTRIBUTION SYSTEM WITH FIRE ALARM SYSTEM
E44B	B116	KITCHEN	UTILITY DISTRIBUTION SYSTEM - 480V, 3-PHASE	480 V	3	175.00 A	14K1	37,39,41	F225	3	0	1	EXTEND DIRECT CONNECTION THROUGH UTILITY DISTRIBUTION SYSTEM; STUB UP; INTERCONNECT SHUNT TRIP MAIN CIRCUIT BREAKER IN UTILITY DISTRIBUTION SYSTEM WITH FIRE ALARM SYSTEM
E45A	B116	KITCHEN	COOKING VENTILATION (LIGHTS)	120 V	1	16.00 A			F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON TOP OF HOOD; DROP FROM ABOVE
E45B	B116	KITCHEN	COOKING VENTILATION (EXHAUST FAN)	480 V	3	3.30 A	14K1	20,22,24	F20	3	0	1	POWER FED FROM SUPPLY FAN; EXTEND CIRCUIT THROUGH DISCONNECT SWITCH ON ROOF; EXTEND POWER WIRING FROM MOTOR STARTER TO CONNECTION POINT ON EXHAUST FAN; PROVIDE CONDUIT AND FOUR WIRES FROM TERMINAL BLOCK ON EXHAUST FAN HOOD TO EXHAUST FAN MOTOR STARTER PANEL; COORDINATE LOCATIONS; REFER TO KEC PLANS AND DETAILS
E45C	B116	KITCHEN	COOKING VENTILATION (SUPPLY FAN)	480 V	3	7.10 A	14K1	20,22,24	F20	3	0	1	EXTEND CIRCUIT THROUGH DISCONNECT SWITCH ON ROOF; COORDINATE LOCATIONS; REFER TO KEC PLANS AND DETAILS
E46A	B116	KITCHEN	DOUBLE DECK CONVECTION OVEN (TOP)	480 V	3	14.00 A			F20	3	0	1	DIRECT CONNECTION TO EQUIPMENT FROM 480V UTILITY DISTRIBUTION SYSTEM
E46B	B116	KITCHEN	DOUBLE DECK CONVECTION OVEN (BOTTOM)	480 V	3	14.00 A			F20	3	0	1	DIRECT CONNECTION TO EQUIPMENT FROM 480V UTILITY DISTRIBUTION SYSTEM
E48	B116	KITCHEN	HIGH WATTAGE MICROWAVE OVEN	208 V	1	28.00 A			F30	2	0	1	PLUG CONNECTION; NEMA 6-30 RECEPTACLE; EXTEND CIRCUIT TO TO RECEPTACLE FROM 120/208V UTILITY DISTRIBUTION SYSTEM
E49	B116	KITCHEN	40 GALLON TILTING KETTLE	480 V	3	29.00 A			F40	3	0	1	DIRECT CONNECTION TO EQUIPMENT FROM 480V UTILITY DISTRIBUTION SYSTEM
E51	B116	KITCHEN	40 GALLON TILTING SKILLET	480 V	3	19.00 A			F30	3	0	1	DIRECT CONNECTION TO EQUIPMENT FROM 480V UTILITY DISTRIBUTION SYSTEM
E59	A113RRRRRRR	Space	GARBAGE DISPOSAL SYSTEM	480 V	3	2.20 A	14K1	7,9,11	F20	3	0	1	EXTEND DIRECT CONNECTION SERVICE THROUGH KEC FURNISHED CONTROL PANEL; STUB UP
E61	A113RRRRRRR	Space	DISHMACHINE EXHAUST VENTILATION	120 V	1	7.80 A	12K2	63	F20	1	1	1	EXTEND CIRCUIT THROUGH DISCONNECT SWITCH IN EXHAUST FAN ON ROOF; INTERCONNECT EXHAUST FAN WITH DISHMACHINE FAN CONTROLLER
E62A	A113RRRRRRR	Space	DISHMACHINE TANK HEAT, MOTOR, & CONTROLS	480 V	3	27.90 A	14K1	13,15,17	F40	3	0	1	EXTEND CIRCUIT THROUGH DISCONNECT SWITCH. INTERCONNECT EXHAUST FAN WITH DISHMACHINE.
E62B	A113RRRRRRR	Space	DISHMACHINE BOOSTER HEATER	480 V	3	40.10 A	14K1	14,16,18	F50	3	0	1	EXTEND CIRCUIT THROUGH DISCONNECT SWITCH. INTERCONNECT BOOSTER HEATER WITH DISHMACHINE.
E65	A113RRRRRRR	Space	GARBAGE DISPOSAL SYSTEM	480 V	3	2.20 A	14K1	8,10,12	F20	3	0	1	EXTEND DIRECT CONNECTION SERVICE THROUGH KEC FURNISHED CONTROL PANEL; STUB UP
E71A	B116	KITCHEN	TWO DOOR PASS-THRU HEATED CABINET	208 V	1	14.42 A	12K2	51,53	F20	2	0	1	DIRECT CONNECTION; +90" A.F.F. ON WALL ABOVE UNIT
E71B	B116	KITCHEN	TWO DOOR PASS-THRU HEATED CABINET	208 V	1	14.42 A	12K2	57,59	F20	2	0	1	DIRECT CONNECTION; +90" A.F.F. ON WALL ABOVE UNIT
E72A	B116	KITCHEN	TWO DOOR PASS-THRU REFRIGERATOR	120 V	1	5.90 A	12K2	55	F20	1	1	1	PLUG CONNECTION; +90" A.F.F. TO C.L.; NEMA 5-20 RECEPTACLE; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E72B	B116	KITCHEN	TWO DOOR PASS-THRU REFRIGERATOR	120 V	1	5.90 A	12K2	61	F20	1	1	1	PLUG CONNECTION; +90" A.F.F. TO C.L.; NEMA 5-20 RECEPTACLE; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E73A	A113CCCCCCCCC	Space	SINGLE SIDED 16-CRATE MILK COOLER	120 V	1	2.70 A	12EQB1	4	F20	1	1	1	PLUG CONNECTION; +18" A.F.F. TO C.L.; NEMA 5-20 RECEPTACLE; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E73B	A113CCCCCCCCC	Space	SINGLE SIDED 16-CRATE MILK COOLER	120 V	1	2.70 A	12EQB1	6	F20	1	1	1	PLUG CONNECTION; +18" A.F.F. TO C.L.; NEMA 5-20 RECEPTACLE; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E78	A113CCCCCCCCC	Space	DROP-IN FOUR PAN HOT WELL (SLIMLINE)	208 V	1	10.80 A	12K2	44,46	F20	2	0	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF SERVING COUNTER BASE; STUB UP
E79	A113CCCCCCCCC	Space	HOT FOOD BREATH GUARD	120 V	1	1.00 A	12K2	48	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF SERVING COUNTER BASE; STUB UP
E80	A113CCCCCCCCC	Space	DROP-IN THREE PAN FROST TOP (SLIMLINE)	120 V	1	3.80 A	12K2	50	F20	1	1	1	PLUG CONNECTION; NEMA 5-20 RECEPTACLE IN OUTLET BOX ON UNDERSIDE OF SERVING COUNTER BASE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E81	A113CCCCCCCCC	Space	FROST TOP BREATH GUARD	120 V	1	1.00 A	12K2	48	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF SERVING COUNTER BASE; STUB UP
E86	A113CCCCCCCCC	Space	DROP-IN FOUR PAN HOT WELL (SLIMLINE)	208 V	1	10.80 A	12K2	52,54	F20	2	0	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF SERVING COUNTER BASE; STUB UP
E87	A113CCCCCCCCC	Space	HOT FOOD BREATH GUARD	120 V	1	1.00 A	12K2	56	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF SERVING COUNTER BASE; STUB UP
E88	A113CCCCCCCCC	Space	DROP-IN THREE PAN FROST TOP (SLIMLINE)	120 V	1	3.80 A	12K2	58	F20	1	1	1	PLUG CONNECTION; NEMA 5-20 RECEPTACLE IN OUTLET BOX ON UNDERSIDE OF SERVING COUNTER BASE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E89	A113CCCCCCCCC	Space	FROST TOP BREATH GUARD	120 V	1	1.00 A	12K2	56	F20	1	1	1	DIRECT CONNECTION TO JUNCTION BOX ON UNDERSIDE OF SERVING COUNTER BASE; STUB UP
E93	A113CCCCCCCCC	Space	ICE CREAM NOVELTY FREEZER	120 V	1	16.00 A	12K2	60	F20	1	1	1	PLUG CONNECTION; NEMA 5-20 RECEPTACLE IN OUTLET BOX ON UNDERSIDE OF SERVING COUNTER BASE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER
E95	A113CCCCCCCCC	Space	POINT OF SALE SYSTEM	120 V	1	16.00 A	12K2	62	F20	1	1	1	PLUG CONNECTION; NEMA 5-20 RECEPTACLE IN OUTLET BOX ON UNDERSIDE OF SERVING COUNTER BASE; STUB UP; CIRCUIT PROTECTED BY GFCI CIRCUIT BREAKER

A1

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Project No. 2021-141.NES
Project Date 05.11.2022
Produced EAG

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NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
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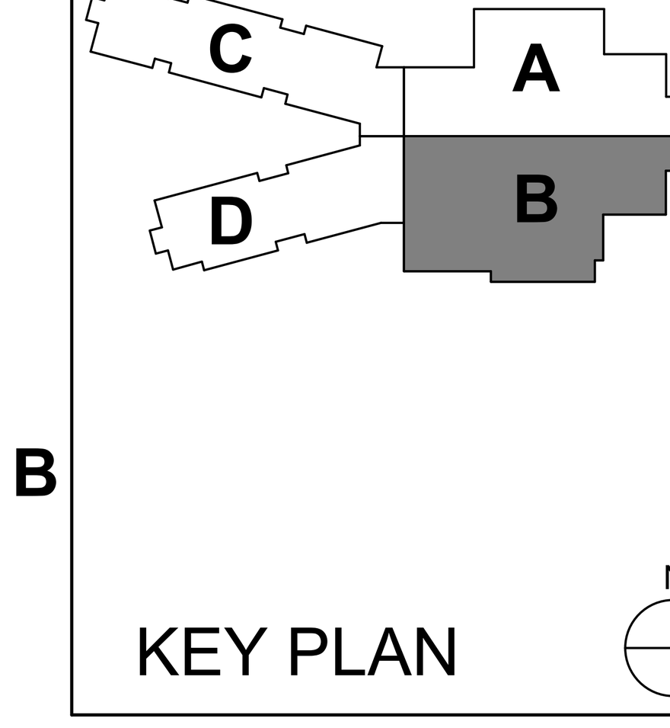


KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

KITCHEN EQUIPMENT SCHEDULE

E-403

FEEDER SCHEDULE (ALUMINUM)

FEEDER LABEL	CONDUCTOR SIZE PER CONDUIT: PHASE & NEUTRAL	CONDUCTOR SIZE PER CONDUIT: EQUIP/SERV GROUND	CONDUIT SIZE & QUANTITY: 3P,1G	CONDUIT SIZE & QUANTITY: 3P,1N,1G	CONDUIT SIZE & QUANTITY: 3P,2N,1G
F100	1/0	6	1-1/2"	2"	2"
F110	1/0	4	1-1/2"	2"	2"
F125	2/0	4	1-1/2"	2"	2"
F150	3/0	4	2"	2"	2-1/2"
F175	4/0	4	2"	2-1/2"	2-1/2"
F200	250	4	2"	2-1/2"	3"
F225	300	2	2-1/2"	3"	3"
F250	350	2	2-1/2"	3"	3"
F300	500	2	3"	3"	3-1/2"
F350	4/0	1	(2) 2"	(2) 2-1/2"	(2) 2-1/2"
F400	250	1	(2) 2-1/2"	(2) 2-1/2"	(2) 3"
F450	300	1/0	(2) 2-1/2"	(2) 3"	(2) 3"
F500	350	1/0	(2) 2-1/2"	(2) 3"	(2) 3"
F600	500	2/0	(2) 3"	(2) 3-1/2"	(2) 3-1/2"
F700	350	3/0	(3) 2-1/2"	(3) 3"	(3) 3"
F800	500	3/0	(3) 3"	(3) 3-1/2"	(3) 3-1/2"
F900	500	4/0	(3) 3"	(3) 3-1/2"	(3) 3-1/2"
F1000	350	4/0	(4) 3"	(4) 3-1/2"	(4) 3-1/2"
F1200	500	250	(4) 3"	(4) 3-1/2"	(4) 3-1/2"
F1600	500	350	(6) 3"	(6) 3-1/2"	(6) 4"
F2000	500	400	(7) 3"	(7) 3-1/2"	(7) 4"
F2500	500	600	(9) 3-1/2"	(9) 3-1/2"	(9) 4"
F3000	500	600	(10) 3-1/2"	(10) 3-1/2"	(10) 4"

FEEDER & BRANCH CIRCUIT SCHEDULE (COPPER)

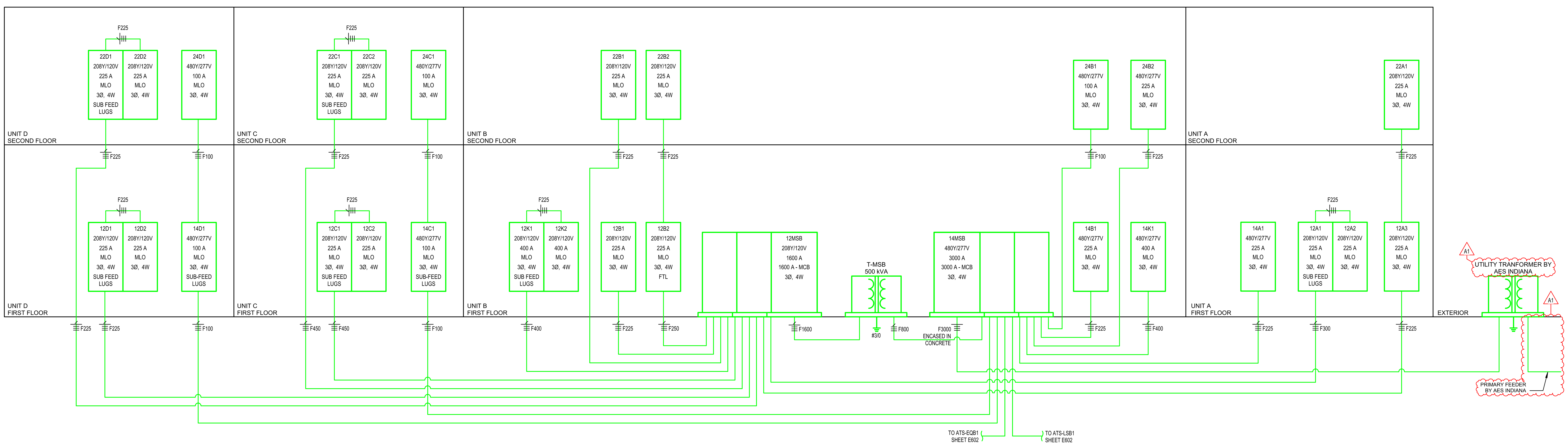
FEEDER/BRANCH CIRCUIT LABEL	CONDUCTOR SIZE PER CONDUIT: PHASE & NEUTRAL	CONDUCTOR SIZE PER CONDUIT: EQUIP/SERV GROUND	1P,1N,1G / 2P,1G	2P,1N,1G / 3P,1G	3P,1N,1G / 3P,1N	3P,2N,1G	3P,3N,1G	3P,1N,2G
F20	12	12	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
F30	10	10	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
F40	8	10	3/4"	3/4"	1"	1"	1"	1"
F50	6	10	1"	1"	1"	1-1/4"	1-1/4"	1"
F60	4	10	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
F70	4	8	1"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/4"
F80	3	8	1"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/4"
F90	2	8	1"	1-1/4"	1-1/2"	1-1/2	2"	1-1/2"
F100	1	8	1-1/4"	1-1/2"	1-1/2"	2"	2"	2"
F110	1	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F125	1/0	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F150	1/0	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F175	2/0	6	1-1/2"	2"	2"	2-1/2"	2-1/2"	2"
F200	3/0	6	1-1/2"	2"	2"	2-1/2"	3"	2-1/2"
F225	4/0	4	2"	2"	2-1/2"	3"		2-1/2"
F250	250	4	2"	2-1/2"	3"	3"		3"
F300	350	4	2"	2-1/2"	3"	3-1/2"		3"
F350	500	3	2-1/2"	3"	3-1/2"	4"		3-1/2"
F400	3/0	3	(2) 1-1/2"	(2) 2"	(2) 2-1/2"	(2) 2-1/2"		(2) 2-1/2"
F450	4/0	2	(2) 2"	(2) 2"	(2) 2-1/2"	(2) 3"		(2) 2-1/2"
F500	250	2	(2) 2"	(2) 2-1/2"	(2) 3"	(2) 3"		(2) 3"
F600	350	1	(2) 2-1/2"	(2) 3"	(2) 3"	(2) 3-1/2"		(2) 3"
F700	500	1/0	(2) 2-1/2"	(2) 3"	(2) 3-1/2"	(2) 4"		(2) 3-1/2"
F800	350	2/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"		(3) 3"
F900	350	2/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"		
F1000	500	2/0	(3) 2-1/2"	(3) 3"	(3) 3-1/2"	(3) 4"		
F1200	350	3/0	(4) 2-1/2"	(4) 3"	(4) 3"	(4) 3-1/2"		
F1600	500	4/0	(5) 3"	(5) 3"	(5) 3-1/2"	(5) 4"		
F2000	500	250	(6) 3"	(6) 3"	(6) 3-1/2"	(6) 4"		
F2500	500	350	(7) 4"	(7) 3-1/2"	(7) 3-1/2"	(7) 4"		
F3000	500	500	(8) 4"		(8) 4"	(8) 4"		

GENERAL ONE-LINE DIAGRAM NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

ONE-LINE DIAGRAM NOTES

#	NOTES
1	PROVIDE CONTACTS, (1) 1"C AND CONTROL WIRING FROM ATS-LSB1 TO GENERATOR CONTROL PANEL FOR GENERATOR ENGINE START SIGNAL.
2	PROVIDE CONTACTS, (1) 1"C AND CONTROL WIRING FROM ATS-LSB1 TO GENERATOR DOCKING STATION FOR PORTBLE GENERATOR ENGINE START SIGNAL.
3	PROVIDE CONTACTS, (1) 1"C AND CONTROL WIRING FROM ATS-EQB1 TO GENERATOR CONTROL PANEL FOR GENERATOR ENGINE START SIGNAL.
4	PROVIDE CONTACTS, (1) 1"C AND CONTROL WIRING FROM ELEVATOR CONTROLLER TO ATS-EQ FOR SIGNAL BEFORE TRANSFER.
5	PROVIDE CONTACTS, (1) 1"C AND CONTROL WIRING FROM GENERATOR CONTROL PANEL TO EMERGENCY STOP BUTTON.
6	PROVIDE CONTACTS, (1) 1"C AND CONTROL WIRING FROM GENERATOR CONTROL PANEL TO GENERATOR ANNUNCIATOR PANEL.
7	PROVIDE CONTACTS, (1) 1"C AND CONTROL WIRING FROM GENERATOR CONTROL PANEL TO ELEVATOR EMERGENCY POWER INDICATOR.
8	CIRCUIT CONNECTION FOR BATTERY CHARGER. REFER TO FLOOR PLAN FOR CIRCUIT.
9	CIRCUIT CONNECTION FOR BLOCK HEATER. REFER TO FLOOR PLAN FOR CIRCUIT.
10	GENERATOR DOCKING STATION. REFER TO SPECIFICATIONS AND SCHEMATICS FOR ADDITIONAL INFORMATION.



1A ONE-LINE DIAGRAM
1/8" = 1'-0"

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Project No. 2021-141.NES
Project Date 05.11.2022
Produced EAG

SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT NO. AR10400134 STATE OF INDIANA

#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
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KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

ONE-LINE DIAGRAM

E-601

GENERAL LIGHT FIXTURE SCHEDULE NOTES

#	NOTES
A	REFER TO LIGHT FIXTURE SCHEDULE AND REFLECTED CEILING PLANS FOR MOUNTING REQUIREMENTS, CEILING TYPES, AND FINAL LOCATIONS. PROVIDE APPROPRIATE MOUNTING TRIM REQUIRED FOR CEILING TYPE.
B	PROVIDE FACTORY INSTALLED DISCONNECTS FOR ALL LINEAR FIXTURES.
C	PROVIDE VIBRATION DAMPERS FOR ALL ALUMINUM & STEEL POLES 20'-0" AND ABOVE.
D	PROVIDE SELF-DIAGNOSTICS AND SELF-TESTING FOR ALL LIFE SAFETY FIXTURES (EXIT FIXTURES, WALL PACKS, INVERTERS BALLASTS, ETC.)

265119/265619/26213.1 - INTERIOR/EXTERIOR/EMERGENCY & EXIT LIGHT FIXTURES SCHEDULE

LABEL	DESCRIPTION	VOLTAGE	SOURCE				MOUNTING	LENS/REFLECTOR	CERTIFICATIONS	ACCEPTABLE MANUFACTURERS	LABEL
			TYPE	LUMENS	WATTS	CCT					
L1	2X4 EDGE LIT LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	3,500 LM	30 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA SRP24 LITHONIA EPANL 24	L1
L1S	2X4 EDGE LIT LED FLAT PANEL. 0-10V DIMMING. CONNECT THROUGH EMERGENCY SHUNT RELAY (UL 924 DEVICE) TO EMERGENCY CIRCUIT.	120/277 V	LED	3,500 LM	30 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA SRP24 LITHONIA EPANL 24	L1S
L2	2X4 EDGE LIT LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	4,400 LM	47 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA SRP24 LITHONIA EPANL 24	L2
L3	2X4 EDGE LIT LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	5,500 LM	50 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA SRP24 LITHONIA EPANL 24	L3
L3S	2X4 EDGE LIT LED FLAT PANEL. 0-10V DIMMING. CONNECT THROUGH EMERGENCY SHUNT RELAY (UL 924 DEVICE) TO EMERGENCY CIRCUIT.	120/277 V	LED	5,500 LM	50 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA SRP24 LITHONIA EPANL 24	L3S
L4	2X4 EDGE LIT LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	6,400 LM	69 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA SRP24 LITHONIA EPANL 24	L4
L4S	2X4 EDGE LIT LED FLAT PANEL. 0-10V DIMMING. CONNECT THROUGH EMERGENCY SHUNT RELAY (UL 924 DEVICE) TO EMERGENCY CIRCUIT.	120/277 V	LED	6,400 LM	69 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA SRP24 LITHONIA EPANL 24	L4S
L5	2X2 EDGE LIT LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	2,000 LM	21 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 22FP COLUMBIA SRP22 LITHONIA EPANL 22	L5
L5S	2X2 EDGE LIT LED FLAT PANEL. 0-10V DIMMING. CONNECT THROUGH EMERGENCY SHUNT RELAY (UL 924 DEVICE) TO EMERGENCY CIRCUIT.	120/277 V	LED	2,000 LM	21 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 22FP COLUMBIA SRP22 LITHONIA EPANL 22	L5S
L6	2X2 EDGE LIT LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	3,200 LM	32 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 22FP COLUMBIA SRP22 LITHONIA EPANL 22	L6
L6S	2X2 EDGE LIT LED FLAT PANEL. 0-10V DIMMING. CONNECT THROUGH EMERGENCY SHUNT RELAY (UL 924 DEVICE) TO EMERGENCY CIRCUIT.	120/277 V	LED	3,200 LM	32 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 22FP COLUMBIA SRP22 LITHONIA EPANL 22	L6S
L7S	46" LONG, LED STAIR FIXTURE. 18 GAUGE STEEL. INTEGRAL ULTRASONIC ZONELESS ACTIVATED SENSOR. BLACK FINISH. CONNECT THROUGH EMERGENCY SHUNT RELAY (UL 924 DEVICE) TO EMERGENCY CIRCUIT.	120/277 V	LED	7,600 LM	50 W	3500 K	HORIZONTAL ON WALL	CLEAR PRISMATIC	N/A	LUMINAIRE TSL9 NEW STAR LIGHTING VIC2W PARAMOUNT VRSW9	L7S A1
L8	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	3,000 LM	27 W	3500 K	SURFACE/WALL	SEMI-FROSTED CURVED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L8
L9	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	3,000 LM	27 W	3500 K	SURFACE MOUNTED	SEMI-FROSTED CURVED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L9
L10	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	3,000 LM	27 W	3500 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED CURVED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L10
L11	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	5,000 LM	45 W	3500 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED CURVED LENS	DLC	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L11
L12	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	6,500 LM	62 W	3500 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED CURVED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L12
L12S	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH. CONNECT THROUGH EMERGENCY SHUNT RELAY (UL 924 DEVICE) TO EMERGENCY CIRCUIT.	120/277 V	LED	6,500 LM	62 W	3500 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED CURVED LENS	N/A	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L12S
L13	4' LED VAPORTIGHT FIXTURE. FIBERGLASS HOUSING. U.L. LISTED WET LOCATION.	120/277 V	LED	4,000 LM	38 W	3500 K	SURFACE/WALL	IMPACT RESISTANT, GASKETED PRISMATIC LENS	N/A	METALUX 4VT2 COLUMBIA LXEM4 LITHONIA FEM4 LED	L13
L14	4" SQUARE LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING.	120/277 V	LED	1,000 LM	11 W	3500 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LDSQ4B PRESCOLITE LTR-4SQD GOTHAM EVO	L14
L15 A1	8" SQUARE LED CYLINDER WALL SCONCE FIXTURE WITH UP AND DOWN DISTRIBUTION AND ADJUSTABLE OPTICS. 0-10V DIMMING DRIVER. CHAMPAGNE FINISH.	120/277 V	LED	4,000 LM UP 4,000 LM DOWN	81 W	3500 K	WALL MOUNTED	SEMI-SPECULAR CLEAR WITH TILT ADJUSTMENT	N/A	LUMINIS SQ802 PROVIDE AN ALLOWANCE OF $1,517 PER FIXTURE FOR MATERIAL ONLY, ADD LABOR REQUIRED FOR INSTALLATION.	L15
L16	8" SQUARE LED CYLINDER WALL SCONCE FIXTURE WITH DOWN DISTRIBUTION AND ADJUSTABLE OPTICS. 0-10V DIMMING DRIVER. CHAMPAGNE FINISH.	120/277 V	LED	7,000 LM	55 W	3500 K	WALL MOUNTED	SEMI-SPECULAR CLEAR WITH TILT ADJUSTMENT	N/A	LUMINIS SQ802 PROVIDE AN ALLOWANCE OF $1,148 PER FIXTURE FOR MATERIAL ONLY, ADD LABOR REQUIRED FOR INSTALLATION.	L16
L17	8" SQUARE LED CYLINDER WALL SCONCE FIXTURE WITH UP AND DOWN DISTRIBUTION AND ADJUSTABLE OPTICS. 0-10V DIMMING DRIVER. CHAMPAGNE FINISH.	120/277 V	LED	7,000 LM UP 7,000 LM DOWN	110 W	3500 K	WALL MOUNTED	SEMI-SPECULAR CLEAR WITH TILT ADJUSTMENT	N/A	LUMINIS SQ802 PROVIDE AN ALLOWANCE OF $1,517 PER FIXTURE FOR MATERIAL ONLY, ADD LABOR REQUIRED FOR INSTALLATION.	L17
L17S	8" SQUARE LED CYLINDER WALL SCONCE FIXTURE WITH UP AND DOWN DISTRIBUTION AND ADJUSTABLE OPTICS. 0-10V DIMMING DRIVER. CHAMPAGNE FINISH. CONNECT THROUGH EMERGENCY SHUNT RELAY (UL 924 DEVICE) TO EMERGENCY CIRCUIT.	120/277 V	LED	7,000 LM UP 7,000 LM DOWN	110 W	3500 K	WALL MOUNTED	SEMI-SPECULAR CLEAR WITH TILT ADJUSTMENT	N/A	LUMINIS SQ802 PROVIDE AN ALLOWANCE OF $1,517 PER FIXTURE FOR MATERIAL ONLY, ADD LABOR REQUIRED FOR INSTALLATION.	L17S
L18	15" X 18" LED HIGHBAY. WHITE ALUMINUM HOUSING. WIDE DISTRIBUTION. 0-10V DIMMING.	120/277 V	LED	18,000 LM	150 W	4000 K	CABLE MOUNTED WITH SEPARATE SAFETY CABLE	HIGH IMPACT POLYCARBONATE LENS	DLC	METALUX VHB COLUMBIA PEL LITHONIA CPHB	L18
L18S	15" X 18" LED HIGHBAY. WHITE ALUMINUM HOUSING. WIDE DISTRIBUTION. 0-10V DIMMING. CONNECT THROUGH EMERGENCY SHUNT RELAY (UL 924 DEVICE) TO EMERGENCY CIRCUIT.	120/277 V	LED	18,000 LM	150 W	4000 K	CABLE MOUNTED WITH SEPARATE SAFETY CABLE	HIGH IMPACT POLYCARBONATE LENS	DLC	METALUX VHB COLUMBIA PEL LITHONIA CPHB	L18S
L19	2X4 PRISMATIC LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING. WHITE COLOR TEMPERATURE TUNABLE.	120/277 V	LED	3,400 LM	28 W	2700 K - 6500 K	RECESSED IN GRID	PATTERN 12 FROST ACRYLIC LENS, 0.125" MINIMUM	DLC	METALUX 24GR COLUMBIA LJT24 LITHONIA 2GTL	L19
L20	LED CANOPY DOWNLIGHT. CAST ALUMINUM HOUSING. PENDANT MOUNT. WIDE DISTRIBUTION. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. PROVIDE ANTI-BIRD SPIKES OR GUARD(S) ON TOP OF FIXTURE.	120/277 V	LED	3,000 LM	26 W	4000 K	PENDANT SUSPENDED	IMPACT RESISTANT FROSTED LENS	N/A	RAB PLED2X13N McGRAW EDISON TT BEACON SRT1	L20 A1
L21	LED WALL LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	2,600 LM	30 W	4000 K	WALL MOUNTED	TYPE IV DISTRIBUTION	N/A	MCGRAW-EDISON ISS SPAULDING QSP LITHONIA WSQ	L21
L22	LED WALL LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	4,300 LM	50 W	4000 K	WALL MOUNTED	TYPE IV DISTRIBUTION	N/A	MCGRAW-EDISON ISS SPAULDING QSP LITHONIA WSQ	L22
S1	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (1) HEAD.	480 V	LED	22,000 LM	150 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE IV DISTRIBUTION	N/A	LUMARK PRV-XL BEACON VPS LITHONIA RSX2	S1
S2	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (2) HEADS, 180° APART.	480 V	LED	22,000 LM	300 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE IV DISTRIBUTION	N/A	LUMARK PRV-XL BEACON VPS LITHONIA RSX2	S2
S3	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (1) HEAD.	480 V	LED	22,000 LM	150 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE IV DISTRIBUTION	N/A	LUMARK PRV-XL BEACON VPS LITHONIA RSX2	S3
S3H	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (1) HEAD. HOUSE SIDE SHIELD.	480 V	LED	22,000 LM	150 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE IV DISTRIBUTION	N/A	LUMARK PRV-XL BEACON VPS LITHONIA RSX2	S3H
S4	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (4) HEADS, 90° APART.	480 V	LED	22,000 LM	600 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE IV DISTRIBUTION	N/A	LUMARK PRV-XL BEACON VPS LITHONIA RSX2	S4
S5	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (1) HEAD.	480 V	LED	10,000 LM	72 W	4000 K	12' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE III DISTRIBUTION	N/A	LUMARK PRV-P BEACON VPS LITHONIA RSX1	S5
S6	LED FLOOD LIGHT WITH KNUCKLE BASE AND VISOR. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. DARK BRONZE FINISH. SPOT DISTRIBUTION. U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	5,500 LM	52 W	4000 K	KNUCKLE MOUNT ON IN GROUND CONCRETE FOUNDATION	IMPACT RESISTANT TEMPERED GLASS	DLC	LUMARK NFFLD-S HUBBELL OUTDOOR MHS LITHONIA QTE LED	S6
X1C1	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. AC ONLY.	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	SURE-LITES CX DUAL-LITE SE LITHONIA LE	X1C1
X1W1	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. AC ONLY	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	SURE-LITES CX DUAL-LITE SE LITHONIA LE	X1W1
X1W2	VANDAL PROOF LED EXIT LIGHT, DIE-CAST ALUMINUM HOUSING, BLACK FINISH. SINGLE FACE. STENCIL FACE, RED LETTERS. AC ONLY	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	VANDAL-RESISTANT POLYCARBONATE SHIELD WITH TAMPERPROOF SCREWS	N/A	SURE-LITES UX DUAL-LITE SEWL LITHONIA LV	X1W2
X2C1	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. DUAL FACE. STENCIL FACE, RED LETTERS. AC ONLY.	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	SURE-LITES CX DUAL-LITE SE LITHONIA LE	X2C1

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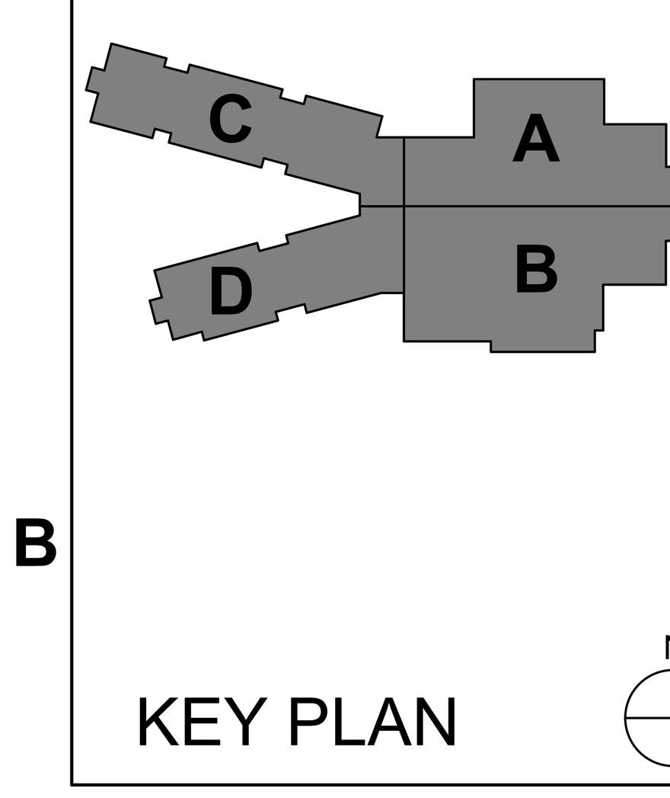
SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

LIGHTING SCHEDULES

E-605

263600.1 - TRANSFER SWITCHES SCHEDULE

LABEL	LOCATION NUMBER	LOCATION NAME	EQUIPMENT SERVED	VOLTAGE	PHASE	AMPERAGE	POLES	NEMA ENCL	WCR RATING	CONTROL	ACCESSORIES	REMARKS
ATS-EQB1	B124	ELEC	14DPEQB1	480Y/277	3	400 A	3	1		AUTOMATIC - OPEN TRANSITION		
ATS-LSB1	B124	ELEC	14LSB1	480Y/277	3	260 A	3	1		AUTOMATIC - OPEN TRANSITION		

262213.1 - LOW-VOLTAGE DISTRIBUTION TRANSFORMERS SCHEDULE

LABEL	LOCATION		EQUIPMENT SERVED	EQUIPMENT RATINGS					VOLTAGE		CONNECTION		FEEDER SIZES		GROUNDING / BONDING		REMARKS
	NUMBER	NAME		KVA	PHASE	TYPE	MOUNT	NEMA ENCL	PRIMARY	SECONDARY	PRIMARY	SECONDARY	PRIMARY	SECONDARY	GEC	SBJ / SSBJ	
T-EQB1	B124	ELEC	14EQB1	75	3	DRY	FLOOR	2	480 V	208Y/120	DELTA	WYE	F150	F225	1#2GND, 1"C	1#2GND, 1"C	
T-LSB1	B124	ELEC	12LSB1	75	3	DRY	FLOOR	2	480 V	208Y/120	DELTA	WYE	F150	F225	1#2GND, 1"C	1#2GND, 1"C	
T-MSB	B124	ELEC	12MDP	500	3	DRY	FLOOR	2	480 V	208Y/120	DELTA	WYE	F800	F1600	1#3/0GND, 1"C	1#350GND, 1"C	
UTILITY					1				12500 V								

262816.1 - ENCLOSED SWITCHES & CIRCUIT BREAKERS SCHEDULE

LABEL	LOCATION		EQUIPMENT SERVED	EQUIPMENT RATINGS						ACCESSORIES		REMARKS
	NUMBER	NAME		VOLTAGE	POLES	AMPERAGE	FUSED	FUSE SIZE	NEMA ENCL	AUX. CONTACTS	SOLID NEUTRAL	
DS-A1	A113	GYM	BASKETBALL GOAL	120V	1	30 A	Yes	20 A	1	(1) N.O. / N.C.	Yes	PROVIDE CONTROL WIRING TO KEYED SWITCHES.
DS-A2	A113	GYM	BASKETBALL GOAL	120V	1	30 A	Yes	20 A	1	(1) N.O. / N.C.	Yes	PROVIDE CONTROL WIRING TO KEYED SWITCHES.
DS-A3	A113	GYM	BASKETBALL GOAL	120V	1	30 A	Yes	20 A	1	(1) N.O. / N.C.	Yes	PROVIDE CONTROL WIRING TO KEYED SWITCHES.
DS-A4	A113	GYM	BASKETBALL GOAL	120V	1	30 A	Yes	20 A	1	(1) N.O. / N.C.	Yes	PROVIDE CONTROL WIRING TO KEYED SWITCHES.
DS-A5	A113	GYM	BASKETBALL GOAL	120V	1	30 A	Yes	20 A	1	(1) N.O. / N.C.	Yes	PROVIDE CONTROL WIRING TO KEYED SWITCHES.
DS-A6	A113	GYM	BASKETBALL GOAL	120V	1	30 A	Yes	20 A	1	(1) N.O. / N.C.	Yes	PROVIDE CONTROL WIRING TO KEYED SWITCHES.
DS-A7	A113	GYM	BLEACHERS	240 V	3	30 A	Yes	20 A	1	(1) N.O. / N.C.	Yes	
DS-A8	A113	GYM	BLEACHERS	240 V	3	30 A	Yes	20 A	1	(1) N.O. / N.C.	Yes	
DS-A9	A113	GYM	GYMNASIUM DIVIDER CURTAIN	120V	1	30 A	Yes	20 A	1	(1) N.O. / N.C.	Yes	
DS-A10	A202A	KILN	KILN 1	240 V	2	60 A	Yes	50 A	1	(1) N.O. / N.C.	No	
DS-A11	A202A	KILN	KILN 2	240 V	2	60 A	Yes	50 A	1	(1) N.O. / N.C.	No	
DS-B1	B128	MECH	BOILER B-1	240 V	3	30 A	Yes	20A	1	(1) N.O. / N.C.	No	
DS-B2	B128	MECH	BOILER B-2	240 V	3	30 A	Yes	20A	1	(1) N.O. / N.C.	No	
DS-B3	B128	MECH	BOILER B-3	240 V	3	30 A	Yes	20A	1	(1) N.O. / N.C.	No	
DS-B4	B123	RECEIVING	AIR CURTAIN AC-1	240 V	2	60 A	Yes	60 A	1	(1) N.O. / N.C.	No	
DS-B5	B123	RECEIVING	AIR CURTAIN AC-2	240 V	2	60 A	Yes	60 A	1	(1) N.O. / N.C.	No	
DS-B6	B132	ELEV EQUIP.	ELEVATOR MOTOR	600 V	3	100 A	Yes	60A	1	(1) N.O. / N.C.	No	
DS-B7	B132	ELEV EQUIP.	ELEVATOR CAB LIGHTS AND FAN	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-B8			SPLIT SYSTEM CONDENSER CU-B1	240 V	2	30 A	Yes	30 A	3R	(1) N.O. / N.C.	No	
DS-B9	B110	MDF	MINI SPLIT INTERIOR SS-B1	240 V	2	30 A	Yes	20 A	1	(1) N.O. / N.C.	No	
DS-B10			SPLIT SYSTEM CONDENSER CU-B2	240 V	2	30 A	Yes	30 A	3R	(1) N.O. / N.C.	No	
DS-B11	B124	ELEC	MINI SPLIT INTERIOR SS-B2	240 V	2	30 A	Yes	20 A	1	(1) N.O. / N.C.	No	
DS-B12	A113RRRRRRR	Space	DISHMACHINE	600 V	3	60 A	Yes	40 A	4X	(1) N.O. / N.C.	No	
DS-B13	A113RRRRRRR	Space	BOOSTER HEATER	600 V	3	60 A	Yes	50 A	4X	(1) N.O. / N.C.	No	
DS-B14			WALK-IN COOLER CONDENSING UNIT	240 V	3	30 A	Yes	20 A	3R	(1) N.O. / N.C.	No	
DS-B15			WALK-IN FREEZER CONDENSING UNIT	240 V	3	60 A	Yes	35 A	3R	(1) N.O. / N.C.	No	
DS-C1			SPLIT SYSTEM CONDENSER CU-C1	240 V	2	30 A	Yes	30 A	3R	(1) N.O. / N.C.	No	
DS-C2	C107A	TECH.	MINI SPLIT INTERIOR SS-C1	240 V	2	30 A	Yes	20 A	1	(1) N.O. / N.C.	No	
DS-D1			SPLIT SYSTEM CONDENSER CU-D1	240 V	2	30 A	Yes	30 A	3R	(1) N.O. / N.C.	No	
DS-D2	D107A	TECH	MINI SPLIT INTERIOR SS-D1	240 V	2	30 A	Yes	20 A	1	(1) N.O. / N.C.	No	

262913/262923.1 - ENCLOSED & VARIABLE-FREQUENCY MOTOR CONTROLLERS SCHEDULE

LABEL	LOCATION		EQUIPMENT SERVED	EQUIPMENT RATINGS					STARTER		DISCONNECT SWITCH		REMOTE CAPACITOR	REMARKS
	NUMBER	NAME		VOLTAGE	PHASE	HP	FLA	NEMA ENCL	TYPE	NEMA SIZE	TYPE	FUSE SIZE		
DS-B15	B200	MECH	EXHAUST FAN EF-1	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-A1	A200	MECH	EXHAUST FAN EF-1							-	-	-	-	
MS-A2										-	-	-	-	
MS-A3										-	-	-	-	
MS-B1	B128	MECH	HWP-1	480 V	3	15	21.0 A	1	VFD	-	-	-	-	FURNISHED BY TEMPERATURE CONTROLS CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR.
MS-B2	B128	MECH	HWP-2	480 V	3	15	21.0 A	1	VFD	-	-	-	-	FURNISHED BY TEMPERATURE CONTROLS CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR.
MS-B3	B128	MECH	PCWP-1	480 V	3	15	21.0 A	1	VFD	-	-	-	-	FURNISHED BY TEMPERATURE CONTROLS CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR.
MS-B4	B128	MECH	PCWP-2	480 V	3	15	21.0 A	1	VFD	-	-	-	-	FURNISHED BY TEMPERATURE CONTROLS CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR.
MS-B5	B128	MECH	SCWP-2	480 V	3	10	14.0 A	1	VFD	-	-	-	-	FURNISHED BY TEMPERATURE CONTROLS CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR.
MS-B6	B128	MECH	SCWP-1	480 V	3	10	14.0 A	1	VFD	-	-	-	-	FURNISHED BY TEMPERATURE CONTROLS CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR.
MS-B7	B128	MECH	HWCP-1	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-B8	B128	MECH	HWCP-2	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-B9	B128	MECH	HWCP-3	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-B10			RTU-1 SUPPLY FAN	480 V	3	7.5	11.0 A	3R	VFD	-	-	-	-	FURNISHED BY TEMPERATURE CONTROLS CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR.
MS-B11	B200	MECH	AHU-1 SUPPLY FAN	480 V	3	15	21.0 A	1	VFD	-	-	-	-	FURNISHED BY TEMPERATURE CONTROLS CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR.
MS-B12	B200	MECH	AHU-1 RETURN FAN	480 V	3	10	14.0 A	1	VFD	-	-	-	-	FURNISHED BY TEMPERATURE CONTROLS CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR.
MS-B13	B200	MECH	AHU-2 SUPPLY FAN	480 V	3	5	7.6 A	1	VFD	-	-	-	-	FURNISHED BY TEMPERATURE CONTROLS CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR.
MS-B14	B200	MECH	AHU-2 RETURN FAN	480 V	3	2	3.4 A	1	VFD	-	-	-	-	FURNISHED BY TEMPERATURE CONTROLS CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR.
MS-B16	B201	ELEC		120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-C1	C213A	ELEC.	EXHAUST FAN EF-C1	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-C2	C213A	ELEC.	EXHAUST FAN EF-C2	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-C3	C213A	ELEC.	EXHAUST FAN EF-C3	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-C4	C213A	ELEC.	EXHAUST FAN EF-C4	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-C5	C213A	ELEC.	EXHAUST FAN EF-C5	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-C6	C107	ELEC.	EXHAUST FAN EF-C6	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-D1	D206	ELEC	EXHAUST FAN EF-D1	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
MS-D2	D206	ELEC	EXHAUST FAN EF-D2	120 V	1	1/2	9.8 A	-	1	-	-	-	-	
PROJECTOR	A113	GYM		120 V	1	1/2	9.8 A	-	1	-	-	-	-	

262913.1 - LIGHTING CONTACTORS SCHEDULE

LABEL	LOCATION		EQUIPMENT RATINGS					COIL CIRCUIT			CONTROL	CIRCUIT(S) CONTROLLED	REMARKS
	NUMBER	NAME	VOLTAGE	AMPERAGE	POLES	NEMA ENCL	ACCESSORIES	VOLTAGE	PANEL	CIRCUIT			
LC-B1	B124	ELEC	600 V	30 A	1	NEMA 1	H-O-A PILOT LIGHT DDC INTEGRATION	277 V	14B1	16	PHOTOCELL LOCATED ON ROOF	14B1-20,22,24,26,28,30,32,34,36,38	BUILDING EXTERIOR AND POLE MOUNTED SITE LIGHTING
LC-B2	B124	ELEC	600 V	30 A	1	NEMA 1	H-O-A PILOT LIGHT DDC INTEGRATION	277 V	14LSB1	42	PHOTOCELL LOCATED ON ROOF	14LSB1-18,20,22,24	BUILDING EXTERIOR EMERGENCY LIGHTING

A1

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Project No. 2021-141.NES
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Produced EAG

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REGISTERED
NO. AR10400134
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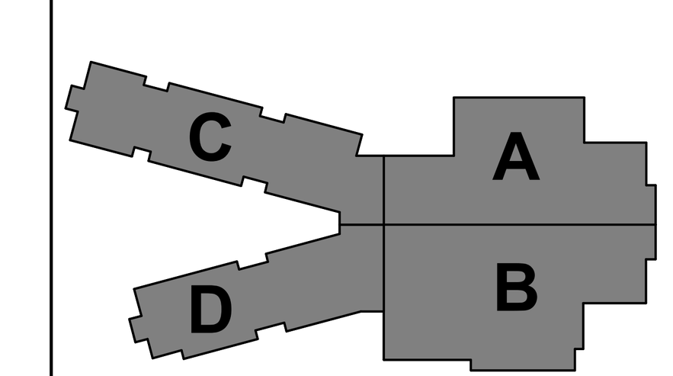
#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

EQUIPMENT SCHEDULES

E-606

PANELBOARD ABBREVIATIONS

#	NOTES
FTL	FEED THROUGH LUGS
MCB	MAIN CIRCUIT BREAKER
MFS	MAIN FUSED SWITCH
MLO	MAIN LUGS ONLY
SFL	SUB-FEED LUGS
SPD	SURGE PROTECTION DEVICE

CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS) ABBREVIATIONS

#	NOTES
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI.
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI.
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG.

GENERAL SWITCHBOARD/PANELBOARD NOTES

#	NOTES
A	VERIFY SIZE AND QUANTITY OF LUGS REQUIRED PER ONE-LINE DIAGRAM.
B	VERIFY PANEL / LUG SIZE REQUIRED FOR FEEDERS INDICATED ON ONE-LINE DIAGRAM. MODIFY AS REQUIRED FOR LARGER FEEDERS.
C	VERIFY CONDUIT ENTRY LOCATION ON EACH PANEL.
D	CONFIRM FINAL ROOM NAMES AND NUMBERS WITH OWNER PRIOR TO CREATING FINAL PANELBOARD DIRECTORIES.
E	MODIFY AIC RATINGS INDICATED ON SCHEDULES, AS REQUIRED, PER SPECIFICATION SECTION 260574.99.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 14B1 **VOLTS:** 480Y/277 V **MAINS RATING:** 225 A
LOCATION: ELEC B124 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 14MSB **AIC RATING:** 65,000

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	MECH B128	HWP-2	40 A	3	5.82	0.50					1	20 A	LIGHTING	B121, B123, B125, B127	2	
--	3	--	--	--	--			5.82	1.52			1	20 A	LIGHTING	B116, B122	4	
--	5	--	--	--	--					5.82	0.83	1	20 A	LIGHTING	B115	6	
	7	MECH B128	PCWP-1	40 A	3	5.82	0.65					1	20 A	LIGHTING	001, B117, B118, B119	8	
--	9	--	--	--	--			5.82	0.48			1	20 A	LIGHTING	A113s, A114, A115s, A116	10	
--	11	--	--	--	--					5.82	0.91	1	20 A	LIGHTING	MUSIC A117, STO. A117A	12	
	13	MECH B128	PCWP-2	40 A	3	5.82	0.23					1	20 A	LIGHTING	B113, B112A	14	
--	15	--	--	--	--			5.82	0.50			1	20 A	LC-B1	ELEC B124	16	
--	17	--	--	--	--					5.82	0.00	1	20 A		SPARE	18	--
	19	MECH B128	SCWP-1	25 A	3	3.88	1.05					2	20 A	LIGHTING	NORTH PARKING FAR SIDE POLES	20	
--	21	--	--	--	--			3.88	1.05			--	--	--	--	22	--
--	23	--	--	--	--					3.88	1.05	2	20 A	LIGHTING	NORTH PARKING NEAR SIDE...	24	
	25	MECH B128	SCWP-2	25 A	3	3.88	1.05					--	--	--	--	26	--
--	27	--	--	--	--			3.88	0.56			2	20 A	LIGHTING	SOUTH PARKING POLES	28	
--	29	--	--	--	--					3.88	0.56	--	--	--	--	30	--
--	31	SPARE		40 A	3	0.00	0.26					2	20 A	LIGHTING	SOUTHEAST PATH & CIRCLE...	32	
--	33	--	--	--	--			0.00	0.26			--	--	--	--	34	--
--	35	--	--	--	--					0.00	0.47	2	20 A	LIGHTING	WEST PATHWAY POLES (ALT)	36	
--	37	SPARE		25 A	3	0.00	0.47					--	--	--	--	38	--
--	39	--	--	--	--			0.00	0.00			2	20 A		SPARE	40	--
--	41	--	--	--	--					0.00	0.00	--	--	--	--	42	--
					TOTAL LOAD:	29.42 kVA		29.59 kVA		29.04 kVA							
					TOTAL AMPS:	106 A		107 A		105 A							

TOTAL CONNECTED LOAD:	88.05 kVA	89.33 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	107 A	107 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
C	CONTACTOR CONTROLLED	Lighting - Interior	5116 VA	125.00%	6395 VA
G	GFCI PROTECTED	Lighting - Exterior	6774 VA	100.00%	6774 VA
P	HANDLE LOCKING DEVICE	Mechanical - Motor	75660 VA	100.00%	75660 VA
S	SHUNT TRIP	LE	500 VA	100.00%	500 VA
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12B1 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: ELEC B124 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 12MSB **AIC RATING:** 25,000

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	RECEIVING B123	RECEPT	20 A	1	0.54	1.93					3	20 A	B-2	MECH B128	2	S
	3	OFFICE B127	RECEPT	20 A	1			0.72	1.93			--	--	--	--	4	--
	5	BREAK ROOM B125	RECEPT	20 A	1					0.54	1.93	--	--	--	--	6	--
	7	BREAK ROOM B125	RECEPT	20 A	1	0.36	1.93					3	20 A	B-3	MECH B128	8	S
G	9	BREAK ROOM B125	REFRIG	20 A	1			1.20	1.93			--	--	--	--	10	--
	11	BREAK ROOM B125	MWAVE	20 A	1					1.20	1.93	--	--	--	--	12	--
	13	LAUNDRY B126	WASHER	20 A	1	1.20	1.18					1	20 A	HWCP-1	MECH B128	14	
	15	LAUNDRY B126	DBF-1	20 A	1			0.18	0.50			1	20 A	DWS-1	MECH B128	16	
G	17	LAUNDRY B126	DRYER	30 A	2					2.00	1.18	1	20 A	HWCP-2	MECH B128	18	
--	19	--	--	--	--	2.00	1.18					1	20 A	HWCP-3	MECH B128	20	
	21	MECH B128	RECEPT	20 A	1			0.54	4.18			2	60 A	AC-1	RECEIVING B123	22	
	23	MECH B128	RECEPT	20 A	1					0.54	4.18	--	--	--	--	24	--
	25	MECH B128	RECEPT	20 A	1	0.54	4.18					2	60 A	AC-2	RECEIVING B123	26	
	27	EXTERIOR MECH YARD	RECEPT	20 A	1			0.36	4.18			--	--	--	--	28	--
	29	EXTERIOR MECH YARD	RECEPT	20 A	1					0.36	1.00	1	20 A		DOOR OPENER VEST. D001	30	
	31	EXTERIOR	RECEPT	20 A	1	0.36	0.34					1	20 A	CUH-6	VEST D001	32	
	33	D001, D002	RECEPT	20 A	1			0.54	0.72			1	20 A	RECEPT	B130, B129, B114, B131	34	
	35	D002, D001A	RECEPT	20 A	1					0.72	1.98	2	20 A		DS-B9, MINI SPLIT SS-5 ELEC B124	36	
	37	SWEEPER STOR. B131	RECEPT	20 A	1	0.18	1.98					--	--	--	--	38	--
	39	MECH B128	FCU-B1	15 A	1			0.90	0.90			1	15 A	FCU-B2	RECEIVING B123	40	
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
--	43	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	44	--
--	45	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	46	--
--	47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--
					TOTAL LOAD:	17.90 kVA		18.79 kVA		17.57 kVA							
					TOTAL AMPS:	150 A		157 A		146 A							

TOTAL CONNECTED LOAD:	54.26 kVA	51.61 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	157 A	143 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
C	CONTACTOR CONTROLLED	Receptacle - General	15300 VA	82.68%	12650 VA
G	GFCI PROTECTED	Mechanical - Motor	37959 VA	100.00%	37959 VA
P	HANDLE LOCKING DEVICE	Power - Continuous	1000 VA	100.00%	1000 VA
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12B2 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: Space A118 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 12MSB **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	LOUNGE B109	RECEPT	20 A	1	0.36	0.72					1	20 A	RECEPT	LOUNGE B109	2	
G	3	LOUNGE B109	FRIDGE	20 A	1			1.20	1.20			1	20 A	VEND	LOUNGE B109	4	G
G	5	LOUNGE B109	VEND	20 A	1					1.20	0.18	1	20 A	RECEPT	LOUNGE B109	6	
	7	LGI B100	RECEPT	20 A	1	0.36	0.90					1	20 A	RECEPT	LGI B100	8	
G	9	LGI B100	FRIDGE	20 A	1			1.20	0.18			1	20 A	RECEPT	LGI B100	10	
	11	RR B107, B102, B108, B101	RECEPT	20 A	1					0.72	0.90	1	20 A	RECEPT	OFFICE B105	12	
	13	OFFICE B103	RECEPT	20 A	1	0.90	1.62					1	20 A	RECEPT	CORRIDOR B001, B002, B106	14	
	15	CONF B104	RECEPT	20 A	1			1.08	1.08			1	20 A	RECEPT	CAFETERIA B111	16	
	17	CAFETERIA B111	RECEPT	20 A	1					1.08	0.54	1	20 A	RECEPT	B113, B112B, B112A	18	
	19	EXTERIOR RECEPTS AREA B	RECEPT	20 A	1	0.54	1.04					1	20 A	RECEPT	PLATFORM B112	20	
	21	PLATFORM B112	SND RK	20 A	1			0.36	0.54			1	20 A	RECEPT	MDF B110	22	
	23	PLATFORM B112	RECEPT	20 A	1					1.54	0.00	1	20 A		SPARE	24	--
	25	LGI B100	PROJ	20 A	1	0.50	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	1.44			1	20 A	VUV-B1	LOUNGE B109	40	
--	41	SPARE		20 A	1					0.00	1.20	1	20 A	VUV-B2	LGI B100	42	

		A	B	C
THIS SECTION TOTAL:	TOTAL LOAD:	6.94 kVA	8.28 kVA	7.36 kVA
	TOTAL AMPS:	58 A	70 A	62 A
TOTAL LOAD CONNECTED TO FEED THROUGH LUGS:	TOTAL LOAD:	2.08 kVA	1.25 kVA	1.72 kVA
	TOTAL AMPS:	18 A	10 A	15 A
GRAND TOTAL LOADS:	TOTAL LOAD:	9.02 kVA	9.53 kVA	9.08 kVA
	TOTAL AMPS:	75 A	79 A	76 A

TOTAL CONNECTED LOAD:	27.63 kVA	21.65 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	79 A	60 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
C	CONTACTOR CONTROLLED	Receptacle - General	21960 VA	72.77%	15980 VA
G	GFCI PROTECTED	Mechanical - Motor	5000 VA	100.00%	5000 VA
P	HANDLE LOCKING DEVICE	Power - Continuous	668 VA	100.00%	668 VA
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

SWITCHBOARD SCHEDULE

SWITCHBOARD: 14MSB **VOLTS:** 480Y/277 V **MAINS RATING:** 3000 A
LOCATION: ELEC B124 **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: FLOOR **WIRES:** 4 **MCB RATING:** 3000 A
SUPPLY FROM: UTILITY **AIC RATING:** 65,000 **MCB OPTIONS:** Z

O	CKT NO.	CIRCUIT DESCRIPTION	P	FRAME SIZE	TRIP RATING	A	B	C	LOAD	REMARKS
	1	T-MSB	3	800 A	800 A	147.89	146.22	143.17	437.28	TRANSFORMER
	2	ATS-LSB1	3	225 A	225 A	15.71	15.31	11.27	42.29	ATS
X	3	ATS-EQB1	3	400 A	300 A	31.50	30.30	32.50	94.30	ATS
	4	14A1	3	225 A	225 A	6.07	6.23	5.26	17.56	PANELBOARD
	5	14B1	3	225 A	225 A	29.42	29.59	29.04	88.05	PANELBOARD
	6	24B1	3	225 A	100 A	4.58	4.57	4.07	13.22	PANELBOARD
	7	24B2	3	225 A	225 A	21.62	21.62	21.62	64.86	PANELBOARD
X	8	14K1	3	400 A	400 A	72.66	72.66	72.66	217.99	PANELBOARD
	9	14C1, 24C1	3	225 A	225 A	5.19	5.12	3.68	13.99	PANELBOARDS
	10	14D1, 24D1	3	225 A	225 A	4.40	4.60	3.72	12.72	PANELBOARDS
X	11	CHAC-1	3	800 A	700 A	162.12	162.12	162.12	486.36	CHILLER
--	12	SPARE	3	225 A	225 A	--	--	--	0.00	
--	13	SPARE	3	225 A	225 A	--	--	--	0.00	
--	14	SPARE	3	225 A	100 A	--	--	--	0.00	
--	15	SPACE	1	--	--	--	--	--	--	
--	16	SPACE	1	--	--	--	--	--	--	
--	17	SPACE	1	--	--	--	--	--	--	
--	18	SPACE	1	--	--	--	--	--	--	
--	19	SPACE	1	--	--	--	--	--	--	
--	20	SPACE	1	--	--	--	--	--	--	
					TOTAL LOAD:	501.17 kVA	498.34 kVA	489.12 kVA		
					TOTAL AMPS:	1814 A	1804 A	1766 A		

TOTAL CONNECTED LOAD:	1,488.62 kVA
TOTAL CONNECTED AMPS:	1814 A
TOTAL DEMAND LOAD:	1282.21 kVA
TOTAL DEMAND AMPS:	1,542 A

SWITCHBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	233120 VA	52.14%	121560 VA
C	CONTACTOR CONTROLLED	Kitchen Equipment -...	319665 VA	65.00%	207783 VA
G	GFCI PROTECTED	Lighting - Interior	64467 VA	125.00%	80584 VA
P	HANDLE LOCKING DEVICE	Lighting - Exterior	7484 VA	100.00%	7484 VA
S	SHUNT TRIP	Mechanical - Motor	840438 VA	100.00%	840438 VA
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI	Power - Continuous	18318 VA	100.00%	18318 VA
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI	Other	500 VA	100.00%	500 VA
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG	LE	1000 VA	100.00%	1000 VA
		LI	3632 VA	125.00%	4540 VA

Notes:

SWITCHBOARD SCHEDULE

SWITCHBOARD: 12MSB **VOLTS:** 208Y/120 V **MAINS RATING:** 1600 A
LOCATION: ELEC B124 **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: FLOOR **WIRES:** 4 **MCB RATING:** 1600 A
SUPPLY FROM: T-MSB **AIC RATING:** 65,000 **MCB OPTIONS:** Y

O	CKT NO.	CIRCUIT DESCRIPTION	P	FRAME SIZE	TRIP RATING	A	B	C	LOAD	REMARKS
	1	12A1, 12A2	3	225 A	225 A	8.93	8.24	9.18	26.35	PANELBOARDS
	2	12A3, 22A1	3	225 A	225 A	21.82	21.06	22.10	64.97	PANELBOARDS
	3	12B1	3	225 A	225 A	17.90	18.79	17.57	54.26	PANELBOARD
	4	22B1	3	225 A	225 A	4.22	4.20	3.36	11.78	PANELBOARD
	5	12B2, 22B2	3	225 A	225 A	9.02	9.53	9.08	27.63	PANELBOARDS
X	6	12K1, 12K2	3	400 A	400 A	29.23	29.34	29.23	87.80	PANELBOARDS
	7	12C1, 12C2	3	225 A	225 A	16.04	16.43	15.80	48.27	PANELBOARDS
	8	22C1, 22C2	3	225 A	225 A	13.92	14.62	14.12	42.66	PANELBOARDS
	9	12D1, 12D2	3	225 A	225 A	13.37	11.44	11.76	36.57	PANELBOARDS
	10	22D1, 22D2	3	225 A	225 A	13.44	12.58	10.98	37.00	PANELBOARDS
--	11	SPARE	3	225 A	225 A	--	--	--	0.00	
--	12	SPARE	3	225 A	225 A	--	--	--	0.00	
--	13	SPARE	3	225 A	100 A	--	--	--	0.00	
--	14	SPACE	1	--	--	--	--	--	--	
--	15	SPACE	1	--	--	--	--	--	--	
--	16	SPACE	1	--	--	--	--	--	--	
--	17	SPACE	1	--	--	--	--	--	--	
--	18	SPACE	1	--	--	--	--	--	--	
--	19	SPACE	1	--	--	--	--	--	--	
--	20	SPACE	1	--	--	--	--	--	--	
					TOTAL LOAD:	147.89 kVA	146.22 kVA	143.17 kVA		
					TOTAL AMPS:	1236 A	1222 A	1193 A		

TOTAL CONNECTED LOAD:	437.28 kVA
TOTAL CONNECTED AMPS:	1236 A
TOTAL DEMAND LOAD:	309.56 kVA
TOTAL DEMAND AMPS:	859 A

SWITCHBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	207880 VA	52.41%	108940 VA
C	CONTACTOR CONTROLLED	Kitchen Equipment -...	82225 VA	65.00%	53446 VA
G	GFCI PROTECTED	Mechanical - Motor	138160 VA	100.00%	138160 VA
P	HANDLE LOCKING DEVICE	Power - Continuous	9018 VA	100.00%	9018 VA
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				

Notes:

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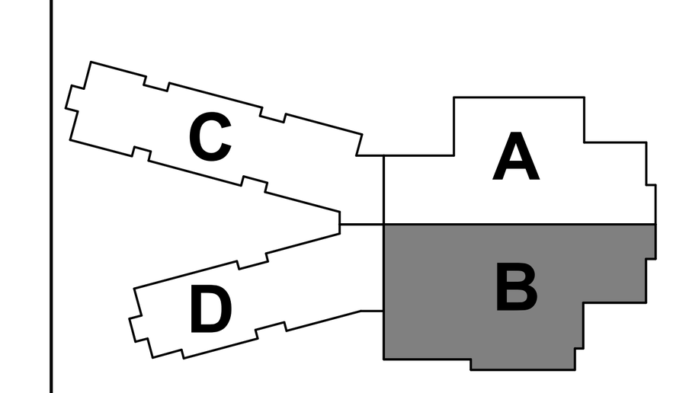
#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

PANELBOARD SCHEDULES - UNIT B NORMAL POWER

E-607

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12K2
LOCATION: KITCHEN B116
MOUNTING: FLUSH
SUPPLY FROM: 12K1
VOLTS: 208Y/120 V
PHASES: 3
WIRES: 4
AIC RATING: 25,000
MAINS RATING: 400 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
G	43	B116 - WORKTABLE	E38A	20 A	1	1.92	1.12					2	20 A	E78	B115 - HOT WELL	44	
G	45	B116 - WORKTABLE	E38B	20 A	1			1.92	1.12			--	--	--	--	46	--
	47	B116 - WORKTABLE	E38C	30 A	2					2.50	0.24	1	20 A	E79,E81	B115 - BREATH GUARDS	48	
--	49	--	--	--	--	2.50	0.46					1	20 A	E80	B115 - FROST TOP	50	
	51	B116 - HEATED CAB.	E71A	20 A	2			1.50	1.12			2	20 A	E86	B115 - HOT WELL	52	
--	53	--	--	--	--					1.50	1.12	--	--	--	--	54	--
G	55	B116 - PASS-THRU FRIDGE	E72A	20 A	1	0.71	0.24					1	20 A	E87,E89	B115 - BREATH GUARDS	56	
	57	B116 - HEATED CAB.	E71B	20 A	2			1.50	0.46			1	20 A	E88	B115 - FROST TOP	58	
--	59	--	--	--	--					1.50	1.92	1	20 A	E93	B115 - ICE CREAM FREEZER	60	
G	61	B116 - PASS-THRU FRIDGE	E72B	20 A	1	0.71	1.92					1	20 A	E95	B115 - POINT OF SALE SYSTEM	62	
	63	B117 - DISHMACHINE EXHAUST	E61	20 A	1			0.94	0.00			1	20 A		SPARE	64	--
--	65	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	66	--
--	67	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	68	--
--	69	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	70	--
--	71	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	72	--
--	73	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	74	--
--	75	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	76	--
--	77	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	78	--
--	79	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	80	--
--	81	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	82	--
--	83	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	84	--

	A	B	C
TOTAL LOAD:	9.57 kVA	8.56 kVA	8.78 kVA
TOTAL AMPS:	80 A	71 A	73 A

TOTAL CONNECTED LOAD: 26.91 kVA
TOTAL CONNECTED AMPS: 80 A
17.49 kVA **TOTAL DEMAND LOAD:**
49 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
	FEED THROUGH LUGS (FTL)
	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Kitchen Equipment -...	26908 VA	65.00%	17490 VA

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 22B2
LOCATION: MECH B200
MOUNTING: SURFACE
SUPPLY FROM: 12B2
VOLTS: 208Y/120 V
PHASES: 3
WIRES: 4
AIC RATING: 10,000
MAINS RATING: 225 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	B200	RECEPT	20 A	1	0.36	0.36					1	20 A	RECEPT	A200	2	
	3	B200	RECEPT	20 A	1			0.54	0.54			1	20 A	RECEPT	A200	4	
	5	ROOF EXTERIOR AREA-B EAST	RECEPT	20 A	1					0.18	0.36	1	20 A	RECEPT	RECEPTS AREA B N.E. ROOF	6	
	7	MS-A1 FOR EF-A1 MECH A200	EF	20 A	1	1.18	0.18					1	20 A	RECEPT	ROOF EXTERIOR AREA-A	8	
	9	STOR A113E	PUH-1	20 A	1			0.17	0.00			1	20 A		SPARE	10	--
	11	MS-B15 FOR EF-B1 MECH B200	EF	20 A	1					1.18	0.00	1	20 A		SPARE	12	--
--	13	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	14	--
--	15	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	16	--
--	17	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--

	A	B	C
TOTAL LOAD:	2.08 kVA	1.25 kVA	1.72 kVA
TOTAL AMPS:	18 A	10 A	15 A

TOTAL CONNECTED LOAD: 5.05 kVA
TOTAL CONNECTED AMPS: 18 A
5.05 kVA **TOTAL DEMAND LOAD:**
14 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
	FEED THROUGH LUGS (FTL)
	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Receptacle - General	2520 VA	100.00%	2520 VA
Mechanical - Motor	2360 VA	100.00%	2360 VA
Power - Continuous	168 VA	100.00%	168 VA

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 24B1
LOCATION: ELEC B201
MOUNTING: SURFACE
SUPPLY FROM: 14MSB
VOLTS: 480Y/277 V
PHASES: 3
WIRES: 4
AIC RATING: 30,000
MAINS RATING: 100 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	B202A, B202B	LIGHTING	20 A	1	0.27	0.72					1	20 A	LIGHTING	A202, A202A, A202B	2	
	3	MEDIA B202	LIGHTING	20 A	1			0.61	0.91			1	20 A	LIGHTING	A201, A201A	4	
	5	MEDIA B202	LIGHTING	20 A	1					1.02	0.00	1	20 A		SPARE	6	--
	7	STOR B202C	LIGHTING	20 A	1	0.54	3.05					3	20 A	RTU-1	ROOF	8	
--	9	SPARE		20 A	1			0.00	3.05			--	--	--	--	10	--
--	11	SPARE		20 A	1					0.00	3.05	--	--	--	--	12	--
--	13	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	14	--
--	15	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	16	--
--	17	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--

	A	B	C
TOTAL LOAD:	4.58 kVA	4.57 kVA	4.07 kVA
TOTAL AMPS:	17 A	17 A	15 A

TOTAL CONNECTED LOAD: 13.22 kVA
TOTAL CONNECTED AMPS: 17 A
14.24 kVA **TOTAL DEMAND LOAD:**
17 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
	FEED THROUGH LUGS (FTL)
	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Lighting - Interior	4072 VA	125.00%	5090 VA
Mechanical - Motor	9150 VA	100.00%	9150 VA

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 14K1
LOCATION: KITCHEN B116
MOUNTING: FLUSH
SUPPLY FROM: 14MSB
VOLTS: 480Y/277 V
PHASES: 3
WIRES: 4
AIC RATING: 65,000
MAINS RATING: 400 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	B116 - GARBAGE DISPOSAL	E23	20 A	3	0.61	0.61					3	20 A	E28	B116 - GARBAGE DISPOSAL	2	
--	3	--	--	--	--			0.61	0.61			--	--	--	--	4	--
--	5	--	--	--	--					0.61	0.61	--	--	--	--	6	--
	7	B117 - GARBAGE DISPOSAL	E59	20 A	3	0.61	0.61					3	20 A	E65	B117 - GARBAGE DISPOSAL	8	
--	9	--	--	--	--			0.61	0.61			--	--	--	--	10	--
--	11	--	--	--	--					0.61	0.61	--	--	--	--	12	--
	13	B117 - DISHMACHINE	E62A	40 A	3	7.73	11.11					3	50 A	E62B	B117 - BOOSTER HEATER	14	
--	15	--	--	--	--			7.73	11.11			--	--	--	--	16	--
--	17	--	--	--	--					7.73	11.11	--	--	--	--	18	--
--	19	SPARE		20 A	3	0.00	2.88					3	20 A	E45B,C	B116 - COOKING SUPPLY/EXHAUST	20	
--	21	--	--	--	--			0.00	2.88			--	--	--	--	22	--
--	23	--	--	--	--					0.00	2.88	--	--	--	--	24	--
--	25	SPARE		40 A	3	0.00	0.00					3	20 A		SPARE	26	--
--	27	--	--	--	--			0.00	0.00			--	--	--	--	28	--
--	29	--	--	--	--					0.00	0.00	--	--	--	--	30	--
--	31	SPARE		50 A	3	0.00	--					1	--		SPACE	32	--
--	33	--	--	--	--			0.00	--			1	--		SPACE	34	--
--	35	--	--	--	--					0.00	--	1	--		SPACE	36	--
	37	B116 - UTILITY DIST. SYSTEM	E44B	225 A	3	48.50	--					1	--		SPACE	38	--
--	39	--	--	--	--			48.50	--			1	--		SPACE	40	--
--	41	--	--	--	--					48.50	--	1	--		SPACE	42	--

	A	B	C
TOTAL LOAD:	72.66 kVA	72.66 kVA	72.66 kVA
TOTAL AMPS:	262 A	262 A	262 A

TOTAL CONNECTED LOAD: 217.99 kVA
TOTAL CONNECTED AMPS: 262 A
141.69 kVA **TOTAL DEMAND LOAD:**
170 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
	FEED THROUGH LUGS (FTL)
	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Kitchen Equipment -...	217989 VA	65.00%	141693 VA

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 24B2
LOCATION: MECH B200
MOUNTING: SURFACE
SUPPLY FROM: 14MSB
VOLTS: 480Y/277 V
PHASES: 3
WIRES: 4
AIC RATING: 30,000
MAINS RATING: 225 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
P	1	B200 SUPPLY FAN	AHU-1	45 A	3	5.82	2.11					3	20 A	AHU-3	A200 SUPPLY FAN	2	P
--	3	--	--	--	--			5.82	2.11			--	--	--	--	4	--
--	5	--	--	--	--					5.82	2.11	--	--	--	--	6	--
P	7	B200 RETURN FAN	AHU-1	30 A	3	3.88	0.94					3	20 A	AHU-3	A200 RETURN FAN	8	P
--	9	--	--	--	--			3.88	0.94			--	--	--	--	10	--
--	11	--	--	--	--					3.88	0.94	--	--	--	--	12	--
P	13	B200 SUPPLY FAN	AHU-2	20 A	3	2.11	5.82					3	45 A	AHU-4	A200 SUPPLY FANS	14	P
--	15	--	--	--	--			2.11	5.82			--	--	--	--	16	--
--	17	--	--	--	--					2.11	5.82	--	--	--	--	18	--
P	19	B200 RETURN FAN	AHU-2	20 A	3	0.94	0.00					3	20 A		SPARE	20	--
--	21	--	--	--	--			0.94	0.00			--	--	--	--	22	--
--	23	--	--	--	--					0.94	0.00	--	--	--	--	24	--
--	25	SPARE		20 A	3	0.00	0.00					3	30 A		SPARE	26	--
--	27	--	--	--	--			0.00	0.00			--	--	--	--	28	--
--	29	--	--	--	--					0.00	0.00	--	--	--	--	30	--
--	31	SPARE		20 A	3	0.00	0.00					3	45 A		SPARE	32	--
--	33	--	--	--	--			0.00	0.00			--	--	--	--	34	--
--	35	--	--	--	--					0.00	0.00	--	--	--	--	36	--
--	37	SPACE		--	1	--	--					1	--		SPACE	38	--
--	39	SPACE		--	1			--	--			1	--		SPACE	40	--
--	41	SPACE		--	1					--	--	1	--		SPACE	42	--

	A	B	C
TOTAL LOAD:	21.62 kVA	21.62 kVA	21.62 kVA
TOTAL AMPS:	78 A	78 A	78 A

TOTAL CONNECTED LOAD: 64.86 kVA
TOTAL CONNECTED AMPS: 78 A
64.86 kVA **TOTAL DEMAND LOAD:**
78 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
	FEED THROUGH LUGS (FTL)
	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Mechanical - Motor	64860 VA	100.00%	64860 VA

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12K1
LOCATION: KITCHEN B116
MOUNTING: FLUSH
SUPPLY FROM: 12MSB
VOLTS: 208Y/120 V
PHASES: 3
WIRES: 4
AIC RATING: 25,000
MAINS RATING: 400 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	B117, B118	RECEPT	20 A	1	0.54	1.92					1	20 A	E40A	B116 - WORKTABLE	2	G
	3	KITCHEN B116	RECEPT	20 A	1			0.36	1.92			1	20 A	E40B	B116 - WORKTABLE	4	G
	5	KITCHEN B116	RECEPT	20 A	1					0.36	2.50	2	30 A	E40C	B116 - WORKTABLE	6	
	7	DRY STORAGE B119	RECEPT	20 A	1	0.18	2.50					--	--	--	--	8	--
	9	KITCHEN B116	RECEPT	20 A	1			0.18	2.50			2	30 A	E22C	B116 - WORKTABLE	10	
	11	KITCHEN B116	RECEPT	20 A	1					0.18	2.50	--	--	--	--	12	--
	13	KITCHEN B116	RECEPT	20 A	1	0.18	1.92					1	20 A	E22A	B116 - WORKTABLE	14	G
	15	KITCHEN B116	RECEPT	20 A	1			0.18	1.92			1	20 A	E22B	B116 - WORKTABLE	16	G
	17	KITCHEN B116	RECEPT	20 A	1					0.18	1.92	1	20 A	E27A	B116 - WORKTABLE	18	G
	19	KITCHEN B116	RECEPT	20 A	1	0.18	1.92					1	20 A	E27B	B116 - WORKTABLE	20	G
	21	KITCHEN B116	RECEPT	20 A	1			0.18	2.50			2	30 A	E27C	B116 - WORKTABLE	22	
	23	KITCHEN B116	RECEPT	20 A	1					0.18	2.50	--	--	--	--	24	--
	25	SERVING LINE B115	RECEPT	20 A	1	0.54	0.00					1	20 A		SPARE	26	--
	27	SERVING LINE B115	RECEPT	20 A	1			0.54	0.00			1	20 A		SPARE	28	--
	29	BREAK ROOM B122	RECEPT	20 A	1					0.54	0.00	1	20 A		SPARE	30	--
	31	RR B120	RECEPT	20 A	1	0.18	0.00					1	20 A		SPARE	32	--
	33	OFFICE B121	RECEPT	20 A	1			0.90	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
	37	B116 - UTILITY DIST. SYSTEM	44A	100 A	3	9.61	0.00					1	20 A		SPARE	38	--
--	39	--	--	--	--			9.61	0.00			1	20 A		SPARE	40	--
--	41	--	--	--	--					9.61	0.00	1	20 A		SPARE	42	--

		A	B	C
THIS SECTION TOTAL:	TOTAL LOAD:	19.66 kVA	20.78 kVA	20.46 kVA
	TOTAL AMPS:	164 A	174 A	171 A
TOTAL LOAD CONNECTED TO FEED THROUGH LUGS:	TOTAL LOAD:	9.57 kVA	8.56 kVA	8.78 kVA
	TOTAL AMPS:	80 A	71 A	73 A
GRAND TOTAL LOADS:	TOTAL LOAD:	29.23 kVA	29.34 kVA	29.23 kVA
	TOTAL AMPS:	244 A	244 A	244 A

TOTAL CONNECTED LOAD: 87.80 kVA
TOTAL CONNECTED AMPS: 244 A
59.03 kVA **TOTAL DEMAND LOAD:**
164 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
Yes	FEED THROUGH LUGS (FTL)
	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Receptacle - General	5580 VA	100.00%	5580 VA
Kitchen Equipment -...	82225 VA	65.00%	53446 VA

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 22B1
LOCATION: ELEC B201
MOUNTING: SURFACE
SUPPLY FROM: 12MSB
VOLTS: 208Y/120 V
PHASES: 3
WIRES: 4
AIC RATING: 10,000
MAINS RATING: 225 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	MS-B16 FOR EF-B2 ELEC B201	MECH	20 A	1	1.18	0.00					1	20 A		SPARE	2	--
	3	RECEPT. AREA B S.W. ROOF	RECEPT	20 A	1			0.36	1.20			2	20 A	RECEPT	COPIER WORK B202A	4	
	5	COPIER WORK B202A	RECEPT	20 A	1					0.18	1.20	--	--	--	--	6	--
	7	WORK B202A	RECEPT	20 A	1	0.54	0.18					1	20 A	RECEPT	ELEC B201	8	
	9	WORK B202A	RECEPT	20 A	1			0.36	0.36			1	20 A	RECEPT	MEDIA B202	10	
	11	MEDIA B202	RECEPT	20 A	1					0.86	0.36	1	20 A	RECEPT	MEDIA B202	12	
	13	MEDIA B202	RECEPT	20 A	1	0.86	0.54					1	20 A	RECEPT	MEDIA B202	14	
	15	MEDIA B202	RECEPT	20 A	1			0.54	0.36			1	20 A	RECEPT	STOR B202C	16	
	17	STOR B202C	RECEPT	20 A	1					0.36	0.54	1	20 A	RECEPT	STUDENT COMMONS C005 SOUTH	18	
	19	STOR B202C	FCU-B3	20 A	1	0.90	0.00					1	20 A		SPARE	20	--
	21	ROOF EXTERIOR UNIT B NW	RECEPT	20 A	1			0.18	0.00			1	20 A		SPARE	22	--
	23	STOR B202B	RECEPT	20 A	1					0.72	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--

	A	B	C
TOTAL LOAD:	4.20 kVA	3.36 kVA	4.22 kVA
TOTAL AMPS:	36 A	28 A	36 A

TOTAL CONNECTED LOAD: 11.78 kVA
TOTAL CONNECTED AMPS: 36 A
11.78 kVA **TOTAL DEMAND LOAD:**
33 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
	FEED THROUGH LUGS (FTL)
	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Receptacle - General	9700 VA	100.00%	9700 VA
Mechanical - Motor	2080 VA	100.00%	2080 VA

NOTES:

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#	Revision	Date
A1	Addendum #1	05.31.2022

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KEY PLAN

FRANKLIN
TOWNSHIP CSC

NEW ELEMENTARY
SCHOOL

PANELBOARD
SCHEDULES - UNIT B
NORMAL POWER

E-608

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12A3 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: ELECTRICAL A113A **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 12MSB **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	BASKETBALL GOAL NW GYM...	RECEPT	20 A	1	1.20	1.20					1	20 A	RECEPT	BASKETBALL GOAL N. GYM A113	2	
	3	BASKETBALL GOAL NE GYM...	RECEPT	20 A	1			1.20	1.20			1	20 A	RECEPT	BASKETBALL GOAL SW GYM A113	4	
	5	BASKETBALL GOAL S. GYM...	RECEPT	20 A	1					1.20	1.20	1	20 A	RECEPT	BASKETBALL GOAL SE GYM A113	6	
	7	SCOREBOARD N. & S. GYM...	RECEPT	20 A	1	0.36	1.08					1	20 A	RECEPT	S.W. GYM A113, ELEC A113A	8	
	9	RECEPT. EAST WALL GYM A113	RECEPT	20 A	1			1.08	1.20			3	20 A	MECH	BLEACHERS WEST GYM A113	10	
	11	BLEACHERS EAST GYM A113	MECH	20 A	3					1.20	1.20	--	--	--	--	12	--
--	13	--	--	--	--	1.20	1.20					--	--	--	--	14	--
--	15	--	--	--	--			1.20	0.72			1	20 A	RECEPT	NORTH WALL GYM A113	16	
	17	PROJ. & SCREEN GYM A113	RECEPT	20 A	1					0.98	1.18	1	20 A	MECH	MS-A2 FOR EF-A2 ELEC. A113A	18	
	19	MS-A3 FOR EF-A3 ELEC. A113A	MECH	20 A	1	1.18	1.44					1	20 A	VUV-A1	MUSIC A117	20	
	21	DIVIDER CURTAIN GYM A113	RECEPT	20 A	1			1.20	0.34			1	20 A	CUH-2	VEST C001	22	
	23	MUSIC A117	RECEPT	20 A	1					1.22	0.90	1	20 A	RECEPT	MUSIC A117, STO. A117A	24	
	25	A115, A113D, A113C, A114	RECEPT	20 A	1	0.90	0.36					1	20 A	RECEPT	STORAGE D008	26	
	27	EXTERIOR RECEPTS AREA A	RECEPT	20 A	1			0.54	1.00			1	20 A	RECEPT	DOOR OPENER VEST C001	28	
	29	VEST. C001, CORRIDOR C002	RECEPT	20 A	1					1.08	0.54	1	20 A	RECEPT	STOR A113E	30	
--	31	SPARE		20 A	1	0.00	2.40					1	30 A	MOTOR	BB HOIST RELAY BOX STO D008	32	
	33	BB HOIST RELAY BOX STO D008	MOTOR	30 A	1			2.40	0.90			1	15 A	MECH	FCU-A1 HANDWASH A115	34	
	35	FCU-A2 HANDWASH A115	MECH	15 A	1					0.90	0.34	1	15 A	MECH	FCI-A3 GIRLS A113D	36	
	37	FCU-A4 BOYS A113C	MECH	15 A	1	0.34	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--

		A	B	C
THIS SECTION TOTAL:	TOTAL LOAD:	12.86 kVA	12.98 kVA	11.94 kVA
	TOTAL AMPS:	108 A	109 A	99 A
TOTAL LOAD CONNECTED TO FEED THROUGH LUGS:	TOTAL LOAD:	8.96 kVA	8.08 kVA	10.16 kVA
	TOTAL AMPS:	76 A	67 A	86 A
GRAND TOTAL LOADS:	TOTAL LOAD:	21.82 kVA	21.06 kVA	22.10 kVA
	TOTAL AMPS:	183 A	175 A	185 A

TOTAL CONNECTED LOAD: 64.97 kVA — 53.09 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 185 A — 147 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
C	CONTACTOR CONTROLLED	Receptacle - General	33760 VA	64.81%	21880 VA
G	GFCI PROTECTED	Mechanical - Motor	24613 VA	100.00%	24613 VA
P	HANDLE LOCKING DEVICE	Power - Continuous	6600 VA	100.00%	6600 VA
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 14A1 **VOLTS:** 480Y/277 V **MAINS RATING:** 225 A
LOCATION: CORRIDOR A002 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: FLUSH **WIRES:** 4
SUPPLY FROM: 14MSB **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	D008, A106, A107, A110, A112	LIGHTING	20 A	1	0.55	0.19					1	20 A	LIGHTING	001, A001	2	
	3	A002, A102, A103, A105, A111	LIGHTING	20 A	1			0.73	0.90			1	20 A	LIGHTING	B002, B003, B100, B109	4	
	5	A100, A101, A101B, A104	LIGHTING	20 A	1					0.71	0.51	1	20 A	LIGHTING	B001, B103, B104, B105	6	
	7	STOR A113E	LIGHTING	20 A	1	0.81	0.77					1	20 A	LIGHTING	MAIN ENTRY CORRIDOR 001	8	
--	9	SPARE		20 A	1			0.00	0.66			1	20 A	LIGHTING	MAIN ENTRY CORRIDOR 001	10	
--	11	SPARE		20 A	1					0.00	0.77	1	20 A	LIGHTING	MAIN ENTRY CORRIDOR 001	12	
	13	GYM A113	LIGHTING	20 A	1	0.45	0.80					1	20 A	LIGHTING	CAFETERIA B111	14	
	15	GYM A113	LIGHTING	20 A	1			0.90	1.10			1	20 A	LIGHTING	CAFETERIA B111	16	
	17	GYM A113	LIGHTING	20 A	1					0.75	0.89	1	20 A	LIGHTING	CAFETERIA B111	18	
	19	GYM A113	LIGHTING	20 A	1	0.75	0.83					1	20 A	LIGHTING	CAFETERIA B111	20	
	21	GYM A113	LIGHTING	20 A	1			0.90	1.04			1	20 A	LIGHTING	CAFETERIA B111	22	
	23	GYM A113	LIGHTING	20 A	1					0.60	1.04	1	20 A	LIGHTING	CAFETERIA B111	24	
--	25	SPARE		20 A	1	0.00	0.93					1	20 A	LIGHTING	PLATFORM B112	26	
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--

	A	B	C
TOTAL LOAD:	6.07 kVA	6.23 kVA	5.26 kVA
TOTAL AMPS:	22 A	23 A	19 A

TOTAL CONNECTED LOAD: 17.56 kVA — 21.95 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 23 A — 26 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Lighting - Interior	15088 VA	125.00%	18860 VA
C	CONTACTOR CONTROLLED	LI	2472 VA	125.00%	3090 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 22A1 **VOLTS:** 208Y/120 V **MAINS RATING:** 1 A
LOCATION: MAKER SPACE A201 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: FLUSH **WIRES:** 4
SUPPLY FROM: 12A3 **AIC RATING:**

A1

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	MAKER SPACE A201	RECEPT	20 A	1	0.54	0.36					1	20 A	RECEPT	MAKER SPACE A201	2	
	3	MAKER SPACE A201	RECEPT	20 A	1			0.54	0.36			1	20 A	RECEPT	MAKER SPACE A201	4	
	5	STORAGE A202A, A202B	RECEPT	20 A	1					0.36	0.36	1	20 A	RECEPT	MAKER SPACE A201	6	
	7	MAKER SPACE A201	RECEPT	20 A	1	0.36	0.36					1	20 A	RECEPT	MAKER SPACE A201, A201A	8	
	9	MAKER SPACE A201	RECEPT	20 A	1			0.36	0.54			1	20 A	RECEPT	MAKER SPACE A201, A201A	10	
	11	ART A202	RECEPT	20 A	1					0.72	0.54	1	20 A	RECEPT	ART A202	12	
	13	KILN EXHAUST FAN KILN A202A	MECH	20 A	1	0.80	0.80					1	20 A	MECH	KILN EXHAUST FAN KILN A202A	14	
	15	ART A202	RECEPT	20 A	1			0.54	0.54			1	20 A	RECEPT	STUDENT COMMONS C005 NORTH	16	
	17	ROOF EXTERIOR UNIT A WEST	RECEPT	20 A	1					0.18	0.00	1	20 A		SPARE	18	--
	19	ART A202	RECEPT	20 A	1	0.54	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	1.20			1	20 A	VUV-A2	ART STOR. A202B	34	
	35	KILN A202A	KILN 2	50 A	2					4.00	0.00	1	20 A		SPARE	36	--
--	37	--	--	--	--	4.00	1.20					1	20 A	VUV-A3	ART STOR. A202B	38	
	39	KILN A202A	KILN 1	50 A	2			4.00	0.00			2	50 A		SPARE	40	--
--	41	--	--	--	--					4.00	0.00	--	--	--	--	42	--

	A	B	C
TOTAL LOAD:	8.96 kVA	8.08 kVA	10.16 kVA
TOTAL AMPS:	76 A	67 A	86 A

TOTAL CONNECTED LOAD: 27.20 kVA — 19.80 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 86 A — 55 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
C	CONTACTOR CONTROLLED	Receptacle - General	24800 VA	70.16%	17400 VA
G	GFCI PROTECTED	Mechanical - Motor	2400 VA	100.00%	2400 VA
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12A1 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: CORRIDOR A002 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: FLUSH **WIRES:** 4
SUPPLY FROM: 12MSB **AIC RATING:**

A1

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	A002, A111	RECEPT	20 A	1	0.72	0.72					1	20 A	RECEPT	RECEPTION A100	2	
	3	OFFICE A112	RECEPT	20 A	1			0.90	0.36			1	20 A	RECEPT	RECEPTION A100	4	
	5	OFFICE A110	RECEPT	20 A	1					1.08	0.36	1	20 A	RECEPT	RECEPTION A100	6	
	7	OFFICE A107	RECEPT	20 A	1	0.90	0.75					1	20 A	ACCESS	RECEPTION A001, VEST. A001	8	
	9	OFFICE A106	RECEPT	20 A	1			0.90	0.18			1	20 A	RECEPT	WORK A104	10	G
	11	CONF A103	RECEPT	20 A	1					0.90	1.08	1	20 A	RECEPT	RECEPTION A100	12	
	13	OFFICE A105	RECEPT	20 A	1	0.72	0.36					1	20 A	RECEPT	RECEPTION A100	14	
	15	OFFICE A105	RECEPT	20 A	1			0.72	0.36			1	20 A	RECEPT	RECEPTION A100	16	
	17	OFFICE A102	RECEPT	20 A	1					1.08	0.54	1	20 A	RECEPT	AREA EXTERIOR RECEPTS.	18	
	19	A108, A109	RECEPT	20 A	1	0.36	0.90					1	20 A	RECEPT	MAIN ENTRY CORRIDOR 001	20	
	21	CORRIDOR A002	RECEPT	20 A	1			0.54	1.00			1	20 A	RECEPT	MAIN ENTRY N. CORR. 001	22	
	23	MAIN ENTRY CORR. 001	RECEPT	20 A	1					1.00	0.36	1	20 A	RECEPT	CLINIC A101	24	
	25	MAIN ENTRY S. CORR. 001	RECEPT	20 A	1	0.90	0.54					1	20 A	RECEPT	CLINIC A101	26	
	27	CLINIC A101	RECEPT	20 A	1			0.54	1.20			2	15 A	RECEPT	208V COPIER RECPT. WORK A104	28	
	29	A104 - GARBAGE DISPOSAL	MOTOR	20 A	1					0.70	1.20	--	--	--	--	30	--
	31	COUNTERTOP WORK A104	RECEPT	20 A	1	0.36	1.20					1	20 A	RECEPT	120V COPIER RECPT. WORK A104	32	
	33	COUNTERTOP WORK A104	RECEPT	20 A	1			0.18	0.36			1	20 A	RECEPT	WORK A104	34	
	35	A101A, A101B	RECEPT	20 A	1					0.54	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--

		A	B	C
THIS SECTION TOTAL:	TOTAL LOAD:	8.43 kVA	7.24 kVA	8.84 kVA
	TOTAL AMPS:	72 A	60 A	75 A
TOTAL LOAD CONNECTED TO FEED THROUGH LUGS:	TOTAL LOAD:	0.50 kVA	1.00 kVA	0.34 kVA
	TOTAL AMPS:	4 A	9 A	3 A
GRAND TOTAL LOADS:	TOTAL LOAD:	8.93 kVA	8.24 kVA	9.18 kVA
	TOTAL AMPS:	75 A	69 A	77 A

TOTAL CONNECTED LOAD: 26.35 kVA — 18.69 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 77 A — 52 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
C	CONTACTOR CONTROLLED	Receptacle - General	25310 VA	69.76%	17655 VA
G	GFCI PROTECTED	Mechanical - Motor	1036 VA	100.00%	1036 VA
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12A2 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: CORRIDOR A002 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: FLUSH **WIRES:** 4
SUPPLY FROM: 12A1 **AIC RATING:**

A1

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
G	43	CAFETERIA B111	EWC	20 A	1	0.50	0.00					1	20 A		SPARE	44	--
G	45	CAFETERIA B111	EWC	20 A	1			1.00	0.00			1	20 A		SPARE	46	--
--	47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--
--	55	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	56	--
--	57	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	58	--
--	59	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	60	--
--	61	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	62	--
--	63	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	64	--
--	65	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	66	--
--	67	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	68	--
--	69	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	70	--
--	71	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	72	--
--	73	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	74	--
--	75	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	76	--
--	77	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	78	--
--	79	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	80	--
--	81	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	82	--
--	83	SPARE		20 A	1					0.00	0.34	1	20 A	CUH-1	VEST A001	84	

	A	B	C
TOTAL LOAD:	0.50 kVA	1.00 kVA	0.34 kVA
TOTAL AMPS:	4 A	9 A	3 A

TOTAL CONNECTED LOAD: 1.84 kVA — 1.84 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 9 A — 5 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
C	CONTACTOR CONTROLLED	Receptacle - General	1500 VA	100.00%	1500 VA
G	GFCI PROTECTED	Mechanical - Motor	336 VA	100.00%	336 VA
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

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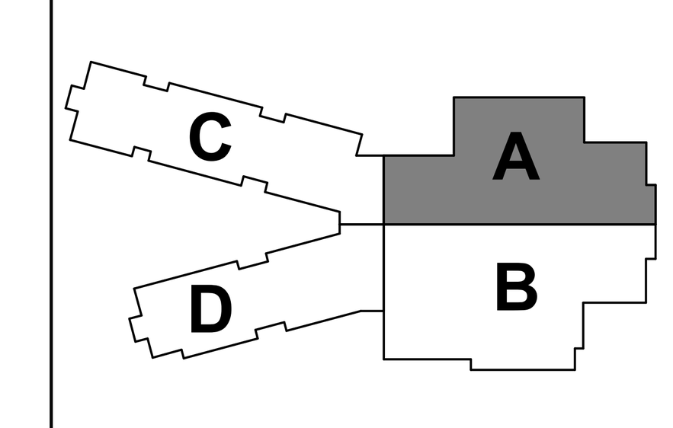
Project No. 2021-141.NES
Project Date 05.11.2022
Produced EAG

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

PANELBOARD SCHEDULES - UNIT A NORMAL POWER

E-609

6	5	4	3	2	1

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 24C1 **VOLTS:** 480Y/277 V **MAINS RATING:** 100 A
LOCATION: ELEC. C213A **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 14C1 **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	C020, C207, C209,C210, C213	LIGHTING	20 A	1	0.80	0.55					1	20 A		Lighting - Interior 2ND GRADE C215	2	
	3	2ND GRADE C212	LIGHTING	20 A	1			0.55	0.60			1	20 A	LIGHTING	2ND GRADE C211	4	
	5	2ND GRADE C208	LIGHTING	20 A	1					0.60	0.55	1	20 A	LIGHTING	2ND GRADE C205	6	
	7	RESOURCE C206	LIGHTING	20 A	1	0.30	0.25					1	20 A	LIGHTING	WORK C203	8	
	9	2ND GRADE C204	LIGHTING	20 A	1			0.60	0.60			1	20 A	LIGHTING	2ND GRADE C201	10	
	11	SPECIAL ED C202	LIGHTING	20 A	1					0.33	0.38	1	20 A	LIGHTING	STUDENT COMMONS C005	12	
	13	2ND GRADE C200	LIGHTING	20 A	1	0.60	0.00					1	20 A		SPARE	14	--
--	15	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	16	--
--	17	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--

		A	B	C
	TOTAL LOAD:	2.51 kVA	2.35 kVA	1.86 kVA
	TOTAL AMPS:	9 A	9 A	7 A

TOTAL CONNECTED LOAD:	6.71 kVA	8.39 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	9 A	10 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Lighting - Interior	6632 VA	125.00%	8290 VA
C	CONTACTOR CONTROLLED	LI	81 VA	125.00%	101 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 14C1 **VOLTS:** 480Y/277 V **MAINS RATING:** 100 A
LOCATION: ELEC. C107 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 14MSB **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	C003, C005, C110, C112	LIGHTING	20 A	1	0.90	0.40					1	20 A	LIGHTING	SPECIAL ED C111	2	
	3	C108, C108A	LIGHTING	20 A	1			0.69	0.69			1	20 A	LIGHTING	C109, C109A	4	
	5	C104, C104A	LIGHTING	20 A	1					0.69	0.69	1	20 A	LIGHTING	C105, C105A	6	
	7	C102, C102A	LIGHTING	20 A	1	0.69	0.69					1	20 A	LIGHTING	C103, C103A	8	
	9	C100, C100A	LIGHTING	20 A	1			0.69	0.69			1	20 A	LIGHTING	C101, C101A	10	
--	11	SPARE		20 A	1					0.00	0.44	1	20 A	LIGHTING	C002, D002, C001, C001A	12	
--	13	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	14	--
--	15	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	16	--
--	17	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--

		A	B	C
THIS SECTION TOTAL:	TOTAL LOAD:	2.68 kVA	2.77 kVA	1.83 kVA
	TOTAL AMPS:	10 A	10 A	7 A
TOTAL LOAD CONNECTED TO FEED THROUGH LUGS:	TOTAL LOAD:	2.51 kVA	2.35 kVA	1.86 kVA
	TOTAL AMPS:	9 A	9 A	7 A
GRAND TOTAL LOADS:	TOTAL LOAD:	5.19 kVA	5.12 kVA	3.68 kVA
	TOTAL AMPS:	20 A	19 A	13 A

TOTAL CONNECTED LOAD:	13.99 kVA	17.48 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	20 A	21 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Lighting - Interior	13906 VA	125.00%	17383 VA
C	CONTACTOR CONTROLLED	LI	81 VA	125.00%	101 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 22C1 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: ELEC. C213A **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 12MSB **AIC RATING:** 10,000

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	MS-C1 FOR EF-C1 ELEC. C213	MECH	20 A	1	1.18	1.18					1	20 A	MECH	MS-C2 FOR EF-C2 ELEC. C213	2	
	3	RECEPT. ELEC. C213	RECEPT	20 A	1			0.18	1.18			1	20 A	MECH	MS-C3 FOR EF-C3 ELEC. C213	4	
	5	MS-C4 FOR EF-C4 ELEC. C213	MECH	20 A	1					1.18	1.18	1	20 A	MECH	MS-C5 FOR EF-C5 ELEC. C213	6	
	7	2ND GRADE C200	RECEPT	20 A	1	0.54	0.54					1	20 A	RECEPT	2ND GRADE C200	8	
	9	CHARGING CART 2ND C200	RECEPT	20 A	1			0.18	1.04			1	20 A	RECEPT	SPECIAL ED C202	10	
	11	SPECIAL ED C202	RECEPT	20 A	1					0.54	0.18	1	20 A	RECEPT	CHARGING CART SPECIAL ED...	12	
	13	2ND GRADE C204	RECEPT	20 A	1	0.54	0.36					1	20 A	RECEPT	2ND GRADE C204	14	
	15	CHARGING CART 2ND C204	RECEPT	20 A	1			0.18	0.54			1	20 A	RECEPT	RESOURCE C206	16	
	17	RESOURCE C206	RECEPT	20 A	1					0.54	0.54	1	20 A	RECEPT	2ND GRADE C208	18	
	19	2ND GRADE C208	RECEPT	20 A	1	0.36	0.18					1	20 A	RECEPT	CHARGING CART 2ND GRADE C208	20	
	21	2ND GRADE C212	RECEPT	20 A	1			0.54	0.54			1	20 A	RECEPT	2ND GRADE C212	22	
	23	CHARGING CART 2ND C212	RECEPT	20 A	1					0.18	0.54	1	20 A	RECEPT	2ND GRADE C215	24	
	25	2ND GRADE C215	RECEPT	20 A	1	0.54	0.18					1	20 A	RECEPT	CHARGING CART 2ND GRADE C215	26	
	27	CORR. C202	RECEPT	20 A	1			0.90	0.54			1	20 A	RECEPT	STOB C210, C213; CALM C214	28	
G	29	WATER FOUNTAIN CORR. C202	RECEPT	20 A	1					1.00	0.54	1	20 A	RECEPT	2ND GRADE C211	30	
	31	2ND GRADE C211	RECEPT	20 A	1	0.36	0.18					1	20 A	RECEPT	CHARGING CART 2ND GRADE C211	32	
	33	2ND GRADE C205	RECEPT	20 A	1			0.54	0.36			1	20 A	RECEPT	2ND GRADE C205	34	
	35	CHARGING CART 2ND C205	RECEPT	20 A	1					0.18	0.18	1	20 A	RECEPT	WORK C203	36	
	37	WORK C203	RECEPT	20 A	1	0.72	1.20					2	20 A	RECEPT	WORK C203	38	
	39	WORK C203	RECEPT	20 A	1			0.18	1.20			--	--	--	--	40	--
	41	C207, C209	RECEPT	20 A	1					0.36	0.36	1	20 A	RECEPT	WORK C203	42	

A1

		A	B	C
THIS SECTION TOTAL:	TOTAL LOAD:	8.06 kVA	8.10 kVA	7.50 kVA
	TOTAL AMPS:	68 A	68 A	63 A
TOTAL LOAD CONNECTED TO FEED THROUGH LUGS:	TOTAL LOAD:	5.86 kVA	6.52 kVA	6.62 kVA
	TOTAL AMPS:	49 A	55 A	56 A
GRAND TOTAL LOADS:	TOTAL LOAD:	13.92 kVA	14.62 kVA	14.12 kVA
	TOTAL AMPS:	116 A	122 A	118 A

TOTAL CONNECTED LOAD:	42.66 kVA	35.70 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	122 A	99 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	23920 VA	70.90%	16960 VA
C	CONTACTOR CONTROLLED	Mechanical - Motor	18740 VA	100.00%	18740 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12C1 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: ELEC. C107 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 12MSB **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	RECEPT. C107A, C107	RECEPT	20 A	1	0.54	1.18					1	20 A	RECEPT	MS-C6 FOR EF-C6 ELEC. C107	2	
	3	PK CLASS C100	RECEPT	20 A	1			0.90	0.54			1	20 A	RECEPT	PK CLASS C100	4	
	5	CHARGING CART PK CLASS...	RECEPT	20 A	1					0.18	0.72	1	20 A	RECEPT	RR C100B, 102B, STO. C100A, 102A	6	
	7	CHARGING CART K CLASS C102	RECEPT	20 A	1	0.18	0.54					1	20 A	RECEPT	K CLASS C102	8	
	9	K CLASS C102	RECEPT	20 A	1			0.90	0.90			1	20 A	RECEPT	K CLASS C104	10	
	11	K CLASS C104	RECEPT	20 A	1					0.54	0.18	1	20 A	RECEPT	CHARGING CART K CLASS C104	12	
	13	RR C104A/108A, STO. C104/108A	RECEPT	20 A	1	0.72	0.18					1	20 A	RECEPT	CHARGING CART K CLASS C108	14	
	15	K CLASS C108	RECEPT	20 A	1			0.54	0.90			1	20 A	RECEPT	K CLASS C108	16	
	17	RR C110, C112, CUST. C004	RECEPT	20 A	1					0.54	0.75	1	20 A	POWER	DOOR OPENER VEST. C005	18	
G	19	WATER FOUNTAIN CORR. C003	RECEPT	20 A	1	1.00	0.72					1	20 A	RECEPT	CORRIDOR C003	20	
	21	EXTERIOR AREA C	RECEPT	20 A	1			0.54	0.54			1	20 A	RECEPT	SPECIAL ED C111	22	
	23	SPECIAL ED C111	RECEPT	20 A	1					0.54	0.18	1	20 A	RECEPT	CHARGING CART SPECIAL ED...	24	
	25	CHARGIG CART K CLASS C109	RECEPT	20 A	1	0.18	0.54					1	20 A	RECEPT	K CLASS C109	26	
	27	K CLASS C109	RECEPT	20 A	1			0.90	0.72			1	20 A	RECEPT	RR C105/109B, STO. C105/109A	28	
	29	K CLASS C105	RECEPT	20 A	1					0.90	0.54	1	20 A	RECEPT	K CLASS C105	30	
	31	K CLASS C105	RECEPT	20 A	1	0.18	0.90					1	20 A	RECEPT	K CLASS C103	32	
	33	K CLASS C103	RECEPT	20 A	1			0.54	0.18			1	20 A	RECEPT	CHARGING CART K CLASS C103	34	
	35	RR C101/103B, STO. C101/103A	RECEPT	20 A	1					0.72	0.90	1	20 A	RECEPT	PK CLASS C101	36	
	37	PK CLASS C101	RECEPT	20 A	1	0.54	0.18					1	20 A	RECEPT	PK CLASS C101	38	
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.54	1	20 A	RECEPT	CORRIDOR C003	42	

A1

		A	B	C
THIS SECTION TOTAL:	TOTAL LOAD:	7.58 kVA	8.10 kVA	7.23 kVA
	TOTAL AMPS:	64 A	68 A	60 A
TOTAL LOAD CONNECTED TO FEED THROUGH LUGS:	TOTAL LOAD:	8.46 kVA	8.33 kVA	8.57 kVA
	TOTAL AMPS:	71 A	69 A	72 A
GRAND TOTAL LOADS:	TOTAL LOAD:	16.04 kVA	16.43 kVA	15.80 kVA
	TOTAL AMPS:	134 A	137 A	132 A

TOTAL CONNECTED LOAD:	48.27 kVA	40.53 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	137 A	112 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	25480 VA	69.62%	17740 VA
C	CONTACTOR CONTROLLED	Mechanical - Motor	22036 VA	100.00%	22036 VA
G	GFCI PROTECTED	Power - Continuous	750 VA	100.00%	750 VA
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 22C2 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: ELEC. C213A **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 22C1 **AIC RATING:** 10,000

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	43	AREA C ROOF	RECEPT	20 A	1	0.54	1.44					1	20 A	VUV-C13	2ND GRADE C204	44	
	45	2ND GRADE C205	VUV-C12	20 A	1			1.20	1.44			1	20 A	VUV-C17	2ND GRADE C212	46	
	47	2ND GRADE C211	VUV-C14	20 A	1					1.20	1.44	1	20 A	VUV-C11	SPECIAL ED C202	48	
	49	2ND GRADE C208	VUV-C15	20 A	1	1.44	0.36					1	20 A	RECEPT	AREA D ROOF	50	
	51	2ND GRADE C215	VUV-C16	20 A	1			1.44	0.54			1	20 A	RECEPT	2ND GRADE C201	52	
	53	WORK C203	VUV-C10	20 A	1					1.44	0.54	1	20 A	RECEPT	2ND GRADE C201	54	
	55	CHARGING CART 2ND C201	RECEPT	20 A	1	0.18	0.90					1	15 A	FCU-C3	BOYS C209	56	
	57	GIRLS C207	FCU-C4	15 A	1			0.90	1.00			1	20 A	PROJ	C208, C212	58	
	59	C211, C215	PROJ	20 A	1					1.00	1.00	1	20 A	PROJ	C200, C204	60	
	61	C201, C205	PROJ	20 A	1	1.00	0.00					1	20 A		SPARE	62	--
--	63	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	64	--
--	65	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	66	--
--	67	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	68	--
--	69	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	70	--
--	71	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	72	--
--	73	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	74	--
--	75	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	76	--
--	77	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	78	--
--	79	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	80	--
--	81	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	82	--
--	83	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	84	--

A1 A1

		A	B	C
	TOTAL LOAD:	5.86 kVA	6.52 kVA	6.62 kVA
	TOTAL AMPS:	49 A	55 A	56 A

TOTAL CONNECTED LOAD:	19.00 kVA	19.00 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	56 A	53 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	6160 VA	100.00%	6160 VA
C	CONTACTOR CONTROLLED	Mechanical - Motor	12840 VA	100.00%	12840 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12C2 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: ELEC. C107 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 12C1 **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	43	VESTIBULE C005	CUH-3,4	20 A	1	0.34	1.44					1	20 A	VUV-C4	K CLASS C102	44	
	45	RR C100B	ECUH-C2	20 A	1			0.75	1.20			1	20 A	VUV-C9	SPECIAL ED C111	46	
	47	RR C101B	ECUH-C1	20 A	1					0.75	1.44	1	20 A	VUV-C5	K CLASS C105	48	
	49	K CLASS C103	VUV-C3	20 A	1	1.44	0.75					1	20 A	ECUH-C5	RR C105B	50	
	51	K CLASS C104	VUV-C6	20 A	1			1.44	0.75			1	20 A	ECUH-C8	RR C108B	52	
	53	K CLASS C108	VUV-C8	20 A	1					1.44	0.75	1	20 A	ECUH-C7	RR C109B	54	
	55	RR C102B	ECUH-C4	20 A	1	0.75	1.44					1	20 A	VUV-C7	K CLASS C109	56	
	57	RR C103B	ECUH-C3	20 A	1			0.75	1.44			1	20 A	VUV-C2	PK CLASS C100	58	
	59	RR C104B	ECUH-C6	20 A	1					0.75	1.44	1	20 A	VUV-C1	PK CLASS C101	60	
	61	BOYS C112	FCU-C1	15 A	1	0.90	0.90					1	15 A	FCU-C2	GIRLS C110	62	
	63	C109, C111	PROJ	20 A	1			1.00	1.00			1	20 A	PROJ	C104, C108	64	
	65	C103, C105	PROJ	20 A	1					1.00	1.00	1	20 A	PROJ	C100, C102	66	
	67	PK CLASS C101	PROJ	20 A	1	0.50	0.00					1	20 A		SPARE	68	--
--	69	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	70	--
--	71	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	72	--
--	73	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	74	--
--	75	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	76	--
--	77	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	78	--
--	79	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	80	--
--	81	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	82	--
--	83	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	84	--

A1 A1

		A	B	C
	TOTAL LOAD:	8.46 kVA	8.33 kVA	8.57 kVA
	TOTAL AMPS:	71 A	69 A	72 A

TOTAL CONNECTED LOAD:	25.36 kVA	25.36 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	72 A	70 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	4500 VA	100.00%	4500 VA
C	CONTACTOR CONTROLLED	Mechanical - Motor	20856 VA	100.00%	20856 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

SCHMIDT ASSOCIATES
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Indianapolis, IN 46204
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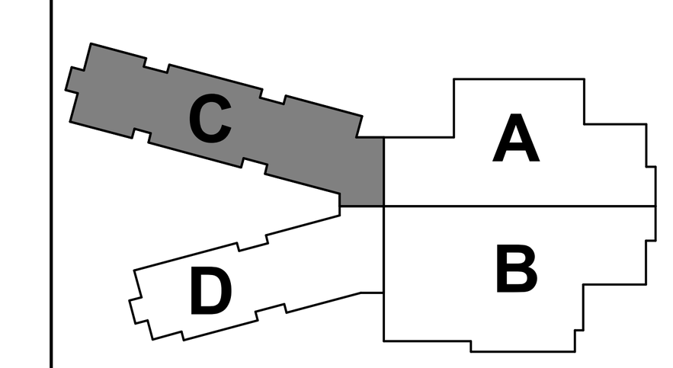
Project No. 2021-141.NES
Project Date 05.11.2022
Produced EAG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

Sarah K Hempstead

#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
INDIANAPOLIS, IN 46239



KEY PLAN

N

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

PANELBOARD SCHEDULES - UNIT C NORMAL POWER

E-610

6	5	4	3	2	1

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 24D1 **VOLTS:** 480Y/277 V **MAINS RATING:** 100 A
LOCATION: ELEC D206 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 14D1 **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	D004, D212A, D212B, D213	LIGHTING	20 A	1	0.77	0.55					1	20 A	LIGHTING	3RD GRADE D211	2	
	3	3RD GRADE D210	LIGHTING	20 A	1			0.55	0.55			1	20 A	LIGHTING	3RD GRADE D209	4	
	5	3RD GRADE D208	LIGHTING	20 A	1					0.55	0.31	1	20 A	LIGHTING	D205, D207	6	
	7	RESOURCE D204	LIGHTING	20 A	1	0.27	0.55					1	20 A	LIGHTING	3RD GRADE D203	8	
	9	3RD GRADE D202	LIGHTING	20 A	1			0.55	0.55			1	20 A	LIGHTING	3RD GRADE D201	10	
	11	3RD GRADE D200	LIGHTING	20 A	1					0.55	0.44	1	20 A	LIGHTING	STUDENT COMMONS C005 SOUTH	12	
--	13	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	14	--
--	15	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	16	--
--	17	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--

	A	B	C
TOTAL LOAD:	2.14 kVA	2.20 kVA	1.86 kVA
TOTAL AMPS:	8 A	8 A	7 A

TOTAL CONNECTED LOAD:	6.19 kVA	7.74 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	8 A	9 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Lighting - Interior	6112 VA	125.00%	7640 VA
C	CONTACTOR CONTROLLED	LI	81 VA	125.00%	101 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 22D1 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: ELEC D206 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 12MSB **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	ELEC D206	RECEPT	20 A	1	0.18	1.18					1	20 A	MS-D1	ELEC D206	2	
	3	ELEC D206	MS-D2	20 A	1			1.18	1.04			1	20 A	RECEPT	3RD GRADE D200	4	
	5	3RD GRADE D200	RECEPT	20 A	1					0.54	0.18	1	20 A	RECEPT	CHARGING CART 3RD GRADE D200	6	
	7	3RD GRADE D202	RECEPT	20 A	1	1.04	0.54					1	20 A	RECEPT	3RD GRADE D202	8	
	9	CHARGING CART 3RD D202	RECEPT	20 A	1			0.18	0.72			1	20 A	RECEPT	RESOURCE D204	10	
	11	RESOURCE D204	RECEPT	20 A	1					0.90	1.04	1	20 A	RECEPT	3RD GRADE D208	12	
	13	3RD GRADE D208	RECEPT	20 A	1	0.54	0.18					1	20 A	RECEPT	CHARGING CART 3RD GRADE D208	14	
	15	3RD GRADE D210	RECEPT	20 A	1			1.04	0.54			1	20 A	RECEPT	3RD GRADE D210	16	
	17	CHARGING CART 3RD D210	RECEPT	20 A	1					0.18	0.54	1	20 A	RECEPT	RR D212A/B CUST. D006	18	
	19	WATER FOUNTAIN CORR. D004	RECEPT	20 A	1	1.00	1.26					1	20 A	RECEPT	CORR. D004, STO. D213	20	
	21	3RD GRADE D211	RECEPT	20 A	1			1.04	0.54			1	20 A	RECEPT	3RD GRADE D211	22	
	23	CHARGING CART 3RD D211	RECEPT	20 A	1					0.18	1.04	1	20 A	RECEPT	3RD GRADE D209	24	
	25	3RD GRADE D209	RECEPT	20 A	1	0.54	0.18					1	20 A	RECEPT	CHARGING CART 3RD GRADE D209	26	
	27	WORK D205	FRIG	20 A	1			0.18	0.54			1	20 A	RECEPT	WORK D205	28	
	29	WORK D205	RECEPT	20 A	1					0.54	0.18	1	20 A	RECEPT	COPIER WORK D205	30	
	31	COPIER WORK D205	RECEPT	20 A	2	1.20	1.04					1	20 A	RECEPT	3RD GRADE D203	32	
--	33	--	--	--	--			1.20	0.54			1	20 A	RECEPT	3RD GRADE D203	34	
	35	CHARGING CART 3RD D203	RECEPT	20 A	1					0.18	1.04	1	20 A	RECEPT	3RD GRADE D201	36	
	37	3RD GRADE D201	RECEPT	20 A	1	0.54	0.18					1	20 A	RECEPT	CHARGING CART 3RD GRADE D201	38	
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--

		A	B	C
THIS SECTION TOTAL:	TOTAL LOAD:	9.60 kVA	8.74 kVA	6.54 kVA
	TOTAL AMPS:	83 A	76 A	55 A
TOTAL LOAD CONNECTED TO FEED THROUGH LUGS:	TOTAL LOAD:	3.84 kVA	3.84 kVA	4.44 kVA
	TOTAL AMPS:	32 A	32 A	37 A
GRAND TOTAL LOADS:	TOTAL LOAD:	13.44 kVA	12.58 kVA	10.98 kVA
	TOTAL AMPS:	114 A	107 A	92 A

TOTAL CONNECTED LOAD:	37.00 kVA	30.74 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	114 A	85 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	22520 VA	72.20%	16260 VA
C	CONTACTOR CONTROLLED	Mechanical - Motor	14480 VA	100.00%	14480 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 22D2 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: ELEC D206 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 22D1 **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	43	3RD GRADE D201	VUV-D9	20 A	1	1.44	0.00					1	20 A		SPARE	44	--
	45	3RD GRADE D203	VUV-D11	20 A	1			1.44	0.00			1	20 A		SPARE	46	--
	47	3RD GRADE D209	VUV-D13	20 A	1					1.20	0.00	1	20 A		SPARE	48	--
	49	3RD GRADE D211	VUV-D15	20 A	1	1.20	0.00					1	20 A		SPARE	50	--
	51	3RD GRADE D200	VUV-D10	20 A	1			1.20	0.00			1	20 A		SPARE	52	--
	53	3RD GRADE D202	VUV-D12	20 A	1					1.44	0.00	1	20 A		SPARE	54	--
	55	3RD GRADE D208	VUV-D14	20 A	1	1.20	0.00					1	20 A		SPARE	56	--
	57	3RD GRADE D210	VUV-D16	20 A	1			1.20	0.00			1	20 A		SPARE	58	--
	59	BOYS D212B (A1)	FCU-D3	20 A	1					0.90	0.00	1	20 A		SPARE	60	--
--	61	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	62	--
--	63	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	64	--
	65	GIRLS D212A (A1)	FCU-D4	20 A	1					0.90	0.00	1	20 A		SPARE	66	--
--	67	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	68	--
--	69	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	70	--
--	71	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	72	--
--	73	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	74	--
--	75	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	76	--
--	77	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	78	--
--	79	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	80	--
--	81	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	82	--
--	83	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	84	--

	A	B	C
TOTAL LOAD:	3.84 kVA	3.84 kVA	4.44 kVA
TOTAL AMPS:	32 A	32 A	37 A

TOTAL CONNECTED LOAD:	12.12 kVA	12.12 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	37 A	34 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Mechanical - Motor	12120 VA	100.00%	12120 VA
C	CONTACTOR CONTROLLED				
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 14D1 **VOLTS:** 480Y/277 V **MAINS RATING:** 100 A
LOCATION: ELEC D107 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 14MSB **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	D003-D005, D112-D114	LIGHTING	20 A	1	0.79	0.60					1	20 A	LIGHTING	D111	2	
	3	D110	LIGHTING	20 A	1			0.60	0.60			1	20 A	LIGHTING	D109	4	
	5	D108	LIGHTING	20 A	1					0.60	0.22	1	20 A	LIGHTING	D105	6	
	7	D104	LIGHTING	20 A	1	0.27	0.60					1	20 A	LIGHTING	D103	8	
	9	D102	LIGHTING	20 A	1			0.60	0.60			1	20 A	LIGHTING	D101	10	
	11	D100	LIGHTING	20 A	1					0.60	0.44	1	20 A	LIGHTING	D001A, D002	12	
--	13	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	14	--
--	15	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	16	--
--	17	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--

		A	B	C
THIS SECTION TOTAL:	TOTAL LOAD:	2.26 kVA	2.40 kVA	1.87 kVA
	TOTAL AMPS:	8 A	9 A	7 A
TOTAL LOAD CONNECTED TO FEED THROUGH LUGS:	TOTAL LOAD:	2.14 kVA	2.20 kVA	1.86 kVA
	TOTAL AMPS:	8 A	8 A	7 A
GRAND TOTAL LOADS:	TOTAL LOAD:	4.40 kVA	4.60 kVA	3.72 kVA
	TOTAL AMPS:	16 A	17 A	13 A

TOTAL CONNECTED LOAD:	12.72 kVA	15.90 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	17 A	19 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Lighting - Interior	12639 VA	125.00%	15799 VA
C	CONTACTOR CONTROLLED	LI	81 VA	125.00%	101 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12D1 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: ELEC D107 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 12MSB **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	ELEC D107, TECH D107A	RECEPT	20 A	1	0.54	1.04					1	20 A	RECEPT	ESSENTIAL SKILLS D100	2	
	3	ESSENTIAL SKILLS D100	RECEPT	20 A	1			0.54	0.18			1	20 A	RECEPT	CHARGING CART SKILLS D100	4	
	5	1ST GRADE D102	RECEPT	20 A	1					1.04	0.54	1	20 A	RECEPT	1ST GRADE D102	6	
	7	1ST GRADE D102	RECEPT	20 A	1	0.18	0.72					1	20 A	RECEPT	RESOURCE D104	8	
	9	RESOURCE D104	RECEPT	20 A	1			0.90	1.04			1	20 A	RECEPT	1ST GRADE D108	10	
	11	1ST GRADE D108	RECEPT	20 A	1					0.54	0.18	1	20 A	RECEPT	1ST GRADE D108	12	
	13	1ST GRADE D110	RECEPT	20 A	1	1.04	0.54					1	20 A	RECEPT	1ST GRADE D110	14	
	15	1ST GRADE D110	RECEPT	20 A	1			0.18	0.54			1	20 A	RECEPT	RR D112, D004; CUST. D004	16	
	17	EXTERIOR AREA D; VEST. D005	RECEPT	20 A	1					0.54	1.00	1	20 A	RECEPT	WATER FOUNTAIN CORR. D003	18	
	19	AREA-D CORRIDOR D003	RECEPT	20 A	1	1.44	1.04					1	20 A	RECEPT	1ST GRADE D111	20	
	21	1ST GRADE D111	RECEPT	20 A	1			0.54	0.18			1	20 A	RECEPT	1ST GRADE D111	22	
	23	1ST GRADE D109	RECEPT	20 A	1					1.04	0.54	1	20 A	RECEPT	1ST GRADE D109	24	
	25	1ST GRADE D109	RECEPT	20 A	1	0.18	0.54					1	20 A	RECEPT	WORK D105	26	
	27	COPIER WORK D105	RECEPT	20 A	1			0.18	1.20			2	20 A	RECEPT	COPIER WORK D105	28	
	29	WORK D105	RECEPT	20 A	1					0.54	1.20	--	--	--	--	30	--
	31	1ST GRADE D103	RECEPT	20 A	1	1.04	0.54					1	20 A	RECEPT	1ST GRADE D103	32	
	33	CHARGING CART 1ST D103	RECEPT	20 A	1			0.18	1.04			1	20 A	RECEPT	INTERVENTION D101	34	
	35	INTERVENTION D101	RECEPT	20 A	1					0.54	0.18	1	20 A	RECEPT	CHARGING CART INTERVENT....	36	
	37	DOOR OPENER VEST. D005		20 A	1	0.75	0.18					1	20 A	RECEPT	FRIG. WORK D105	38	
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--

		A	B	C
THIS SECTION TOTAL:	TOTAL LOAD:	9.77 kVA	6.70 kVA	7.88 kVA
	TOTAL AMPS:	83 A	56 A	67 A
TOTAL LOAD CONNECTED TO FEED THROUGH LUGS:	TOTAL LOAD:	3.60 kVA	4.74 kVA	3.88 kVA
	TOTAL AMPS:	30 A	40 A	33 A
GRAND TOTAL LOADS:	TOTAL LOAD:	13.37 kVA	11.44 kVA	11.76 kVA
	TOTAL AMPS:	112 A	95 A	98 A

TOTAL CONNECTED LOAD:	36.57 kVA	29.39 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	112 A	82 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	24350 VA	70.53%	17175 VA
C	CONTACTOR CONTROLLED	Mechanical - Motor	12216 VA	100.00%	12216 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12D2 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: ELEC D107 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 12D1 **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A	A	B	B	C	C	P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	43	INTERVENTION D101	VUV-D1	20 A	1	1.20	0.00					1	20 A		SPARE	44	--
	45	1ST GRADE D103	VUV-D3	20 A	1			1.44	0.00			1	20 A		SPARE	46	--
	47	1ST GRADE D109	VUV-D5	20 A	1					1.20	0.00	1	20 A		SPARE	48	--
	49	1ST GRADE D111	VUV-D7	20 A	1	1.20	0.00					1	20 A		SPARE	50	--
	51	ESSENTIAL SKILLS D100	VUV-D2	20 A	1			1.20	0.00			1	20 A		SPARE	52	--
	53	1ST GRADE D102	VUV-D4	20 A	1					1.44	0.00	1	20 A		SPARE	54	--
	55	1ST GRADE D108	VUV-D6	20 A	1	1.20	0.00					1	20 A		SPARE	56	--
	57	1ST GRADE D110	VUV-D8	20 A	1			1.20	0.00			1	20 A		SPARE	58	--
	59	VEST D005	CUH-5	20 A	1					0.34	0.00	1	20 A		SPARE	60	--
--	61	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	62	--
	63	BOYS D114 (A1)	FCU-D1	20 A	1			0.90	0.00			1	20 A		SPARE	64	--
	65	GIRLS D112 (A1)	FCU-D2	20 A	1					0.90	0.00	1	20 A		SPARE	66	--
--	67	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	68	--
--	69	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	70	--
--	71	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	72	--
--	73	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	74	--
--	75	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	76	--
--	77	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	78	--
--	79	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	80	--
--	81	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	82	--
--	83	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	84	--

	A	B	C
TOTAL LOAD:	3.60 kVA	4.74 kVA	3.88 kVA
TOTAL AMPS:	30 A	40 A	33 A

TOTAL CONNECTED LOAD:	12.22 kVA	12.22 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	40 A	34 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Mechanical - Motor	12216 VA	100.00%	12216 VA
C	CONTACTOR CONTROLLED				
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
Yes	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

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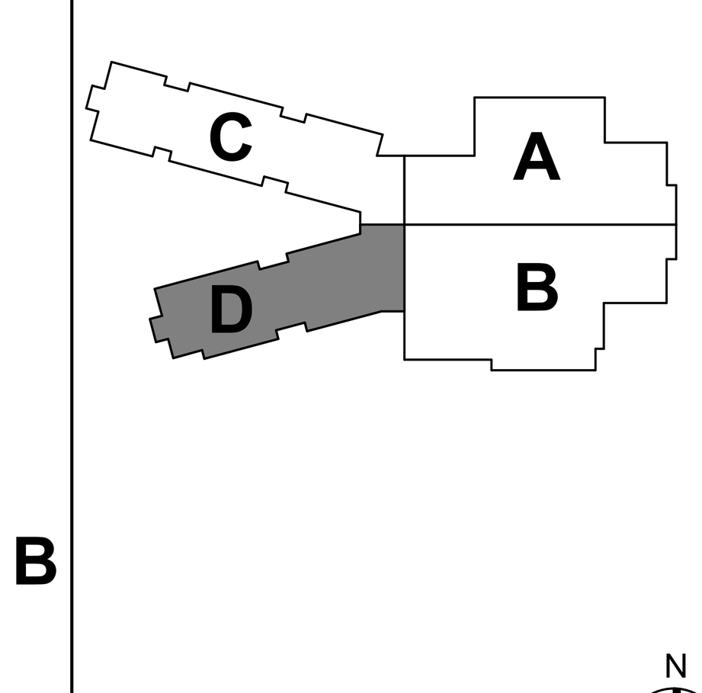
Project No. 2021-141.NES
Project Date 05.11.2022
Produced EAG

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

PANELBOARD SCHEDULES - UNIT D NORMAL POWER

E-611

6	5	4	3	2	1

POWER DISTRIBUTION PANELBOARD SCHEDULE

DESIGNATION: 14DPEQB1 — **VOLTS:** 480Y/277 V — **MAINS RATING:** 400 A
LOCATION: ELEC B124 — **PHASES:** 3 — **MAINS TYPE:** MLO
MOUNTING: SURFACE — **WIRES:** 4
SUPPLY FROM: ATS-EQB1 — **AIC RATING:** 50,000

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	T-EQB1	XFMR	150 A	3	14.60	--					1	--		SPACE	2	--
--	3	--	--	--	--			13.39	--			1	--		SPACE	4	--
--	5	--	--	--	--					15.59	--	1	--		SPACE	6	--
	7	MECH B128	HWP-1	40 A	3	5.82	11.09					3	60 A	ELEV	MECH B132	8	
--	9	--	--	--	--			5.82	11.09			--	--	--	--	10	--
--	11	--	--	--	--					5.82	11.09	--	--	--	--	12	--
--	13	SPARE		40 A	3	0.00	0.00					3	60 A		SPARE	14	--
--	15	--	--	--	--			0.00	0.00			--	--	--	--	16	--
--	17	--	--	--	--					0.00	0.00	--	--	--	--	18	--
--	19	SPARE		100 A	3	0.00	--					1	--		SPACE	20	--
--	21	--	--	--	--			0.00	--			1	--		SPACE	22	--
--	23	--	--	--	--					0.00	--	1	--		SPACE	24	--
--	25	SPACE		--	1	--	--					1	--		SPACE	26	--
--	27	SPACE		--	1			--	--			1	--		SPACE	28	--
--	29	SPACE		--	1					--	--	1	--		SPACE	30	--
--	31	SPACE		--	1	--	--					1	--		SPACE	32	--
--	33	SPACE		--	1			--	--			1	--		SPACE	34	--
--	35	SPACE		--	1					--	--	1	--		SPACE	36	--
--	37	SPACE		--	1	--	--					1	--		SPACE	38	--
--	39	SPACE		--	1			--	--			1	--		SPACE	40	--
--	41	SPACE		--	1					--	--	1	--		SPACE	42	--
					TOTAL LOAD:	31.50 kVA		30.30 kVA		32.50 kVA							
					TOTAL AMPS:	114 A		109 A		118 A							

TOTAL CONNECTED LOAD:	94.30 kVA	87.49 kVA	**TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS:	118 A	105 A	**TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
C	CONTACTOR CONTROLLED	Receptacle - General	1800 VA	100.00%	1800 VA
G	GFCI PROTECTED	Kitchen Equipment -...	19452 VA	65.00%	12643 VA
P	HANDLE LOCKING DEVICE	Mechanical - Motor	65047 VA	100.00%	65047 VA
S	SHUNT TRIP	Power - Continuous	8000 VA	100.00%	8000 VA
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 12EQB1 — **VOLTS:** 208Y/120 V — **MAINS RATING:** 225 A
LOCATION: ELEC B124 — **PHASES:** 3 — **MAINS TYPE:** MCB
MOUNTING: SURFACE — **WIRES:** 4 — **MCB RATING:** 225 A
SUPPLY FROM: T-EQB1 — **AIC RATING:** 10,000 — **MCB OPTIONS:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	MECH B132	RECEPT	20 A	1	0.18	0.32					1	20 A	E1	B123 - MILK COOLER	2	G
	3	ELEC B124	RECEPT	20 A	1			0.72	0.32			1	20 A	E73A	B115 - MILK COOLER	4	G
	5	ELEV PIT B133	RECEPT	20 A	1					0.18	0.32	1	20 A	E73B	B115 - MILK COOLER	6	G
	7	DHW-1 MECH B128	MECH	20 A	1	0.36	1.92					1	20 A	E9A	B116.1 - COOLER LTS/DOOR	8	
	9	DHW-2 MECH B128	MECH	20 A	1			0.18	0.38			1	20 A	E9B	B116.1 - COOLER EVAP FANS	10	
	11	LIFT B112B	MOTOR	20 A	1					1.92	1.35	3	20 A	E9C	B116.1 - COOLER CONDENSER	12	
	13	AREA D ROOF	CU-D1	20 A	2	1.14	1.35					--	--	--	--	14	--
--	15	--	--	--	--			1.14	1.35			--	--	--	--	16	--
	17	AREA C ROOF	CU-C1	20 A	2					1.14	2.76	3	35 A	E9G	B116.1 - FREEZER CONDENSER	18	
--	19	--	--	--	--	1.14	2.76					--	--	--	--	20	--
	21	SPLIT COND. CU-B1 ROOF	CU-B1	20 A	2			1.98	2.76			--	--	--	--	22	--
--	23	--	--	--	--					1.98	1.92	1	20 A	E9AA	B116.1 - FREEZER LTS/DOOR	24	
	25	GEN. BLOCK HEATER	GEN	20 A	1	1.20	1.92					1	20 A	E9D	B116.1 - FREEZER DRAIN TAPE	26	
	27	GEN.BATTERY CHARGER	GEN	30 A	2			2.08	0.18			1	20 A	MOTOR	ELEVATOR SUMP ELEV B133	28	
--	29	--	--	--	--					2.08	0.00	1	20 A		SPARE	30	--
S	31	MECH B128 BOILER	B-1	20 A	3	1.93	0.00					1	20 A		SPARE	32	--
--	33	--	--	--	--			1.93	0.00			1	20 A		SPARE	34	--
--	35	--	--	--	--					1.93	0.00	1	20 A		SPARE	36	--
	37	MECH A200	TCPs	20 A	1	0.36	0.00					1	20 A		SPARE	38	--
	39	MECH B200	TCPs	20 A	1			0.36	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
					TOTAL LOAD:	14.60 kVA		13.39 kVA		15.59 kVA							
					TOTAL AMPS:	123 A		112 A		131 A							

A1

TOTAL CONNECTED LOAD:	43.58 kVA	36.78 kVA	**TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS:	131 A	102 A	**TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
C	CONTACTOR CONTROLLED	Receptacle - General	1800 VA	100.00%	1800 VA
G	GFCI PROTECTED	Kitchen Equipment -...	19452 VA	65.00%	12643 VA
P	HANDLE LOCKING DEVICE	Mechanical - Motor	14332 VA	100.00%	14332 VA
S	SHUNT TRIP	Power - Continuous	8000 VA	100.00%	8000 VA
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	Addendum #1	05.31.2022

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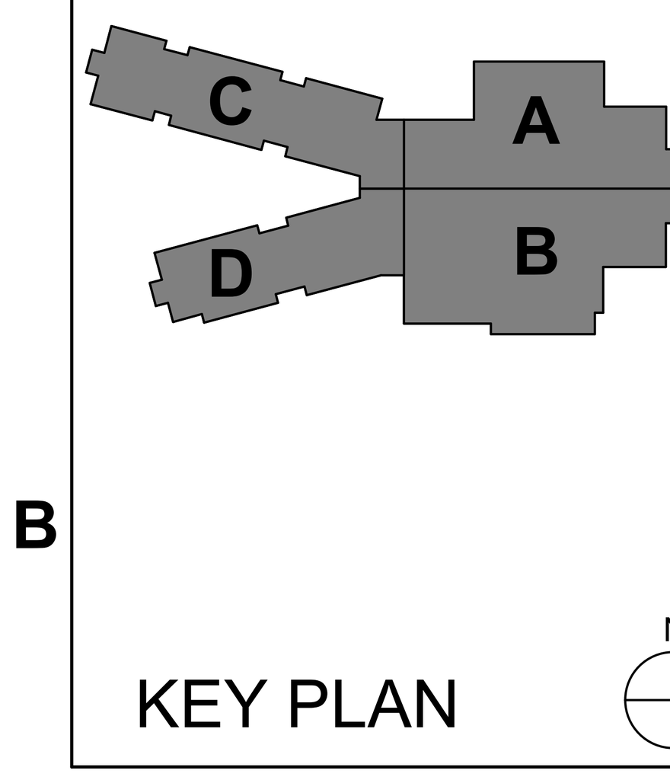

KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

PANELBOARD SCHEDULES - EQUIPMENT BRANCH POWER

E-613

TELECOMMUNICATIONS DEFINITIONS AND ABBREVIATIONS

DEFINITIONS

ACCEPTANCE TEST - A TEST OR SET OF TESTS PERFORMED TO DEMONSTRATE SATISFACTORY COMPLETION OF A PREDETERMINED TASK OR GROUP OF TASKS ON WHICH ACCEPTANCE IS DEPENDANT.

ACCESS POINT (AP) - THE CENTRAL OR CONTROL POINT IN A WIRELESS CELL THAT ACTS AS A LINK FOR TRAFFIC TO AND FROM WIRELESS DEVICES IN THE CELL. THE AP ALSO CONNECTS WIRELESS DEVICES TO THE WIRED PORTION OF THE NETWORK.

ACTIVE CIRCUIT - A VOICE/DATA/VIDEO CHANNEL CONNECTED TO A CIRCUIT.

ACTIVE EQUIPMENT - ENERGIZED EQUIPMENT USED FOR RECEIVING OR TRANSMITTING ANALOG OR DIGITAL SIGNALS.

ADMINISTRATION - THE METHODOLOGY DEFINING THE DOCUMENTATION REQUIREMENTS OF A CABLING SYSTEM AND ITS CONTAINMENT, THE LABELING OF FUNCTIONAL ELEMENTS AND THE PROCESS BY WHICH MOVES, ADDS, AND CHANGES ARE RECORDED. (ISO)

ALIEN CROSSTALK - UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS IN A GIVEN CABLE TO OTHER CIRCUITS IN ANOTHER CABLE.

ATTENUATION - THE DECREASE IN MAGNITUDE OF TRANSMISSION SIGNAL STRENGTH BETWEEN POINTS, EXPRESSED IN DB AS THE RATIO OF OUTPUT TO INPUT SIGNAL LEVEL.

ATTENUATION-TO-CROSSTALK RATION (ACR) - THE RATIO OBTAINED BY SUBTRACTING INSERTION LOSS (ATTENUATION [DB]) FROM NEAR-END CROSSTALK (DB). ACR IS NORMALLY STATED AT A GIVEN FREQUENCY. SEE SIGNAL-TO-NOISE RATIO.

BACKBONE - A FACILITY (E.G., PATHWAY, CABLE, OR CONDUCTORS) BETWEEN ANY OF THE FOLLOWING SPACES: TELECOMMUNICATIONS ENCLOSURES, TELECOMMUNICATIONS ROOMS, EQUIPMENT ROOMS, AND ENTRANCE FACILITIES.

BACKBONE BONDING CONDUCTOR - A COPPER CONDUCTOR EXTENDING FROM THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TO THE FARTHEST FLOOR TELECOMMUNICATIONS GROUNDING BUSBAR. (TIA)

BALANCED TWISTED-PAIR CABLE - A MULTI-CONDUCTOR CABLE COMPRISING TWO OR MORE COPPER CONDUCTORS TWISTED IN A MANNER DESIGNED TO CANCEL ELECTRICAL INTERFERENCE.

BANDWIDTH - A MEASURE OF THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL, TYPICALLY EXPRESSED IN HERTZ. IT IS USED TO DENOTE THE POTENTIAL TRANSMISSION CAPACITY OF THE MEDIUM, DEVICE, OR SYSTEM.

BEND RADIUS - 1. MAXIMUM RADIUS THAT A CABLE CAN BE BENT TO AVOID PHYSICAL OR ELECTRICAL DAMAGE OR CAUSE ADVERSE TRANSMISSION PERFORMANCE. 2. RADIUS OF CURVATURE THAT A MEDIA CAN BEND WITHOUT SIGNAL DEGRADATION.

BICSI - AN INTERNATIONAL TELECOMMUNICATIONS ASSOCIATION.

BONDING - THE PERMANENT JOINING OF METALLIC PARTS TO FORM AN ELECTRICALLY CONDUCTIVE PATH THAT WILL ENSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO CONDUCT SAFELY ANY CURRENT LIKELY TO BE IMPOSED. (TIA)

BONDING CONDUCTOR (BC) - A CONDUCTOR USED SPECIFICALLY FOR THE PURPOSE OF BONDING.

BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) - A CONDUCTOR THAT INTERCONNECTS THE BUILDINGS SERVICE EQUIPMENT (POWER) GROUND TO THE TELECOMMUNICATIONS GROUNDING SYSTEM.

BORING - A METHOD TO DISPLACE EARTH UNDER THE GROUND WITHOUT BREAKING THE GROUND SURFACE (TRENCHING) OR CUTTING GROUND SURFACES (E.G., SIDEWALKS, DRIVEWAYS, PARKING LOTS, AND ROAD SURFACES). NORMALLY, AS DIRT IS DISPLACED OR REMOVED, CONDUIT IS INSERTED.

CABLING SYSTEM - A SPECIFIC SYSTEM OF TELECOMMUNICATIONS CABLES, EQUIPMENT/PATCH CORDS, CONNECTING HARDWARE, AND OTHER COMPONENTS THAT IS SUPPLIED AS A SINGLE ENTITY.

CARD READER - A SECURITY SYSTEM DEVICE THAT READS CODED CARDS.

CATEGORY - A RATING THAT DEFINES THE PERFORMANCE OF CABLING COMPONENTS AND SYSTEMS.

CELL - THE FIXED AREA IN WHICH A WIRELESS DEVICES OPERATES.

COMMUNICATIONS - SEE TELECOMMUNICATIONS.

CROSS-CONNECT - A FACILITY ENABLING THE TERMINATION OF CABLE ELEMENTS AND THEIR INTERCONNECTION OR CROSS-CONNECTION. (TIA)

CROSSTALK - UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS TO OTHER CIRCUITS.

CUTOVER - THE PROCESS OF SWITCHING FROM OLD NETWORK COMPONENTS TO NEW NETWORK COMPONENTS.

DAISY-CHAIN TOPOLOGY - DEVICES ARE CONNECTED IN SERIES, ONE AFTER THE OTHER, AND THE TRANSMITTED SIGNALS GO TO THE FIRST DEVICES, THEN THE SECOND, ETC.

DATA - ELECTRONICALLY ENCODED INFORMATION. (TIA)

DATA COMMUNICATION - THE TRANSMISSION AND RECEPTION OF ELECTRONICALLY CODED INFORMATION.

DATA NETWORK - AN INTERCONNECTED SYSTEM OF COMPUTERS, PERIPHERALS, AND SOFTWARE OVER WHICH COMMANDS, FILES, AND MESSAGES ARE SENT AND RECEIVED.

DECIBEL (DB) - A LOGARITHMIC UNIT FOR MEASURING THE RELATIVE POWER OR STRENGTH OF A SIGNAL.

DELAY SKEW - THE DIFFERENCE IN PROPAGATION DELAY BETWEEN ANY TWO PAIRS WITHIN THE SAME CABLE SHEATH. (TIA)

DEMARCATION POINT (DP) - 1. A POINT WHERE THE OPERATIONAL CONTROL OR OWNERSHIP CHANGES. (TIA) 2. THE POINT OF INTERFACE BETWEEN SERVICE PROVIDERS AND CUSTOMER FACILITIES.

DIELECTRIC - 1. THE NONCONDUCTIVE PROPERTIES OF AN INSULATING MATERIAL THAT RESISTS THE PASSAGE OF ELECTRIC CURRENT. THE INSULATION SURROUNDING A COPPER CONDUCTOR IS KNOWN AS A DIELECTRIC. 2. A MATERIAL THAT IS NONMETALLIC AND NONCONDUCTIVE. 3. A NONCONDUCTOR OF DIRECT ELECTRIC CURRENT.

DIRECT-BURIED CABLE - A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH, IN DIRECT CONTACT WITH THE SOIL. (TIA)

ELECTROMAGNETIC INTERFERENCE (EMI) - RADIATED OR CONDUCTED ELECTROMAGNETIC ENERGY THAT HAS AN UNDESIRABLE EFFECT ON ELECTRONIC EQUIPMENT OR SIGNAL TRANSMISSIONS. (TIA)

EQUAL LEVEL FAR-END CROSSTALK (ELFEXT) - CROSSTALK MEASURED AT THE OPPOSITE END FROM WHICH THE DISTURBING SIGNAL IS TRANSMITTED, NORMALIZED BY THE ATTENUATION CONTRIBUTION OF THE CABLE OR CABLING.

FAR-END CROSSTALK (FEXT) LOSS - A MEASURE OF THE UNWANTED SIGNAL COUPLING FROM A TRANSMITTER AT THE NEAR END INTO ANOTHER PAIR MEASURED AT THE FAR END, AND RELATIVE TO THE TRANSMITTED SIGNAL LEVEL. ALSO CALLED INPUT/OUTPUT FAR END CROSSTALK LOSS. (TIA)

FAULT TOLERANCE - THE ABILITY OF A SYSTEM TO CONTINUE OPERATIONS AFTER THE FAILURE OF ONE OR MORE COMPONENTS.

FIBER OPTICS - A COMMUNICATION SYSTEM THAT USES OPTICAL FIBER AS ITS MEDIUM.

GIGABIT PER SECOND (GB/S) - A TRANSMISSION RATE DENOTING ONE BILLION BITS PER SECOND.

GIGAHERTZ (GHZ) - A UNIT OF FREQUENCY DENOTING ONE BILLION CYCLES PER SECOND (HERTZ).

HERTZ (HZ) - 1. A UNIT OF MEASURE USED TO EXPRESS THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL. THIS RANGE IS ALSO CALLED BANDWIDTH. 2. A UNIT OF FREQUENCY EQUAL TO ONE CYCLE PER SECOND.

HOME RUN - A PATHWAY OR CABLE BETWEEN TWO LOCATIONS WITHOUT A SPLICE OR INTERMEDIATE TERMINATIONS POINTS IN BETWEEN.

HORIZONTAL CABLE - 1. A PERMANENT ELEMENT OF THE HORIZONTAL CABLING THAT CONNECTS THE TELECOMMUNICATIONS OUTLET/CONNECTOR AT THE WORK AREA AND THE FIRST PIECE OF CONNECTING HARDWARE IN THE HORIZONTAL OR MAIN CROSS-CONNECT. 2. FOUR PAIR 24 AWG UNSHIELDED TWISTED PAIR (UTP).

HORIZONTAL CROSS-CONNECT - A GROUP OF CONNECTORS THAT ALLOWS EQUIPMENT AND BACKBONE CABLING TO BE CROSS-CONNECTED.

INNERDUCT - A NONMETALLIC RACEWAY, USUALLY CIRCULAR, PLACED WITHIN A LARGER PATHWAY. (TIA)

INTERMEDIATE CROSS-CONNECT (IC) - THE CONNECTION POINT BETWEEN A BACKBONE CABLE THAT EXTENDS FROM THE MAIN CROSS-CONNECT AND THE BACKBONE CABLE FROM THE HORIZONTAL CROSS-CONNECT.

LATENCY - THE TIME IT TAKES FOR A SIGNAL TO PASS THROUGH A DEVICE OR NETWORK.

LOW-VOLTAGE CABLING/CABLING SYSTEM - TELECOMMUNICATIONS SIGNALING (INCLUDES BUILDING AUTOMATION SIGNALING) VOLTAGE LEVELS ARE TYPICALLY POWER-LIMITED WHEN COMPARED TO ELECTRICAL POWER CIRCUITS THAT CAN VARY FROM 100 VOLTS ALTERNATING CURRENT (AC) TO 240 VOLTS AC IN COMMERCIAL BUILDINGS. CIRCUITS TYPICALLY USE AN INHERENTLY LIMITED POWER SOURCE WITHOUT OVER-CURRENT PROTECTION OR A NONINHERENTLY LIMITED POWER SOURCE WHERE OVERCURRENT PROTECTION IS REQUIRED. SINCE TELECOMMUNICATIONS CABLING SYSTEMS ARE NOT USED TO DISTRIBUTE ELECTRICAL POWER, THE SIGNALING THAT OCCURS ON THESE COPPER-BASED SYSTEMS IS GENERALLY DESCRIBED AS LOW VOLTAGE.

MAIN CROSS-CONNECT (MC) - THE CROSS-CONNECT NORMALLY LOCATED IN THE (MAIN) TELECOMMUNICATIONS EQUIPMENT ROOM (ER) FOR CROSS-CONNECTION AND INTERCONNECTION OF ENTRANCE CABLES, FIRST-LEVEL BACKBONE CABLES, AND EQUIPMENT CABLES.

NEAR-END CROSSTALK (NEXT) LOSS - 1. THE UNWANTED SIGNAL COUPLING BETWEEN PAIRS. IT IS MEASURED AT THE END OF A CABLE NEAREST THE POINT OF TRANSMISSION. CONTRAST WITH FAR-END CROSSTALK. 2. THE SIGNAL TRANSFER BETWEEN CIRCUITS AT THE SAME (NEAR) END OF THE CABLE.

NETWORK - A GROUP OF THREE OR MORE NODES THAT CAN COMMUNICATE WITH EACH OTHER, EITHER DIRECTLY THROUGH CABLING OR INDIRECTLY THROUGH REPEATERS TO SEPARATE CABLING.

OUTSIDE PLANT (OSP) - TELECOMMUNICATIONS INFRASTRUCTURE DESIGNED FOR INSTALLATION EXTERIOR TO BUILDINGS.

PAIR - TWO INSULATED WIRES TWISTED AROUND EACH OTHER.

PAIR TWIST - THE UNIFORM TWIST OF AN INSULATED COPPER PAIR THAT HELPS TO REDUCE THE NEGATIVE EFFECTS OF CAPACITANCE IMBALANCE AND ELECTROMAGNETIC INDUCTION.

PATCH CORD - A LENGTH OF CABLE WITH A PLUG ON ONE OR BOTH ENDS.

PATCH PANEL - A CONNECTING HARDWARE SYSTEM THAT FACILITATES CABLE TERMINATION AND CABLING ADMINISTRATION USING PATCH CORDS.

PATHWAY - 1. A SEQUENCE OF CONNECTIONS THAT PROVIDES THE CONNECTIVITY BETWEEN DEVICES ON A NETWORK OR BETWEEN NETWORKS ON AN INTERNETWORK. 2. THE VERTICAL AND HORIZONTAL ROUTE OF THE TELECOMMUNICATIONS CABLE. 3. A FACILITY FOR THE PLACEMENT OF TELECOMMUNICATIONS CABLE. (TIA) 3. A FACILITY FOR THE PLACEMENT OF TELECOMMUNICATIONS CABLE. (TIA)

POWER SUM - USED TO SPECIFY A COMBINATION CROSSTALK FROM MULTIPLE SOURCES.

POWER SUM ATTENUATION-TO-CROSSTALK RATIO - A RATIO IN DB, DETERMINED BY SUBTRACTING THE INSERTION LOSS FROM TH EPOWER SUM NEAR-END CROSSTALK LOSS. (TIA)

POWER SUM EQUAL LEVEL FAR-END CROSSTALK (PSELFEXT) - A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE FAR-END, AND NORMALIZED TO THE RECEIVED SIGNAL LEVEL. (TIA)

POWER SUM NEAR-END CROSSTALK (PSNEXT) LOSS - A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE NEAR-END. (TIA)

PULL TENSION - THE PULLING FORCE THAT CAN BE APPLIED TO A CABLE. (TIA)

PUNCH DOWN - THE PROCESS OF TERMINATING COPPER CABLE CONDUCTORS ON INSULATION DISPLACEMENT CONNECTION TERMINALS BY USE OF A HANDHELD TOOL.

QUEUING - A TECHNIQUE THAT REDUCES TRANSMISSION DELAYS BY CLASSIFYING AND SORTING DATA PRIOR TO PROCESSING BY THE TRANSMITTING DEVICE.

RACEWAY - ANY ENCLOSED CHANNEL DESIGNED FOR HOLDING WIRES OR CABLES. (TIA)

RADIO FREQUENCY INTERFERENCE - ELECTROMAGNETIC INTERFERENCE WITHIN THE FREQUENCY BAND FOR RADIO TRANSMISSION.

RETURN LOSS - A RATIO, EXPRESSED IN DB, OF THE POWER OF THE OUTGOING SIGNAL TO THE POWER OF THE REFLECTED SIGNAL. (TIA)

REVERSED PAIR - A CONDITION IN WHICH THE CONDUCTORS IN A PAIR ARE TERMINATED IN THE WRONG SEQUENCE.

DEFINITIONS (CONTINUED)

RIBBON CABLE - AN ASSEMBLY OF CONDUCTORS LAID SIDE BY SIDE IN A GEOMETRIC PLANE AND FASTENED TOGETHER.

SCALABILITY - THE ABILITY OF A NETWORK TO GROW WITHOUT DEGRADATION OF QUALITY.

SERVICE LOOP - A SURPLUS OF CABLE AT THE POINT OF TERMINATION TO FACILITATE POTENTIAL FUTURE CHANGES.

SHIELDED ENCLOSURE CABINET - A METAL ELECTRONICS CABINET CONSTRUCTED WITH WELDED SEAMS AND CONDUCTIVE GASKETS ON THE DOORS THAT SERVE AS AN EFFECTIVE SHIELD AGAINST ELECTROMAGNETIC RADIATION.

SPLIT PAIR - TRANSPOSITION OF TWO CONDUCTORS OF SEPARATE PAIRS.

STAR TOPOLOGY - A NETWORK TOPOLOGY IN WHICH SERVICES ARE DISTRIBUTED FROM A CENTRAL POINT.

STRUCTURED CABLING SYSTEM - THE COMPLETE COLLECTIVE CONFIGURATION OF TELECOMMUNICATIONS CABLING AND ASSOCIATED HARDWARE AT A GIVEN LOCATION.

SWEEP - BEND THAT HAS A GENTLE ARC RATHER THAN A SHARP BEND.

TELECOMMUNICATIONS - ANY TRANSMISSION, EMISSION, AND RECEPTION OF SIGNS, SIGNALS, WRITINGS, IMAGES, AND SOUNDS, THAT IS, INFORMATION OF ANY NATURE BY CABLE, RADIO, OPTICAL, OR OTHER ELECTROMAGNETIC SYSTEMS. (TIA)

TELECOMMUNICATIONS BONDING BACKBONE - A CONDUCTOR THAT INTERCONNECTS THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) TO THE TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). (TIA)

TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR - A CONDUCTOR INSTALLED FROM EACH PIECE OF EQUIPMENT TO THE TELECOMMUNICATIONS GROUNDING BUSBAR OR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.

TELECOMMUNICATIONS CABINET - AN ENCLOSURE USED FOR TERMINATING TELECOMMUNICATIONS CABLES, WIRING, AND CONNECTION DEVICES WITH A HINGED COVER, USUALLY FLUSH-MOUNTED IN THE WALL. (TIA)

TELECOMMUNICATIONS ENCLOSURE - A CASE OR HOUSING FOR TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)

TELECOMMUNICATIONS ENTRANCE FACILITY - AN ENTRANCE TO A BUILDING FOR BOTH PUBLIC AND PRIVATE NETWORK SERVICE CABLES (INCLUDING WIRELESS) INCLUDING THE ENTRANCE POINT AT THE BUILDING WALL AND CONTINUING TO THE ENTRANCE ROOM OR SPACE. (TIA) 2. A FACILITY THAT PROVIDES ALL NECESSARY MECHANICAL AND ELECTRICAL SERVICES, THAT COMPLIES WITH ALL RELEVANT REGULATIONS, FOR THE ENTRY OF TELECOMMUNICATIONS CABLES INTO A BUILDING. (ISO)

TELECOMMUNICATIONS EQUIPMENT ROOM - AN ENVIRONMENTALLY CONTROLLED CENTRALIZED SPACE FOR TELECOMMUNICATIONS EQUIPMENT THAT USUALLY HOUSES A MAIN OR INTERMEDIATE CROSS-CONNECT. (TIA)

TELECOMMUNICATIONS GROUNDING BUSBAR - A COMMON POINT OF CONNECTION FOR TELECOMMUNICATIONS SYSTEM AND EQUIPMENT BONDING TO GROUND, AND LOCATED IN THE TELECOMMUNICATIONS ROOM OR EQUIPMENT ROOM.

TELECOMMUNICATIONS INFRASTRUCTURE - A COLLECTION OF THOSE TELECOMMUNICATIONS COMPONENTS, EXCLUDING EQUIPMENT, THAT TOGETHER PROVIDE THE BASIC SUPPORT FOR THE DISTRIBUTION OF ALL INFORMATION WITHIN A BUILDING OR CAMPUS.

TELECOMMUNICATIONS MAINTENANCE HOLE - A VAULT LOCATED IN THE GROUND OR EARTH AS PART OF A UNDERGROUND DUCT SYSTEM AND USED TO FACILITY PLACING, CONNECTORIZATION, AND MAINTENANCE OF CABLES AS WELL AS THE PLACING OF ASSOCIATED EQUIPMENT, IN WHICH IT IS EXPECTED THAT A PERSON WILL ENTER TO PERFORM WORK. (TIA)

TELECOMMUNICATIONS MEDIA - WIRE, CABLE, OR CONDUCTORS USED FOR TELECOMMUNICATIONS. (TIA)

TELECOMMUNICATIONS OUTLET/CONNECTOR - A CONNECTING DEVICE IN THE WORK AREA ON WHICH HORIZONTAL CABLE OR OUTLET CABLE TERMINATES.

TELECOMMUNICATION ROOM - AN ENCLOSED ARCHITECTURAL SPACE FOR HOUSING TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)

TELECOMMUNICATIONS SPACE - AN AREA USED FOR HOUSING THE INSTALLATION AND TERMINATION OF TELECOMMUNICATIONS EQUIPMENT AND CABLE (E.G., COMMON EQUIPMENT ROOMS, EQUIPMENT ROOMS, COMMON TELECOMMUNICATIONS ROOMS, TELECOMMUNICATIONS ROOMS, WORK AREAS, MAINTENANCE HOLES/HANDHOLES). (TIA)

TRANSPOSED PAIRS - WHEN TWO PAIRS OF CONDUCTORS ARE TERMINATED IN EACH OTHER'S LOCATION.

UNDERGROUND - REFERS TO CONDUIT AND MAINTENANCE HOLES SYSTEMS INSTALLED BELOW THE SURFACE OF THE GROUND.

UNDERGROUND CABLE - A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH IN A TROUGH OR DUCT THAT ISOLATES THE CABLE FROM DIRECT CONTACT WITH THE SOIL. (TIA)

UTILITY COLUMN - AN ENCLOSED PATHWAY EXTENDING FROM THE CEILING TO FURNITURE OR TO THE FLOOR THAT FORMS A PATHWAY FOR ELECTRICAL WIRING, TELECOMMUNICATIONS CABLE, OR BOTH. (TIA)

WORK AREA (WORK STATION) - A BUILDING SPACE WHERE THE OCCUPANTS INTERACT WITH TELECOMMUNICATIONS TERMINAL EQUIPMENT. (TIA)

WORK AREA CABLE (CORD) - A CABLE CONNECTING THE TELECOMMUNICATIONS OUTLET/CONNECTOR TO THE TERMINAL EQUIPMENT.

WORK AREA OUTLET - A CONNECTING DEVICE FOR TERMINATION OF HORIZONTAL MEDIA.

ABBREVIATIONS

8P8C - EIGHT PIN, EIGHT CONNECTOR UTP CABLE TERMINATION
ACR - ATTENUATION-TO-CROSSTALK RATIO
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
AWG - AMERICAN WIRE GAUGE
BAS - BUILDING AUTOMATION SYSTEM
BC - BONDING CONDUCTOR
BCT - BONDING CONDUCTOR FOR TELECOMMUNICATIONS
BICSI - BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
CO-OSP - CUSTOMER-OWNED OUTSIDE PLANT
DB - DECIBEL
DEMARC - DEMARCATION POINT
DPS - DOOR POSITION SWITCH
EAC - ELECTRONIC ACCESS CONTROL
EF - ENTRANCE FACILITY
EIA - ELECTRONIC INDUSTRIES ALLIANCE
EMI - ELECTROMAGNETIC INTERFERENCE
ER - TELECOMMUNICATIONS EQUIPMENT ROOM
FCC - FEDERAL COMMUNICATIONS COMMISSION
GB - GIGABIT
GHZ - GIGAHERTZ
HC - HORIZONTAL CROSS-CONNECT
HZ - HERTZ
IBC - INTERCONNECTING BONDING CONDUCTOR
IC - INTERMEDIATE CROSS-CONNECT
IDC - INSULATION DISPLACEMENT CONNECTION (OR)
IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
KB - KILOBIT
KB - KILOBYTE
KHZ - KILOHERTZ
KM - KILOMETER
LEC - LOCAL EXCHANGE CARRIER
LAN - LOCAL AREA NETWORK
LASER - LIGHT AMPLIFICATION BY STIMULATED EMISSION OF RADIATION
LED - LIGHT-EMITTING DIODE
MB - MEGABIT
MC - MAIN CROSS-CONNECT
MH - TELECOMMUNICATIONS MAINTENANCE HOLE
MHZ - MEGAHERTZ
MUTO - MULTI-USER TELECOMMUNICATIONS OUTLET
MUTOA - MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
NOS - NETWORK OPERATING SYSTEM
NEC - NATIONAL ELECTRIC CODE
NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
NTS - NETWORK TRANSPORT SYSTEMS
OS - OPERATING SYSTEM
PSACR - POWER SUM ATTENUATION TO CROSSTALK RATIO
PSELFEXT - POWER SUM EQUAL LEVEL FAR-END CROSSTALK
QOS - QUALITY-OF-SERVICE
RCDD - REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RFI - RADIO FREQUENCY INTERFERENCE
RFID - RADIO FREQUENCY IDENTIFICATION
RGB - RED, GREEN, BLUE
SONET - SYNCHRONOUS OPTICAL NETWORK
SPOOL - SIMULTANEOUS PERIPHERAL OPERATION ONLINE
TBB - TELECOMMUNICATIONS BONDING BACKBONE
TDMM - TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL
TGB - TELECOMMUNICATIONS GROUNDING BUSBAR
TIA - TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR - TELECOMMUNICATIONS ROOM
UTP - UNSHIELDED TWISTED PAIR
VCSEL - VERTICAL CAVITY SURFACE EMITTING LASER
VGA - VIDEO GRAPHICS ARRAY
VOD - VIDEO-ON-DEMAND
VOIP - VOICE OVER INTERNET PROTOCOL
WAP - WIRELESS ACCESS POINT
WLAN - WIRELESS LOCAL AREA NETWORK
X - CROSS-CONNECT

TELECOMMUNICATIONS SYS.		SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
1	TELECOMMUNICATIONS OUTLET	ROUGH-IN	(1) 1" CONDUIT, (1) 2-GANG BOX	+18" A.F.F. WALL MTD.	PROVIDE SINGLE REDUCER
1	TELECOMMUNICATIONS COUNTERTOP OUTLET	ROUGH-IN	(1) 1" CONDUIT, (1) 2-GANG BOX	2" ABV. BACKSPLASH TO BOTTOM	PROVIDE SINGLE REDUCER ALIGN WITH POWER RECEPTACLE
2/V	TELECOMMUNICATIONS AUDIO / VIDEO OUTLET	ROUGH-IN	(2) 1-1/4" CONDUITS, (1) 2-GANG BOX	+18" A.F.F. WALL MTD.	- -
AP	WIRELESS ACCESS POINT OUTLET (CEILING MOUNTED)	ROUGH-IN	- -	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	- -
	CABLE TRAY	CABLE TRAY AND ASSOCIATED HARDWARE	- -	+96" A.F.F. TO BOTTOM	REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
	TELECOMMUNICATIONS CABINET	CABINET (AS SPECIFIED)	- -	FLOOR MOUNTED	- -
	TELECOMMUNICATIONS RACK	RACK (AS SPECIFIED)	- -	FLOOR MOUNTED	- -

SOUND SYSTEMS		SCOPE OF WORK	ROUGH-IN INFORMATION	MOUNTING HEIGHT	NOTES
S	INTERCOM SPEAKER (CEILING MOUNTED)	CABLING SPEAKER	- -	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	- -
S	INTERCOM SPEAKER (WALL MOUNTED)	ROUGH-IN CABLING SPEAKER	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -
S	INTERCOM SPEAKER HORN (CEILING MOUNTED)	CABLING SPEAKER	- -	CEILING MOUNTED SEE T-SERIES DRAWINGS	- -
S	INTERCOM SPEAKER HORN (WALL MOUNTED)	ROUGH-IN CABLING SPEAKER	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -
M	MICROPHONE OUTLET (# INDICATES JACK QTY.)	ROUGH-IN CABLING MIC CONNECTOR	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+18" A.F.F. WALL MTD.	- -
V	VOLUME CONTROL	ROUGH-IN, CABLING, VOLUME CONTROL	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	- -
S L	LOCAL SOUND REINFORCEMENT SPEAKER (CEILING MOUNTED)	CABLING SPEAKER	- -	CEILING MOUNTED SEE RCP	- -
S L	LOCAL SOUND REINFORCEMENT SPEAKER (WALL MOUNTED)	ROUGH-IN CABLING SPEAKER	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -
SR	SOUND SYSTEM CENTRAL EQUIPMENT CABINET	ROUGH-IN CABLING CABINET	- -	WALL MOUNTED	- -
CI	CALL-IN BUTTON	ROUGH-IN CABLING BUTTON DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	- -
B	BUTTON	ROUGH-IN CABLING BUTTON DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	- -
	WALL MOUNTED CLOCK	ROUGH-IN CABLING CLOCK	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -
	RINGER / BELL DEVICE	ROUGH-IN CABLING BELL DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	- -

SECURITY SYSTEMS		SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
SURV	SURVEILLANCE CAMERA (CEILING MOUNTED)	- -	- -	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	ALL CAMERAS PROVIDED AND INSTALLED BY OWNER.
SURV SURV SURV	SURVEILLANCE CAMERA (WALL MOUNTED)	ROUGH-IN	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	ALL CAMERAS PROVIDED AND INSTALLED BY OWNER.
CR	CARD READER	ROUGH-IN CABLING CARD READER	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	- -
EAC	ELECTRONIC ACCESS CONTROL INTERFACE	CABLING CONTROL MODULE	- -	ABOVE ACCESSIBLE CEILING	SEE EAC DOOR SCHEMATIC DIAGRAM. PROVIDE REQUIRED CABLING FOR CONTROL AND/OR MONITORING.

VIDEO SYSTEMS		SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
DM	CEILING MOUNTED DISPLAY MONITOR	MOUNT, CABLING, MONITOR	- -	AS NOTED ON PLANS	- -
DM	WALL- MOUNTED DISPLAY MONITOR	ROUGH-IN, MOUNT, MONITOR	(2) 1 1/4" CONDUIT, (1) 2-GANG BOX	AS NOTED ON PLANS	- -
PR	CEILING-MOUNT PROJECTOR	ROUGH-IN, MOUNT	PROJECTOR CEILING PAN	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	SEE PROJECTOR PAN DETAIL

A1

ALL UTP DATA CABLING REFERRED TO IN THESE DRAWINGS IS BY OWNER'S CONTRACTOR. DO NOT BID HORIZONTAL DATA CABLING OR BACKBONE CABLING. ONLY BID ROUGH-INS AND PATHWAYS FOR THESE SYSTEMS.

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
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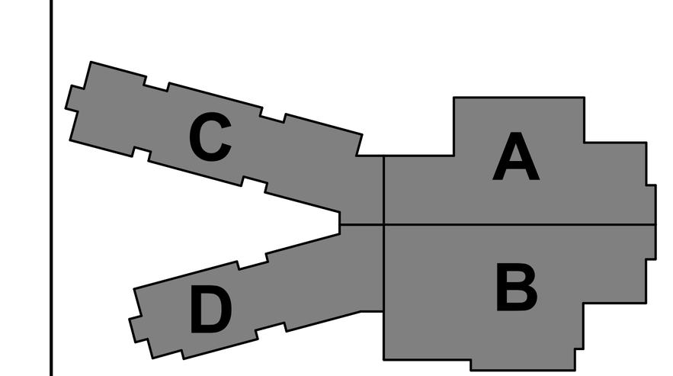
Project No. 2021-141.NES
Project Date 05.11.2022
Produced MD

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

TELECOMMUNICATIONS SYMBOLS AND ABBREVIATIONS

T-001

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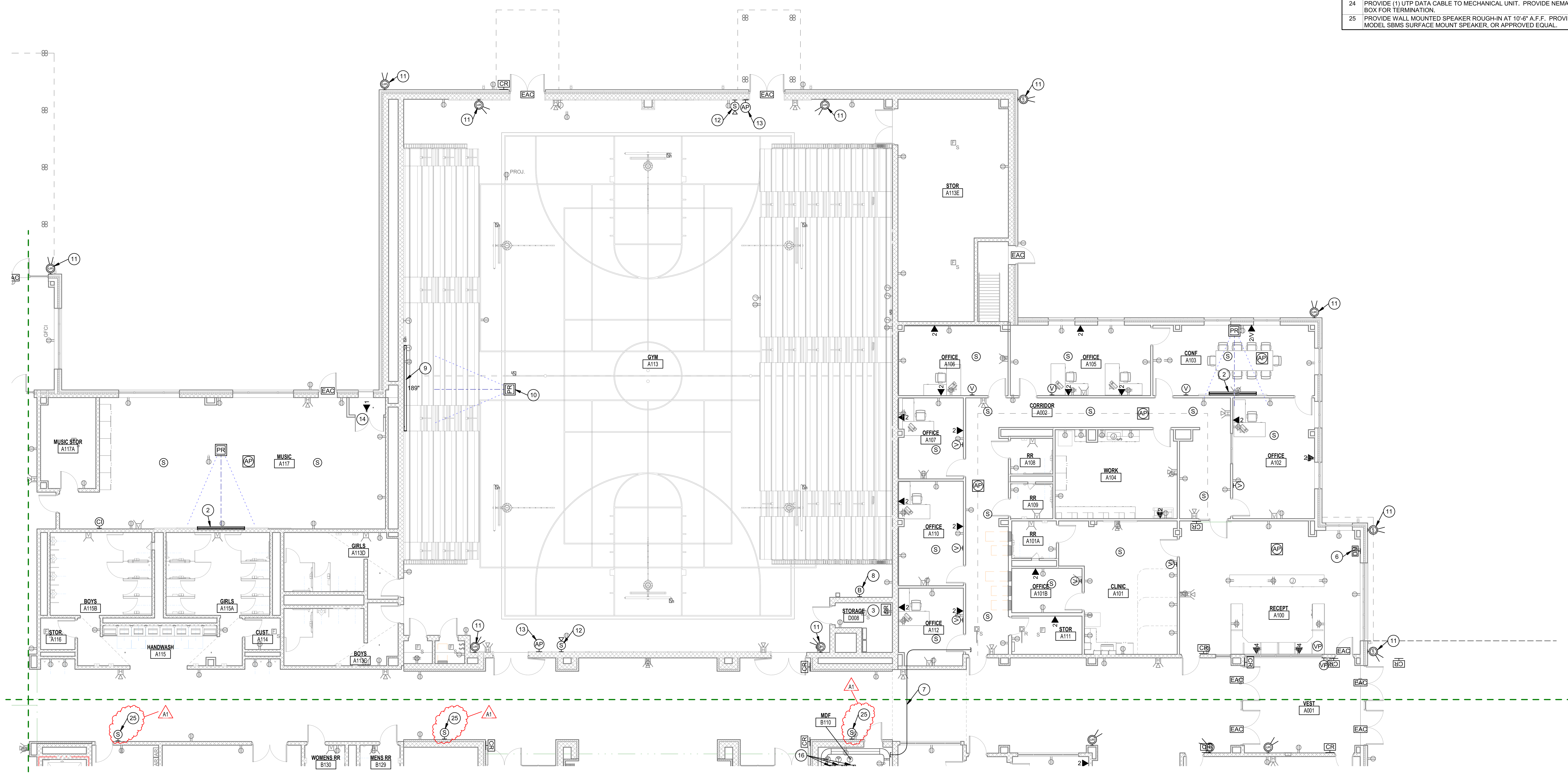
GENERAL TELECOMMUNICATIONS NOTES

#	NOTES
A	REFER TO SHEET T-001 FOR ADDITIONAL INFORMATION.

TELECOMMUNICATIONS PLAN NOTES

#	NOTES
1	PROVIDE CABLE TRAY AS SPECIFIED.
2	PROVIDE PROJECTION SCREEN AS SPECIFIED.
3	GYM SOUND SYSTEM CENTRAL EQUIPMENT.
4	CAFETORIUM SOUND SYSTEM CENTRAL EQUIPMENT.
5	PROVIDE BUZZER/BELL DEVICE AT 8'-0" A.F.F.
6	PROVIDE DATA AND POWER AT 7'-0" A.F.F.
7	PROVIDE (2) 4" CONDUITS FROM MDF (B110) TO ABOVE CEILING IN CORRIDOR (A002) FOR LOW VOLTAGE CABLE PATHWAY.
8	PROVIDE UP/DOWN/STOP SWITCH FOR MOTORIZED PROJECTION SCREEN.
9	PROVIDE PROJECTION SCREEN AS SPECIFIED. MOUNT SCREEN CASE AT 18'-0" A.F.F.
10	PROVIDE PROJECTOR AS SPECIFIED. PROVIDE EXTENSION AS REQUIRED (APPROX. 4' TO 5').
11	PROVIDE VIDEO SURVEILLANCE ROUGH-IN AT 10'-0" A.F.F.
12	PROVIDE ROUGH-IN FOR INTERCOM SPEAKER HORN AT 10'-0" A.F.F.
13	PROVIDE ROUGH-IN FOR WIRELESS ACCESS POINT AT 10'-0" A.F.F.
14	PROVIDE (1) UTP DATA CABLE TO MECHANICAL UNIT. COIL 15' SLACK LOOP.
15	PROVIDE PLYWOOD BACKBOARD.
16	PROVIDE RACKS AS SPECIFIED.
17	PROVIDE (4) UTP DATA CABLES FOR FIRE ALARM CONTROL PANEL.
18	PROVIDE (2) UTP DATA CABLES FOR TEMPERATURE CONTROL PANEL.
19	PROVIDE (2) UTP DATA CABLES FOR POINT OF SALE COMPUTERS.
20	PROVIDE BUZZER/BELL BUTTON AT 46" A.F.F.
21	PROVIDE 4" EMT SLEEVE FROM IDF BELOW. PROVIDE 4" EMT SLEEVE OUT TO ABOVE CEILING CORRIDOR.
22	PROVIDE 4" EMT CONDUIT FROM IDF TO ABOVE CEILING IN CORRIDOR. ROUTING AROUNG ELECTRICAL ROOM.
23	PROVIDE 4" EMT SLEEVE TO ABOVE CEILING IN CORRIDOR.
24	PROVIDE (1) UTP DATA CABLE TO MECHANICAL UNIT. PROVIDE NEMA 4 OUTLET BOX FOR TERMINATION.
25	PROVIDE WALL MOUNTED SPEAKER ROUGH-IN AT 10'-6" A.F.F. PROVIDE ATLASIED MODEL SBMS SURFACE MOUNT SPEAKER, OR APPROVED EQUAL.



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

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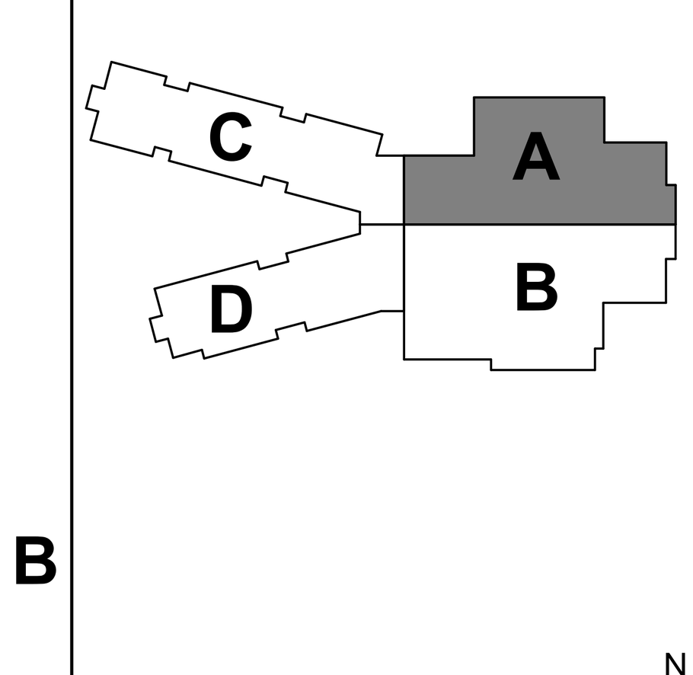

KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

FIRST FLOOR TELECOMMUNICATIONS PLAN - UNIT A

TF1A1

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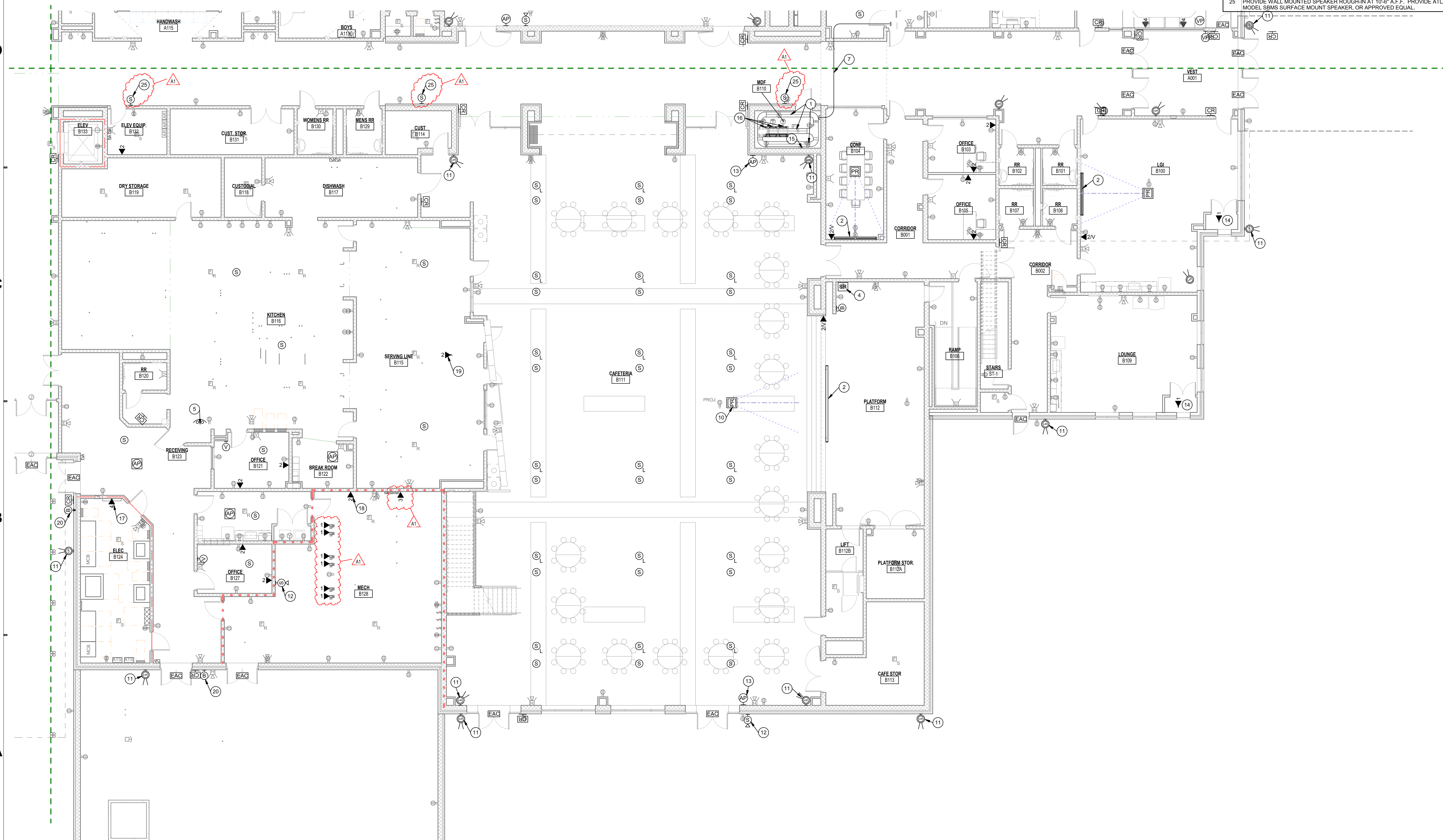

1 **FIRST FLOOR TELECOMMUNICATIONS PLAN - UNIT B**
1/8" = 1'-0"

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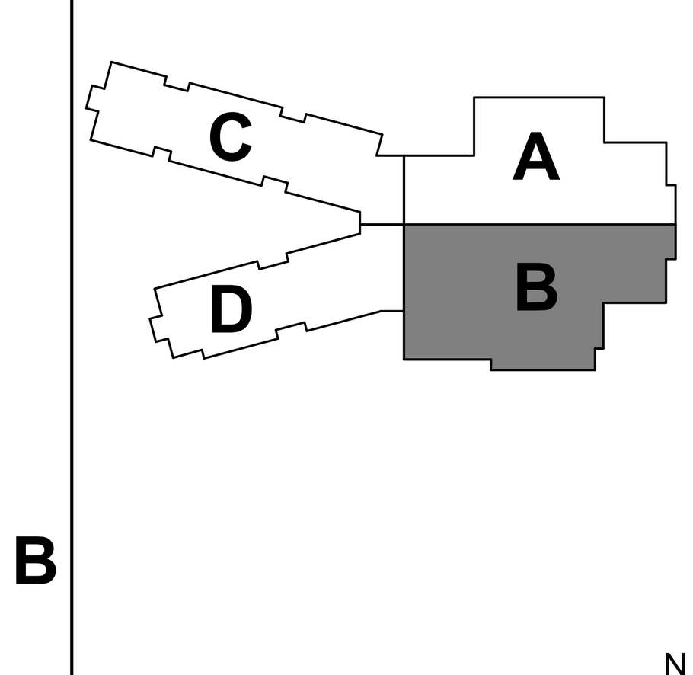

KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

FIRST FLOOR TELECOMMUNICATIONS PLAN - UNIT B

TF1B1

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11	PROVIDE VIDEO SURVEILLANCE ROUGH-IN AT 10'-0" A.F.F.
12	PROVIDE ROUGH-IN FOR INTERCOM SPEAKER HORN AT 10'-0" A.F.F.
13	PROVIDE ROUGH-IN FOR WIRELESS ACCESS POINT AT 10'-0" A.F.F.
14	PROVIDE (1) UTP DATA CABLE TO MECHANICAL UNIT. COIL 15' SLACK LOOP.
15	PROVIDE PLYWOOD BACKBOARD.
16	PROVIDE RACKS AS SPECIFIED.
17	PROVIDE (4) UTP DATA CABLES FOR FIRE ALARM CONTROL PANEL.
18	PROVIDE (2) UTP DATA CABLES FOR TEMPERATURE CONTROL PANEL.
19	PROVIDE (2) UTP DATA CABLES FOR POINT OF SALE COMPUTERS.
20	PROVIDE BUZZER/BELL BUTTON AT 46" A.F.F.
21	PROVIDE 4" EMT SLEEVE FROM IDF BELOW. PROVIDE 4" EMT SLEEVE OUT TO ABOVE CEILING CORRIDOR.
22	PROVIDE 4" EMT CONDUIT FROM IDF TO ABOVE CEILING IN CORRIDOR. ROUTING AROUNG ELECTRICAL ROOM.
23	PROVIDE 4" EMT SLEEVE TO ABOVE CEILING IN CORRIDOR.
24	PROVIDE (1) UTP DATA CABLE TO MECHANICAL UNIT. PROVIDE NEMA 4 OUTLET BOX FOR TERMINATION.
25	PROVIDE WALL MOUNTED SPEAKER ROUGH-IN AT 10'-6" A.F.F. PROVIDE ATLASIED MODEL SBMS SURFACE MOUNT SPEAKER, OR APPROVED EQUAL.

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

SCHMIDT ASSOCIATES
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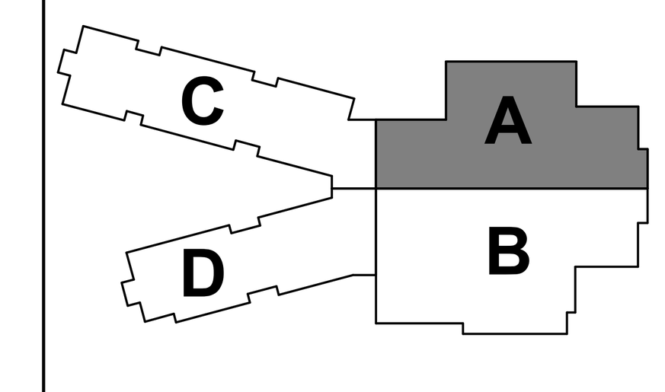
Project No. 2021-141.NES
Project Date 05.11.2022
Produced MD

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1	Addendum #1	05.31.2022

10559 E. THOMPSON RD
INDIANAPOLIS, IN 46239



KEY PLAN

FRANKLIN TOWNSHIP CSC

Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

SECOND FLOOR TELECOMMUNICATIONS PLAN - UNIT A

TF1A2

GENERAL TELECOMMUNICATIONS NOTES

#	NOTES
A	REFER TO SHEET T-001 FOR ADDITIONAL INFORMATION.

TELECOMMUNICATIONS PLAN NOTES

#	NOTES
1	PROVIDE CABLE TRAY AS SPECIFIED.
2	PROVIDE PROJECTION SCREEN AS SPECIFIED.
3	GYM SOUND SYSTEM CENTRAL EQUIPMENT.
4	CAFETORIUM SOUND SYSTEM CENTRAL EQUIPMENT.
5	PROVIDE BUZZER/BELL DEVICE AT 8'-0" A.F.F.
6	PROVIDE DATA AND POWER AT 7'-0" A.F.F.
7	PROVIDE (2) 4" CONDUITS FROM MDF (B110) TO ABOVE CEILING IN CORRIDOR (A002) FOR LOW VOLTAGE CABLE PATHWAY.
8	PROVIDE UP/DOWN/STOP SWITCH FOR MOTORIZED PROJECTION SCREEN.
9	PROVIDE PROJECTION SCREEN AS SPECIFIED. MOUNT SCREEN CASE AT 18'-0" A.F.F.
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1 SECOND FLOOR TELECOMMUNICATIONS PLAN - UNIT PLAN B
1/8" = 1'-0"

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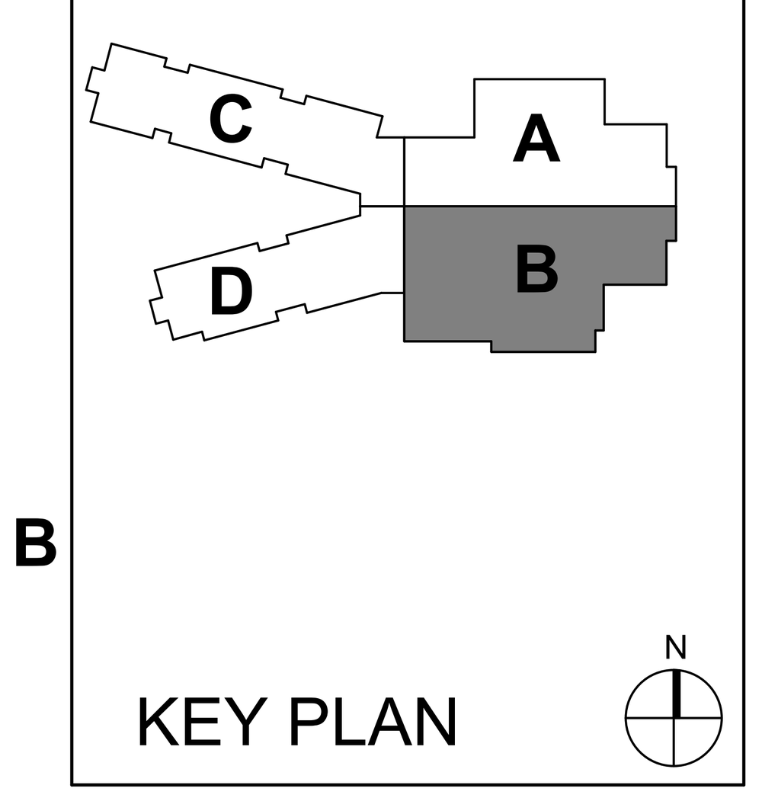


KEY PLAN

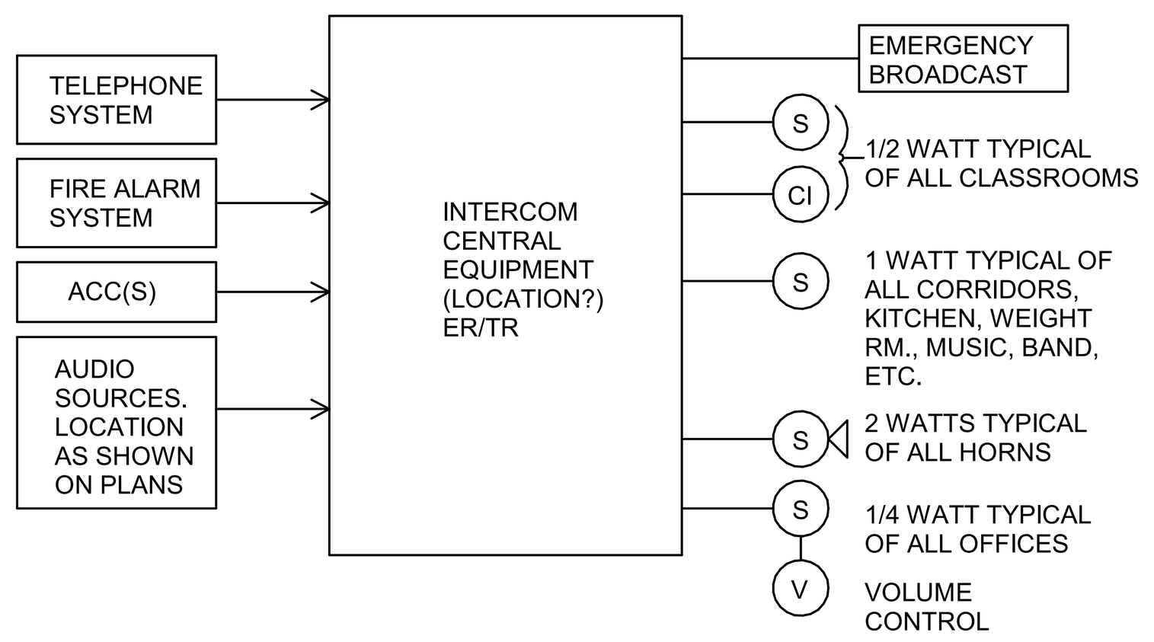
FRANKLIN TOWNSHIP CSC

NEW ELEMENTARY SCHOOL

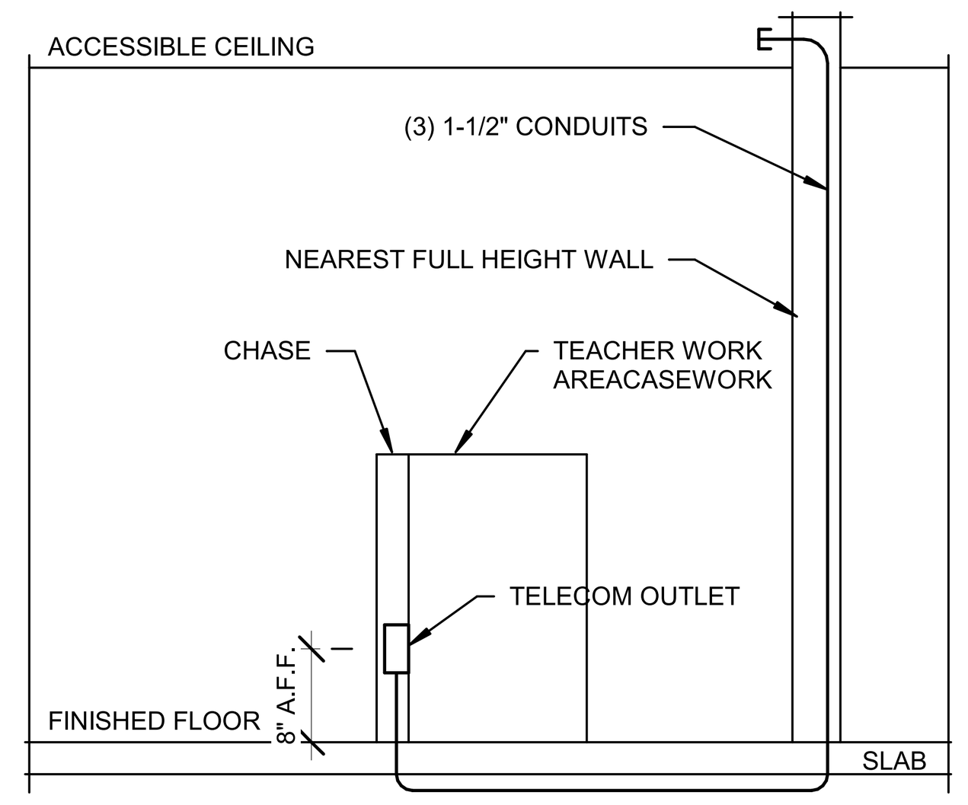
SECOND FLOOR TELECOMMUNICATIONS PLAN - UNIT B

TF1B2

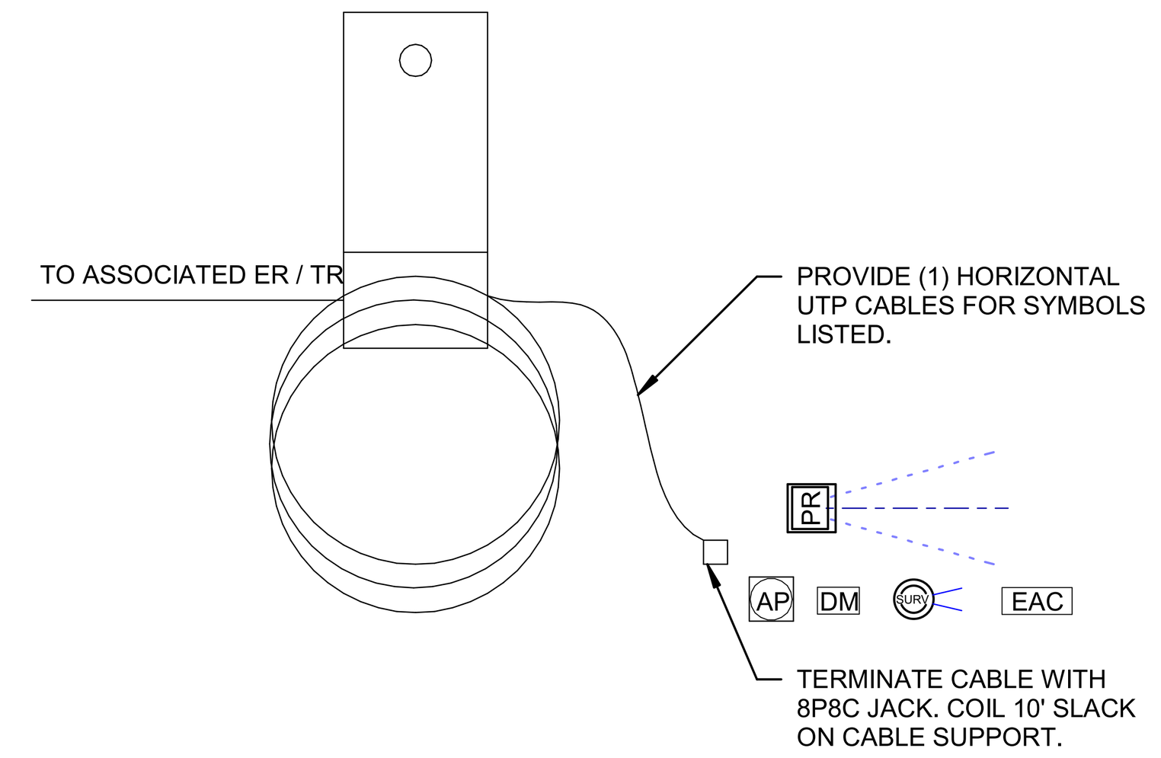
6 5 4 3 2 1



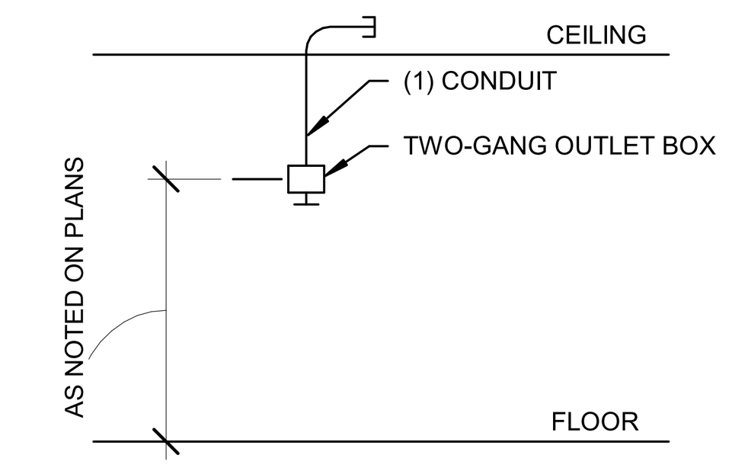
6E INTERCOM SYSTEM CONNECTIVITY DIAGRAM
NOT TO SCALE



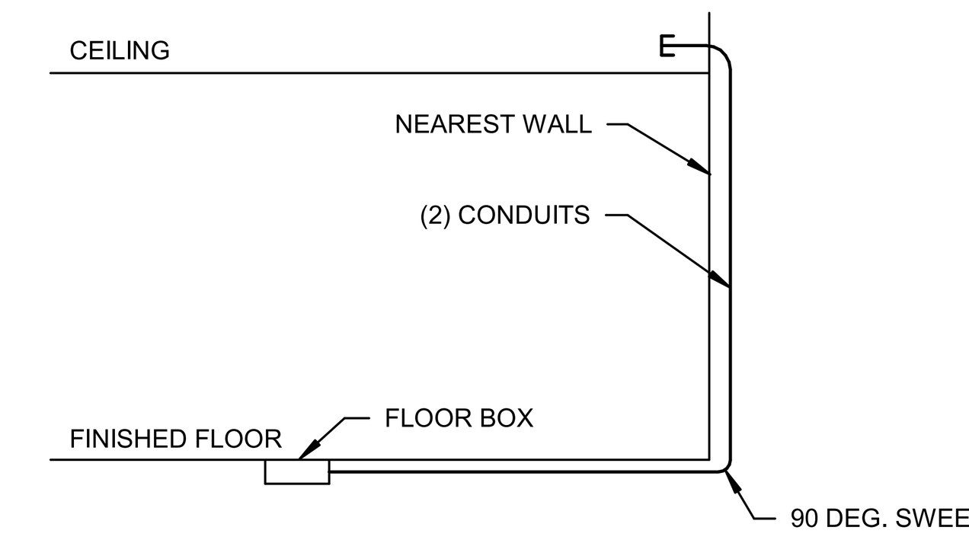
4E TELECOM ROUGH-IN/PATHWAY FOR SCIENCE LAB TEACHER WORK AREA
NOT TO SCALE



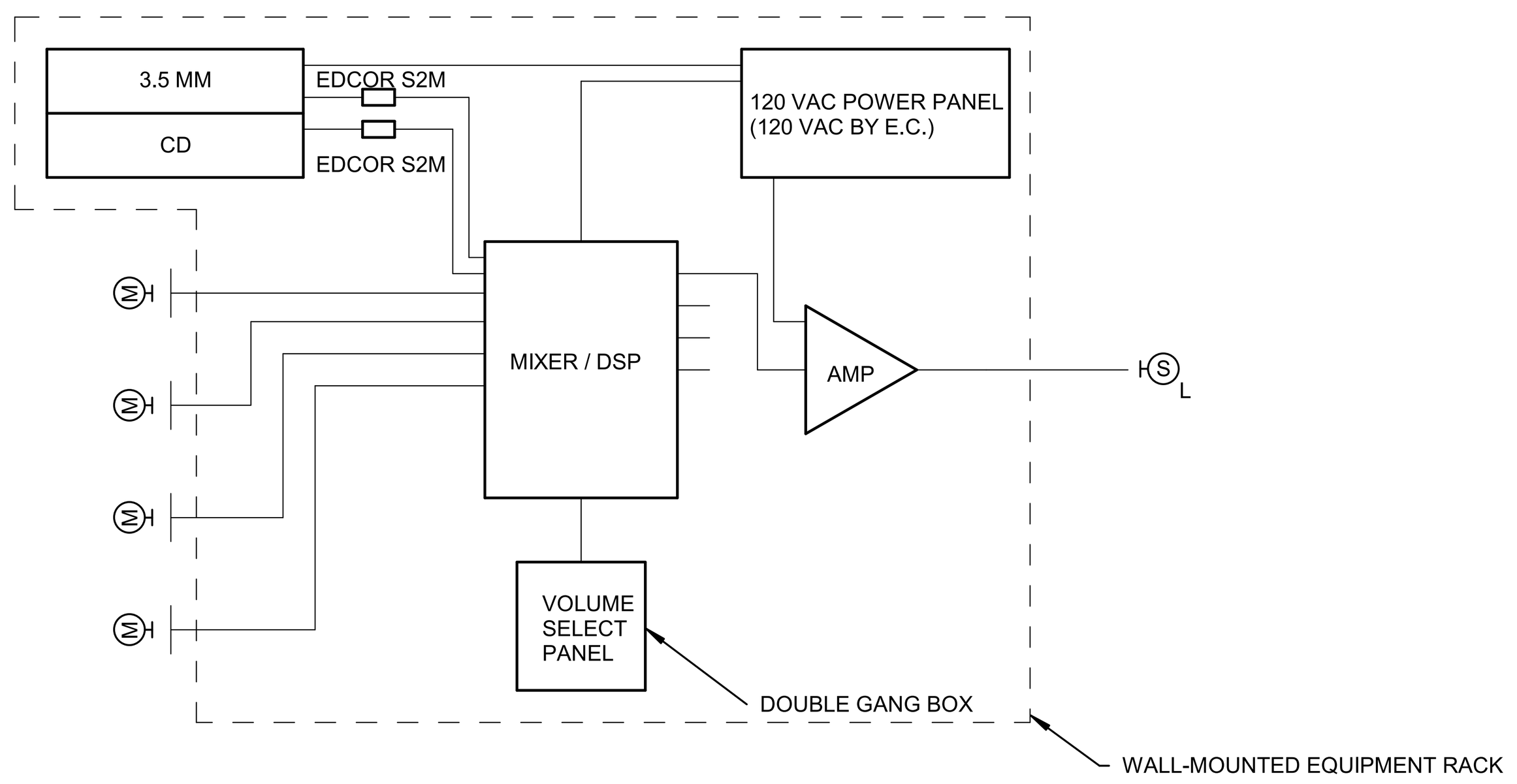
3E TERMINATION DETAIL
NOT TO SCALE



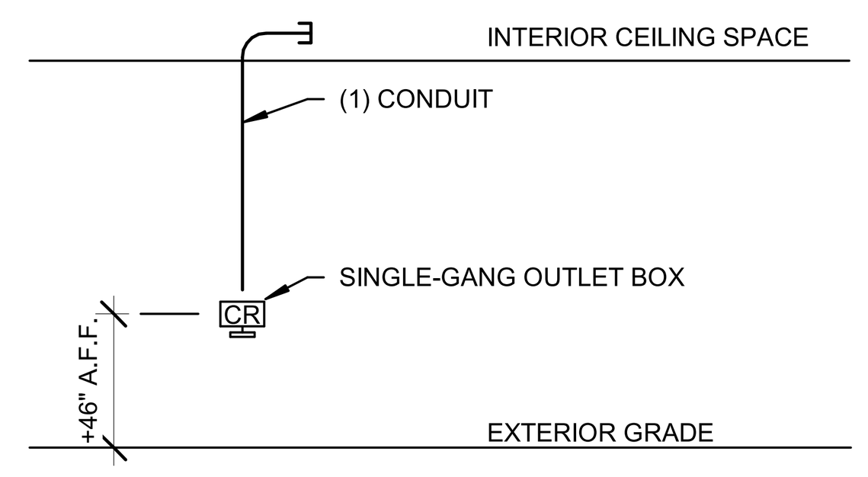
2E WALL-MOUNTED TELEVISION ROUGH-IN
NOT TO SCALE



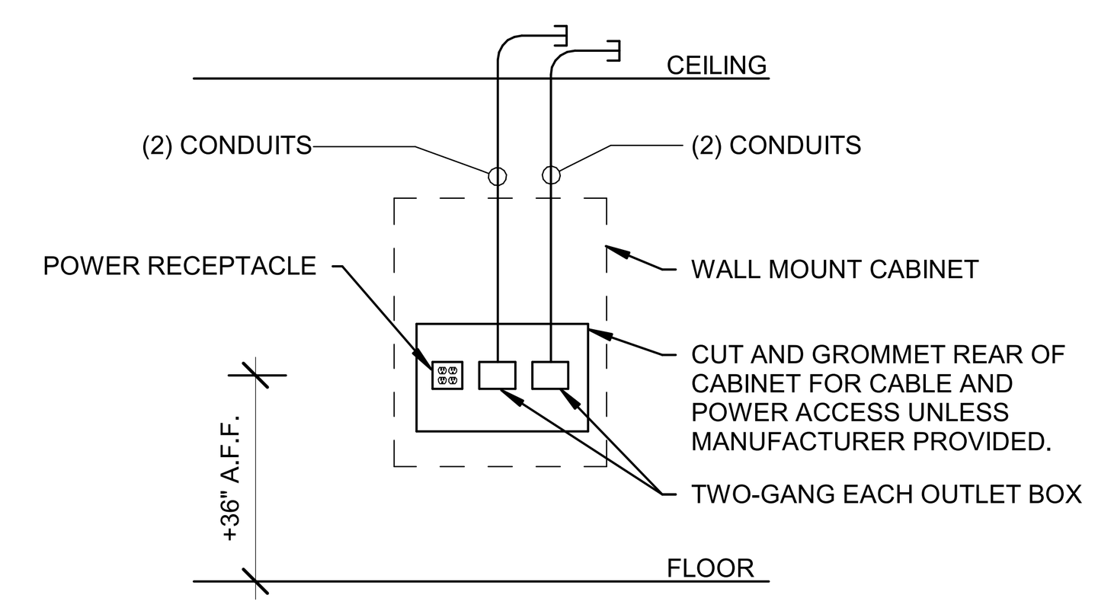
1E TELECOMMUNICATIONS FLOOR BOX ROUGH-IN
NOT TO SCALE



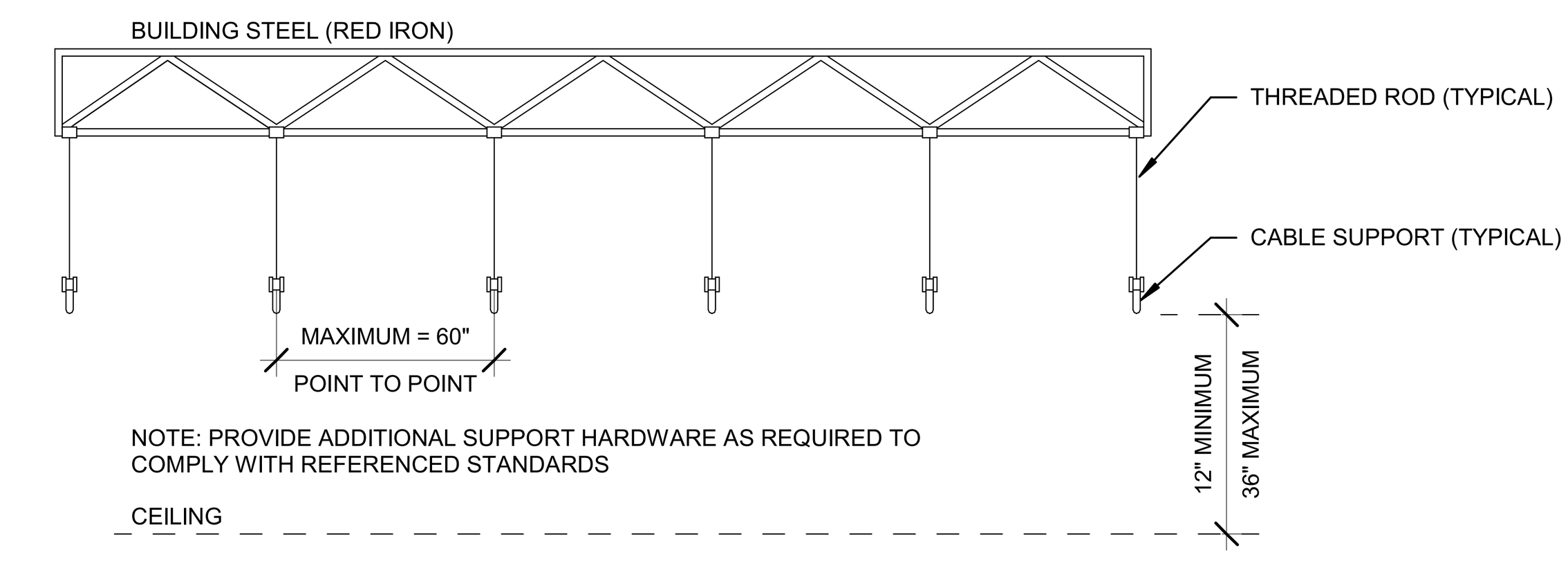
5D GYMNASIUM / CAFETERIA SOUND SYSTEM ONE-LINE DIAGRAM
NOT TO SCALE



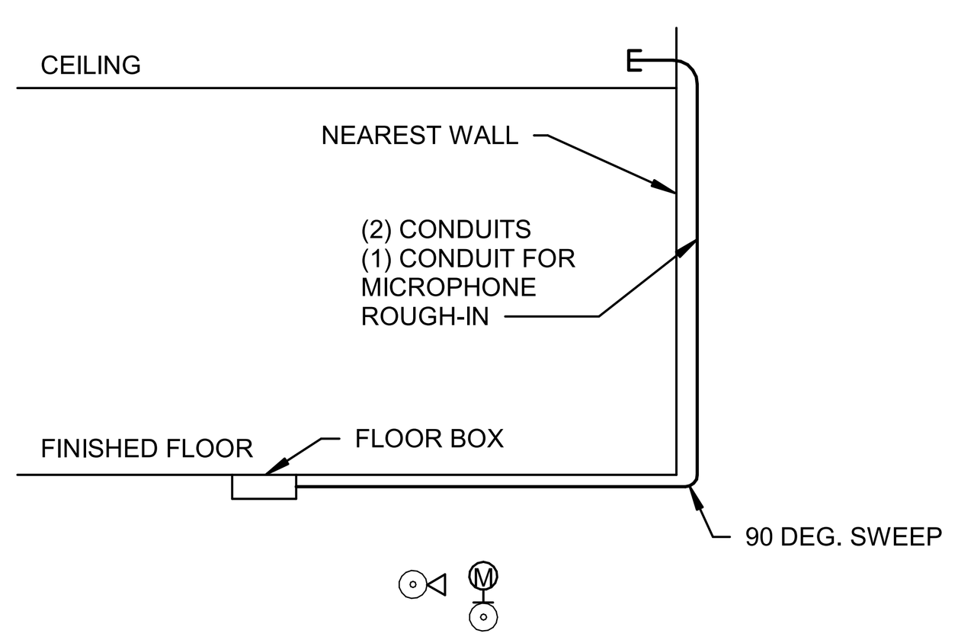
4D ACCESS CONTROL CARD READER ROUGH-IN
NOT TO SCALE



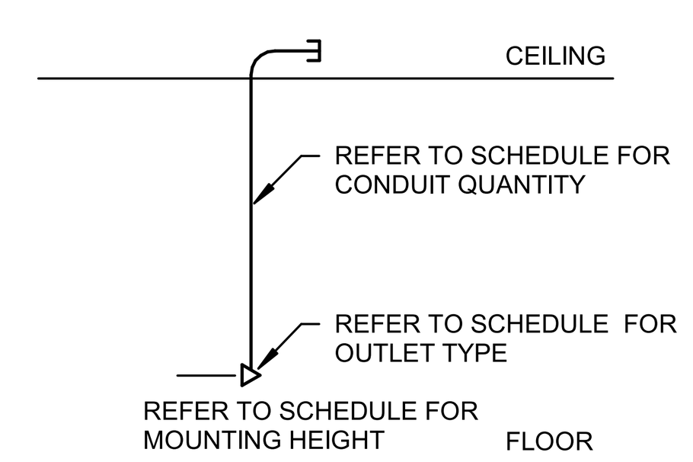
3D WALL-MOUNT SOUND CABINET ROUGH-IN DETAIL
NOT TO SCALE



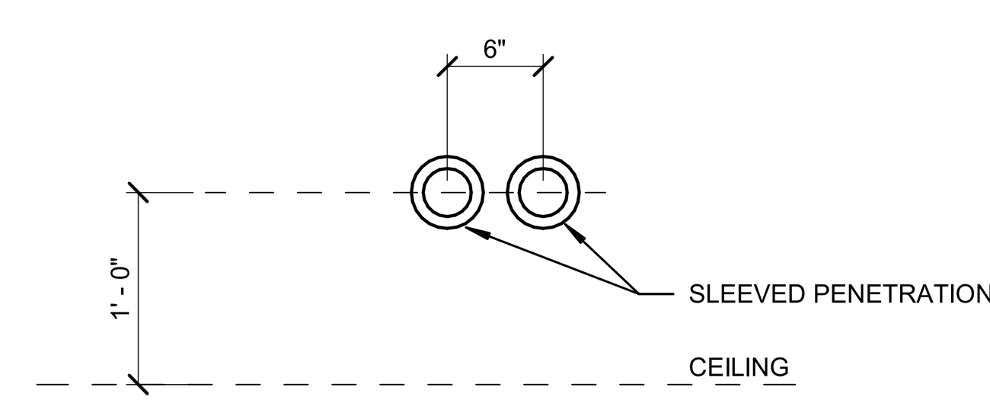
1D CABLE SUPPORT DETAIL
NOT TO SCALE



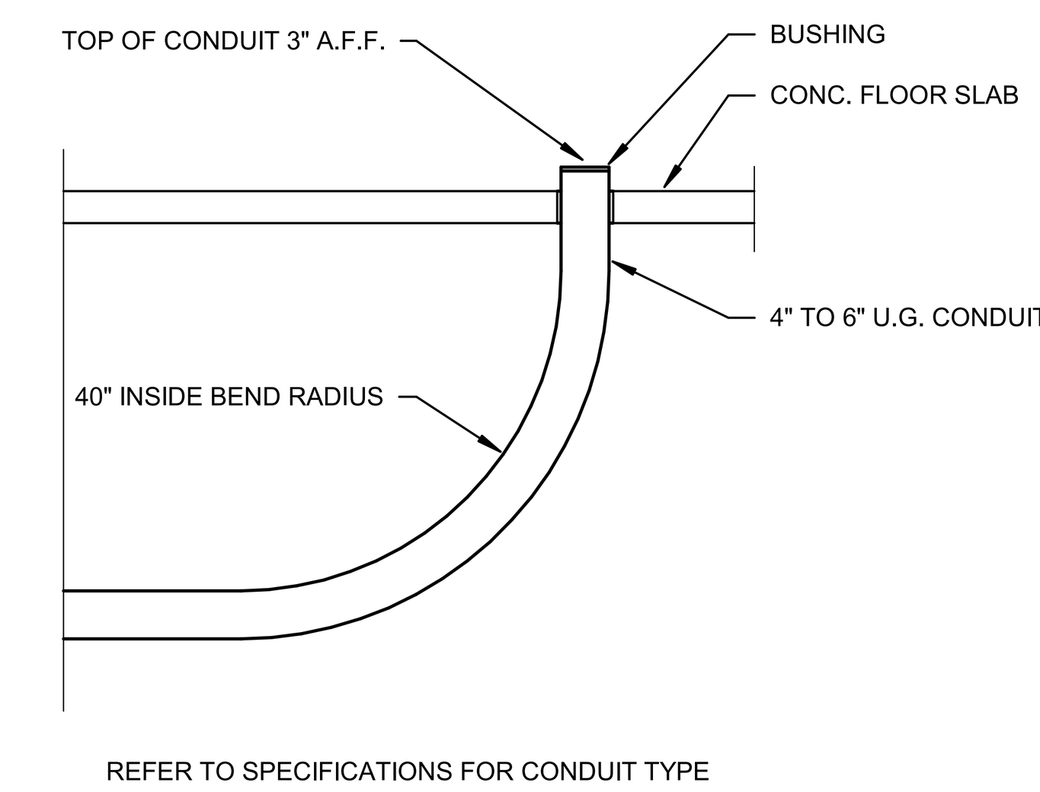
4C TELECOMMUNICATIONS FLOOR BOX ROUGH-IN
NOT TO SCALE



3C TYPICAL WALL-MTD. TELECOM. ROUGH-IN
NOT TO SCALE



2C TYPICAL CLASSROOM / OFFICE SLEEVED PENETRATION
NOT TO SCALE

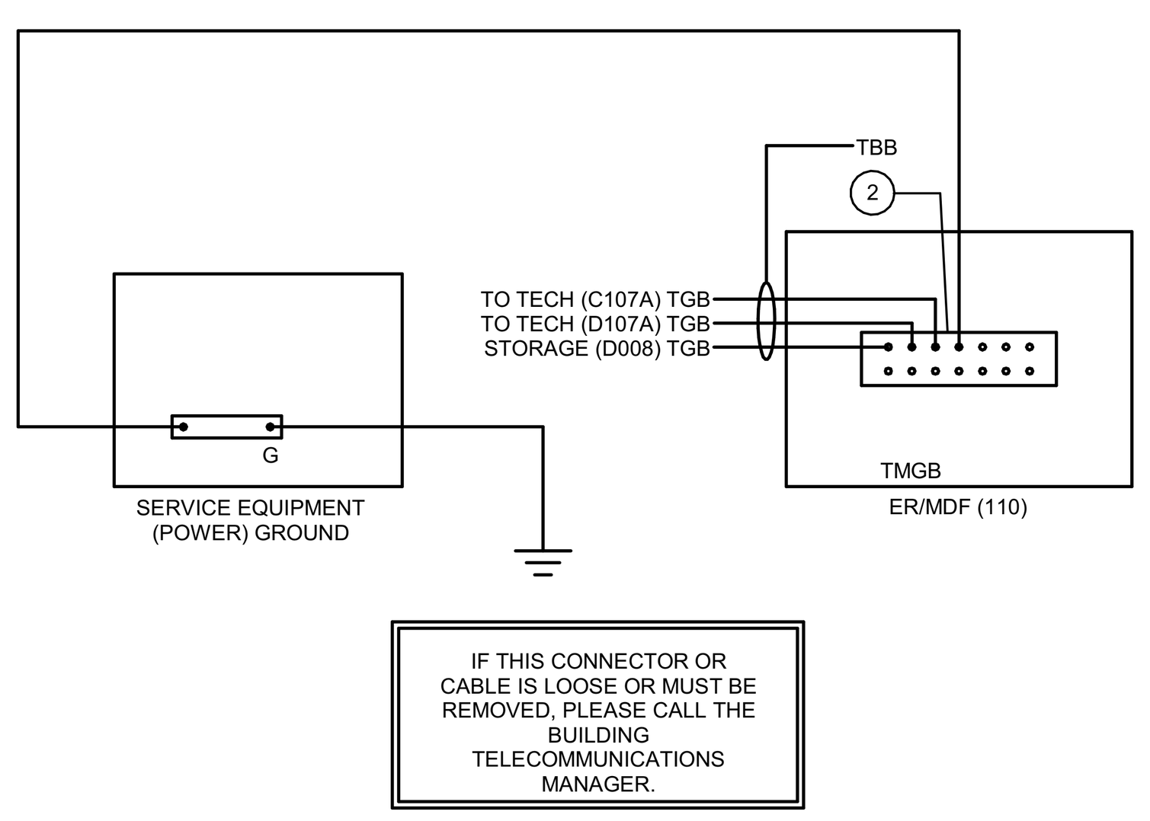


1C UNDER GROUND CONDUIT FLOOR TERMINATION DETAIL
NOT TO SCALE

A1

SIZING OF THE TBB	
TBB LENGTH (FEET)	TBB SIZE (AWG)
LESS THAN 13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0
85-105	4/0
106-125	250 kcmil
126-150	300 kcmil
151-175	350 kcmil
176-250	500 kcmil
251-300	600 kcmil
Greater than 301	750 kcmil

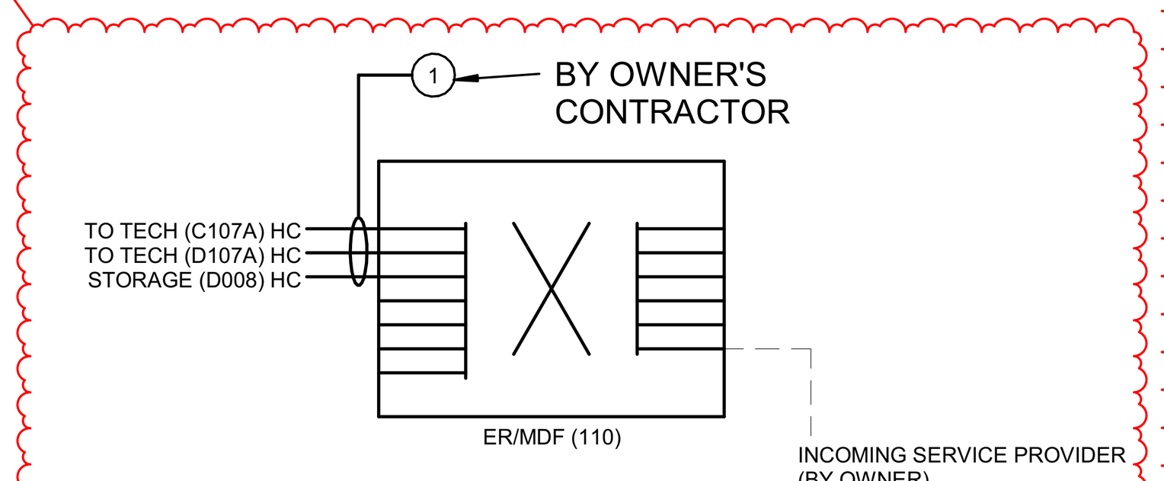
CONFIRM ALL SIZING WITH J-STD-607-A



PROVIDE THE ABOVE LABEL ON ALL TMGB / TGB

GROUNDING

A1



BACKBONE

ABBREVIATIONS:
MC - MAIN CROSS-CONNECT
HC - HORIZONTAL CROSS-CONNECT
ER - EQUIPMENT ROOM
TR - TELECOMMUNICATIONS ROOM
TBB - TELECOMMUNICATIONS BONDING BACKBONE
TGB - TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
BC - TELECOMMUNICATIONS BOUNDING CONDUCTOR

DRAWING NOTES:

1. PROVIDE TELECOMMUNICATIONS BACKBONE CABLING AND GROUNDING / BONDING TBB BETWEEN THE MC AND EACH HC/IC AS FOLLOWS:
   - (2) 4 - PAIR CAT6 UTP COPPER AS SPECIFIED.
   - 12 STRANDS OF MULTI-MODE FIBER AS SPECIFIED.
   - TBB SIZED PER STANDARDS
2. WITHIN THE TELECOMMUNICATIONS EQUIPMENT ROOM (ER) AND EACH TELECOMMUNICATIONS ROOM (TR) BOND THE TMGB AND EACH TGB TO THE FOLLOWING:
   - STRUCTURAL STEEL
   - ALL METALLIC MATERIAL
   - CABLE TRAY
   - EQUIPMENT CABINETS AND RACKS

GENERAL NOTES:

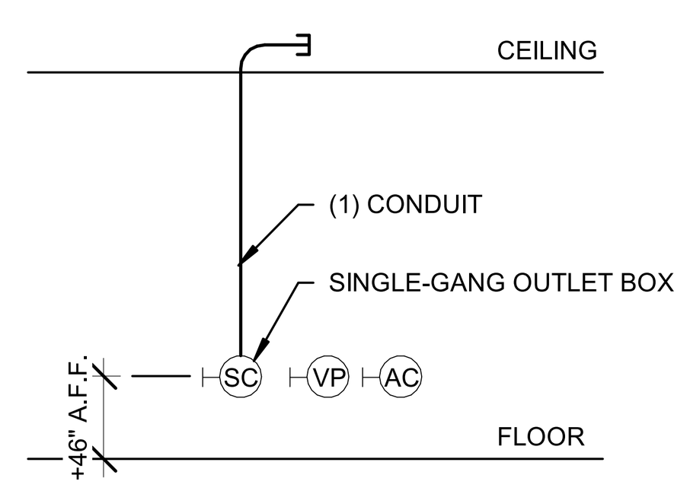
1. ALL WORK INDICATED SHALL BE FULLY COMPLIANT WITH THE FOLLOWING STANDARDS.

A. ANSI / TIA / EIA - 568 - B COMMERCIAL BUILDING TELECOMMUNICATIONS STANDARD PART 1, PART 2 AND PART 3 INCLUDING ALL SUB-PARTS AND ADDENDUMS.
B. TIA - 569 - B COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES INCLUDING ALL SUB-PARTS AND ADDENDUMS.
C. ANSI / TIA / EIA - 606 - A ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE INCLUDING ALL SUB-PARTS AND ADDENDUMS.
D. ANSI - J - STD - 607 - A COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.

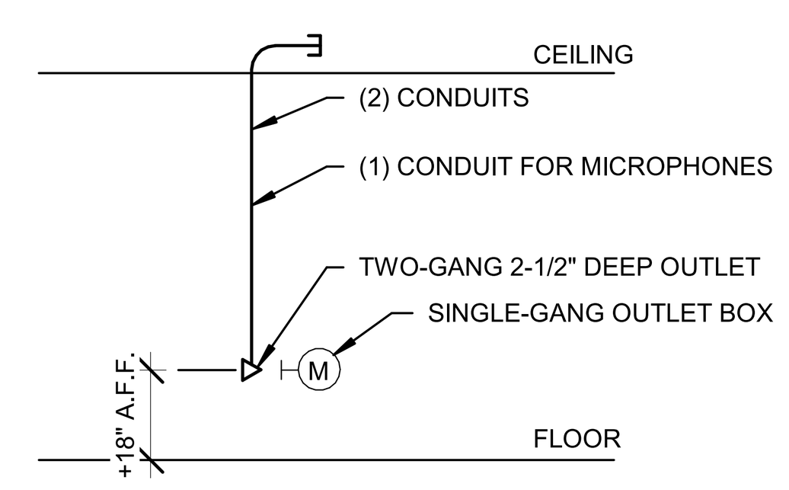
2. ROUTE ALL TBB ALONG PRIMARY PATHWAY WITH TELECOMMUNICATIONS CABLING.

3. COORDINATE SPECIFIC EQUIPMENT ELEVATIONS WITH ARCHITECT ENGINEER.

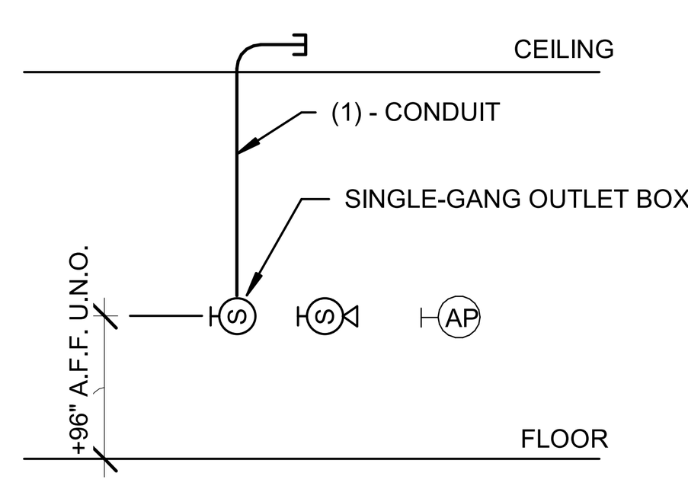
5A BACKBONE / GROUNDING SCHEMATICS
NOT TO SCALE



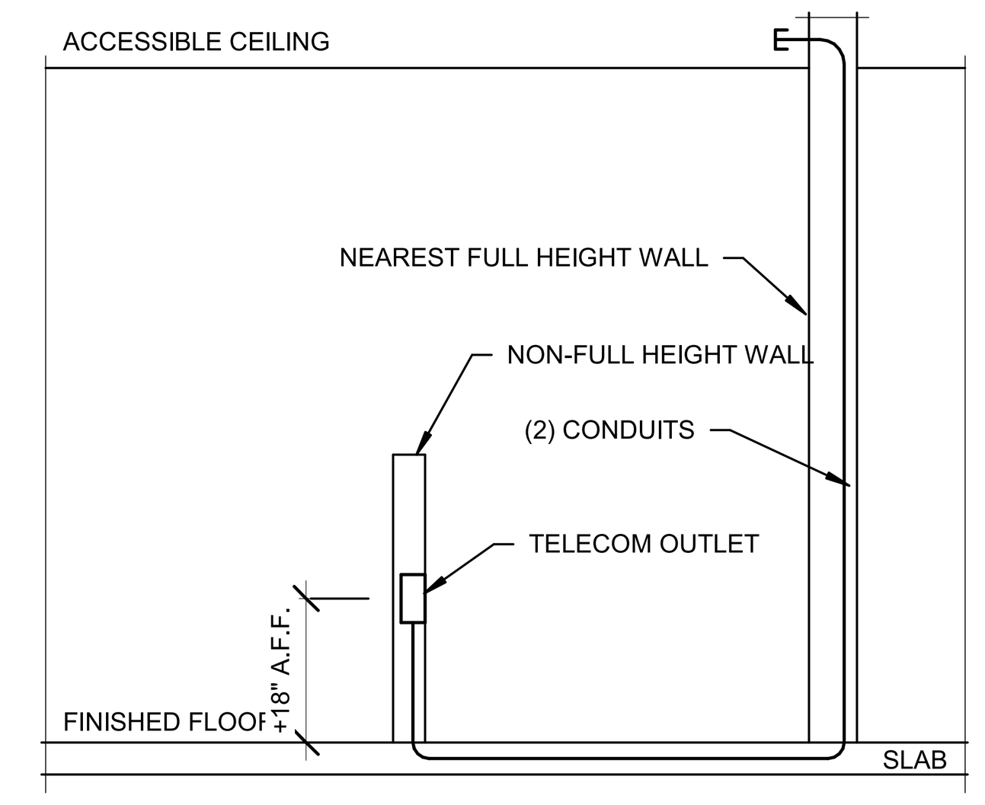
4B SURV. AND ACCESS CONTROL ACTIVATION SWITCH ROUGH-IN
NOT TO SCALE



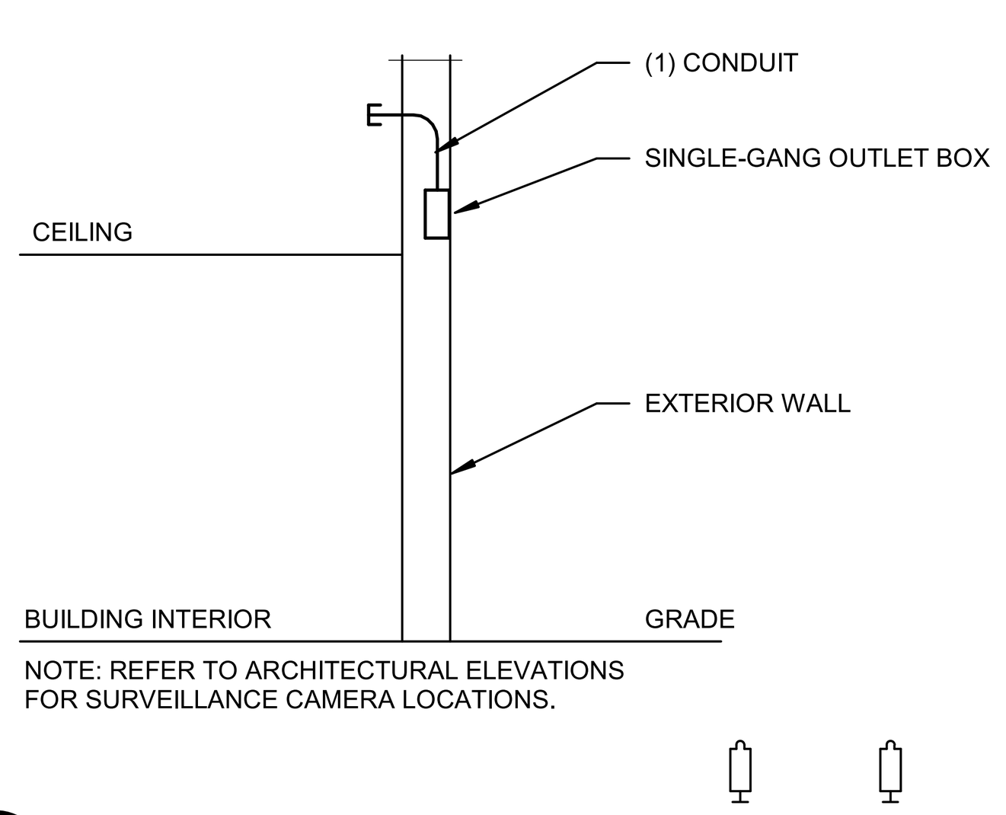
3B TELECOM AND MICROPHONE ROUGH-IN
NOT TO SCALE



2B WALL-MOUNTED SPEAKERS ROUGH-IN
NOT TO SCALE

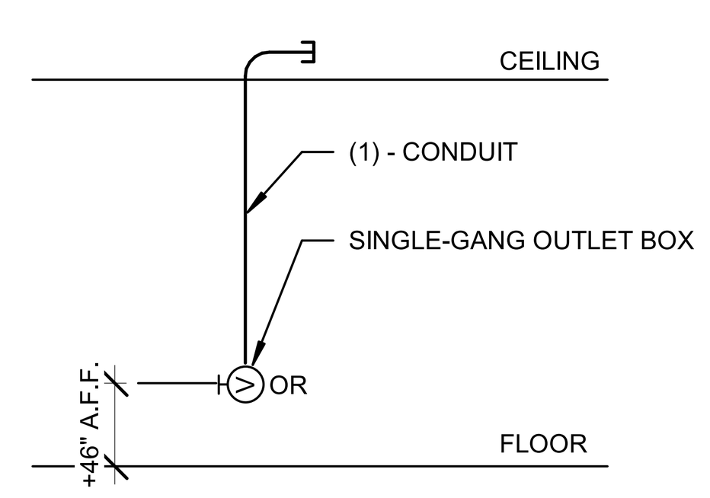


1B TELECOM OUTLET ROUGH-IN IN NON-FULL HEIGHT WALL
NOT TO SCALE



NOTE: REFER TO ARCHITECTURAL ELEVATIONS FOR SURVEILLANCE CAMERA LOCATIONS.

4A EXTERIOR SURVEILLANCE ROUGH-IN
NOT TO SCALE



3A VOLUME CONTROL / CALL-IN ROUGH-IN
NOT TO SCALE

ROUGH-IN GENERAL NOTES:

1. TERMINATE ALL ROUGH-IN CONDUITS WITH 90 DEGREE SWEEP AND BUSHINGS IN NEAREST CONCEALED ACCESSIBLE CEILING SPACE.
2. CONDUIT BEND RADIUS TO BE COMPLIAN WITH 2003 BICSI TDMM MANUAL 10TH ED. 5-60.
3. ALL ROUGH-IN CONDUITS ARE 1".
4. PROVIDE NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS IN A SINGLE CONDUIT RUN.
5. ROUGH-IN OUTLET BOXES TO HAVE 90 DEGREE OPENING CORNERS ON FACE OF BOX.
6. ALL ROUGH-INS BY ELECTRICAL CONTRACTOR.

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Franklin Township Community School Corporation

NEW ELEMENTARY SCHOOL

TELECOMMUNICATIONS DETAILS

T-501

6 5 4 3 2 1